



BABCOCK Laboratories, Inc.

The Standard of Excellence for Over 100 Years

Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 1 of 8
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 19-Mar-2020

Work Order Number: C0C0769
Received on Ice (Y/N): Yes Temp: 16 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C0C0769-01	Whitewater Creek	Liquid	03/4/20 12:25	Todd Chapman	03/04/20 17:15	Todd Chapman



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Analytical Report: Page 2 of 8
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 19-Mar-2020

Work Order Number: C0C0769
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0C0769-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Whitewater Creek	Liquid	03/04/20 12:25	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	180	15	mg/L	SM 2340B/EPA 200.7	03/11/20 19:10	KRV	
Calcium	50	2.5	mg/L	EPA 200.7	03/11/20 19:10	MEL	
Magnesium	13	2.5	mg/L	EPA 200.7	03/11/20 19:10	MEL	
Anions							
Total Alkalinity	160	5.0	mg/L as CaCO3	SM 2320B	03/14/20 02:55	CMR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	03/14/20 02:55	CMR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	03/14/20 02:55	CMR	
Bicarbonate	160	5.0	mg/L as CaCO3	SM 2320B	03/14/20 02:55	CMR	
Aggregate Properties							
pH	8.3	1.0	pH Units	SM 4500H+ B	03/13/20 11:24	KBS	
Specific Conductance	380	1.0	umhos/cm	SM 2510 B	03/14/20 02:55	CMR	
Solids							
Total Dissolved Solids	220	10	mg/L	SM 2540C	03/06/20 18:15	KAA	



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Report Date: 19-Mar-2020

Work Order Number: C0C0769
Received on Ice (Y/N): Yes Temp: 16 °C

Cations - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0C11108 - EPA 200.2										
Blank (0C11108-BLK1)				Prepared & Analyzed: 03/11/20						
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
LCS (0C11108-BS1)				Prepared & Analyzed: 03/11/20						
Calcium	17.7	1.0	mg/L	17.0		104	85-115			
Magnesium	17.1	1.0	mg/L	17.0		101	85-115			
Matrix Spike (0C11108-MS1)				Source: C0C0585-01 Prepared & Analyzed: 03/11/20						
Calcium	69.8	2.0	mg/L	17.0	51.3	108	70-130			
Magnesium	33.2	2.0	mg/L	17.0	14.8	109	70-130			
Matrix Spike Dup (0C11108-MSD1)				Source: C0C0585-01 Prepared & Analyzed: 03/11/20						
Calcium	69.6	2.0	mg/L	17.0	51.3	107	70-130	0.262	20	
Magnesium	32.6	2.0	mg/L	17.0	14.8	105	70-130	1.91	20	



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Received on Ice (Y/N): Yes Temp: 16 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0C13075 - Analyzed as received										
Blank (0C13075-BLK1)				Prepared & Analyzed: 03/14/20						
Total Alkalinity	ND	5.0	mg/L as CaCO ₃							
Hydroxide	ND	5.0	mg/L as CaCO ₃							
Carbonate	ND	5.0	mg/L as CaCO ₃							
Bicarbonate	ND	5.0	mg/L as CaCO ₃							
LCS (0C13075-BS2)				Prepared & Analyzed: 03/14/20						
Total Alkalinity	1230	5.0	mg/L as CaCO ₃	1250		98.4	90-110			
Carbonate	1210	5.0	mg/L as CaCO ₃	1250		96.5	90-110			
Duplicate (0C13075-DUP1)				Source: C0C0565-03		Prepared & Analyzed: 03/14/20				
Total Alkalinity	136	5.0	mg/L as CaCO ₃		134			1.44	20	
Hydroxide	ND	5.0	mg/L as CaCO ₃		ND				20	
Carbonate	ND	5.0	mg/L as CaCO ₃		ND				20	
Bicarbonate	136	5.0	mg/L as CaCO ₃		134			1.44	20	
Duplicate (0C13075-DUP2)				Source: C0C0565-05		Prepared & Analyzed: 03/14/20				
Total Alkalinity	146	5.0	mg/L as CaCO ₃		147			0.320	20	
Hydroxide	ND	5.0	mg/L as CaCO ₃		ND				20	
Carbonate	ND	5.0	mg/L as CaCO ₃		ND				20	
Bicarbonate	146	5.0	mg/L as CaCO ₃		147			0.320	20	



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Work Order Number: C0C0769
Received on Ice (Y/N): Yes Temp: 16 °C

Aggregate Properties - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0C13022 - Analyzed as received										
LCS (0C13022-BS1)				Prepared & Analyzed: 03/13/20						
pH	7.0	1.0	pH Units	7.00		100	97.5-102.5			
LCS (0C13022-BS2)				Prepared & Analyzed: 03/13/20						
pH	7.0	1.0	pH Units	7.00		100	97.5-102.5			
LCS (0C13022-BS3)				Prepared & Analyzed: 03/13/20						
pH	7.0	1.0	pH Units	7.00		100	97.5-102.5			
LCS (0C13022-BS4)				Prepared & Analyzed: 03/13/20						
pH	7.0	1.0	pH Units	7.00		100	97.5-102.5			
Duplicate (0C13022-DUP1)		Source: C0C0668-01		Prepared & Analyzed: 03/13/20						
pH	7.6	1.0	pH Units		7.6			0.792	5	
Duplicate (0C13022-DUP2)		Source: C0C0769-01		Prepared & Analyzed: 03/13/20						
pH	8.3	1.0	pH Units		8.3			0.242	5	
Batch 0C13075 - Analyzed as received										
LCS (0C13075-BS1)				Prepared & Analyzed: 03/14/20						
Specific Conductance	976	1.0	umhos/cm	1000		97.6	90-110			
Duplicate (0C13075-DUP1)				Prepared & Analyzed: 03/14/20						
Specific Conductance	1060	1.0	umhos/cm		1070			0.942	20	
Duplicate (0C13075-DUP2)				Prepared & Analyzed: 03/14/20						
Specific Conductance	1030	1.0	umhos/cm		1040			1.16	20	



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Project Name: Whitewater Project 2020
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Report Date: 19-Mar-2020

Work Order Number: C0C0769
Received on Ice (Y/N): Yes Temp: 16 °C

Solids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0C06057 - Analyzed as received										
Blank (0C06057-BLK1)				Prepared & Analyzed: 03/06/20						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (0C06057-DUP1)				Source: C0C0706-07 Prepared & Analyzed: 03/06/20						
Total Dissolved Solids	317	10	mg/L		317			0.00	20	
Duplicate (0C06057-DUP2)				Source: C0C0758-01 Prepared & Analyzed: 03/06/20						
Total Dissolved Solids	361	10	mg/L		349			3.38	20	



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Received on Ice (Y/N): Yes Temp: 16 °C

Notes and Definitions

pH: Regulatory 15 minute holding time exceeded C0C0769-01

ND: Analyte NOT DETECTED at or above the Method Detection Limit (**if MDL is reported**), otherwise at or above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

MDL: Method Detection Limit

* / (Non-NELAP): NELAP does not offer accreditation for this analyte/method/matrix combination

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

Cindy A. Waddell

cc:

e-Standard_No Alias.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.

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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



Analytical Report: Page 8 of 8
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Work Order Number: C0C0769
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Chain of Custody & Sample Information Record

C0C0769

Rc'd: 03/04/2020 17:15
JLH



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Analytical Report: Page 1 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C0D3709-01	Pond 1 (Solid)	Solid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-02	Pond 1 (Leachate w/ DI)	Liquid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-03	Pond 2 (Solid)	Solid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-04	Pond 2 (Leachate w/ DI)	Liquid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-05	Pond 5 (Solid)	Solid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-06	Pond 5 (Leachate w/ DI)	Liquid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-07	Pond 12 (Solid)	Solid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-08	Pond 12 (Leachate w/ DI)	Liquid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-09	Pond 14 (Solid)	Solid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-10	Pond 14 (Leachate w/ DI)	Liquid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-11	Pond 19 (Solid)	Solid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-12	Pond 19 (Leachate w/ DI)	Liquid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-13	Background (Solid)	Solid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-14	Background (Leachate w/ DI)	Liquid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman
C0D3709-17	Sediment Placement (Solid)	Solid	03/3/20 0:00	Todd Chapman	03/04/20 17:15	Todd Chapman



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Project Name: Whitewater Project 2020

Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709

Received on Ice (Y/N):

Yes

Temp: 16 °C

Note: Sample identified as Upstream Wash, C0D3709-15 and C0D3709-16 was cancelled, sample was not received at laboratory.

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Analytical Report: Page 3 of 78
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 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 1 (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.19	%	EPA 9060	05/14/20 11:05	KSL	N_HTa
Metals and Metalloids; EPA SW846 Series							
Aluminum	8700	10	mg/kg	EPA 6010B	05/12/20 16:25	MEL	
Antimony	ND	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Arsenic	ND	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Barium	45	1.0	mg/kg	EPA 6020	05/14/20 21:05	KRV	
Beryllium	ND	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Cadmium	ND	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Total Chromium	9.5	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Cobalt	3.8	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Copper	5.9	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Iron	15000	20	mg/kg	EPA 6010B	05/12/20 16:25	MEL	
Lead	2.0	2.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Manganese	180	10	mg/kg	EPA 6020	05/14/20 21:05	KRV	
Mercury	ND	0.050	mg/kg	EPA 7471A	05/12/20 12:53	KSL	N_HTa
Molybdenum	ND	5.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Nickel	5.5	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Selenium	ND	5.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Silver	ND	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Thallium	ND	1.0	mg/kg	EPA 6020	05/12/20 14:15	KRV	
Vanadium	17	1.0	mg/kg	EPA 6020	05/14/20 21:05	KRV	
Zinc	30	1.0	mg/kg	EPA 6020	05/14/20 21:05	KRV	NRPDo
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	10	mg/kg	EPA 8015B	05/08/20 23:18	NAA	N_HTp
ORO (C29-C44)	ND	10	mg/kg	EPA 8015B	05/08/20 23:18	NAA	N_HTp
Surrogate: o-Terphenyl	70%	10-142		EPA 8015B	05/08/20 23:18	NAA	N_HTp
Surrogate: n-Triacontane	36%	10-118		EPA 8015B	05/08/20 23:18	NAA	N_HTp

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Work Order Number: C0D3709

Received on Ice (Y/N):

Yes

Temp: 16 °C

Laboratory Reference Number**C0D3709-01**Sample Description

Pond 1 (Solid)

Matrix

Solid

Sampled Date/Time

03/03/20 00:00

Received Date/Time

03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	5.0	mg/kg	EPA 8015B	05/05/20 15:30	ABUSE	N_HTp
Surrogate: <i>a,a,a</i> -Trifluorotoluene	100%	11-140		EPA 8015B	05/05/20 15:30	ABUSE	N_HTp

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EPA No. CA00102

NELAP No. OR4035

LACSD No. 10119



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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 1 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	19	3.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:26	KSL	
Calcium	6.2	1.0	mg/L	EPA 200.7	05/29/20 15:26	KSL	
Magnesium	ND	1.0	mg/L	EPA 200.7	05/29/20 15:26	KSL	
Sodium	2.0	1.0	mg/L	EPA 200.7	05/29/20 15:26	KSL	
Potassium	1.9	1.0	mg/L	EPA 200.7	05/29/20 15:26	KSL	
Anions							
Total Alkalinity	23	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:43	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:43	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:43	BBR	
Bicarbonate	23	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:43	BBR	
Chloride	ND	1.0	mg/L	EPA 300.0	05/29/20 02:48	KAA	
Sulfate	3.8	0.50	mg/L	EPA 300.0	05/29/20 02:48	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 02:48	KAA	
Fluoride	0.1	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	7.6	1.0	pH Units	SM 4500H+ B	05/29/20 13:43	BBR	
Specific Conductance	54	1.0	umhos/cm	SM 2510 B	05/29/20 13:43	BBR	
Solids							
Total Dissolved Solids	41	10	mg/L	SM 2540C	05/28/20 21:00	JGZ	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	05/29/20 12:14	KSL	N_HTa



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 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 1 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/28/20 20:10	DAD	
Nutrients							
Total Phosphorus	0.06	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	400	100	ug/L	EPA 200.7	05/29/20 15:26	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Barium	ND	20	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:26	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8	05/29/20 15:29	KRV	N_HTa
				ATP			
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:29	KRV	
Vanadium	22	10	ug/L	EPA 200.8	06/02/20 14:24	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:29	KRV	



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
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Analytical Report: Page 7 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 1 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 18:09	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 18:09	NAA	N_HTr
Surrogate: o-Terphenyl	80%	49-114		EPA 8015B	05/29/20 18:09	NAA	N_HTr
Surrogate: n-Triacontane	41%	10-122		EPA 8015B	05/29/20 18:09	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	05/29/20 17:35	JES	N_HTr
Surrogate: a,a,a-Trifluorotoluene	94%	64-120		EPA 8015B	05/29/20 17:35	JES	N_HTr



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 8 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 2 (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.19	%	EPA 9060	06/02/20 11:01	DNF	N_HTa
Metals and Metalloids; EPA SW846 Series							
Aluminum	6900	10	mg/kg	EPA 6010B	06/01/20 17:55	KSL	
Antimony	ND	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Arsenic	ND	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Barium	42	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Beryllium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Cadmium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Total Chromium	8.6	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Cobalt	3.9	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Copper	6.3	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Iron	13000	20	mg/kg	EPA 6010B	06/01/20 17:55	KSL	
Lead	2.2	2.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Manganese	190	10	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Mercury	ND	0.050	mg/kg	EPA 7471A	06/02/20 12:58	KSL	N_HTa
Molybdenum	ND	5.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Nickel	5.6	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Selenium	ND	5.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Silver	ND	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Thallium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Vanadium	20	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Zinc	29	1.0	mg/kg	EPA 6020	06/01/20 17:24	MEL	
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	10	mg/kg	EPA 8015B	05/26/20 16:39	NAA	N_HTr
ORO (C29-C44)	ND	10	mg/kg	EPA 8015B	05/26/20 16:39	NAA	N_HTr
Surrogate: o-Terphenyl	52%	10-142		EPA 8015B	05/26/20 16:39	NAA	N_HTr
Surrogate: n-Triacontane	27%	10-118		EPA 8015B	05/26/20 16:39	NAA	N_HTr

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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 9 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number**C0D3709-03**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 2 (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	5.0	mg/kg	EPA 8015B	05/28/20 16:17	JES	N_HTr
Surrogate: <i>a,a,a</i> -Trifluorotoluene	90%	11-140		EPA 8015B	05/28/20 16:17	JES	N_HTr



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Client Name: ECORP Consulting, Inc.
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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 2 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	17	3.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:28	KSL	
Calcium	5.6	1.0	mg/L	EPA 200.7	05/29/20 15:28	KSL	
Magnesium	ND	1.0	mg/L	EPA 200.7	05/29/20 15:28	KSL	
Sodium	1.8	1.0	mg/L	EPA 200.7	05/29/20 15:28	KSL	
Potassium	1.8	1.0	mg/L	EPA 200.7	05/29/20 15:28	KSL	
Anions							
Total Alkalinity	23	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:50	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:50	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:50	BBR	
Bicarbonate	23	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:50	BBR	
Chloride	ND	1.0	mg/L	EPA 300.0	05/29/20 03:02	KAA	
Sulfate	1.8	0.50	mg/L	EPA 300.0	05/29/20 03:02	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 03:02	KAA	
Fluoride	0.1	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	7.6	1.0	pH Units	SM 4500H+ B	05/29/20 13:50	BBR	
Specific Conductance	47	1.0	umhos/cm	SM 2510 B	05/29/20 13:50	BBR	
Solids							
Total Dissolved Solids	34	10	mg/L	SM 2540C	05/28/20 21:00	JGZ	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	05/29/20 12:29	KSL	N_HTa



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 2 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/28/20 20:10	DAD	
Nutrients							
Total Phosphorus	0.07	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	430	100	ug/L	EPA 200.7	05/29/20 15:28	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Barium	ND	20	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:28	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8	05/29/20 15:32	KRV	N_HTa
				ATP			
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:32	KRV	
Vanadium	20	10	ug/L	EPA 200.8	06/02/20 14:26	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:32	KRV	



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Client Name: ECORP Consulting, Inc.
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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 2 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 18:34	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 18:34	NAA	N_HTr
Surrogate: o-Terphenyl	80%	49-114		EPA 8015B	05/29/20 18:34	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	05/29/20 18:34	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	05/29/20 18:12	JES	N_HTr
Surrogate: a,a,a-Trifluorotoluene	83%	64-120		EPA 8015B	05/29/20 18:12	JES	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
 Santa Ana, CA 92705

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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 5 (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.19	%	EPA 9060	06/02/20 11:16	DNF	N_HTa
Metals and Metalloids; EPA SW846 Series							
Aluminum	7400	10	mg/kg	EPA 6010B	06/01/20 17:57	KSL	
Antimony	ND	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Arsenic	ND	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Barium	40	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Beryllium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Cadmium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Total Chromium	8.3	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Cobalt	3.5	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Copper	8.2	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Iron	13000	20	mg/kg	EPA 6010B	06/01/20 17:57	KSL	
Lead	4.4	2.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Manganese	180	10	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Mercury	ND	0.050	mg/kg	EPA 7471A	06/02/20 13:01	KSL	N_HTa
Molybdenum	ND	5.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Nickel	5.5	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Selenium	ND	5.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Silver	ND	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Thallium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Vanadium	20	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Zinc	28	1.0	mg/kg	EPA 6020	06/01/20 17:35	MEL	
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	10	mg/kg	EPA 8015B	05/26/20 17:03	NAA	N_HTr
ORO (C29-C44)	ND	10	mg/kg	EPA 8015B	05/26/20 17:03	NAA	N_HTr
Surrogate: o-Terphenyl	64%	10-142		EPA 8015B	05/26/20 17:03	NAA	N_HTr
Surrogate: n-Triacontane	33%	10-118		EPA 8015B	05/26/20 17:03	NAA	N_HTr

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Contact: Todd Chapman

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Project Name: Whitewater Project 2020

Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709

Received on Ice (Y/N):

Yes

Temp: 16 °C

Laboratory Reference Number**C0D3709-05**Sample Description

Pond 5 (Solid)

Matrix

Solid

Sampled Date/Time

03/03/20 00:00

Received Date/Time

03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	5.0	mg/kg	EPA 8015B	05/28/20 16:53	JES	N_HTr
Surrogate: <i>a,a,a</i> -Trifluorotoluene	94%	11-140		EPA 8015B	05/28/20 16:53	JES	N_HTr

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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 15 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 5 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	17	3.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:29	KSL	
Calcium	5.5	1.0	mg/L	EPA 200.7	05/29/20 15:29	KSL	
Magnesium	ND	1.0	mg/L	EPA 200.7	05/29/20 15:29	KSL	
Sodium	2.6	1.0	mg/L	EPA 200.7	05/29/20 15:29	KSL	
Potassium	1.6	1.0	mg/L	EPA 200.7	05/29/20 15:29	KSL	
Anions							
Total Alkalinity	26	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:57	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:57	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:57	BBR	
Bicarbonate	26	5.0	mg/L as CaCO3	SM 2320B	05/29/20 13:57	BBR	
Chloride	ND	1.0	mg/L	EPA 300.0	05/29/20 03:16	KAA	
Sulfate	1.4	0.50	mg/L	EPA 300.0	05/29/20 03:16	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 03:16	KAA	
Fluoride	0.1	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	7.5	1.0	pH Units	SM 4500H+ B	05/29/20 13:57	BBR	
Specific Conductance	52	1.0	umhos/cm	SM 2510 B	05/29/20 13:57	BBR	
Solids							
Total Dissolved Solids	41	10	mg/L	SM 2540C	05/28/20 21:00	JGZ	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	05/29/20 12:43	KSL	N_HTa



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 5 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/28/20 20:10	DAD	
Nutrients							
Total Phosphorus	0.07	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	250	100	ug/L	EPA 200.7	05/29/20 15:29	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Arsenic	5.0	5.0	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Barium	ND	20	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:29	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8 ATP	05/29/20 15:34	KRV	N_HTa
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:34	KRV	
Vanadium	16	10	ug/L	EPA 200.8	06/02/20 14:29	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:34	KRV	



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
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Analytical Report: Page 17 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 5 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	06/01/20 13:57	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	06/01/20 13:57	NAA	N_HTr
Surrogate: o-Terphenyl	82%	49-114		EPA 8015B	06/01/20 13:57	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	06/01/20 13:57	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	06/01/20 16:47	EEC	N_HTr
Surrogate: a,a,a-Trifluorotoluene	91%	64-120		EPA 8015B	06/01/20 16:47	EEC	N_HTr



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 18 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 12 (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.19	%	EPA 9060	06/02/20 11:28	DNF	N_HTa
Metals and Metalloids; EPA SW846 Series							
Aluminum	8100	10	mg/kg	EPA 6010B	06/01/20 17:59	KSL	
Antimony	ND	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Arsenic	1.1	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Barium	47	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Beryllium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Cadmium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Total Chromium	13	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Cobalt	4.5	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Copper	9.0	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Iron	14000	20	mg/kg	EPA 6010B	06/01/20 17:59	KSL	
Lead	2.7	2.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Manganese	240	10	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Mercury	ND	0.050	mg/kg	EPA 7471A	06/02/20 13:03	KSL	N_HTa
Molybdenum	ND	5.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Nickel	6.8	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Selenium	ND	5.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Silver	ND	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Thallium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Vanadium	25	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Zinc	36	1.0	mg/kg	EPA 6020	06/01/20 17:37	MEL	
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	10	mg/kg	EPA 8015B	05/26/20 17:28	NAA	N_HTr
ORO (C29-C44)	ND	10	mg/kg	EPA 8015B	05/26/20 17:28	NAA	N_HTr
Surrogate: o-Terphenyl	63%	10-142		EPA 8015B	05/26/20 17:28	NAA	N_HTr
Surrogate: n-Triacontane	33%	10-118		EPA 8015B	05/26/20 17:28	NAA	N_HTr

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Client Name: ECORP Consulting, Inc.

