Thursday, March 18, 2021

Jeremy Pike
WSP USA, Inc.
4600 West 60th Avenue
Arvada, CO 80003

Re: ALS Workorder: 2103093
Project Name:
Project Number: TE034520047, Task 1.00

Dear Mr. Pike:

One water sample was received from WSP USA, Inc., on 3/3/2021. The sample was scheduled for the following analyses:

Dissolved Gasses
GC/MS Volatiles
Inorganics
Metals
Total Extractable Petroleum Hydrocarbons (Diesel)

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental
Katie M. OBrien
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO010992018-1
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	TN02976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280

40 CFR Part 136: All analyses for Clean Water Act samples are analyzed using the 40 CFR Part 136 specified method and include all the QC requirements.

2103093

GC/MS Volatiles:
The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C. The sample was also analyzed for Gasoline Range Organics (GRO).

All acceptance criteria were met.

Dissolved Gasses:
The sample was prepared and analyzed according to method RSK-175 procedures and the current revision of SOP 449.

All acceptance criteria were met.

DRO:
The sample was analyzed following the current revision of SOP 406 generally based on SW-846 Methods 8000C and 8015D. TEPH is a multicomponent mixture and is quantitated by summing the entire carbon range, rather than individual peaks. The carbon range integrated in this test extends from C10 to C28.

All acceptance criteria were met.

Metals:
The sample was analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by ICPMS followed method 200.8 and the current revision of SOP 827.

All acceptance criteria were met.

Inorganics:
The sample was analyzed following EMSL and Standard Method procedures for the current revisions of the following SOPs and methods:

Analyte	Method	SOP #
Alkalinity	SM2320B	1106
Bicarbonate	SM2320B	1106
Carbonate	SM2320B	1106
TDS	SM2540C	1101
Chloride	300.0 Revision 2.1	1113

Sulfate	300.0 Revision 2.1	1113

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2103093
Client Name: WSP USA, Inc.
Client Project Name:
Client Project Number: TE034520047, Task 1.00
Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
State Pronghorn W42-29-30 XRL	2103093-1		WATER	03-Mar-21	14:30

ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 203093

		SAMPLER	Drew Bullinger	DATE	3/3/21	PAGE	1 of 1
PROJECT NAME		SITE ID		TURNAROUND		DISPOSAL	By Lab or Return to Client
PROJECT No.	TE034520047, Task 1.00	EDD FORMAT	COGCC EDD and PDF				
		PURCHASE ORDER					
COMPANY NAME	WSP USA, INC.	BILL TO COMPANY					
SEND REPORT TO	Jeremy Pike	INVOICE ATTN TO					
ADDRESS	4600 West 60th Avenue	ADDRESS					
CITY / STATE / ZIP	Arvada, Coloardo, 80003	CITY / STATE / ZIP					
PHONE	303-433-9788	PHONE					
FAX		FAX					
E-MAIL	jeremy.pike@wsp.com, chris.roy@wsp.com Regulatory@Bonanzacrk.com	E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	RSK 175 - Dissolved methane/ethane/propane	GBTEX	TPH-DRO	Alkalinity, Carbonate, bicarbonate, total	Total anions (Cl, SO4, TDS)	Total Cations (K, Ca, Na, Mg)
1	State Ploughboy W42-2930XRLNB(449042)	W	3/3/21	14:30	11	1/2		X	X	X	X	X	X

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

For metals or anions, please detail analytes below.

3.8°C

Comments:	QC PACKAGE (check below)	
		LEVEL II (Standard QC)
		LEVEL III (Std QC + forms)
		LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Drew Bullinger	Drew Bullinger	3/3/21	17:00
RECEIVED BY		Tyler Mosser	3/3/21	1700
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID: WSP Workorder No: 2103093

Project Manager: KMO Initials: TEM Date: 3/4/21

1. Are airbills / shipping documents present and/or removable?	☑ Drop Off	☐ YES	☐ NO	
2. Are custody seals on **shipping** containers intact?	☑ NONE	☐ YES	☐ NO*	
3. Are custody seals on **sample** containers intact?	☑ NONE	☐ YES	☐ NO*	
4. Is there a COC (chain-of-custody) present?		☑ YES	☐ NO*	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		☑ YES	☐ NO*	
6. Are short-hold samples present?		☐ YES	☑ NO	
7. Are all samples within holding times for the requested analyses?		☑ YES	☐ NO*	
8. Were all sample containers received intact? (not broken or leaking)		☑ YES	☐ NO*	
9. Is there sufficient sample for the requested analyses?		☑ YES	☐ NO*	
10. Are samples in proper containers for requested analyses? (form 250, *Sample Handling Guidelines*)		☑ YES	☐ NO*	
11. Are all aqueous samples preserved correctly, if required?	☐ N/A	☐ YES	☑ NO*	
12. Were unpreserved samples pH checked, if required?	☑ N/A	☐ YES	☐ NO	
13. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm in diameter?	☐ N/A	☑ YES	☐ NO	
14. Were the samples shipped on ice?		☑ YES	☐ NO	
15. Were cooler temperatures measured at 0.1 - 6.0°C? IR gun used*: #3 (#5)	☐ Rad Only	☑ YES	☐ NO	