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Project Name: Whitewater Project 2020

Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709

Received on Ice (Y/N):

Yes

Temp: 16 °C

Laboratory Reference Number**C0D3709-07**Sample Description

Pond 12 (Solid)

Matrix

Solid

Sampled Date/Time

03/03/20 00:00

Received Date/Time

03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	5.0	mg/kg	EPA 8015B	05/28/20 17:30	JES	N_HTr
Surrogate: <i>a,a,a</i> -Trifluorotoluene	89%	11-140		EPA 8015B	05/28/20 17:30	JES	N_HTr

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NELAP No. OR4035

LACSD No. 10119



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 20 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-08

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 12 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	19	3.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:31	KSL	
Calcium	6.0	1.0	mg/L	EPA 200.7	05/29/20 15:31	KSL	
Magnesium	ND	1.0	mg/L	EPA 200.7	05/29/20 15:31	KSL	
Sodium	2.6	1.0	mg/L	EPA 200.7	05/29/20 15:31	KSL	
Potassium	2.0	1.0	mg/L	EPA 200.7	05/29/20 15:31	KSL	
Anions							
Total Alkalinity	25	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:05	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:05	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:05	BBR	
Bicarbonate	25	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:05	BBR	
Chloride	ND	1.0	mg/L	EPA 300.0	05/29/20 03:29	KAA	
Sulfate	1.7	0.50	mg/L	EPA 300.0	05/29/20 03:29	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 03:29	KAA	
Fluoride	0.1	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	7.6	1.0	pH Units	SM 4500H+ B	05/29/20 14:05	BBR	
Specific Conductance	52	1.0	umhos/cm	SM 2510 B	05/29/20 14:05	BBR	
Solids							
Total Dissolved Solids	39	10	mg/L	SM 2540C	05/28/20 21:00	JGZ	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	05/29/20 12:58	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 21 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-08

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 12 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/28/20 20:10	DAD	
Nutrients							
Total Phosphorus	0.09	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	330	100	ug/L	EPA 200.7	05/29/20 15:31	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Barium	ND	20	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:31	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8	05/29/20 15:36	KRV	N_HTa
				ATP			
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:36	KRV	
Vanadium	18	10	ug/L	EPA 200.8	06/02/20 14:31	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:36	KRV	



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 22 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-08

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 12 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 18:58	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 18:58	NAA	N_HTr
Surrogate: o-Terphenyl	80%	49-114		EPA 8015B	05/29/20 18:58	NAA	N_HTr
Surrogate: n-Triacontane	41%	10-122		EPA 8015B	05/29/20 18:58	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	05/29/20 18:48	JES	N_HTr
Surrogate: a,a,a-Trifluorotoluene	95%	64-120		EPA 8015B	05/29/20 18:48	JES	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
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Analytical Report: Page 23 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-09

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 14 (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.19	%	EPA 9060	06/02/20 11:45	DNF	N_HTa
Metals and Metalloids; EPA SW846 Series							
Aluminum	7000	10	mg/kg	EPA 6010B	06/01/20 18:01	KSL	
Antimony	ND	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Arsenic	1.1	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Barium	44	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Beryllium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Cadmium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Total Chromium	7.1	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Cobalt	3.7	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Copper	6.9	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Iron	13000	20	mg/kg	EPA 6010B	06/01/20 18:01	KSL	
Lead	2.2	2.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Manganese	180	10	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Mercury	ND	0.050	mg/kg	EPA 7471A	06/02/20 13:05	KSL	N_HTa
Molybdenum	ND	5.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Nickel	4.8	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Selenium	ND	5.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Silver	ND	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Thallium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Vanadium	19	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Zinc	28	1.0	mg/kg	EPA 6020	06/01/20 17:40	MEL	
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	10	mg/kg	EPA 8015B	05/26/20 17:53	NAA	N_HTr
ORO (C29-C44)	ND	10	mg/kg	EPA 8015B	05/26/20 17:53	NAA	N_HTr
Surrogate: o-Terphenyl	65%	10-142		EPA 8015B	05/26/20 17:53	NAA	N_HTr
Surrogate: n-Triacontane	34%	10-118		EPA 8015B	05/26/20 17:53	NAA	N_HTr

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Client Name: ECORP Consulting, Inc.

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Analytical Report: Page 24 of 78

Project Name: Whitewater Project 2020

Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709

Received on Ice (Y/N):

Yes

Temp: 16 °C

Laboratory Reference Number**C0D3709-09**Sample Description

Pond 14 (Solid)

Matrix

Solid

Sampled Date/Time

03/03/20 00:00

Received Date/Time

03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	5.0	mg/kg	EPA 8015B	05/28/20 18:07	JES	N_HTr
Surrogate: <i>a,a,a</i> -Trifluorotoluene	97%	11-140		EPA 8015B	05/28/20 18:07	JES	N_HTr

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LACSD No. 10119



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Analytical Report: Page 25 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-10

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 14 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	15	3.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:33	KSL	
Calcium	4.9	1.0	mg/L	EPA 200.7	05/29/20 15:33	KSL	
Magnesium	ND	1.0	mg/L	EPA 200.7	05/29/20 15:33	KSL	
Sodium	2.1	1.0	mg/L	EPA 200.7	05/29/20 15:33	KSL	
Potassium	1.7	1.0	mg/L	EPA 200.7	05/29/20 15:33	KSL	
Anions							
Total Alkalinity	23	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:13	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:13	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:13	BBR	
Bicarbonate	23	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:13	BBR	
Chloride	ND	1.0	mg/L	EPA 300.0	05/29/20 02:55	KAA	
Sulfate	1.4	0.50	mg/L	EPA 300.0	05/29/20 02:55	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 02:55	KAA	
Fluoride	0.1	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	7.6	1.0	pH Units	SM 4500H+ B	05/29/20 14:13	BBR	
Specific Conductance	45	1.0	umhos/cm	SM 2510 B	05/29/20 14:13	BBR	
Solids							
Total Dissolved Solids	31	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	05/29/20 13:12	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 26 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-10

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 14 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 07:30	EGV	
Nutrients							
Total Phosphorus	0.06	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	410	100	ug/L	EPA 200.7	05/29/20 15:33	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Arsenic	6.8	5.0	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Barium	ND	20	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:33	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8 ATP	05/29/20 15:39	KRV	N_HTa
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:39	KRV	
Vanadium	22	10	ug/L	EPA 200.8	06/02/20 14:33	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:39	KRV	



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-10

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 14 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 19:23	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 19:23	NAA	N_HTr
Surrogate: o-Terphenyl	80%	49-114		EPA 8015B	05/29/20 19:23	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	05/29/20 19:23	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	05/29/20 19:27	JES	N_HTr
Surrogate: a,a,a-Trifluorotoluene	87%	64-120		EPA 8015B	05/29/20 19:27	JES	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
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Analytical Report: Page 28 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-11

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 19 (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.20	%	EPA 9060	06/02/20 11:53	DNF	N_HTa
Metals and Metalloids; EPA SW846 Series							
Aluminum	8000	10	mg/kg	EPA 6010B	06/01/20 18:03	KSL	
Antimony	ND	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Arsenic	ND	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Barium	48	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Beryllium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Cadmium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Total Chromium	9.6	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Cobalt	4.1	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Copper	8.4	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Iron	14000	20	mg/kg	EPA 6010B	06/01/20 18:03	KSL	
Lead	2.3	2.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Manganese	210	10	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Mercury	ND	0.050	mg/kg	EPA 7471A	06/02/20 13:08	KSL	N_HTa
Molybdenum	ND	5.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Nickel	5.7	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Selenium	ND	5.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Silver	ND	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Thallium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Vanadium	22	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Zinc	34	1.0	mg/kg	EPA 6020	06/01/20 17:42	MEL	
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	10	mg/kg	EPA 8015B	05/26/20 18:17	NAA	N_HTr
ORO (C29-C44)	ND	10	mg/kg	EPA 8015B	05/26/20 18:17	NAA	N_HTr
Surrogate: o-Terphenyl	63%	10-142		EPA 8015B	05/26/20 18:17	NAA	N_HTr
Surrogate: n-Triacontane	33%	10-118		EPA 8015B	05/26/20 18:17	NAA	N_HTr

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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 29 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number**C0D3709-11**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 19 (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	5.0	mg/kg	EPA 8015B	05/28/20 18:44	JES	N_HTr
Surrogate: <i>a,a,a</i> -Trifluorotoluene	84%	11-140		EPA 8015B	05/28/20 18:44	JES	N_HTr



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
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Analytical Report: Page 30 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-12

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 19 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	12	3.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:35	KSL	
Calcium	3.8	1.0	mg/L	EPA 200.7	05/29/20 15:35	KSL	
Magnesium	ND	1.0	mg/L	EPA 200.7	05/29/20 15:35	KSL	
Sodium	2.0	1.0	mg/L	EPA 200.7	05/29/20 15:35	KSL	
Potassium	1.5	1.0	mg/L	EPA 200.7	05/29/20 15:35	KSL	
Anions							
Total Alkalinity	18	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:22	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:22	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:22	BBR	
Bicarbonate	18	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:22	BBR	
Chloride	ND	1.0	mg/L	EPA 300.0	05/29/20 03:30	KAA	
Sulfate	0.68	0.50	mg/L	EPA 300.0	05/29/20 03:30	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 03:30	KAA	
Fluoride	0.1	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	7.6	1.0	pH Units	SM 4500H+ B	05/29/20 14:22	BBR	
Specific Conductance	36	1.0	umhos/cm	SM 2510 B	05/29/20 14:22	BBR	
Solids							
Total Dissolved Solids	16	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	05/29/20 13:54	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-12

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 19 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 07:30	EGV	
Nutrients							
Total Phosphorus	0.05	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	470	100	ug/L	EPA 200.7	05/29/20 15:35	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Barium	ND	20	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:35	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8 ATP	05/29/20 15:41	KRV	N_HTa
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:41	KRV	
Vanadium	18	10	ug/L	EPA 200.8	06/02/20 14:48	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:41	KRV	



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Client Name: ECORP Consulting, Inc.
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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-12

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 19 (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 19:48	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 19:48	NAA	N_HTr
Surrogate: o-Terphenyl	78%	49-114		EPA 8015B	05/29/20 19:48	NAA	N_HTr
Surrogate: n-Triacontane	39%	10-122		EPA 8015B	05/29/20 19:48	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	05/29/20 20:03	JES	N_HTr
Surrogate: a,a,a-Trifluorotoluene	92%	64-120		EPA 8015B	05/29/20 20:03	JES	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
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Analytical Report: Page 33 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-13

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Background (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.20	%	EPA 9060	06/02/20 12:01	DNF	N_HTa
Metals and Metalloids; EPA SW846 Series							
Aluminum	7100	10	mg/kg	EPA 6010B	06/01/20 18:06	KSL	
Antimony	ND	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Arsenic	ND	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Barium	44	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Beryllium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Cadmium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Total Chromium	9.2	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Cobalt	4.3	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Copper	8.2	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Iron	14000	20	mg/kg	EPA 6010B	06/01/20 18:06	KSL	
Lead	2.2	2.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Manganese	180	10	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Mercury	ND	0.050	mg/kg	EPA 7471A	06/02/20 13:15	KSL	N_HTa
Molybdenum	ND	5.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Nickel	5.6	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Selenium	ND	5.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Silver	ND	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Thallium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Vanadium	23	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Zinc	32	1.0	mg/kg	EPA 6020	06/01/20 17:44	MEL	
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	10	mg/kg	EPA 8015B	05/26/20 18:42	NAA	N_HTr
ORO (C29-C44)	ND	10	mg/kg	EPA 8015B	05/26/20 18:42	NAA	N_HTr
Surrogate: o-Terphenyl	66%	10-142		EPA 8015B	05/26/20 18:42	NAA	N_HTr
Surrogate: n-Triacontane	34%	10-118		EPA 8015B	05/26/20 18:42	NAA	N_HTr

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Client Name: ECORP Consulting, Inc.

Contact: Todd Chapman

Address: 2861 Pullman Street
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Project Name: Whitewater Project 2020

Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709

Received on Ice (Y/N):

Yes

Temp: 16 °C

Laboratory Reference Number**C0D3709-13**Sample Description

Background (Solid)

Matrix

Solid

Sampled Date/Time

03/03/20 00:00

Received Date/Time

03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	5.0	mg/kg	EPA 8015B	05/28/20 19:21	JES	N_HTr
Surrogate: <i>a,a,a</i> -Trifluorotoluene	108%	11-140		EPA 8015B	05/28/20 19:21	JES	N_HTr

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EPA No. CA00102

NELAP No. OR4035

LACSD No. 10119



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
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Analytical Report: Page 35 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-14

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Background (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	12	3.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:37	KSL	
Calcium	4.2	1.0	mg/L	EPA 200.7	05/29/20 15:37	KSL	
Magnesium	ND	1.0	mg/L	EPA 200.7	05/29/20 15:37	KSL	
Sodium	ND	1.0	mg/L	EPA 200.7	05/29/20 15:37	KSL	
Potassium	1.8	1.0	mg/L	EPA 200.7	05/29/20 15:37	KSL	
Anions							
Total Alkalinity	15	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:31	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:31	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:31	BBR	
Bicarbonate	15	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:31	BBR	
Chloride	ND	1.0	mg/L	EPA 300.0	05/29/20 03:42	KAA	
Sulfate	ND	0.50	mg/L	EPA 300.0	05/29/20 03:42	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 03:42	KAA	
Fluoride	ND	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	7.5	1.0	pH Units	SM 4500H+ B	05/29/20 14:31	BBR	
Specific Conductance	30	1.0	umhos/cm	SM 2510 B	05/29/20 14:31	BBR	
Solids							
Total Dissolved Solids	12	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.70	mg/L	SM 5310B	05/29/20 14:11	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-14

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Background (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 07:30	EGV	
Nutrients							
Total Phosphorus	0.12	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	780	100	ug/L	EPA 200.7	05/29/20 15:37	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Barium	ND	20	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:37	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8	05/29/20 15:43	KRV	N_HTa
				ATP			
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:43	KRV	
Vanadium	17	10	ug/L	EPA 200.8	06/02/20 14:50	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:43	KRV	



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 37 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-14

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Background (Leachate w/ DI)	Liquid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 20:13	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 20:13	NAA	N_HTr
Surrogate: o-Terphenyl	79%	49-114		EPA 8015B	05/29/20 20:13	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	05/29/20 20:13	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	05/29/20 20:42	JES	N_HTr
Surrogate: a,a,a-Trifluorotoluene	86%	64-120		EPA 8015B	05/29/20 20:42	JES	N_HTr



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Client Name: ECORP Consulting, Inc.
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 Address: 2861 Pullman Street
 Santa Ana, CA 92705

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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number

C0D3709-17

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Sediment Placement (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Aggregate Organic Compounds							
Total Organic Carbon	ND	0.19	%	EPA 9060	06/02/20 12:25	DNF	N_HTa
Metals and Metalloids; EPA SW846 Series							
Aluminum	6400	10	mg/kg	EPA 6010B	06/01/20 18:08	KSL	
Antimony	ND	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Arsenic	ND	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Barium	44	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Beryllium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Cadmium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Total Chromium	8.3	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Cobalt	3.7	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Copper	6.7	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Iron	11000	20	mg/kg	EPA 6010B	06/01/20 18:08	KSL	
Lead	ND	2.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Manganese	180	10	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Mercury	ND	0.050	mg/kg	EPA 7471A	06/02/20 13:18	KSL	N_HTa
Molybdenum	ND	5.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Nickel	5.2	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Selenium	ND	5.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Silver	ND	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Thallium	ND	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Vanadium	20	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Zinc	34	1.0	mg/kg	EPA 6020	06/01/20 17:46	MEL	
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	10	mg/kg	EPA 8015B	05/26/20 19:07	NAA	N_HTr
ORO (C29-C44)	ND	10	mg/kg	EPA 8015B	05/26/20 19:07	NAA	N_HTr
Surrogate: o-Terphenyl	69%	10-142		EPA 8015B	05/26/20 19:07	NAA	N_HTr
Surrogate: n-Triacontane	36%	10-118		EPA 8015B	05/26/20 19:07	NAA	N_HTr

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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Laboratory Reference Number**C0D3709-17**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Sediment Placement (Solid)	Solid	03/03/20 00:00	03/04/20 17:15

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	5.0	mg/kg	EPA 8015B	05/28/20 19:57	JES	N_HTr
Surrogate: <i>a,a,a</i> -Trifluorotoluene	103%	11-140		EPA 8015B	05/28/20 19:57	JES	N_HTr



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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Cations - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29050 - EPA 200.2										
Blank (0E29050-BLK1)				Prepared & Analyzed: 05/29/20						
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
Potassium	ND	1.0	mg/L							
Blank (0E29050-BLK2)				Prepared & Analyzed: 05/29/20						
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
Potassium	ND	1.0	mg/L							
LCS (0E29050-BS1)				Prepared & Analyzed: 05/29/20						
Calcium	17.5	1.0	mg/L	17.0		103	85-115			
Magnesium	17.0	1.0	mg/L	17.0		100	85-115			
Sodium	33.3	1.0	mg/L	33.7		99	85-115			
Potassium	16.9	1.0	mg/L	17.0		99	85-115			
Matrix Spike (0E29050-MS1)		Source: C0D3709-06		Prepared & Analyzed: 05/29/20						
Calcium	23.8	1.0	mg/L	17.0	5.49	108	70-130			
Magnesium	18.1	1.0	mg/L	17.0	0.878	101	70-130			
Sodium	36.4	1.0	mg/L	33.7	2.56	100	70-130			
Potassium	18.9	1.0	mg/L	17.0	1.61	102	70-130			
Matrix Spike Dup (0E29050-MSD1)		Source: C0D3709-06		Prepared & Analyzed: 05/29/20						
Calcium	23.0	1.0	mg/L	17.0	5.49	103	70-130	3	20	
Magnesium	17.6	1.0	mg/L	17.0	0.878	98	70-130	3	20	
Sodium	35.4	1.0	mg/L	33.7	2.56	97	70-130	3	20	
Potassium	18.3	1.0	mg/L	17.0	1.61	98	70-130	3	20	



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E28116 - Analyzed as Received IC										
Blank (0E28116-BLK1)				Prepared & Analyzed: 05/29/20						
Sulfate	ND	0.50	mg/L							
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
LCS (0E28116-BS1)				Prepared & Analyzed: 05/29/20						
Sulfate	25.3	0.50	mg/L	25.0		101	90-110			
Chloride	25.8	1.0	mg/L	25.0		103	90-110			
Nitrate as N	5.20	0.20	mg/L	5.65		92	90-110			
Matrix Spike (0E28116-MS1)				Source: C0E3239-15		Prepared & Analyzed: 05/29/20				
Sulfate	44.8	0.50	mg/L	25.0	18.1	107	75-128			
Chloride	47.4	1.0	mg/L	25.0	21.0	106	84-129			
Nitrate as N	5.18	0.20	mg/L	5.65	ND	92	75-131			
Matrix Spike (0E28116-MS2)				Source: C0E3180-01		Prepared & Analyzed: 05/29/20				
Sulfate	293	0.50	mg/L	25.0	269	97	75-128			QOcal
Chloride	128	1.0	mg/L	25.0	102	102	84-129			
Nitrate as N	8.27	0.20	mg/L	5.65	2.48	102	75-131			
Matrix Spike Dup (0E28116-MSD1)				Source: C0E3239-15		Prepared & Analyzed: 05/29/20				
Sulfate	44.9	0.50	mg/L	25.0	18.1	107	75-128	0.3	20	
Chloride	47.5	1.0	mg/L	25.0	21.0	106	84-129	0.3	20	
Nitrate as N	5.18	0.20	mg/L	5.65	ND	92	75-131	0.1	20	
Batch 0E28127 - Analyzed as Received IC										
Blank (0E28127-BLK1)				Prepared & Analyzed: 05/29/20						
Sulfate	ND	0.50	mg/L							
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							



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 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E28127 - Analyzed as Received IC										
LCS (0E28127-BS1)				Prepared & Analyzed: 05/29/20						
Sulfate	25.3	0.50	mg/L	25.0		101	90-110			
Chloride	26.4	1.0	mg/L	25.0		105	90-110			
Nitrate as N	5.71	0.20	mg/L	5.65		101	90-110			
Matrix Spike (0E28127-MS1)				Source: C0D3709-14		Prepared & Analyzed: 05/29/20				
Sulfate	24.8	0.50	mg/L	25.0	ND	99	75-128			
Chloride	25.4	1.0	mg/L	25.0	ND	101	84-129			
Nitrate as N	5.53	0.20	mg/L	5.65	ND	98	75-131			
Matrix Spike (0E28127-MS2)				Source: C0E1012-07		Prepared & Analyzed: 05/29/20				
Sulfate	236	0.50	mg/L	25.0	212	97	75-128			
Chloride	115	1.0	mg/L	25.0	89.1	102	84-129			
Nitrate as N	5.94	0.20	mg/L	5.65	0.206	101	75-131			
Matrix Spike Dup (0E28127-MSD1)				Source: C0D3709-14		Prepared & Analyzed: 05/29/20				
Sulfate	24.7	0.50	mg/L	25.0	ND	99	75-128	0.2	20	
Chloride	25.3	1.0	mg/L	25.0	ND	101	84-129	0.2	20	
Nitrate as N	5.54	0.20	mg/L	5.65	ND	98	75-131	0.09	20	
Batch 0E29016 - Analyzed as received										
Blank (0E29016-BLK1)				Prepared & Analyzed: 05/29/20						
Total Alkalinity	ND	5.0	mg/L as CaCO3							
Hydroxide	ND	5.0	mg/L as CaCO3							
Carbonate	ND	5.0	mg/L as CaCO3							
Bicarbonate	ND	5.0	mg/L as CaCO3							



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Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29016 - Analyzed as received										
LCS (0E29016-BS3)				Prepared & Analyzed: 05/29/20						
Total Alkalinity	1280	5.0	mg/L as CaCO ₃	1250		102	90-110			
Carbonate	1250	5.0	mg/L as CaCO ₃	1250		100	90-110			
Duplicate (0E29016-DUP1)				Source: C0E1012-03		Prepared & Analyzed: 05/29/20				
Total Alkalinity	137	5.0	mg/L as CaCO ₃		139			1	20	
Hydroxide	ND	5.0	mg/L as CaCO ₃		ND				20	
Carbonate	ND	5.0	mg/L as CaCO ₃		ND				20	
Bicarbonate	135	5.0	mg/L as CaCO ₃		139			3	20	
Duplicate (0E29016-DUP2)				Source: C0E1012-04		Prepared & Analyzed: 05/29/20				
Total Alkalinity	136	5.0	mg/L as CaCO ₃		137			0.4	20	
Hydroxide	ND	5.0	mg/L as CaCO ₃		ND				20	
Carbonate	ND	5.0	mg/L as CaCO ₃		ND				20	
Bicarbonate	136	5.0	mg/L as CaCO ₃		137			0.4	20	
Batch 0F01102 - Analyzed as received										
Blank (0F01102-BLK1)				Prepared & Analyzed: 06/01/20						
Fluoride	ND	0.1	mg/L							
LCS (0F01102-BS1)				Prepared & Analyzed: 06/01/20						
Fluoride	0.788	0.1	mg/L	0.800		98	90-110			
LCS (0F01102-BS2)				Prepared & Analyzed: 06/01/20						
Fluoride	0.763	0.1	mg/L	0.800		95	90-110			
LCS (0F01102-BS3)				Prepared & Analyzed: 06/01/20						
Fluoride	0.754	0.1	mg/L	0.800		94	90-110			



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Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01102 - Analyzed as received										
LCS (0F01102-BS4)				Prepared & Analyzed: 06/01/20						
Fluoride	0.763	0.1	mg/L	0.800		95	90-110			
Matrix Spike (0F01102-MS1)				Source: C0E3251-01 Prepared & Analyzed: 06/01/20						
Fluoride	0.485	0.1	mg/L	0.400	0.104	95	75-125			
Matrix Spike Dup (0F01102-MSD1)				Source: C0E3251-01 Prepared & Analyzed: 06/01/20						
Fluoride	0.489	0.1	mg/L	0.400	0.104	96	75-125	0.8	20	



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Project Name: Whitewater Project 2020
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Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Aggregate Properties - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29016 - Analyzed as received										
LCS (0E29016-BS1)				Prepared & Analyzed: 05/29/20						
pH	7.0	1.0	pH Units	7.00		100	97.5-102.5			
LCS (0E29016-BS2)				Prepared & Analyzed: 05/29/20						
Specific Conductance	992	1.0	umhos/cm	1000		99	90-110			
Duplicate (0E29016-DUP1)				Source: C0E1012-03		Prepared & Analyzed: 05/29/20				
pH	8.3	1.0	pH Units		8.2			1	5	
Specific Conductance	945	1.0	umhos/cm		932			1	20	
Duplicate (0E29016-DUP2)				Source: C0E1012-04		Prepared & Analyzed: 05/29/20				
pH	8.3	1.0	pH Units		8.2			0.7	5	
Specific Conductance	917	1.0	umhos/cm		928			1	20	



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Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Solids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E28118 - Analyzed as received										
Blank (0E28118-BLK1)				Prepared & Analyzed: 05/28/20						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (0E28118-DUP1)				Source: C0E3030-04 Prepared & Analyzed: 05/28/20						
Total Dissolved Solids	371	10	mg/L		386			4	20	
Duplicate (0E28118-DUP2)				Source: C0E3030-05 Prepared & Analyzed: 05/28/20						
Total Dissolved Solids	405	10	mg/L		408			0.7	20	
Batch 0F01104 - Analyzed as received										
Blank (0F01104-BLK1)				Prepared & Analyzed: 06/01/20						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (0F01104-DUP1)				Source: C0E3044-01 Prepared & Analyzed: 06/01/20						
Total Dissolved Solids	1400	20	mg/L		1400			0	20	
Duplicate (0F01104-DUP2)				Source: C0E3405-01 Prepared & Analyzed: 06/01/20						
Total Dissolved Solids	323	10	mg/L		331			2	20	



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Report Date: 08-Jun-2020

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 Received on Ice (Y/N): Yes Temp: 16 °C

Aggregate Organic Compounds - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E11115 - As recieved										
Blank (0E11115-BLK1)				Prepared & Analyzed: 05/14/20						
Total Organic Carbon	ND	0.20	%							
LCS (0E11115-BS1)				Prepared & Analyzed: 05/14/20						
Total Organic Carbon	1.62	0.20	%	1.59		102	70-130			
Matrix Spike (0E11115-MS1)				Source: C0D3709-01 Prepared & Analyzed: 05/14/20						
Total Organic Carbon	1.26	0.19	%	1.50	ND	84	41-139			
Matrix Spike Dup (0E11115-MSD1)				Source: C0D3709-01 Prepared & Analyzed: 05/14/20						
Total Organic Carbon	1.23	0.19	%	1.50	ND	82	41-139	3	25	
Batch 0E29036 - As recieved										
Blank (0E29036-BLK1)				Prepared & Analyzed: 05/29/20						
Total Organic Carbon	ND	0.70	mg/L							
Blank (0E29036-BLK2)				Prepared & Analyzed: 05/29/20						
Total Organic Carbon	ND	0.70	mg/L							
LCS (0E29036-BS1)				Prepared & Analyzed: 05/29/20						
Total Organic Carbon	3.92	0.70	mg/L	4.00		98	90-110			
Duplicate (0E29036-DUP1)				Source: C0E1012-06 Prepared & Analyzed: 05/29/20						
Total Organic Carbon	2.32	0.70	mg/L		2.29			1	20	
Matrix Spike (0E29036-MS1)				Source: C0E1012-07 Prepared & Analyzed: 05/29/20						
Total Organic Carbon	6.52	0.70	mg/L	4.00	2.42	103	80-120			



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Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Aggregate Organic Compounds - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29036 - As recieved										
Matrix Spike Dup (0E29036-MSD1)		Source: C0E1012-07		Prepared & Analyzed: 05/29/20						
Total Organic Carbon	6.55	0.70	mg/L	4.00	2.42	103	80-120	0.4	10	
Batch 0E29057 - As recieved										
Blank (0E29057-BLK1)		Prepared & Analyzed: 06/02/20								
Total Organic Carbon	ND	0.20	%							
LCS (0E29057-BS1)		Prepared & Analyzed: 06/02/20								
Total Organic Carbon	1.52	0.20	%	1.59		96	70-130			
Matrix Spike (0E29057-MS1)		Source: C0D3709-03		Prepared & Analyzed: 06/02/20						
Total Organic Carbon	1.57	0.19	%	1.47	ND	106	41-139			
Matrix Spike Dup (0E29057-MSD1)		Source: C0D3709-03		Prepared & Analyzed: 06/02/20						
Total Organic Carbon	1.02	0.19	%	1.47	ND	69	41-139	42	25	QMS(D)



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Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Surfactants - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E27133 - Solvent Extraction.										
Blank (0E27133-BLK1)				Prepared & Analyzed: 05/27/20						
MBAS	ND	0.08	mg/L							
LCS (0E27133-BS1)				Prepared & Analyzed: 05/27/20						
MBAS	0.249	0.08	mg/L	0.400		62	26-137			
Matrix Spike (0E27133-MS1)				Source: C0E3058-01		Prepared & Analyzed: 05/27/20				
MBAS	0.359	0.20	mg/L	0.500	ND	72	19-140			
Matrix Spike Dup (0E27133-MSD1)				Source: C0E3058-01		Prepared & Analyzed: 05/27/20				
MBAS	0.303	0.20	mg/L	0.500	ND	61	19-140	17	30	
Batch 0E29012 - Solvent Extraction.										
Blank (0E29012-BLK1)				Prepared & Analyzed: 05/29/20						
MBAS	ND	0.08	mg/L							
LCS (0E29012-BS1)				Prepared & Analyzed: 05/29/20						
MBAS	0.180	0.08	mg/L	0.400		45	26-137			
Matrix Spike (0E29012-MS1)				Source: C0D3709-14		Prepared & Analyzed: 05/29/20				
MBAS	0.270	0.20	mg/L	0.500	ND	54	19-140			
Matrix Spike Dup (0E29012-MSD1)				Source: C0D3709-14		Prepared & Analyzed: 05/29/20				
MBAS	0.219	0.20	mg/L	0.500	ND	44	19-140	21	30	



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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Nutrients - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29025 - Acid Digest										
LCS (0E29025-BS1)				Prepared & Analyzed: 05/29/20						
Total Phosphorus	0.536	0.05	mg/L	0.500		107	85-115			
Matrix Spike (0E29025-MS1)				Source: C0E2358-04 Prepared & Analyzed: 05/29/20						
Total Phosphorus	0.571	0.05	mg/L	0.500	0.0546	103	80-120			
Matrix Spike Dup (0E29025-MSD1)				Source: C0E2358-04 Prepared & Analyzed: 05/29/20						
Total Phosphorus	0.565	0.05	mg/L	0.500	0.0546	102	80-120	1	20	



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Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29031 - EPA 200.2										
Blank (0E29031-BLK1)				Prepared & Analyzed: 05/29/20						
Antimony	ND	10	ug/L							
Arsenic	ND	5.0	ug/L							
Barium	ND	20	ug/L							
Beryllium	ND	10	ug/L							
Cadmium	ND	2.0	ug/L							
Total Chromium	ND	20	ug/L							
Cobalt	ND	10	ug/L							
Copper	ND	10	ug/L							
Lead	ND	10	ug/L							
Manganese	ND	10	ug/L							
Mercury	ND	0.20	ug/L							
Molybdenum	ND	10	ug/L							
Nickel	ND	20	ug/L							
Selenium	ND	5.0	ug/L							
Silver	ND	10	ug/L							
Thallium	ND	200	ug/L							
Zinc	ND	10	ug/L							
Blank (0E29031-BLK2)				Prepared & Analyzed: 05/29/20						
Antimony	ND	10	ug/L							
Arsenic	ND	5.0	ug/L							
Barium	ND	20	ug/L							
Beryllium	ND	10	ug/L							
Cadmium	ND	2.0	ug/L							
Total Chromium	ND	20	ug/L							
Cobalt	ND	10	ug/L							
Copper	ND	10	ug/L							
Lead	ND	10	ug/L							
Manganese	ND	10	ug/L							
Mercury	ND	0.20	ug/L							
Molybdenum	ND	10	ug/L							
Nickel	ND	20	ug/L							
Selenium	ND	5.0	ug/L							
Silver	ND	10	ug/L							
Thallium	ND	200	ug/L							

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Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29031 - EPA 200.2										
Blank (0E29031-BLK2)				Prepared & Analyzed: 05/29/20						
Zinc	ND	10	ug/L							
LCS (0E29031-BS1)				Prepared & Analyzed: 05/29/20						
Antimony	344	10	ug/L	332		103	85-115			
Arsenic	340	5.0	ug/L	332		102	85-115			
Barium	340	20	ug/L	332		102	85-115			
Beryllium	330	10	ug/L	332		99	85-115			
Cadmium	336	2.0	ug/L	332		101	85-115			
Total Chromium	343	20	ug/L	332		103	85-115			
Cobalt	337	10	ug/L	332		101	85-115			
Copper	336	10	ug/L	332		101	85-115			
Lead	334	10	ug/L	332		100	85-115			
Manganese	340	10	ug/L	332		102	85-115			
Mercury	2.98	0.20	ug/L	2.79		107	85-115			
Molybdenum	389	10	ug/L	332		117	85-115			QLout
Nickel	333	20	ug/L	332		100	85-115			
Selenium	328	5.0	ug/L	332		99	85-115			
Silver	49.1	10	ug/L	50.1		98	85-115			
Thallium	336	200	ug/L	332		101	85-115			
Zinc	339	10	ug/L	332		102	85-115			
Matrix Spike (0E29031-MS1)				Source: C0D3709-06		Prepared & Analyzed: 05/29/20				
Antimony	339	20	ug/L	332	ND	102	70-130			
Arsenic	354	10	ug/L	332	4.97	105	70-130			
Barium	349	40	ug/L	332	4.26	104	70-130			
Beryllium	352	20	ug/L	332	ND	106	70-130			
Cadmium	343	4.0	ug/L	332	ND	103	70-130			
Total Chromium	363	40	ug/L	332	0.983	109	70-130			
Cobalt	358	20	ug/L	332	ND	108	70-130			
Copper	336	20	ug/L	332	ND	101	70-130			
Lead	338	20	ug/L	332	ND	102	70-130			
Manganese	356	20	ug/L	332	ND	107	70-130			
Mercury	2.96	0.40	ug/L	2.79	ND	106	70-130			
Molybdenum	355	20	ug/L	332	ND	107	70-130			
Nickel	348	40	ug/L	332	ND	105	70-130			
Selenium	340	10	ug/L	332	ND	102	70-130			

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 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29031 - EPA 200.2										
Matrix Spike (0E29031-MS1)		Source: C0D3709-06		Prepared & Analyzed: 05/29/20						
Silver	51.5	20	ug/L	50.1	ND	103	70-130			
Thallium	344	400	ug/L	332	ND	104	70-130			
Zinc	351	20	ug/L	332	ND	106	70-130			
Matrix Spike Dup (0E29031-MSD1)		Source: C0D3709-06		Prepared & Analyzed: 05/29/20						
Antimony	337	20	ug/L	332	ND	101	70-130	0.5	20	
Arsenic	347	10	ug/L	332	4.97	103	70-130	2	20	
Barium	341	40	ug/L	332	4.26	101	70-130	2	20	
Beryllium	338	20	ug/L	332	ND	102	70-130	4	20	
Cadmium	344	4.0	ug/L	332	ND	103	70-130	0.05	20	
Total Chromium	354	40	ug/L	332	0.983	106	70-130	2	20	
Cobalt	354	20	ug/L	332	ND	107	70-130	1	20	
Copper	339	20	ug/L	332	ND	102	70-130	0.9	20	
Lead	328	20	ug/L	332	ND	99	70-130	3	20	
Manganese	345	20	ug/L	332	ND	104	70-130	3	20	
Mercury	2.83	0.40	ug/L	2.79	ND	101	70-130	4	20	
Molybdenum	355	20	ug/L	332	ND	107	70-130	0.1	20	
Nickel	346	40	ug/L	332	ND	104	70-130	0.7	20	
Selenium	331	10	ug/L	332	ND	100	70-130	3	20	
Silver	50.9	20	ug/L	50.1	ND	102	70-130	1	20	
Thallium	344	400	ug/L	332	ND	103	70-130	0.01	20	
Zinc	345	20	ug/L	332	ND	104	70-130	2	20	
Batch 0E29050 - EPA 200.2										
Blank (0E29050-BLK1)		Prepared & Analyzed: 05/29/20								
Aluminum	ND	100	ug/L							
Iron	ND	50	ug/L							



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 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29050 - EPA 200.2										
Blank (0E29050-BLK2)				Prepared & Analyzed: 05/29/20						
Aluminum	ND	100	ug/L							
Iron	ND	50	ug/L							
LCS (0E29050-BS1)				Prepared & Analyzed: 05/29/20						
Aluminum	1140	100	ug/L	1170		97	85-115			
Iron	1240	50	ug/L	1170		106	85-115			
Matrix Spike (0E29050-MS1)				Source: C0D3709-06		Prepared & Analyzed: 05/29/20				
Aluminum	1400	100	ug/L	1170	245	99	70-130			
Iron	1290	50	ug/L	1170	5.88	110	70-130			
Matrix Spike Dup (0E29050-MSD1)				Source: C0D3709-06		Prepared & Analyzed: 05/29/20				
Aluminum	1370	100	ug/L	1170	245	96	70-130	2	20	
Iron	1250	50	ug/L	1170	5.88	107	70-130	3	20	
Batch 0F01103 - EPA 200.2										
Blank (0F01103-BLK1)				Prepared: 06/01/20 Analyzed: 06/02/20						
Vanadium	ND	10	ug/L							
Blank (0F01103-BLK2)				Prepared: 06/01/20 Analyzed: 06/02/20						
Vanadium	ND	10	ug/L							
LCS (0F01103-BS1)				Prepared: 06/01/20 Analyzed: 06/02/20						
Vanadium	350	10	ug/L	332		105	85-115			
Matrix Spike (0F01103-MS1)				Source: C0E2737-01		Prepared: 06/01/20 Analyzed: 06/02/20				
Vanadium	417	20	ug/L	332	61.1	107	70-130			



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Project Number: Whitewater River

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Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01103 - EPA 200.2										
Matrix Spike Dup (0F01103-MSD1)		Source: C0E2737-01			Prepared: 06/01/20		Analyzed: 06/02/20			
Vanadium	405	20	ug/L	332	61.1	103	70-130	3	20	



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E07140 - EPA 3050B										
Blank (0E07140-BLK1)				Prepared: 05/11/20 Analyzed: 05/12/20						
Antimony	ND	1.0	mg/kg							
Arsenic	ND	1.0	mg/kg							
Beryllium	ND	1.0	mg/kg							
Cadmium	ND	1.0	mg/kg							
Total Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	1.0	mg/kg							
Lead	ND	2.0	mg/kg							
Molybdenum	ND	5.0	mg/kg							
Nickel	ND	1.0	mg/kg							
Selenium	ND	5.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	1.0	mg/kg							
LCS (0E07140-BS1)				Prepared: 05/11/20 Analyzed: 05/12/20						
Antimony	199	1.0	mg/kg	200		100	79-132			
Arsenic	198	1.0	mg/kg	200		99	80-120			
Beryllium	197	1.0	mg/kg	200		98	79-124			
Cadmium	198	1.0	mg/kg	200		99	80-122			
Total Chromium	196	1.0	mg/kg	200		98	81-118			
Cobalt	195	1.0	mg/kg	200		97	80-124			
Copper	193	1.0	mg/kg	200		96	80-117			
Lead	202	2.0	mg/kg	200		101	82-124			
Molybdenum	219	5.0	mg/kg	200		110	82-130			
Nickel	190	1.0	mg/kg	200		95	81-117			
Selenium	197	5.0	mg/kg	200		98	74-122			
Silver	9.49	1.0	mg/kg	10.0		95	20-164			
Thallium	192	1.0	mg/kg	200		96	75-118			



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 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E07140 - EPA 3050B										
Duplicate (0E07140-DUP1)		Source: C0D3709-01		Prepared: 05/11/20		Analyzed: 05/12/20				
Antimony	ND	1.0	mg/kg		ND				20	
Arsenic	0.752	1.0	mg/kg		0.782			4	20	
Beryllium	0.181	1.0	mg/kg		0.204			12	20	
Cadmium	ND	1.0	mg/kg		ND				20	
Total Chromium	9.37	1.0	mg/kg		9.49			1	20	
Cobalt	3.69	1.0	mg/kg		3.80			3	20	
Copper	5.79	1.0	mg/kg		5.94			3	20	
Lead	1.93	2.0	mg/kg		1.97			2	20	
Molybdenum	ND	5.0	mg/kg		ND				20	
Nickel	5.34	1.0	mg/kg		5.46			2	20	
Selenium	ND	5.0	mg/kg		ND				20	
Silver	ND	1.0	mg/kg		ND				20	
Thallium	ND	1.0	mg/kg		0.180				20	
Duplicate (0E07140-DUP2)		Source: C0D3709-01		Prepared: 05/11/20		Analyzed: 05/12/20				
Antimony	ND	5.0	mg/kg		ND				20	
Arsenic	ND	5.0	mg/kg		ND				20	
Beryllium	ND	5.0	mg/kg		ND				20	
Cadmium	ND	5.0	mg/kg		ND				20	
Total Chromium	13.1	5.0	mg/kg		9.49			32	20	QRPDI
Cobalt	5.52	5.0	mg/kg		3.80			37	20	QRPDI
Copper	9.77	5.0	mg/kg		5.94			49	20	QRPDI
Lead	ND	10	mg/kg		ND				20	
Molybdenum	ND	25	mg/kg		ND				20	
Nickel	7.98	5.0	mg/kg		5.46			38	20	QRPDI
Selenium	ND	25	mg/kg		ND				20	
Silver	ND	5.0	mg/kg		ND				20	
Thallium	ND	5.0	mg/kg		ND				20	



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Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E07140 - EPA 3050B										
Matrix Spike (0E07140-MS1)		Source: C0D3709-01		Prepared: 05/11/20		Analyzed: 05/12/20				
Antimony	127	1.0	mg/kg	200	ND	64	10-156			
Arsenic	200	1.0	mg/kg	200	0.782	99	73-122			
Beryllium	177	1.0	mg/kg	200	0.204	88	68-128			
Cadmium	201	1.0	mg/kg	200	ND	100	72-121			
Total Chromium	204	1.0	mg/kg	200	9.49	97	60-129			
Cobalt	195	1.0	mg/kg	200	3.80	96	64-128			
Copper	188	1.0	mg/kg	200	5.94	91	36-141			
Lead	184	2.0	mg/kg	200	1.97	91	60-126			
Molybdenum	213	5.0	mg/kg	200	ND	107	60-140			
Nickel	196	1.0	mg/kg	200	5.46	95	60-135			
Selenium	197	5.0	mg/kg	200	ND	99	65-123			
Silver	9.50	1.0	mg/kg	10.0	ND	95	10-155			
Thallium	180	1.0	mg/kg	200	0.180	90	57-122			
Matrix Spike Dup (0E07140-MSD1)		Source: C0D3709-01		Prepared: 05/11/20		Analyzed: 05/12/20				
Antimony	122	1.0	mg/kg	200	ND	61	10-156	4	20	
Arsenic	197	1.0	mg/kg	200	0.782	98	73-122	2	20	
Beryllium	173	1.0	mg/kg	200	0.204	86	68-128	2	20	
Cadmium	199	1.0	mg/kg	200	ND	100	72-121	0.9	20	
Total Chromium	200	1.0	mg/kg	200	9.49	95	60-129	2	20	
Cobalt	192	1.0	mg/kg	200	3.80	94	64-128	2	20	
Copper	184	1.0	mg/kg	200	5.94	89	36-141	2	20	
Lead	182	2.0	mg/kg	200	1.97	90	60-126	1	20	
Molybdenum	211	5.0	mg/kg	200	ND	105	60-140	1	20	
Nickel	192	1.0	mg/kg	200	5.46	93	60-135	2	20	
Selenium	194	5.0	mg/kg	200	ND	97	65-123	2	20	
Silver	9.42	1.0	mg/kg	10.0	ND	94	10-155	0.8	20	
Thallium	177	1.0	mg/kg	200	0.180	88	57-122	2	20	



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Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E07144 - EPA 3050B										
Blank (0E07144-BLK1)				Prepared: 05/11/20 Analyzed: 05/12/20						
Aluminum	ND	10	mg/kg							
Iron	ND	20	mg/kg							
LCS (0E07144-BS1)				Prepared: 05/11/20 Analyzed: 05/12/20						
Aluminum	2540	10	mg/kg	2200		115	72-120			
Iron	2270	20	mg/kg	2200		103	80-120			
Matrix Spike (0E07144-MS1)				Source: C0D3709-01		Prepared: 05/11/20 Analyzed: 05/12/20				
Aluminum	24100	10	mg/kg	2200	8680	NR	61-121			QM-4X
Iron	19000	20	mg/kg	2200	15500	162	36-178			
Matrix Spike Dup (0E07144-MSD1)				Source: C0D3709-01		Prepared: 05/11/20 Analyzed: 05/12/20				
Aluminum	23000	10	mg/kg	2200	8680	NR	61-121	5	25	QM-4X
Iron	19000	20	mg/kg	2200	15500	160	36-178	0.2	25	
Batch 0E08057 - EPA 7471A										
Blank (0E08057-BLK1)				Prepared & Analyzed: 05/12/20						
Mercury	ND	0.050	mg/kg							
LCS (0E08057-BS1)				Prepared & Analyzed: 05/12/20						
Mercury	0.206	0.050	mg/kg	0.200		103	77-115			
Matrix Spike (0E08057-MS1)				Source: C0E1067-02		Prepared & Analyzed: 05/12/20				
Mercury	0.210	0.050	mg/kg	0.200	ND	105	22-150			
Matrix Spike Dup (0E08057-MSD1)				Source: C0E1067-02		Prepared & Analyzed: 05/12/20				
Mercury	0.212	0.050	mg/kg	0.200	ND	106	22-150	0.8	25	



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 60 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E14074 - EPA 3050B										
Blank (0E14074-BLK1)				Prepared & Analyzed: 05/14/20						
Barium	ND	1.0	mg/kg							
Manganese	ND	10	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	1.0	mg/kg							
LCS (0E14074-BS1)				Prepared & Analyzed: 05/14/20						
Barium	203	1.0	mg/kg	200		101	80-120			
Manganese	196	10	mg/kg	200		98	84-122			
Vanadium	188	1.0	mg/kg	200		94	82-122			
Zinc	204	1.0	mg/kg	200		102	75-124			
Duplicate (0E14074-DUP1)				Source: C0D3709-01RE1 Prepared & Analyzed: 05/14/20						
Barium	39.1	1.0	mg/kg		44.6			13	20	
Manganese	188	10	mg/kg		181			4	20	
Vanadium	18.9	1.0	mg/kg		16.8			12	20	
Zinc	42.6	1.0	mg/kg		30.1			34	20	QRPD0
Duplicate (0E14074-DUP2)				Source: C0D3709-01RE1 Prepared & Analyzed: 05/14/20						
Barium	46.8	5.0	mg/kg		44.6			5	20	
Manganese	178	50	mg/kg		181			1	20	
Vanadium	17.1	5.0	mg/kg		16.8			2	20	
Zinc	30.4	5.0	mg/kg		30.1			0.7	20	
Matrix Spike (0E14074-MS1)				Source: C0E1282-01 Prepared & Analyzed: 05/14/20						
Barium	202	1.0	mg/kg	200	8.87	97	61-132			
Manganese	1350	10	mg/kg	200	615	NR	63-135			QFnt, QOcal
Vanadium	198	1.0	mg/kg	200	7.10	96	66-136			
Zinc	287	1.0	mg/kg	200	30.8	128	26-166			



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E14074 - EPA 3050B										
Matrix Spike Dup (0E14074-MSD1)		Source: C0E1282-01		Prepared & Analyzed: 05/14/20						
Barium	192	1.0	mg/kg	200	8.87	92	61-132	5	20	QFnt, QOcal
Manganese	1190	10	mg/kg	200	615	NR	63-135	13	20	
Vanadium	199	1.0	mg/kg	200	7.10	96	66-136	0.4	20	
Zinc	341	1.0	mg/kg	200	30.8	155	26-166	17	20	
Batch 0E29048 - EPA 3050B										
Blank (0E29048-BLK1)				Prepared & Analyzed: 06/01/20						
Antimony	ND	1.0	mg/kg							
Arsenic	ND	1.0	mg/kg							
Barium	ND	1.0	mg/kg							
Beryllium	ND	1.0	mg/kg							
Cadmium	ND	1.0	mg/kg							
Total Chromium	ND	1.0	mg/kg							
Cobalt	ND	1.0	mg/kg							
Copper	ND	1.0	mg/kg							
Lead	ND	2.0	mg/kg							
Manganese	ND	10	mg/kg							
Molybdenum	ND	5.0	mg/kg							
Nickel	ND	1.0	mg/kg							
Selenium	ND	5.0	mg/kg							
Silver	ND	1.0	mg/kg							
Thallium	ND	1.0	mg/kg							
Vanadium	ND	1.0	mg/kg							
Zinc	ND	1.0	mg/kg							
LCS (0E29048-BS1)				Prepared & Analyzed: 06/01/20						
Antimony	223	1.0	mg/kg	200		111	79-132			
Arsenic	221	1.0	mg/kg	200		111	80-120			
Barium	223	1.0	mg/kg	200		112	80-120			
Beryllium	220	1.0	mg/kg	200		110	79-124			
Cadmium	223	1.0	mg/kg	200		111	80-122			
Total Chromium	219	1.0	mg/kg	200		109	81-118			
Cobalt	220	1.0	mg/kg	200		110	80-124			
Copper	220	1.0	mg/kg	200		110	80-117			
Lead	221	2.0	mg/kg	200		111	82-124			
Manganese	219	10	mg/kg	200		109	84-122			

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 NELAP No. OR4035
 LACSD No. 10119



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 62 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29048 - EPA 3050B										
LCS (0E29048-BS1)				Prepared & Analyzed: 06/01/20						
Molybdenum	245	5.0	mg/kg	200		122	82-130			
Nickel	215	1.0	mg/kg	200		107	81-117			
Selenium	213	5.0	mg/kg	200		106	74-122			
Silver	10.9	1.0	mg/kg	10.0		109	20-164			
Thallium	212	1.0	mg/kg	200		106	75-118			
Vanadium	221	1.0	mg/kg	200		111	82-122			
Zinc	220	1.0	mg/kg	200		110	75-124			
Duplicate (0E29048-DUP1)				Source: C0D3709-17		Prepared & Analyzed: 06/01/20				
Antimony	ND	1.0	mg/kg		ND				20	
Arsenic	0.459	1.0	mg/kg		0.442			4	20	
Barium	41.1	1.0	mg/kg		44.5			8	20	
Beryllium	0.189	1.0	mg/kg		0.208			10	20	
Cadmium	ND	1.0	mg/kg		ND				20	
Total Chromium	13.1	1.0	mg/kg		8.31			45	20	QRPDI
Cobalt	3.77	1.0	mg/kg		3.73			1	20	
Copper	8.40	1.0	mg/kg		6.70			22	20	QRPDI
Lead	2.14	2.0	mg/kg		1.84			15	20	
Manganese	186	10	mg/kg		180			4	20	
Molybdenum	ND	5.0	mg/kg		ND				20	
Nickel	5.40	1.0	mg/kg		5.19			4	20	
Selenium	ND	5.0	mg/kg		ND				20	
Silver	ND	1.0	mg/kg		ND				20	
Thallium	ND	1.0	mg/kg		ND				20	
Vanadium	19.7	1.0	mg/kg		20.1			2	20	
Zinc	30.6	1.0	mg/kg		34.1			11	20	
Duplicate (0E29048-DUP2)				Source: C0D3709-17		Prepared & Analyzed: 06/01/20				
Antimony	ND	5.0	mg/kg		ND				20	
Arsenic	ND	5.0	mg/kg		ND				20	
Barium	40.3	5.0	mg/kg		44.5			10	20	
Beryllium	ND	5.0	mg/kg		ND				20	
Cadmium	ND	5.0	mg/kg		ND				20	
Total Chromium	6.63	5.0	mg/kg		8.31			23	20	QRPDI
Cobalt	3.47	5.0	mg/kg		3.73			7	20	
Copper	6.24	5.0	mg/kg		6.70			7	20	

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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29048 - EPA 3050B										
Duplicate (0E29048-DUP2)		Source: C0D3709-17			Prepared & Analyzed: 06/01/20					
Lead	ND	10	mg/kg		ND				20	
Manganese	166	50	mg/kg		180			8	20	
Molybdenum	ND	25	mg/kg		ND				20	
Nickel	4.83	5.0	mg/kg		5.19			7	20	
Selenium	ND	25	mg/kg		ND				20	
Silver	ND	5.0	mg/kg		ND				20	
Thallium	ND	5.0	mg/kg		ND				20	
Vanadium	17.9	5.0	mg/kg		20.1			11	20	
Zinc	28.4	5.0	mg/kg		34.1			19	20	
Matrix Spike (0E29048-MS1)		Source: C0D3709-07			Prepared & Analyzed: 06/01/20					
Antimony	122	1.0	mg/kg	200	ND	61	10-156			
Arsenic	222	1.0	mg/kg	200	1.07	111	73-122			
Barium	275	1.0	mg/kg	200	47.1	114	61-132			
Beryllium	171	1.0	mg/kg	200	0.205	85	68-128			
Cadmium	222	1.0	mg/kg	200	ND	111	72-121			
Total Chromium	231	1.0	mg/kg	200	12.8	109	60-129			
Cobalt	218	1.0	mg/kg	200	4.51	107	64-128			
Copper	218	1.0	mg/kg	200	8.99	104	36-141			
Lead	215	2.0	mg/kg	200	2.69	106	60-126			
Manganese	473	10	mg/kg	200	236	119	63-135			
Molybdenum	243	5.0	mg/kg	200	ND	122	60-140			
Nickel	216	1.0	mg/kg	200	6.83	104	60-135			
Selenium	215	5.0	mg/kg	200	ND	107	65-123			
Silver	10.5	1.0	mg/kg	10.0	ND	105	10-155			
Thallium	206	1.0	mg/kg	200	ND	103	57-122			
Vanadium	251	1.0	mg/kg	200	25.2	113	66-136			
Zinc	256	1.0	mg/kg	200	35.5	110	26-166			



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29048 - EPA 3050B										
Matrix Spike Dup (0E29048-MSD1)			Source: C0D3709-07		Prepared & Analyzed: 06/01/20					
Antimony	117	1.0	mg/kg	200	ND	58	10-156	4	20	
Arsenic	220	1.0	mg/kg	200	1.07	109	73-122	1	20	
Barium	276	1.0	mg/kg	200	47.1	114	61-132	0.4	20	
Beryllium	174	1.0	mg/kg	200	0.205	87	68-128	2	20	
Cadmium	223	1.0	mg/kg	200	ND	111	72-121	0.4	20	
Total Chromium	228	1.0	mg/kg	200	12.8	108	60-129	1	20	
Cobalt	213	1.0	mg/kg	200	4.51	104	64-128	2	20	
Copper	213	1.0	mg/kg	200	8.99	102	36-141	2	20	
Lead	217	2.0	mg/kg	200	2.69	107	60-126	0.9	20	
Manganese	463	10	mg/kg	200	236	114	63-135	2	20	
Molybdenum	242	5.0	mg/kg	200	ND	121	60-140	0.3	20	
Nickel	207	1.0	mg/kg	200	6.83	100	60-135	4	20	
Selenium	212	5.0	mg/kg	200	ND	106	65-123	1	20	
Silver	10.5	1.0	mg/kg	10.0	ND	106	10-155	0.4	20	
Thallium	204	1.0	mg/kg	200	ND	102	57-122	0.8	20	
Vanadium	248	1.0	mg/kg	200	25.2	112	66-136	1	20	
Zinc	256	1.0	mg/kg	200	35.5	110	26-166	0.02	20	
Batch 0E29049 - EPA 3050B										
Blank (0E29049-BLK1)			Prepared & Analyzed: 06/01/20							
Aluminum	ND	10	mg/kg							
Iron	ND	20	mg/kg							
LCS (0E29049-BS1)			Prepared & Analyzed: 06/01/20							
Aluminum	4230	10	mg/kg	4200		101	72-120			
Iron	214	20	mg/kg	200		107	80-120			



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Analytical Report: Page 65 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Metals and Metalloids; EPA SW846 Series - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29049 - EPA 3050B										
Matrix Spike (0E29049-MS1)		Source: C0D3709-03		Prepared & Analyzed: 06/01/20						
Aluminum	11900	10	mg/kg	4200	6920	118	61-121			
Iron	13900	20	mg/kg	200	12500	NR	36-178			QM-4X
Matrix Spike Dup (0E29049-MSD1)		Source: C0D3709-03		Prepared & Analyzed: 06/01/20						
Aluminum	11900	10	mg/kg	4200	6920	118	61-121	0.2	25	
Iron	13100	20	mg/kg	200	12500	NR	36-178	6	25	QM-4X
Batch 0E29056 - EPA 7471A										
Blank (0E29056-BLK1)				Prepared & Analyzed: 06/02/20						
Mercury	ND	0.050	mg/kg							
LCS (0E29056-BS1)				Prepared & Analyzed: 06/02/20						
Mercury	0.202	0.050	mg/kg	0.200		101	77-115			
Matrix Spike (0E29056-MS1)		Source: C0D3709-05		Prepared & Analyzed: 06/02/20						
Mercury	0.198	0.050	mg/kg	0.200	ND	99	22-150			
Matrix Spike Dup (0E29056-MSD1)		Source: C0D3709-05		Prepared & Analyzed: 06/02/20						
Mercury	0.204	0.050	mg/kg	0.200	ND	102	22-150	3	25	



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Diesel Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E08046 - Solvent Extraction										
Blank (0E08046-BLK1)				Prepared & Analyzed: 05/08/20						
DRO (C10-C28)	ND	10	mg/kg							
ORO (C29-C44)	ND	10	mg/kg							
Surrogate: o-Terphenyl	1.3		mg/kg	1.88		69	10-142			
Surrogate: n-Triacontane	0.91		mg/kg	2.75		33	10-118			
LCS (0E08046-BS1)				Prepared & Analyzed: 05/08/20						
DRO (C10-C28)	29.0	10	mg/kg	40.0		72	49-111			
ORO (C29-C44)	30.8	10	mg/kg	40.0		77	46-108			
Surrogate: o-Terphenyl	1.5		mg/kg	1.88		79	10-142			
Surrogate: n-Triacontane	1.2		mg/kg	2.75		44	10-118			
Matrix Spike (0E08046-MS1)				Source: C0D3732-01	Prepared & Analyzed: 05/08/20					
DRO (C10-C28)	20.9	10	mg/kg	40.0	ND	52	10-154			
ORO (C29-C44)	22.3	10	mg/kg	40.0	3.50	47	10-185			
Surrogate: o-Terphenyl	1.0		mg/kg	1.88		53	10-142			
Surrogate: n-Triacontane	0.82		mg/kg	2.75		30	10-118			
Matrix Spike Dup (0E08046-MSD1)				Source: C0D3732-01	Prepared & Analyzed: 05/08/20					
DRO (C10-C28)	23.4	10	mg/kg	40.0	ND	58	10-154	11	40	
ORO (C29-C44)	25.2	10	mg/kg	40.0	3.50	54	10-185	12	40	
Surrogate: o-Terphenyl	1.1		mg/kg	1.88		60	10-142			
Surrogate: n-Triacontane	0.95		mg/kg	2.75		35	10-118			
Batch 0E26090 - Solvent Extraction										
Blank (0E26090-BLK1)				Prepared & Analyzed: 05/26/20						
DRO (C10-C28)	ND	10	mg/kg							
ORO (C29-C44)	ND	10	mg/kg							
Surrogate: o-Terphenyl	1.1		mg/kg	1.88		59	10-142			
Surrogate: n-Triacontane	0.41		mg/kg	2.75		15	10-118			



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Diesel Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E26090 - Solvent Extraction										
LCS (0E26090-BS1)				Prepared & Analyzed: 05/26/20						
DRO (C10-C28)	30.7	10	mg/kg	40.0		77	49-111			
ORO (C29-C44)	33.9	10	mg/kg	40.0		85	46-108			
Surrogate: o-Terphenyl	1.5		mg/kg	1.88		78	10-142			
Surrogate: n-Triacontane	0.98		mg/kg	2.75		36	10-118			
Matrix Spike (0E26090-MS1)				Source: C0D3709-03		Prepared & Analyzed: 05/26/20				
DRO (C10-C28)	25.3	10	mg/kg	40.0	ND	63	10-154			
ORO (C29-C44)	30.9	10	mg/kg	40.0	4.41	66	10-185			
Surrogate: o-Terphenyl	1.2		mg/kg	1.88		62	10-142			
Surrogate: n-Triacontane	0.97		mg/kg	2.75		35	10-118			
Matrix Spike Dup (0E26090-MSD1)				Source: C0D3709-03		Prepared & Analyzed: 05/26/20				
DRO (C10-C28)	26.2	10	mg/kg	40.0	ND	65	10-154	4	40	
ORO (C29-C44)	33.1	10	mg/kg	40.0	4.41	72	10-185	7	40	
Surrogate: o-Terphenyl	1.2		mg/kg	1.88		66	10-142			
Surrogate: n-Triacontane	1.0		mg/kg	2.75		38	10-118			
Batch 0E29039 - Solvent Extraction										
Blank (0E29039-BLK1)				Prepared & Analyzed: 05/29/20						
DRO (C10-C28)	ND	5.0	mg/L							
ORO (C29-C44)	ND	5.0	mg/L							
Surrogate: o-Terphenyl	1.7		mg/L	2.14		78	49-114			
Surrogate: n-Triacontane	1.3		mg/L	3.14		40	10-122			
LCS (0E29039-BS1)				Prepared & Analyzed: 05/29/20						
DRO (C10-C28)	23.2	5.0	mg/L	28.6		81	45-122			
ORO (C29-C44)	24.9	5.0	mg/L	28.6		87	34-126			
Surrogate: o-Terphenyl	1.8		mg/L	2.14		83	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		44	10-122			



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Diesel Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29039 - Solvent Extraction										
Matrix Spike (0E29039-MS1)		Source: C0D3709-02		Prepared & Analyzed: 05/29/20						
DRO (C10-C28)	23.2	5.0	mg/L	28.6	ND	81	23-133			
ORO (C29-C44)	25.3	5.0	mg/L	28.6	ND	88	22-118			
Surrogate: o-Terphenyl	1.8		mg/L	2.14		82	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		43	10-122			
Matrix Spike Dup (0E29039-MSD1)		Source: C0D3709-02		Prepared & Analyzed: 05/29/20						
DRO (C10-C28)	23.1	5.0	mg/L	28.6	ND	81	23-133	0.2	40	
ORO (C29-C44)	24.8	5.0	mg/L	28.6	ND	87	22-118	2	40	
Surrogate: o-Terphenyl	1.8		mg/L	2.14		83	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		43	10-122			
Batch 0F01108 - Solvent Extraction										
Blank (0F01108-BLK1)		Prepared & Analyzed: 06/01/20								
DRO (C10-C28)	ND	5.0	mg/L							
ORO (C29-C44)	ND	5.0	mg/L							
Surrogate: o-Terphenyl	1.8		mg/L	2.14		82	49-114			
Surrogate: n-Triacontane	1.3		mg/L	3.14		41	10-122			
LCS (0F01108-BS1)		Prepared & Analyzed: 06/01/20								
DRO (C10-C28)	24.2	5.0	mg/L	28.6		85	45-122			
ORO (C29-C44)	23.9	5.0	mg/L	28.6		83	34-126			
Surrogate: o-Terphenyl	1.8		mg/L	2.14		84	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		44	10-122			
Matrix Spike (0F01108-MS1)		Source: C0D3709-06		Prepared & Analyzed: 06/01/20						
DRO (C10-C28)	24.1	5.0	mg/L	28.6	ND	84	23-133			
ORO (C29-C44)	24.2	5.0	mg/L	28.6	ND	85	22-118			
Surrogate: o-Terphenyl	1.9		mg/L	2.14		87	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		44	10-122			



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 69 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Diesel Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01108 - Solvent Extraction										
Matrix Spike Dup (0F01108-MSD1)		Source: C0D3709-06			Prepared & Analyzed: 06/01/20					
DRO (C10-C28)	24.1	5.0	mg/L	28.6	ND	84	23-133	0.2	40	
ORO (C29-C44)	24.0	5.0	mg/L	28.6	ND	84	22-118	0.5	40	
Surrogate: o-Terphenyl	1.8		mg/L	2.14		84	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		44	10-122			



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
 Santa Ana, CA 92705

Analytical Report: Page 70 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Gasoline Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E05094 - Purge and Trap										
Blank (0E05094-BLK1)				Prepared & Analyzed: 05/05/20						
Gasoline Range Organics	ND	5.0	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	11		mg/kg	10.8		101	11-140			
LCS (0E05094-BS1)				Prepared & Analyzed: 05/05/20						
Gasoline Range Organics	45.7	5.0	mg/kg	50.0		91	70-130			
Surrogate: a,a,a-Trifluorotoluene	11		mg/kg	10.8		100	11-140			
LCS Dup (0E05094-BSD1)				Prepared & Analyzed: 05/05/20						
Gasoline Range Organics	44.0	5.0	mg/kg	50.0		88	70-130	4	40	
Surrogate: a,a,a-Trifluorotoluene	10		mg/kg	10.8		93	11-140			
Matrix Spike (0E05094-MS1)				Source: C0D3709-01	Prepared & Analyzed: 05/05/20					
Gasoline Range Organics	34.8	5.0	mg/kg	50.0	ND	70	15-165			
Surrogate: a,a,a-Trifluorotoluene	10		mg/kg	10.8		97	11-140			
Matrix Spike Dup (0E05094-MSD1)				Source: C0D3709-01	Prepared & Analyzed: 05/05/20					
Gasoline Range Organics	35.2	5.0	mg/kg	50.0	ND	70	15-165	1	40	
Surrogate: a,a,a-Trifluorotoluene	10		mg/kg	10.8		94	11-140			
Batch 0E28088 - Purge and Trap										
Blank (0E28088-BLK1)				Prepared & Analyzed: 05/28/20						
Gasoline Range Organics	ND	5.0	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	10		mg/kg	10.8		93	11-140			
LCS (0E28088-BS1)				Prepared & Analyzed: 05/28/20						
Gasoline Range Organics	37.6	5.0	mg/kg	50.0		75	70-130			
Surrogate: a,a,a-Trifluorotoluene	10		mg/kg	10.8		95	11-140			



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
 Santa Ana, CA 92705

Analytical Report: Page 71 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Gasoline Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E28088 - Purge and Trap										
LCS Dup (0E28088-BSD1)				Prepared & Analyzed: 05/28/20						
Gasoline Range Organics	41.0	5.0	mg/kg	50.0		82	70-130	9	40	
Surrogate: a,a,a-Trifluorotoluene	11		mg/kg	10.8		102	11-140			
Matrix Spike (0E28088-MS1)				Source: C0D3709-03		Prepared & Analyzed: 05/28/20				
Gasoline Range Organics	31.4	5.0	mg/kg	50.0	ND	63	15-165			
Surrogate: a,a,a-Trifluorotoluene	9.6		mg/kg	10.8		89	11-140			
Matrix Spike Dup (0E28088-MSD1)				Source: C0D3709-03		Prepared & Analyzed: 05/28/20				
Gasoline Range Organics	30.6	5.0	mg/kg	50.0	ND	61	15-165	3	40	
Surrogate: a,a,a-Trifluorotoluene	11		mg/kg	10.8		101	11-140			
Batch 0E29042 - Purge and Trap										
Blank (0E29042-BLK1)				Prepared & Analyzed: 05/29/20						
Gasoline Range Organics	ND	0.050	mg/L							
Surrogate: a,a,a-Trifluorotoluene	0.42		mg/L	0.500		85	64-120			
LCS (0E29042-BS1)				Prepared & Analyzed: 05/29/20						
Gasoline Range Organics	2.27	0.050	mg/L	2.32		98	70-130			
Surrogate: a,a,a-Trifluorotoluene	0.46		mg/L	0.500		92	64-120			
LCS Dup (0E29042-BSD1)				Prepared & Analyzed: 05/29/20						
Gasoline Range Organics	2.14	0.050	mg/L	2.32		92	70-130	6	40	
Surrogate: a,a,a-Trifluorotoluene	0.48		mg/L	0.500		97	64-120			
Matrix Spike (0E29042-MS1)				Source: C0D3709-02		Prepared & Analyzed: 05/29/20				
Gasoline Range Organics	2.75	0.050	mg/L	2.50	ND	110	70-151			
Surrogate: a,a,a-Trifluorotoluene	0.46		mg/L	0.500		92	64-120			



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
 Santa Ana, CA 92705

Analytical Report: Page 72 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Gasoline Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29042 - Purge and Trap										
Matrix Spike Dup (0E29042-MSD1)		Source: C0D3709-02		Prepared & Analyzed: 05/29/20						
Gasoline Range Organics	2.46	0.050	mg/L	2.50	ND	98	70-151	11	40	
Surrogate: a,a,a-Trifluorotoluene	0.49		mg/L	0.500		98	64-120			
Batch 0F01106 - Purge and Trap										
Blank (0F01106-BLK1)		Prepared & Analyzed: 06/01/20								
Gasoline Range Organics	ND	0.050	mg/L							
Surrogate: a,a,a-Trifluorotoluene	0.40		mg/L	0.500		81	64-120			
LCS (0F01106-BS1)		Prepared & Analyzed: 06/01/20								
Gasoline Range Organics	2.08	0.050	mg/L	2.32		90	70-130			
Surrogate: a,a,a-Trifluorotoluene	0.45		mg/L	0.500		89	64-120			
LCS Dup (0F01106-BSD1)		Prepared & Analyzed: 06/01/20								
Gasoline Range Organics	1.96	0.050	mg/L	2.32		85	70-130	6	40	
Surrogate: a,a,a-Trifluorotoluene	0.46		mg/L	0.500		92	64-120			
Matrix Spike (0F01106-MS1)		Source: C0E1012-01		Prepared & Analyzed: 06/01/20						
Gasoline Range Organics	2.20	0.050	mg/L	2.50	ND	88	70-151			
Surrogate: a,a,a-Trifluorotoluene	0.44		mg/L	0.500		88	64-120			
Matrix Spike Dup (0F01106-MSD1)		Source: C0E1012-01		Prepared & Analyzed: 06/01/20						
Gasoline Range Organics	2.31	0.050	mg/L	2.50	ND	92	70-151	5	40	
Surrogate: a,a,a-Trifluorotoluene	0.46		mg/L	0.500		92	64-120			



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Client Name: ECORP Consulting, Inc.

Contact: Todd Chapman

Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 73 of 78

Project Name: Whitewater Project 2020

Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709

Received on Ice (Y/N):

Yes

Temp: 16 °C

Notes and Definitions

pH:	Regulatory 15 minute holding time exceeded	C0D3709-02
pH:	Regulatory 15 minute holding time exceeded	C0D3709-04
pH:	Regulatory 15 minute holding time exceeded	C0D3709-06
pH:	Regulatory 15 minute holding time exceeded	C0D3709-08
pH:	Regulatory 15 minute holding time exceeded	C0D3709-10
pH:	Regulatory 15 minute holding time exceeded	C0D3709-12
pH:	Regulatory 15 minute holding time exceeded	C0D3709-14

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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



BABCOCK Laboratories, Inc.
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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 74 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

N_HTa Sample analyzed outside of the EPA recommended holding time.

N_HTp Analysis requested near or past holding time. Sample analyzed outside of the EPA recommended holding time.

N_HTr Sample received past regulatory holding time.

NLOhND LCS recovery was above method control limit for this analyte. Analyte not detected, therefore data not impacted.

NRPDo The RPD/precision of replicate analyses performed on this sample did not meet laboratory acceptance criteria.

QFnt The referenced sample did not require this QC analyte, so a follow-up is not needed.

QLout The LCS and/or LCSD recovery did not meet laboratory acceptance criteria.

QM-4X Due to analyte concentration greater than or equal to 4 times the spike concentration, recoveries for the MS and/or MSD did not meet laboratory acceptance criteria.

QMS(D) Matrix spike recovery was out of acceptance criteria. Precision and accuracy demonstrated by remaining matrix spike results.

QOcal The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.

Qraw Based on raw data excluding numerical rounding, QC recovery was within laboratory acceptance criteria.

QRPDl RPD exceeds control limit due to one or both results being trace (estimated) values below laboratory reporting limit.

QRPD0 The RPD value for the sample duplicate or MS/MSD did not meet laboratory acceptance criteria.

ND: Analyte NOT DETECTED at or above the Method Detection Limit (**if MDL is reported**), otherwise at or above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

MDL: Method Detection Limit

* / (Non-NELAP): NELAP does not offer accreditation for this analyte/method/matrix combination



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 75 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

Cindy A. Waddell

cc:

e-Standard_No Alias.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.

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CA ELAP No. 2698
EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 76 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C



6100 Quail Valley Court Riverside, CA 92507
(951) 653-3351 • FAX (951) 653-1662
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Chain of Custody & Sample Information Record

Client: <u>TODD CHAPMAN ECORP CONSULTING INC.</u>		Contact: _____		Fax No. _____		Additional Reporting Requests		
Phone No. <u>714-721-2882</u>		email: _____				Include QC Data Package: ☐ Yes ☐ No		
Project Name: <u>Whitewater River</u>		Turn Around Time: Routine *72 Hour Rush *48 Hour Rush *24 Hour Rush				FAX Results: ☐ Yes ☐ No		
Project Location: <u>Whitewater, CA</u>		*Lab TAT Approval: _____ By: _____		*Additional Charges Apply		Email Results: ☐ Yes ☐ No		
						State EDT: ☐ Yes ☐ No		
						(Include Source Number in Notes)		
Sampler Information			# of Containers & Preservatives		Sample Type		Analysis Requested	
Name: <u>TODD CHAPMAN</u>			Unpreserved		Routine		Matrix	
Employer: <u>ECORP CONSULTING INC.</u>			H ₂ SO ₄		Resample		DW = Drinking Water	
Signature: <u>Todd</u>			HCl		Special		WW = Waste Water	
			HNO ₃				GW = Ground Water	
			Na ₂ S ₂ O ₃				S = Source	
			NaOH				SG = Sludge	
			NaOH/Zn Acetate				L = Liquid	
			NH ₄ Cl				M = Miscellaneous	
			PDC					
Sample ID			Date		Time		Total # of Containers	
POND 1			3/3/2020				5	
POND 2			3/2/2020				5	
POND 5			3/2/2020				5	
POND 12			3/3/2020				5	
POND 14			3/3/2020				5	
POND 19			3/3/2020				5	
BACKGROUND			3/4/2020				5	
UPSTREAM WASH			3/4/2020				5	
SEDIMENT PLACEMENT			3/2/2020				5	
Relinquished By (sign)			Print Name / Company		Date / Time		Received By (sign)	
<u>Todd</u>			TODD CHAPMAN/ECORP		3/4/2020 17:15		<u>C. J. B.</u>	
							Print Name / Company	
							<u>Cynthia / Babcock</u>	

By signing on behalf of your organization and relinquishing this chain of custody you agree to abide by the Babcock Laboratories, Inc. Terms and Conditions.

(For Lab Use Only)

Sample Integrity Upon Receipt/Acceptance Criteria

Sample(s) Submitted on Ice? ☒ Yes ☐ No Sample meets laboratory acceptance criteria? ☒ Yes ☐ No
Custody Seal(s) Intact? ☒ Yes ☐ No ☒ NA Permission to continue: ☒ Yes ☐ No
Sample(s) Intact? ☒ Yes ☐ No Deviation/Notes: _____
Temperature: 16 °C ☐ Cooler Blank Signature/Date: _____

C0D3709

Rc'd: 03/04/2020 17:15

/IG



Rev 6/18

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BABCOCK Laboratories, Inc.
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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
 Santa Ana, CA 92705

Analytical Report: Page 77 of 78
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
 Received on Ice (Y/N): Yes Temp: 16 °C

Project Information

Printed: 04/30/2020 1:25 pm

ECORP Consulting, Inc.

2861 Pullman Street
 Santa Ana, CA 92705
 Laboratory PM: Cindy A. Waddell

8303

Phone: (714) 648-0630
 Fax: (714) 648-0935

Project Name:	Whitewater Project 2020	Invoice To:	ECORP Consulting, Inc.
Project Number:	Soil Composites 2020	Invoice Bid:	Soil Composites 2020
Client PM:	Todd Chapman	Invoice Manager:	Todd Chapman
Comments:	Special Handling = Compositing samples at lab. Waste Extraction (WET) using DI water.		

Analysis	Comment
Hardness Total-WW	
Fluoride	
FE_ICP_WW	
FE_ICP_SW	
EC	
8015-TPH-DRO/ORO	
8015-TPH-G	
AL_ICP_SW	
AL_ICP_WW	
Cl	
CA_ICP_WW	
Metals CA17-SW	
Alkalinity	
K_ICP_WW	
SO4	
Solids-Total Diss	
Phos-Total	
TOC	
WET	
Special Handling	
NA_ICP_WW	
Metals CA17-WW	
MG_ICP_WW	
MN_ICPMS_SW	
MN_ICPMS_WW	
MBAS	
NO3-N	
pH	
Metals CA17-SW subanalyses:	
CD_ICPMS_SW	
HG_CVAA_SW	
CU_ICPMS_SW	
CR_ICPMS_SW	
CO_ICPMS_SW	
AG_ICPMS_SW	
AS_ICPMS_SW	
BA_ICPMS_SW	
BE_ICPMS_SW	
TL_ICPMS_SW	
SE_ICPMS_SW	
SB_ICPMS_SW	

C0D3709

Rc'd: 03/04/2020 17:15
 AG





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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 78 of 78
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 08-Jun-2020

Work Order Number: C0D3709
Received on Ice (Y/N): Yes Temp: 16 °C

Project Information
(Continued)

Printed: 04/30/2020 1:25 pm

ECORP Consulting, Inc.

2861 Pullman Street
Santa Ana, CA 92705
Laboratory PM: Cindy A. Waddell

8303

Phone: (714) 648-0630
Fax: (714) 648-0935

Project Name:	Whitewater Project 2020	Invoice To:	ECORP Consulting, Inc.
Project Number:	Soil Composites 2020	Invoice Bid:	Soil Composites 2020
Client PM:	Todd Chapman	Invoice Manager:	Todd Chapman
Comments:	Special Handling = Compositing samples at lab. Waste Extraction (WET) using DI water.		

Analysis	Comment
TAD	
V_ICPMS_SW	
ZN_ICPMS_SW	
NI_ICPMS_SW	
PB_ICPMS_SW	
MO_ICPMS_SW	
Metals CA17-WW subanalyses:	
HG_ICPMS_WW	
CU_ICPMS_WW	
CR_ICPMS_WW	
CO_ICPMS_WW	
AS_ICPMS_WW	
AG_ICPMS_WW	
CD_ICPMS_WW	
BA_ICPMS_WW	
BE_ICPMS_WW	
SE_ICPMS_WW	
TL_ICPMS_WW	
V_ICPMS_WW	
ZN_ICPMS_WW	
SB_ICPMS_WW	
MO_ICPMS_WW	
NI_ICPMS_WW	
PB_ICPMS_WW	

C0D3709

Rc'd: 03/04/2020 17:15

MG





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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 1 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Attached is the analytical report for the sample(s) received for your project. Below is a list of the individual sample descriptions with the corresponding laboratory number(s). Also, enclosed is a copy of the Chain of Custody document (if received with your sample(s)). Please note any unused portion of the sample(s) may be responsibly discarded after 30 days from the above report date, unless you have requested otherwise.

Thank you for the opportunity to serve your analytical needs. If you have any questions or concerns regarding this report please contact our client service department.

Sample Identification

<u>Lab Sample #</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>By</u>	<u>Date Submitted</u>	<u>By</u>
C0E1012-01	Pond 1 (Leachate w/ Colorado Water River)	Liquid	03/3/20 0:00	Todd Chapman	05/08/20 11:05	Torrey
C0E1012-02	Pond 2 (Leachate w/ Colorado Water River)	Liquid	03/2/20 0:00	Todd Chapman	05/08/20 11:05	Torrey
C0E1012-03	Pond 5 (Leachate w/Colorado Water River)	Liquid	03/2/20 0:00	Todd Chapman	05/08/20 11:05	Torrey
C0E1012-04	Pond 12 (Leachate w/Colorado Water River)	Liquid	03/3/20 0:00	Todd Chapman	05/08/20 11:05	Torrey
C0E1012-05	Pond 14 (Leachate w/ Colorado Water River)	Liquid	03/3/20 0:00	Todd Chapman	05/08/20 11:05	Torrey
C0E1012-06	Pond 19 (Leachate w/ Colorado Water River)	Liquid	03/3/20 0:00	Todd Chapman	05/08/20 11:05	Torrey
C0E1012-07	Background (Leachate w/ Colorado Water River)	Liquid	03/4/20 0:00	Todd Chapman	05/08/20 11:05	Torrey
C0E1012-09	Colorado River Water Background	Liquid	03/4/20 0:00	Todd Chapman	05/08/20 11:05	Torrey

Note: Sample identified as Upstream Wash, C0E1012-08 was cancelled, sample was not received at laboratory.



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
 Santa Ana, CA 92705

Analytical Report: Page 2 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 1 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	280	6.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:43	KSL	
Calcium	73	1.0	mg/L	EPA 200.7	05/29/20 15:43	KSL	
Magnesium	25	1.0	mg/L	EPA 200.7	05/29/20 15:43	KSL	
Sodium	85	1.0	mg/L	EPA 200.7	05/29/20 15:43	KSL	
Potassium	6.8	1.0	mg/L	EPA 200.7	05/29/20 15:43	KSL	
Anions							
Total Alkalinity	140	5.0	mg/L as CaCO3	SM 2320B	06/01/20 15:27	BBR	N_HTp
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	06/01/20 15:27	BBR	N_HTp
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	06/01/20 15:27	BBR	N_HTp
Bicarbonate	140	5.0	mg/L as CaCO3	SM 2320B	06/01/20 15:27	BBR	N_HTp
Chloride	89	1.0	mg/L	EPA 300.0	05/29/20 04:18	KAA	
Sulfate	210	0.50	mg/L	EPA 300.0	05/29/20 04:18	KAA	
Nitrate as N	0.28	0.20	mg/L	EPA 300.0	05/29/20 04:18	KAA	
Fluoride	0.4	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	8.3	1.0	pH Units	SM 4500H+ B	06/01/20 15:27	BBR	N_HTp
Specific Conductance	930	1.0	umhos/cm	SM 2510 B	06/01/20 15:27	BBR	N_HTp
Solids							
Total Dissolved Solids	570	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	2.5	0.70	mg/L	SM 5310B	05/29/20 14:25	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
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Analytical Report: Page 3 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 1 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 07:30	EGV	
Nutrients							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	ND	100	ug/L	EPA 200.7	05/29/20 15:43	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Barium	69	20	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:43	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8 ATP	05/29/20 15:46	KRV	N_HTa
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:46	KRV	
Vanadium	21	10	ug/L	EPA 200.8	06/02/20 14:52	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:46	KRV	



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 4 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-01

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 1 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 20:37	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 20:37	NAA	N_HTr
Surrogate: o-Terphenyl	79%	49-114		EPA 8015B	05/29/20 20:37	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	05/29/20 20:37	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	06/01/20 17:26	EEC	N_HTr
Surrogate: a,a,a-Trifluorotoluene	83%	64-120		EPA 8015B	06/01/20 17:26	EEC	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
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Analytical Report: Page 5 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 2 (Leachate w/ Colorado Water River)	Liquid	03/02/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	280	6.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:45	KSL	
Calcium	72	1.0	mg/L	EPA 200.7	05/29/20 15:45	KSL	
Magnesium	24	1.0	mg/L	EPA 200.7	05/29/20 15:45	KSL	
Sodium	83	1.0	mg/L	EPA 200.7	05/29/20 15:45	KSL	
Potassium	6.8	1.0	mg/L	EPA 200.7	05/29/20 15:45	KSL	
Anions							
Total Alkalinity	140	5.0	mg/L as CaCO3	SM 2320B	06/01/20 15:36	BBR	N_HTp
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	06/01/20 15:36	BBR	N_HTp
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	06/01/20 15:36	BBR	N_HTp
Bicarbonate	140	5.0	mg/L as CaCO3	SM 2320B	06/01/20 15:36	BBR	N_HTp
Chloride	89	1.0	mg/L	EPA 300.0	05/29/20 04:30	KAA	
Sulfate	210	0.50	mg/L	EPA 300.0	05/29/20 04:30	KAA	
Nitrate as N	0.25	0.20	mg/L	EPA 300.0	05/29/20 04:30	KAA	
Fluoride	0.4	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	8.3	1.0	pH Units	SM 4500H+ B	06/01/20 15:36	BBR	
Specific Conductance	920	1.0	umhos/cm	SM 2510 B	06/01/20 15:36	BBR	N_HTp
Solids							
Total Dissolved Solids	560	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	2.4	0.70	mg/L	SM 5310B	05/29/20 14:40	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 6 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 2 (Leachate w/ Colorado Water River)	Liquid	03/02/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 07:30	EGV	
Nutrients							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	ND	100	ug/L	EPA 200.7	05/29/20 15:45	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Barium	73	20	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:45	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8 ATP	05/29/20 15:48	KRV	N_HTa
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:48	KRV	
Vanadium	23	10	ug/L	EPA 200.8	06/02/20 14:55	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:48	KRV	



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 7 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-02

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 2 (Leachate w/ Colorado Water River)	Liquid	03/02/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 21:02	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 21:02	NAA	N_HTr
Surrogate: o-Terphenyl	80%	49-114		EPA 8015B	05/29/20 21:02	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	05/29/20 21:02	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	06/01/20 18:04	EEC	N_HTr
Surrogate: a,a,a-Trifluorotoluene	89%	64-120		EPA 8015B	06/01/20 18:04	EEC	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
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Analytical Report: Page 8 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 5 (Leachate w/Colorado Water River)	Liquid	03/02/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	280	6.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:47	KSL	
Calcium	72	1.0	mg/L	EPA 200.7	05/29/20 15:47	KSL	
Magnesium	24	1.0	mg/L	EPA 200.7	05/29/20 15:47	KSL	
Sodium	85	1.0	mg/L	EPA 200.7	05/29/20 15:47	KSL	
Potassium	6.5	1.0	mg/L	EPA 200.7	05/29/20 15:47	KSL	
Anions							
Total Alkalinity	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:39	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:39	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:39	BBR	
Bicarbonate	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:39	BBR	
Chloride	89	1.0	mg/L	EPA 300.0	05/29/20 04:42	KAA	
Sulfate	210	0.50	mg/L	EPA 300.0	05/29/20 04:42	KAA	
Nitrate as N	0.23	0.20	mg/L	EPA 300.0	05/29/20 04:42	KAA	
Fluoride	0.4	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	8.2	1.0	pH Units	SM 4500H+ B	05/29/20 14:39	BBR	
Specific Conductance	930	1.0	umhos/cm	SM 2510 B	05/29/20 14:39	BBR	
Solids							
Total Dissolved Solids	540	20	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	2.4	0.70	mg/L	SM 5310B	05/29/20 14:54	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
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 Address: 2861 Pullman Street
 Santa Ana, CA 92705

Analytical Report: Page 9 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 5 (Leachate w/Colorado Water River)	Liquid	03/02/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 07:30	EGV	
Nutrients							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	ND	100	ug/L	EPA 200.7	05/29/20 15:47	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Barium	72	20	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:47	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8	05/29/20 15:50	KRV	N_HTa
				ATP			
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 15:50	KRV	
Vanadium	21	10	ug/L	EPA 200.8	06/02/20 14:57	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 15:50	KRV	



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
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Analytical Report: Page 10 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-03

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 5 (Leachate w/Colorado Water River)	Liquid	03/02/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 21:27	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 21:27	NAA	N_HTr
Surrogate: o-Terphenyl	80%	49-114		EPA 8015B	05/29/20 21:27	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	05/29/20 21:27	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	06/01/20 18:43	EEC	N_HTr
Surrogate: a,a,a-Trifluorotoluene	87%	64-120		EPA 8015B	06/01/20 18:43	EEC	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
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Analytical Report: Page 11 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 12 (Leachate w/Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	280	6.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:49	KSL	
Calcium	73	1.0	mg/L	EPA 200.7	05/29/20 15:49	KSL	
Magnesium	24	1.0	mg/L	EPA 200.7	05/29/20 15:49	KSL	
Sodium	84	1.0	mg/L	EPA 200.7	05/29/20 15:49	KSL	
Potassium	6.6	1.0	mg/L	EPA 200.7	05/29/20 15:49	KSL	
Anions							
Total Alkalinity	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:48	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:48	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:48	BBR	
Bicarbonate	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:48	BBR	
Chloride	89	1.0	mg/L	EPA 300.0	05/29/20 04:54	KAA	
Sulfate	210	0.50	mg/L	EPA 300.0	05/29/20 04:54	KAA	
Nitrate as N	0.26	0.20	mg/L	EPA 300.0	05/29/20 04:54	KAA	
Fluoride	0.4	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	8.2	1.0	pH Units	SM 4500H+ B	05/29/20 14:48	BBR	
Specific Conductance	930	1.0	umhos/cm	SM 2510 B	05/29/20 14:48	BBR	
Solids							
Total Dissolved Solids	570	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	2.5	0.70	mg/L	SM 5310B	05/29/20 15:10	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
 Address: 2861 Pullman Street
 Santa Ana, CA 92705

Analytical Report: Page 12 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 12 (Leachate w/Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 22:30	DAD	
Nutrients							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	ND	100	ug/L	EPA 200.7	05/29/20 15:49	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Barium	69	20	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:49	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8	05/29/20 16:02	KRV	N_HTa
				ATP			
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 16:02	KRV	
Vanadium	27	10	ug/L	EPA 200.8	06/02/20 14:59	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 16:02	KRV	



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
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Santa Ana, CA 92705

Analytical Report: Page 13 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-04

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 12 (Leachate w/Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 21:52	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 21:52	NAA	N_HTr
Surrogate: o-Terphenyl	79%	49-114		EPA 8015B	05/29/20 21:52	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	05/29/20 21:52	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	06/01/20 19:22	EEC	N_HTr
Surrogate: a,a,a-Trifluorotoluene	88%	64-120		EPA 8015B	06/01/20 19:22	EEC	N_HTr



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
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Analytical Report: Page 14 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 14 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	280	6.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:52	KSL	
Calcium	71	1.0	mg/L	EPA 200.7	05/29/20 15:52	KSL	
Magnesium	24	1.0	mg/L	EPA 200.7	05/29/20 15:52	KSL	
Sodium	83	1.0	mg/L	EPA 200.7	05/29/20 15:52	KSL	
Potassium	6.2	1.0	mg/L	EPA 200.7	05/29/20 15:52	KSL	
Anions							
Total Alkalinity	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:56	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:56	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:56	BBR	
Bicarbonate	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 14:56	BBR	
Chloride	89	1.0	mg/L	EPA 300.0	05/29/20 05:06	KAA	
Sulfate	210	0.50	mg/L	EPA 300.0	05/29/20 05:06	KAA	
Nitrate as N	0.23	0.20	mg/L	EPA 300.0	05/29/20 05:06	KAA	
Fluoride	0.4	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	8.3	1.0	pH Units	SM 4500H+ B	05/29/20 14:56	BBR	
Specific Conductance	930	1.0	umhos/cm	SM 2510 B	05/29/20 14:56	BBR	
Solids							
Total Dissolved Solids	570	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	2.5	0.70	mg/L	SM 5310B	05/29/20 15:26	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 15 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 14 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 22:30	DAD	
Nutrients							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	ND	100	ug/L	EPA 200.7	05/29/20 15:52	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Barium	85	20	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:52	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8	05/29/20 16:04	KRV	N_HTa
				ATP			
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 16:04	KRV	
Vanadium	26	10	ug/L	EPA 200.8	06/02/20 15:02	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 16:04	KRV	



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 16 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-05

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 14 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	06/01/20 14:21	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	06/01/20 14:21	NAA	N_HTr
Surrogate: o-Terphenyl	83%	49-114		EPA 8015B	06/01/20 14:21	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	06/01/20 14:21	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	06/01/20 20:01	EEC	N_HTr
Surrogate: a,a,a-Trifluorotoluene	98%	64-120		EPA 8015B	06/01/20 20:01	EEC	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
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Analytical Report: Page 17 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 19 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	270	6.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:54	KSL	
Calcium	70	1.0	mg/L	EPA 200.7	05/29/20 15:54	KSL	
Magnesium	24	1.0	mg/L	EPA 200.7	05/29/20 15:54	KSL	
Sodium	82	1.0	mg/L	EPA 200.7	05/29/20 15:54	KSL	
Potassium	6.3	1.0	mg/L	EPA 200.7	05/29/20 15:54	KSL	
Anions							
Total Alkalinity	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:05	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:05	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:05	BBR	
Bicarbonate	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:05	BBR	
Chloride	88	1.0	mg/L	EPA 300.0	05/29/20 05:18	KAA	
Sulfate	210	0.50	mg/L	EPA 300.0	05/29/20 05:18	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 05:18	KAA	
Fluoride	0.4	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	8.3	1.0	pH Units	SM 4500H+ B	05/29/20 15:05	BBR	
Specific Conductance	910	1.0	umhos/cm	SM 2510 B	05/29/20 15:05	BBR	
Solids							
Total Dissolved Solids	570	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	2.3	0.70	mg/L	SM 5310B	05/29/20 15:42	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
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Analytical Report: Page 18 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 19 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 22:30	DAD	
Nutrients							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	ND	100	ug/L	EPA 200.7	05/29/20 15:54	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Barium	75	20	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:54	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Manganese	19	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8 ATP	05/29/20 16:07	KRV	N_HTa
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 16:07	KRV	
Vanadium	26	10	ug/L	EPA 200.8	06/02/20 15:04	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 16:07	KRV	



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
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Analytical Report: Page 19 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-06

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Pond 19 (Leachate w/ Colorado Water River)	Liquid	03/03/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 22:16	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 22:16	NAA	N_HTr
Surrogate: o-Terphenyl	83%	49-114		EPA 8015B	05/29/20 22:16	NAA	N_HTr
Surrogate: n-Triacontane	41%	10-122		EPA 8015B	05/29/20 22:16	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	06/01/20 20:39	EEC	N_HTr
Surrogate: a,a,a-Trifluorotoluene	83%	64-120		EPA 8015B	06/01/20 20:39	EEC	N_HTr



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Client Name: ECORP Consulting, Inc.
 Contact: Todd Chapman
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Analytical Report: Page 20 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Background (Leachate w/ Colorado Water River)	Liquid	03/04/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	280	6.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:56	KSL	
Calcium	75	1.0	mg/L	EPA 200.7	05/29/20 15:56	KSL	
Magnesium	23	1.0	mg/L	EPA 200.7	05/29/20 15:56	KSL	
Sodium	83	1.0	mg/L	EPA 200.7	05/29/20 15:56	KSL	
Potassium	6.9	1.0	mg/L	EPA 200.7	05/29/20 15:56	KSL	
Anions							
Total Alkalinity	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:13	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:13	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:13	BBR	
Bicarbonate	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:13	BBR	
Chloride	89	1.0	mg/L	EPA 300.0	05/29/20 05:53	KAA	
Sulfate	210	0.50	mg/L	EPA 300.0	05/29/20 05:53	KAA	
Nitrate as N	0.21	0.20	mg/L	EPA 300.0	05/29/20 05:53	KAA	
Fluoride	0.4	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	8.3	1.0	pH Units	SM 4500H+ B	05/29/20 15:13	BBR	
Specific Conductance	930	1.0	umhos/cm	SM 2510 B	05/29/20 15:13	BBR	
Solids							
Total Dissolved Solids	570	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	2.4	0.70	mg/L	SM 5310B	05/29/20 15:59	KSL	N_HTa



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Client Name: ECORP Consulting, Inc.
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Analytical Report: Page 21 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Background (Leachate w/ Colorado Water River)	Liquid	03/04/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 22:30	DAD	
Nutrients							
Total Phosphorus	0.05	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	ND	100	ug/L	EPA 200.7	05/29/20 15:56	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Barium	69	20	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:56	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Manganese	17	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8 ATP	05/29/20 16:09	KRV	N_HTa
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 16:09	KRV	
Vanadium	24	10	ug/L	EPA 200.8	06/02/20 15:06	KRV	
Zinc	ND	10	ug/L	EPA 200.8	05/29/20 16:09	KRV	



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-07

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Background (Leachate w/ Colorado Water River)	Liquid	03/04/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 22:41	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 22:41	NAA	N_HTr
Surrogate: o-Terphenyl	78%	49-114		EPA 8015B	05/29/20 22:41	NAA	N_HTr
Surrogate: n-Triacontane	39%	10-122		EPA 8015B	05/29/20 22:41	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	05/29/20 21:19	JES	N_HTr
Surrogate: a,a,a-Trifluorotoluene	98%	64-120		EPA 8015B	05/29/20 21:19	JES	N_HTr



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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-09

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Colorado River Water Background	Liquid	03/04/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Cations							
Total Hardness	280	6.0	mg/L	SM 2340B/EPA 200.7	05/29/20 15:58	KSL	
Calcium	72	1.0	mg/L	EPA 200.7	05/29/20 15:58	KSL	
Magnesium	24	1.0	mg/L	EPA 200.7	05/29/20 15:58	KSL	
Sodium	83	1.0	mg/L	EPA 200.7	05/29/20 15:58	KSL	
Potassium	4.3	1.0	mg/L	EPA 200.7	05/29/20 15:58	KSL	
Anions							
Total Alkalinity	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:21	BBR	
Hydroxide	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:21	BBR	
Carbonate	ND	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:21	BBR	
Bicarbonate	140	5.0	mg/L as CaCO3	SM 2320B	05/29/20 15:21	BBR	
Chloride	90	1.0	mg/L	EPA 300.0	05/29/20 06:17	KAA	
Sulfate	210	0.50	mg/L	EPA 300.0	05/29/20 06:17	KAA	
Nitrate as N	ND	0.20	mg/L	EPA 300.0	05/29/20 06:17	KAA	
Fluoride	0.3	0.1	mg/L	SM 4500F B C	06/01/20 08:40	KBS	
Aggregate Properties							
pH	8.3	1.0	pH Units	SM 4500H+ B	05/29/20 15:21	BBR	
Specific Conductance	930	1.0	umhos/cm	SM 2510 B	05/29/20 15:21	BBR	
Solids							
Total Dissolved Solids	570	10	mg/L	SM 2540C	06/01/20 09:35	KAA	
Aggregate Organic Compounds							
Total Organic Carbon	2.6	0.70	mg/L	SM 5310B	05/29/20 16:15	KSL	N_HTa



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number

C0E1012-09

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Colorado River Water Background	Liquid	03/04/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Surfactants							
MBAS	ND	0.08	mg/L	SM 5540C	05/29/20 22:30	DAD	
Nutrients							
Total Phosphorus	ND	0.05	mg/L	SM 4500P B E	05/29/20 13:03	AJH	
Metals and Metalloids							
Aluminum	ND	100	ug/L	EPA 200.7	05/29/20 15:58	KSL	
Antimony	ND	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Arsenic	ND	5.0	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Barium	110	20	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Beryllium	ND	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Cadmium	ND	2.0	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Total Chromium	ND	20	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Cobalt	ND	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Copper	ND	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Iron	ND	50	ug/L	EPA 200.7	05/29/20 15:58	KSL	
Lead	ND	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Manganese	ND	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Mercury	ND	0.20	ug/L	EPA 200.8	05/29/20 16:11	KRV	N_HTa
				ATP			
Molybdenum	ND	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	NLOhND
Nickel	ND	20	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Selenium	ND	5.0	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Silver	ND	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Thallium	ND	200	ug/L	EPA 200.8	05/29/20 16:11	KRV	
Vanadium	28	10	ug/L	EPA 200.8	06/02/20 15:08	KRV	
Zinc	20	10	ug/L	EPA 200.8	05/29/20 16:11	KRV	

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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Laboratory Reference Number**C0E1012-09**

<u>Sample Description</u>	<u>Matrix</u>	<u>Sampled Date/Time</u>	<u>Received Date/Time</u>
Colorado River Water Background	Liquid	03/04/20 00:00	05/08/20 11:05

Analyte(s)	Result	RDL	Units	Method	Analysis Date	Analyst	Flag
Diesel Range Organics by EPA 8015							
DRO (C10-C28)	ND	5.0	mg/L	EPA 8015B	05/29/20 23:06	NAA	N_HTr
ORO (C29-C44)	ND	5.0	mg/L	EPA 8015B	05/29/20 23:06	NAA	N_HTr
Surrogate: o-Terphenyl	79%	49-114		EPA 8015B	05/29/20 23:06	NAA	N_HTr
Surrogate: n-Triacontane	40%	10-122		EPA 8015B	05/29/20 23:06	NAA	N_HTr
Gasoline Range Organics by EPA 8015							
Gasoline Range Organics	ND	0.050	mg/L	EPA 8015B	05/29/20 21:56	JES	N_HTr
Surrogate: a,a,a-Trifluorotoluene	100%	64-120		EPA 8015B	05/29/20 21:56	JES	N_HTr



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Cations - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29050 - EPA 200.2										
Blank (0E29050-BLK1)				Prepared & Analyzed: 05/29/20						
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
Potassium	ND	1.0	mg/L							
Blank (0E29050-BLK2)				Prepared & Analyzed: 05/29/20						
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
Potassium	ND	1.0	mg/L							
LCS (0E29050-BS1)				Prepared & Analyzed: 05/29/20						
Calcium	17.5	1.0	mg/L	17.0		103	85-115			
Magnesium	17.0	1.0	mg/L	17.0		100	85-115			
Sodium	33.3	1.0	mg/L	33.7		99	85-115			
Potassium	16.9	1.0	mg/L	17.0		99	85-115			
Matrix Spike (0E29050-MS1)				Source: C0D3709-06		Prepared & Analyzed: 05/29/20				
Calcium	23.8	1.0	mg/L	17.0	5.49	108	70-130			
Magnesium	18.1	1.0	mg/L	17.0	0.878	101	70-130			
Sodium	36.4	1.0	mg/L	33.7	2.56	100	70-130			
Potassium	18.9	1.0	mg/L	17.0	1.61	102	70-130			
Matrix Spike Dup (0E29050-MSD1)				Source: C0D3709-06		Prepared & Analyzed: 05/29/20				
Calcium	23.0	1.0	mg/L	17.0	5.49	103	70-130	3	20	
Magnesium	17.6	1.0	mg/L	17.0	0.878	98	70-130	3	20	
Sodium	35.4	1.0	mg/L	33.7	2.56	97	70-130	3	20	
Potassium	18.3	1.0	mg/L	17.0	1.61	98	70-130	3	20	



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E28127 - Analyzed as Received IC										
Blank (0E28127-BLK1)				Prepared & Analyzed: 05/29/20						
Sulfate	ND	0.50	mg/L							
Chloride	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
LCS (0E28127-BS1)				Prepared & Analyzed: 05/29/20						
Sulfate	25.3	0.50	mg/L	25.0		101	90-110			
Chloride	26.4	1.0	mg/L	25.0		105	90-110			
Nitrate as N	5.71	0.20	mg/L	5.65		101	90-110			
Matrix Spike (0E28127-MS1)				Source: C0D3709-14		Prepared & Analyzed: 05/29/20				
Sulfate	24.8	0.50	mg/L	25.0	ND	99	75-128			
Chloride	25.4	1.0	mg/L	25.0	ND	101	84-129			
Nitrate as N	5.53	0.20	mg/L	5.65	ND	98	75-131			
Matrix Spike (0E28127-MS2)				Source: C0E1012-07		Prepared & Analyzed: 05/29/20				
Sulfate	236	0.50	mg/L	25.0	212	97	75-128			
Chloride	115	1.0	mg/L	25.0	89.1	102	84-129			
Nitrate as N	5.94	0.20	mg/L	5.65	0.206	101	75-131			
Matrix Spike Dup (0E28127-MSD1)				Source: C0D3709-14		Prepared & Analyzed: 05/29/20				
Sulfate	24.7	0.50	mg/L	25.0	ND	99	75-128	0.2	20	
Chloride	25.3	1.0	mg/L	25.0	ND	101	84-129	0.2	20	
Nitrate as N	5.54	0.20	mg/L	5.65	ND	98	75-131	0.09	20	
Batch 0E29016 - Analyzed as received										
Blank (0E29016-BLK1)				Prepared & Analyzed: 05/29/20						
Total Alkalinity	ND	5.0	mg/L as CaCO3							
Hydroxide	ND	5.0	mg/L as CaCO3							
Carbonate	ND	5.0	mg/L as CaCO3							
Bicarbonate	ND	5.0	mg/L as CaCO3							



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29016 - Analyzed as received										
LCS (0E29016-BS3)				Prepared & Analyzed: 05/29/20						
Total Alkalinity	1280	5.0	mg/L as CaCO3	1250		102	90-110			
Carbonate	1250	5.0	mg/L as CaCO3	1250		100	90-110			
Duplicate (0E29016-DUP1)				Source: C0E1012-03		Prepared & Analyzed: 05/29/20				
Total Alkalinity	137	5.0	mg/L as CaCO3		139			1	20	
Hydroxide	ND	5.0	mg/L as CaCO3		ND				20	
Carbonate	ND	5.0	mg/L as CaCO3		ND				20	
Bicarbonate	135	5.0	mg/L as CaCO3		139			3	20	
Duplicate (0E29016-DUP2)				Source: C0E1012-04		Prepared & Analyzed: 05/29/20				
Total Alkalinity	136	5.0	mg/L as CaCO3		137			0.4	20	
Hydroxide	ND	5.0	mg/L as CaCO3		ND				20	
Carbonate	ND	5.0	mg/L as CaCO3		ND				20	
Bicarbonate	136	5.0	mg/L as CaCO3		137			0.4	20	
Batch 0F01100 - Analyzed as received										
Blank (0F01100-BLK1)				Prepared & Analyzed: 06/01/20						
Total Alkalinity	ND	5.0	mg/L as CaCO3							
Hydroxide	ND	5.0	mg/L as CaCO3							
Carbonate	ND	5.0	mg/L as CaCO3							
Bicarbonate	ND	5.0	mg/L as CaCO3							
LCS (0F01100-BS3)				Prepared & Analyzed: 06/01/20						
Total Alkalinity	1270	5.0	mg/L as CaCO3	1250		102	90-110			
Carbonate	1240	5.0	mg/L as CaCO3	1250		99	90-110			



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 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01100 - Analyzed as received										
Duplicate (0F01100-DUP1)		Source: C0E3072-04		Prepared & Analyzed: 06/01/20						
Total Alkalinity	178	5.0	mg/L as CaCO3		181			2	20	
Hydroxide	ND	5.0	mg/L as CaCO3		ND				20	
Carbonate	ND	5.0	mg/L as CaCO3		ND				20	
Bicarbonate	178	5.0	mg/L as CaCO3		181			2	20	
Duplicate (0F01100-DUP2)		Source: C0E3072-05		Prepared & Analyzed: 06/01/20						
Total Alkalinity	178	5.0	mg/L as CaCO3		179			0.9	20	
Hydroxide	ND	5.0	mg/L as CaCO3		ND				20	
Carbonate	ND	5.0	mg/L as CaCO3		ND				20	
Bicarbonate	178	5.0	mg/L as CaCO3		179			0.9	20	
Batch 0F01102 - Analyzed as received										
Blank (0F01102-BLK1)		Prepared & Analyzed: 06/01/20								
Fluoride	ND	0.1	mg/L							
LCS (0F01102-BS1)		Prepared & Analyzed: 06/01/20								
Fluoride	0.788	0.1	mg/L	0.800		98	90-110			
LCS (0F01102-BS2)		Prepared & Analyzed: 06/01/20								
Fluoride	0.763	0.1	mg/L	0.800		95	90-110			
LCS (0F01102-BS3)		Prepared & Analyzed: 06/01/20								
Fluoride	0.754	0.1	mg/L	0.800		94	90-110			
LCS (0F01102-BS4)		Prepared & Analyzed: 06/01/20								
Fluoride	0.763	0.1	mg/L	0.800		95	90-110			



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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Anions - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01102 - Analyzed as received										
Matrix Spike (0F01102-MS1)		Source: C0E3251-01		Prepared & Analyzed: 06/01/20						
Fluoride	0.485	0.1	mg/L	0.400	0.104	95	75-125			
Matrix Spike Dup (0F01102-MSD1)		Source: C0E3251-01		Prepared & Analyzed: 06/01/20						
Fluoride	0.489	0.1	mg/L	0.400	0.104	96	75-125	0.8	20	



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 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Aggregate Properties - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29016 - Analyzed as received										
LCS (0E29016-BS1)				Prepared & Analyzed: 05/29/20						
pH	7.0	1.0	pH Units	7.00		100	97.5-102.5			
LCS (0E29016-BS2)				Prepared & Analyzed: 05/29/20						
Specific Conductance	992	1.0	umhos/cm	1000		99	90-110			
Duplicate (0E29016-DUP1)				Source: C0E1012-03		Prepared & Analyzed: 05/29/20				
pH	8.3	1.0	pH Units		8.2			1	5	
Specific Conductance	945	1.0	umhos/cm		932			1	20	
Duplicate (0E29016-DUP2)				Source: C0E1012-04		Prepared & Analyzed: 05/29/20				
pH	8.3	1.0	pH Units		8.2			0.7	5	
Specific Conductance	917	1.0	umhos/cm		928			1	20	
Batch 0F01100 - Analyzed as received										
LCS (0F01100-BS1)				Prepared & Analyzed: 06/01/20						
pH	7.0	1.0	pH Units	7.00		101	97.5-102.5			
LCS (0F01100-BS2)				Prepared & Analyzed: 06/01/20						
Specific Conductance	990	1.0	umhos/cm	1000		99	90-110			
Duplicate (0F01100-DUP1)				Source: C0E3072-04		Prepared & Analyzed: 06/01/20				
pH	7.9	1.0	pH Units		7.9			0.1	5	
Specific Conductance	563	1.0	umhos/cm		566			0.5	20	
Duplicate (0F01100-DUP2)				Source: C0E3072-05		Prepared & Analyzed: 06/01/20				
pH	7.9	1.0	pH Units		7.9			0.1	5	
Specific Conductance	567	1.0	umhos/cm		567			0	20	



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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Solids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01104 - Analyzed as received										
Blank (0F01104-BLK1)				Prepared & Analyzed: 06/01/20						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (0F01104-DUP1)				Source: C0E3044-01 Prepared & Analyzed: 06/01/20						
Total Dissolved Solids	1400	20	mg/L		1400			0	20	
Duplicate (0F01104-DUP2)				Source: C0E3405-01 Prepared & Analyzed: 06/01/20						
Total Dissolved Solids	323	10	mg/L		331			2	20	



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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Aggregate Organic Compounds - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29036 - As recieved										
Blank (0E29036-BLK1)				Prepared & Analyzed: 05/29/20						
Total Organic Carbon	ND	0.70	mg/L							
Blank (0E29036-BLK2)				Prepared & Analyzed: 05/29/20						
Total Organic Carbon	ND	0.70	mg/L							
LCS (0E29036-BS1)				Prepared & Analyzed: 05/29/20						
Total Organic Carbon	3.92	0.70	mg/L	4.00		98	90-110			
Duplicate (0E29036-DUP1)		Source: C0E1012-06		Prepared & Analyzed: 05/29/20						
Total Organic Carbon	2.32	0.70	mg/L		2.29			1	20	
Matrix Spike (0E29036-MS1)		Source: C0E1012-07		Prepared & Analyzed: 05/29/20						
Total Organic Carbon	6.52	0.70	mg/L	4.00	2.42	103	80-120			
Matrix Spike Dup (0E29036-MSD1)		Source: C0E1012-07		Prepared & Analyzed: 05/29/20						
Total Organic Carbon	6.55	0.70	mg/L	4.00	2.42	103	80-120	0.4	10	



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Report Date: 09-Jun-2020

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Received on Ice (Y/N): Yes Temp: 6 °C

Surfactants - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29012 - Solvent Extraction.										
Blank (0E29012-BLK1)				Prepared & Analyzed: 05/29/20						
MBAS	ND	0.08	mg/L							
LCS (0E29012-BS1)				Prepared & Analyzed: 05/29/20						
MBAS	0.180	0.08	mg/L	0.400		45	26-137			
Matrix Spike (0E29012-MS1)				Source: C0D3709-14 Prepared & Analyzed: 05/29/20						
MBAS	0.270	0.20	mg/L	0.500	ND	54	19-140			
Matrix Spike Dup (0E29012-MSD1)				Source: C0D3709-14 Prepared & Analyzed: 05/29/20						
MBAS	0.219	0.20	mg/L	0.500	ND	44	19-140	21	30	



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Received on Ice (Y/N): Yes Temp: 6 °C

Nutrients - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29025 - Acid Digest										
LCS (0E29025-BS1)				Prepared & Analyzed: 05/29/20						
Total Phosphorus	0.536	0.05	mg/L	0.500		107	85-115			
Matrix Spike (0E29025-MS1)				Source: C0E2358-04 Prepared & Analyzed: 05/29/20						
Total Phosphorus	0.571	0.05	mg/L	0.500	0.0546	103	80-120			
Matrix Spike Dup (0E29025-MSD1)				Source: C0E2358-04 Prepared & Analyzed: 05/29/20						
Total Phosphorus	0.565	0.05	mg/L	0.500	0.0546	102	80-120	1	20	



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Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29031 - EPA 200.2										
Blank (0E29031-BLK1)				Prepared & Analyzed: 05/29/20						
Antimony	ND	10	ug/L							
Arsenic	ND	5.0	ug/L							
Barium	ND	20	ug/L							
Beryllium	ND	10	ug/L							
Cadmium	ND	2.0	ug/L							
Total Chromium	ND	20	ug/L							
Cobalt	ND	10	ug/L							
Copper	ND	10	ug/L							
Lead	ND	10	ug/L							
Manganese	ND	10	ug/L							
Mercury	ND	0.20	ug/L							
Molybdenum	ND	10	ug/L							
Nickel	ND	20	ug/L							
Selenium	ND	5.0	ug/L							
Silver	ND	10	ug/L							
Thallium	ND	200	ug/L							
Zinc	ND	10	ug/L							
Blank (0E29031-BLK2)				Prepared & Analyzed: 05/29/20						
Antimony	ND	10	ug/L							
Arsenic	ND	5.0	ug/L							
Barium	ND	20	ug/L							
Beryllium	ND	10	ug/L							
Cadmium	ND	2.0	ug/L							
Total Chromium	ND	20	ug/L							
Cobalt	ND	10	ug/L							
Copper	ND	10	ug/L							
Lead	ND	10	ug/L							
Manganese	ND	10	ug/L							
Mercury	ND	0.20	ug/L							
Molybdenum	ND	10	ug/L							
Nickel	ND	20	ug/L							
Selenium	ND	5.0	ug/L							
Silver	ND	10	ug/L							
Thallium	ND	200	ug/L							

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Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29031 - EPA 200.2										
Blank (0E29031-BLK2)				Prepared & Analyzed: 05/29/20						
Zinc	ND	10	ug/L							
LCS (0E29031-BS1)				Prepared & Analyzed: 05/29/20						
Antimony	344	10	ug/L	332		103	85-115			
Arsenic	340	5.0	ug/L	332		102	85-115			
Barium	340	20	ug/L	332		102	85-115			
Beryllium	330	10	ug/L	332		99	85-115			
Cadmium	336	2.0	ug/L	332		101	85-115			
Total Chromium	343	20	ug/L	332		103	85-115			
Cobalt	337	10	ug/L	332		101	85-115			
Copper	336	10	ug/L	332		101	85-115			
Lead	334	10	ug/L	332		100	85-115			
Manganese	340	10	ug/L	332		102	85-115			
Mercury	2.98	0.20	ug/L	2.79		107	85-115			
Molybdenum	389	10	ug/L	332		117	85-115			QLout
Nickel	333	20	ug/L	332		100	85-115			
Selenium	328	5.0	ug/L	332		99	85-115			
Silver	49.1	10	ug/L	50.1		98	85-115			
Thallium	336	200	ug/L	332		101	85-115			
Zinc	339	10	ug/L	332		102	85-115			
Matrix Spike (0E29031-MS1)				Source: C0D3709-06		Prepared & Analyzed: 05/29/20				
Antimony	339	20	ug/L	332	ND	102	70-130			
Arsenic	354	10	ug/L	332	4.97	105	70-130			
Barium	349	40	ug/L	332	4.26	104	70-130			
Beryllium	352	20	ug/L	332	ND	106	70-130			
Cadmium	343	4.0	ug/L	332	ND	103	70-130			
Total Chromium	363	40	ug/L	332	0.983	109	70-130			
Cobalt	358	20	ug/L	332	ND	108	70-130			
Copper	336	20	ug/L	332	ND	101	70-130			
Lead	338	20	ug/L	332	ND	102	70-130			
Manganese	356	20	ug/L	332	ND	107	70-130			
Mercury	2.96	0.40	ug/L	2.79	ND	106	70-130			
Molybdenum	355	20	ug/L	332	ND	107	70-130			
Nickel	348	40	ug/L	332	ND	105	70-130			
Selenium	340	10	ug/L	332	ND	102	70-130			

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Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29031 - EPA 200.2										
Matrix Spike (0E29031-MS1)		Source: C0D3709-06		Prepared & Analyzed: 05/29/20						
Silver	51.5	20	ug/L	50.1	ND	103	70-130			
Thallium	344	400	ug/L	332	ND	104	70-130			
Zinc	351	20	ug/L	332	ND	106	70-130			
Matrix Spike Dup (0E29031-MSD1)		Source: C0D3709-06		Prepared & Analyzed: 05/29/20						
Antimony	337	20	ug/L	332	ND	101	70-130	0.5	20	
Arsenic	347	10	ug/L	332	4.97	103	70-130	2	20	
Barium	341	40	ug/L	332	4.26	101	70-130	2	20	
Beryllium	338	20	ug/L	332	ND	102	70-130	4	20	
Cadmium	344	4.0	ug/L	332	ND	103	70-130	0.05	20	
Total Chromium	354	40	ug/L	332	0.983	106	70-130	2	20	
Cobalt	354	20	ug/L	332	ND	107	70-130	1	20	
Copper	339	20	ug/L	332	ND	102	70-130	0.9	20	
Lead	328	20	ug/L	332	ND	99	70-130	3	20	
Manganese	345	20	ug/L	332	ND	104	70-130	3	20	
Mercury	2.83	0.40	ug/L	2.79	ND	101	70-130	4	20	
Molybdenum	355	20	ug/L	332	ND	107	70-130	0.1	20	
Nickel	346	40	ug/L	332	ND	104	70-130	0.7	20	
Selenium	331	10	ug/L	332	ND	100	70-130	3	20	
Silver	50.9	20	ug/L	50.1	ND	102	70-130	1	20	
Thallium	344	400	ug/L	332	ND	103	70-130	0.01	20	
Zinc	345	20	ug/L	332	ND	104	70-130	2	20	
Batch 0E29050 - EPA 200.2										
Blank (0E29050-BLK1)		Prepared & Analyzed: 05/29/20								
Aluminum	ND	100	ug/L							
Iron	ND	50	ug/L							



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Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29050 - EPA 200.2										
Blank (0E29050-BLK2)				Prepared & Analyzed: 05/29/20						
Aluminum	ND	100	ug/L							
Iron	ND	50	ug/L							
LCS (0E29050-BS1)				Prepared & Analyzed: 05/29/20						
Aluminum	1140	100	ug/L	1170		97	85-115			
Iron	1240	50	ug/L	1170		106	85-115			
Matrix Spike (0E29050-MS1)				Source: C0D3709-06		Prepared & Analyzed: 05/29/20				
Aluminum	1400	100	ug/L	1170	245	99	70-130			
Iron	1290	50	ug/L	1170	5.88	110	70-130			
Matrix Spike Dup (0E29050-MSD1)				Source: C0D3709-06		Prepared & Analyzed: 05/29/20				
Aluminum	1370	100	ug/L	1170	245	96	70-130	2	20	
Iron	1250	50	ug/L	1170	5.88	107	70-130	3	20	
Batch 0F01103 - EPA 200.2										
Blank (0F01103-BLK1)				Prepared: 06/01/20 Analyzed: 06/02/20						
Vanadium	ND	10	ug/L							
Blank (0F01103-BLK2)				Prepared: 06/01/20 Analyzed: 06/02/20						
Vanadium	ND	10	ug/L							
LCS (0F01103-BS1)				Prepared: 06/01/20 Analyzed: 06/02/20						
Vanadium	350	10	ug/L	332		105	85-115			
Matrix Spike (0F01103-MS1)				Source: C0E2737-01		Prepared: 06/01/20 Analyzed: 06/02/20				
Vanadium	417	20	ug/L	332	61.1	107	70-130			



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Work Order Number: C0E1012
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Metals and Metalloids - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01103 - EPA 200.2										
Matrix Spike Dup (0F01103-MSD1)		Source: C0E2737-01			Prepared: 06/01/20		Analyzed: 06/02/20			
Vanadium	405	20	ug/L	332	61.1	103	70-130	3	20	



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 Received on Ice (Y/N): Yes Temp: 6 °C

Diesel Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29039 - Solvent Extraction										
Blank (0E29039-BLK1)				Prepared & Analyzed: 05/29/20						
DRO (C10-C28)	ND	5.0	mg/L							
ORO (C29-C44)	ND	5.0	mg/L							
Surrogate: o-Terphenyl	1.7		mg/L	2.14		78	49-114			
Surrogate: n-Triacontane	1.3		mg/L	3.14		40	10-122			
LCS (0E29039-BS1)				Prepared & Analyzed: 05/29/20						
DRO (C10-C28)	23.2	5.0	mg/L	28.6		81	45-122			
ORO (C29-C44)	24.9	5.0	mg/L	28.6		87	34-126			
Surrogate: o-Terphenyl	1.8		mg/L	2.14		83	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		44	10-122			
Matrix Spike (0E29039-MS1)				Source: C0D3709-02		Prepared & Analyzed: 05/29/20				
DRO (C10-C28)	23.2	5.0	mg/L	28.6	ND	81	23-133			
ORO (C29-C44)	25.3	5.0	mg/L	28.6	ND	88	22-118			
Surrogate: o-Terphenyl	1.8		mg/L	2.14		82	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		43	10-122			
Matrix Spike Dup (0E29039-MSD1)				Source: C0D3709-02		Prepared & Analyzed: 05/29/20				
DRO (C10-C28)	23.1	5.0	mg/L	28.6	ND	81	23-133	0.2	40	
ORO (C29-C44)	24.8	5.0	mg/L	28.6	ND	87	22-118	2	40	
Surrogate: o-Terphenyl	1.8		mg/L	2.14		83	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		43	10-122			
Batch 0F01108 - Solvent Extraction										
Blank (0F01108-BLK1)				Prepared & Analyzed: 06/01/20						
DRO (C10-C28)	ND	5.0	mg/L							
ORO (C29-C44)	ND	5.0	mg/L							
Surrogate: o-Terphenyl	1.8		mg/L	2.14		82	49-114			
Surrogate: n-Triacontane	1.3		mg/L	3.14		41	10-122			



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Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Diesel Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01108 - Solvent Extraction										
LCS (0F01108-BS1)				Prepared & Analyzed: 06/01/20						
DRO (C10-C28)	24.2	5.0	mg/L	28.6		85	45-122			
ORO (C29-C44)	23.9	5.0	mg/L	28.6		83	34-126			
Surrogate: o-Terphenyl	1.8		mg/L	2.14		84	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		44	10-122			
Matrix Spike (0F01108-MS1)				Source: C0D3709-06		Prepared & Analyzed: 06/01/20				
DRO (C10-C28)	24.1	5.0	mg/L	28.6	ND	84	23-133			
ORO (C29-C44)	24.2	5.0	mg/L	28.6	ND	85	22-118			
Surrogate: o-Terphenyl	1.9		mg/L	2.14		87	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		44	10-122			
Matrix Spike Dup (0F01108-MSD1)				Source: C0D3709-06		Prepared & Analyzed: 06/01/20				
DRO (C10-C28)	24.1	5.0	mg/L	28.6	ND	84	23-133	0.2	40	
ORO (C29-C44)	24.0	5.0	mg/L	28.6	ND	84	22-118	0.5	40	
Surrogate: o-Terphenyl	1.8		mg/L	2.14		84	49-114			
Surrogate: n-Triacontane	1.4		mg/L	3.14		44	10-122			



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 Received on Ice (Y/N): Yes Temp: 6 °C

Gasoline Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0E29042 - Purge and Trap										
Blank (0E29042-BLK1)				Prepared & Analyzed: 05/29/20						
Gasoline Range Organics	ND	0.050	mg/L							
Surrogate: a,a,a-Trifluorotoluene	0.42		mg/L	0.500		85	64-120			
LCS (0E29042-BS1)				Prepared & Analyzed: 05/29/20						
Gasoline Range Organics	2.27	0.050	mg/L	2.32		98	70-130			
Surrogate: a,a,a-Trifluorotoluene	0.46		mg/L	0.500		92	64-120			
LCS Dup (0E29042-BSD1)				Prepared & Analyzed: 05/29/20						
Gasoline Range Organics	2.14	0.050	mg/L	2.32		92	70-130	6	40	
Surrogate: a,a,a-Trifluorotoluene	0.48		mg/L	0.500		97	64-120			
Matrix Spike (0E29042-MS1)				Source: C0D3709-02		Prepared & Analyzed: 05/29/20				
Gasoline Range Organics	2.75	0.050	mg/L	2.50	ND	110	70-151			
Surrogate: a,a,a-Trifluorotoluene	0.46		mg/L	0.500		92	64-120			
Matrix Spike Dup (0E29042-MSD1)				Source: C0D3709-02		Prepared & Analyzed: 05/29/20				
Gasoline Range Organics	2.46	0.050	mg/L	2.50	ND	98	70-151	11	40	
Surrogate: a,a,a-Trifluorotoluene	0.49		mg/L	0.500		98	64-120			
Batch 0F01106 - Purge and Trap										
Blank (0F01106-BLK1)				Prepared & Analyzed: 06/01/20						
Gasoline Range Organics	ND	0.050	mg/L							
Surrogate: a,a,a-Trifluorotoluene	0.40		mg/L	0.500		81	64-120			
LCS (0F01106-BS1)				Prepared & Analyzed: 06/01/20						
Gasoline Range Organics	2.08	0.050	mg/L	2.32		90	70-130			
Surrogate: a,a,a-Trifluorotoluene	0.45		mg/L	0.500		89	64-120			



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Gasoline Range Organics by EPA 8015 - Batch Quality Control

Analyte(s)	Result	RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 0F01106 - Purge and Trap										
LCS Dup (0F01106-BSD1)				Prepared & Analyzed: 06/01/20						
Gasoline Range Organics	1.96	0.050	mg/L	2.32		85	70-130	6	40	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	0.46		mg/L	0.500		92	64-120			
Matrix Spike (0F01106-MS1)				Source: C0E1012-01		Prepared & Analyzed: 06/01/20				
Gasoline Range Organics	2.20	0.050	mg/L	2.50	ND	88	70-151			
Surrogate: <i>a,a,a-Trifluorotoluene</i>	0.44		mg/L	0.500		88	64-120			
Matrix Spike Dup (0F01106-MSD1)				Source: C0E1012-01		Prepared & Analyzed: 06/01/20				
Gasoline Range Organics	2.31	0.050	mg/L	2.50	ND	92	70-151	5	40	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	0.46		mg/L	0.500		92	64-120			



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Client Name: ECORP Consulting, Inc.
Contact: Todd Chapman
Address: 2861 Pullman Street
Santa Ana, CA 92705

Analytical Report: Page 45 of 49
Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
Received on Ice (Y/N): Yes Temp: 6 °C

Notes and Definitions

pH: Regulatory 15 minute holding time exceeded C0E1012-01
pH: Regulatory 15 minute holding time exceeded C0E1012-02
pH: Regulatory 15 minute holding time exceeded C0E1012-03
pH: Regulatory 15 minute holding time exceeded C0E1012-04
pH: Regulatory 15 minute holding time exceeded C0E1012-05
pH: Regulatory 15 minute holding time exceeded C0E1012-06
pH: Regulatory 15 minute holding time exceeded C0E1012-07
pH: Regulatory 15 minute holding time exceeded C0E1012-09

N_HTa Sample analyzed outside of the EPA recommended holding time.

N_HTp Analysis requested near or past holding time. Sample analyzed outside of the EPA recommended holding time.

N_HTr Sample received past regulatory holding time.

NLOhND LCS recovery was above method control limit for this analyte. Analyte not detected, therefore data not impacted.

QLout The LCS and/or LCSD recovery did not meet laboratory acceptance criteria.

Qraw Based on raw data excluding numerical rounding, QC recovery was within laboratory acceptance criteria.

ND: Analyte NOT DETECTED at or above the Method Detection Limit (**if MDL is reported**), otherwise at or above the Reportable Detection Limit (RDL)

NR: Not Reported

RDL: Reportable Detection Limit

MDL: Method Detection Limit

* / (Non-NELAP): NELAP does not offer accreditation for this analyte/method/matrix combination



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Approval

Enclosed are the analytical results for the submitted sample(s). Babcock Laboratories certify the data presented as part of this report meet the minimum quality standards in the referenced analytical methods. Any exceptions have been noted.

Cindy A. Waddell

cc:

e-Standard_No Alias.rpt

This report applies only to the sample(s) analyzed. As a mutual protection to clients, the public, and Babcock Laboratories, Inc., this report is submitted and accepted for the exclusive use of the Client to whom it is addressed. Interpretation and use of the information contained within this report are the sole responsibility of the Client. Babcock Laboratories, Inc. is not responsible for any misinformation or consequences that may result from misinterpretation or improper use of this report. This report is not to be modified or abbreviated in any way. Additionally, this report is not to be used, in whole or in part, in any advertising or publicity matter without written authorization from Babcock Laboratories, Inc. The liability of Babcock Laboratories, Inc. is limited to the actual cost of the requested analyses, unless otherwise agreed upon in writing. There is no other warranty expressed or implied.

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EPA No. CA00102
NELAP No. OR4035
LACSD No. 10119



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Project Name: Whitewater Project 2020
Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: **C0E1012**
Received on Ice (Y/N): Yes Temp: 6 °C

Sampler Information		Turn Around Time		By		Additional Reporting Requests									
Name	Employer	Routine	*72 Hour Rush	*48 Hour Rush	*24 Hour Rush	Include GC Data Package	Include GC Data Package								
Name: <u>Todd Chapman</u>	Employer: <u>ECORP Consulting, Inc.</u>					☐ Yes ☐ No	☐ Yes ☐ No								
Signature: <u>Todd P.</u>						☐ Yes ☐ No	☐ Yes ☐ No								
Sample ID	Date	Time	Unpreserved	H ₂ SO ₄	HCl	HNO ₃	NaOH	NaOH/Zn Acetate	NaOH	POC	Total # of Containers	Routine	Analysis Requested	Matrix	Notes
Pond 1	3/12/20										5				
Pond 2	3/12/20										5				
Pond 3	3/12/20										5				
Pond 12	3/12/20										5				
Pond 14	3/12/20										5				
Pond 19	3/12/20										5				
Background	3/12/20										5				
UPSTREAM WASH	3/12/20										5				
Sediment Mound	3/12/20										5				
Relinquished By (sign)	Print Name / Company	Date / Time	Received By (sign)	Print Name / Company											
<u>Todd P.</u>	<u>Todd Chapman/ECORP</u>	<u>3/12/20 19:15</u>	<u>C. J. G.</u>	<u>Chapman/Babcock</u>											

By signing on behalf of your organization and relinquishing this chain of custody you agree to abide by the Babcock Laboratories, Inc. Terms and Conditions.

(For Lab Use Only) Sample Integrity Upon Receipt/Acceptance Criteria

Sample(s) Submitted on Ice?	Yes ☒ No ☐	Sample meets laboratory acceptance criteria?	Yes ☒ No ☐
Custody Seal(s) Intact?	Yes ☒ No ☐	Permission to continue:	Yes ☒ No ☐
Sample(s) Intact?	Yes ☒ No ☐	Deviation/Notes:	
Temperature: <u>16</u> °C	☐ Cooler Blank	Signature/Date:	

C0E1012

Rcd: 05/08/2020 11:05

AG



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Analytical Report: Page 48 of 49
 Project Name: Whitewater Project 2020
 Project Number: Whitewater River

Report Date: 09-Jun-2020

Work Order Number: C0E1012
 Received on Ice (Y/N): Yes Temp: 6 °C

Project Information

Printed: 04/30/2020 1:25 pm

ECORP Consulting, Inc.
 2861 Pullman Street
 Santa Ana, CA 92705
 Laboratory PM: Cindy A. Waddell

8303

Phone: (714) 648-0630
 Fax: (714) 648-0935

Project Name: Whitewater Project 2020
Project Number: Soil Composites 2020
Client PM: Todd Chapman
Comments: Special Handling = Compositing samples at lab. Waste Extraction (WET) using DI water.
Invoice To: ECORP Consulting, Inc.
Invoice Bid: Soil Composites 2020
Invoice Manager: Todd Chapman

Analysis	Comment
Hardness Total-WW	
Fluoride	
FE_ICP_WW	
FE_ICP_SW	
EC	
8015-TPH-DRO/ORO	
8015-TPH-G	
AL_ICP_SW	
AL_ICP_WW	
CI	
CA_ICP_WW	
Metals CA17-SW	
Alkalinity	
K_ICP_WW	
SO4	
Solids-Total Diss	
Phos-Total	
TOC	
WET	
Special Handling	
NA_ICP_WW	
Metals CA17-WW	
MG_ICP_WW	
MN_ICPMS_SW	
MN_ICPMS_WW	
MBAS	
NO3-N	
pH	
Metals CA17-SW subanalyses:	
CD_ICPMS_SW	
Hg_CVAA_SW	
CU_ICPMS_SW	
CR_ICPMS_SW	
CO_ICPMS_SW	
AG_ICPMS_SW	
AS_ICPMS_SW	
BA_ICPMS_SW	
BE_ICPMS_SW	
TL_ICPMS_SW	
SE_ICPMS_SW	
SB_ICPMS_SW	





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Project Information
(Continued)

Printed: 04/30/2020 1:25 pm

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Laboratory PM: Cindy A. Waddell

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Phone: (714) 648-0630
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Project Name: Whitewater Project 2020	Invoice To: ECORP Consulting, Inc.
Project Number: Soil Composites 2020	Invoice Bid: Soil Composites 2020
Client PM: Todd Chapman	Invoice Manager: Todd Chapman
Comments: Special Handling = Compositing samples at lab. Waste Extraction (WET) using DI water.	

Analysis	Comment
----------	---------

TAD

V_ICPMS_SW

ZN_ICPMS_SW

NI_ICPMS_SW

PB_ICPMS_SW

MO_ICPMS_SW

Metals CA17-WW subanalyses:

Hg_ICPMS_WW

Cu_ICPMS_WW

Cr_ICPMS_WW

Co_ICPMS_WW

As_ICPMS_WW

Ag_ICPMS_WW

CD_ICPMS_WW

BA_ICPMS_WW

BE_ICPMS_WW

SE_ICPMS_WW

TL_ICPMS_WW

V_ICPMS_WW

ZN_ICPMS_WW

SB_ICPMS_WW

MO_ICPMS_WW

NI_ICPMS_WW

PB_ICPMS_WW

C0E1012

Rc'd: 05/08/2020 11:05

AG