Cooler #: 1

Temperature (°C): 3.8

# of custody seals on cooler: 0

External uR/hr reading: -

Background uR/hr reading: 10

Were external mR/hr readings ≤ two times background and within DOT acceptance criteria? (If no, see Form 008) ☑ N/A ☐ YES ☐ NO

* Please provide details below for 'NO' responses in gray boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

11.) 093-1-2 read initial pH of 11; added 2.0mL HNO3 (lot# 234822) to achieve pH<2.0

All client bottle ID's vs ALS lab ID's double-checked by: TEM

If applicable, was the client contacted? ☐ YES ☐ NO Contact Name: Date:

Project Manager Signature / Date: 3/4/21

Form 201r30.xls
(06/04/2020)

+IR Gun #3, VWR SN 170647571
+IR Gun #5, VWR SN 192272629

Client: WSP USA, Inc. **Date:** *18-Mar-21*
Project: TE034520047, Task 1.00 **Work Order:** 2103093
Sample ID: State Pronghorn W42-29-30 XRLNB (449002) **Lab ID:** 2103093-1
Legal Location: **Matrix:** WATER
Collection Date: 3/3/2021 14:30 **Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		**SM2320B**			Prep Date: **3/10/2021**	PrepBy: **LMC**
TOTAL ALKALINITY AS CaCO3	**4200**		**100**	**MG/L**	1	3/10/2021
BICARBONATE AS CaCO3	ND		100	MG/L	1	3/10/2021
CARBONATE AS CaCO3	**690**		**100**	**MG/L**	1	3/10/2021
Diesel Range Organics		**SW8015M**			Prep Date: **3/5/2021**	PrepBy: **ASZ**
Diesel Range Organics	**4.2**		**1**	**MG/L**	1	3/8/2021 19:12
Surr: O-TERPHENYL	*88*		*69-120*	*%REC*	1	3/8/2021 19:12
Dissolved Gasses		**RSK175**			Prep Date: **3/4/2021**	PrepBy: **ASZ**
METHANE	**200**		**1**	**UG/L**	1	3/4/2021 13:53
ETHANE	**32**		**2**	**UG/L**	1	3/4/2021 13:53
PROPANE	**16**		**1**	**UG/L**	1	3/4/2021 13:53
GC/MS Volatiles		**SW8260_25**			Prep Date: **3/17/2021**	PrepBy: **TWK**
BENZENE	**14**		**1**	**UG/L**	1	3/17/2021 08:54
TOLUENE	**29**		**1**	**UG/L**	1	3/17/2021 08:54
ETHYLBENZENE	**9.6**		**1**	**UG/L**	1	3/17/2021 08:54
M+P-XYLENE	**36**		**1**	**UG/L**	1	3/17/2021 08:54
O-XYLENE	**22**		**1**	**UG/L**	1	3/17/2021 08:54
TOTAL XYLENES	**57**		**1**	**UG/L**	1	3/17/2021 08:54
Surr: 4-BROMOFLUOROBENZENE	*95*		*80-120*	*%REC*	1	3/17/2021 08:54
Surr: DIBROMOFLUOROMETHANE	*98*		*80-120*	*%REC*	1	3/17/2021 08:54
Surr: TOLUENE-D8	*97*		*80-120*	*%REC*	1	3/17/2021 08:54
GASOLINE RANGE ORGANICS	**740**		**100**	**UG/L**	1	3/17/2021 08:54
Ion Chromatography		**EPA300.0**			Prep Date: **3/8/2021**	PrepBy: **KJS**
CHLORIDE	**6000**		**100**	**MG/L**	500	3/8/2021 16:43
SULFATE	**110**		**100**	**MG/L**	100	3/8/2021 12:43
Total Recoverable Metals by 200.8		**EPA200.8**			Prep Date: **3/5/2021**	PrepBy: **TXS**
CALCIUM	**240**		**1**	**MG/L**	10	3/8/2021 16:01
MAGNESIUM	ND		0.1	MG/L	10	3/8/2021 16:01
POTASSIUM	**5200**		**10**	**MG/L**	100	3/8/2021 16:04
SODIUM	**1800**		**1**	**MG/L**	10	3/8/2021 16:01
Total Dissolved Solids		**SM2540C**			Prep Date: **3/9/2021**	PrepBy: **LMC**
TOTAL DISSOLVED SOLIDS	**6900**		**1000**	**MG/L**	1	3/11/2021

Client:	WSP USA, Inc.	**Date:**	*18-Mar-21*
Project:	TE034520047, Task 1.00	**Work Order:**	2103093
Sample ID:	State Pronghorn W42-29-30 XRLNB (449002)	**Lab ID:**	2103093-1
Legal Location:		**Matrix:**	WATER
Collection Date:	3/3/2021 14:30	**Percent Moisture:**	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed

Explanation of Qualifiers

Radiochemistry:

- "Report Limit" is the MDC

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

W - DER is greater than Warning Limit of 1.42

* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.

- Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.

G - Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

P - LCS, Matrix Spike Recovery within control limits.

N - Matrix Spike Recovery outside control limits

NC - Not Calculated for duplicate results less than 5 times MDC

B - Analyte concentration greater than MDC.

B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

X - The analyte was diluted below an accurate quantitation level.

* - The spike recovery is equal to or outside the control criteria used.

+ - The relative percent difference (RPD) equals or exceeds the control criteria.

G - A pattern resembling gasoline was detected in this sample.

D - A pattern resembling diesel was detected in this sample.

M - A pattern resembling motor oil was detected in this sample.

C - A pattern resembling crude oil was detected in this sample.

4 - A pattern resembling JP-4 was detected in this sample.

5 - A pattern resembling JP-5 was detected in this sample.

H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.

L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.

Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

QC BATCH REPORT

Batch ID: **HC210304-92-1** Instrument ID: **MEE-1** Method: **RSK175**

LCS Sample ID: **HC210304-92** Units: **UG/L** Analysis Date: **3/4/2021 11:32**

Client ID: Run ID: **HC210304-91B** Prep Date: **3/4/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	144	1	142		102	76-125				25	
ETHANE	264	2	267		99	70-120				25	
PROPANE	386	1	391		99	72-120				25	

LCSD Sample ID: **HC210304-92** Units: **UG/L** Analysis Date: **3/4/2021 14:05**

Client ID: Run ID: **HC210304-91B** Prep Date: **3/4/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	145	1	142		102	76-125		144	0	25	
ETHANE	264	2	267		99	70-120		264	0	25	
PROPANE	386	1	391		99	72-120		386	0	25	

MB Sample ID: **HC210304-92** Units: **UG/L** Analysis Date: **3/4/2021 12:58**

Client ID: Run ID: **HC210304-91B** Prep Date: **3/4/2021** DF: **1**

Analyte	Result	ReportLimit	Qual
METHANE	ND	1	
ETHANE	ND	2	
PROPANE	ND	1	

MS Sample ID: **2103093-1** Units: **UG/L** Analysis Date: **3/4/2021 14:02**

Client ID: **State Pronghorn W42-29-30 XRLNB (449002)** Run ID: **HC210304-91B** Prep Date: **3/4/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	261	1	71.1	200	91	76-125				25	
ETHANE	187	2	133	32	117	70-120				25	
PROPANE	247	1	196	16	118	72-120				25	

The following samples were analyzed in this batch: 2103093-1

QC BATCH REPORT

Batch ID: **HC210305-81-1** Instrument ID: **FUELS-1** Method: **SW8015M**

LCS Sample ID: **HC210305-81** Units: **MG/L** Analysis Date: **3/8/2021 10:58**

Client ID: Run ID: **HC210305-81A** Prep Date: **3/5/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Diesel Range Organics	6.96	1.07	8.33		84	53-120				20	
Surr: O-TERPHENYL	1.56		1.67		94	69-120					

LCSD Sample ID: **HC210305-81** Units: **MG/L** Analysis Date: **3/8/2021 11:19**

Client ID: Run ID: **HC210305-81A** Prep Date: **3/5/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Diesel Range Organics	7.04	1.07	8.33		84	53-120		6.96	1	20	
Surr: O-TERPHENYL	1.59		1.67		95	69-120			2		

MB Sample ID: **HC210305-81** Units: **MG/L** Analysis Date: **3/8/2021 10:36**

Client ID: Run ID: **HC210305-81A** Prep Date: **3/5/2021** DF: **1**

Analyte	Result	ReportLimit	%REC	Control Limit	Qual
Diesel Range Organics	ND	1.1			
Surr: O-TERPHENYL	1.53		92	69-120	

The following samples were analyzed in this batch: 2103093-1

QC BATCH REPORT

Batch ID: **IP210305-3-1** Instrument ID: **ICPMS2** Method: **EPA200.8**

LCS Sample ID: **IM210305-3** Units: **MG/L** Analysis Date: **3/8/2021 15:19**
Client ID: Run ID: **IM210308-10A9** Prep Date: **3/5/2021** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CALCIUM	9.65	1	10		96	85-115				20	
MAGNESIUM	9.7	0.1	10		97	85-115				20	
POTASSIUM	4.91	1	5		98	85-115				20	
SODIUM	10.7	1	10		107	85-115				20	

LCSD Sample ID: **IM210305-3** Units: **MG/L** Analysis Date: **3/8/2021 15:25**
Client ID: Run ID: **IM210308-10A9** Prep Date: **3/5/2021** DF: **10**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CALCIUM	9.94	1	10		99	85-115		9.65	3	20	
MAGNESIUM	9.38	0.1	10		94	85-115		9.7	3	20	
POTASSIUM	5.02	1	5		100	85-115		4.91	2	20	
SODIUM	10.7	1	10		107	85-115		10.7	0	20	

MB Sample ID: **IP210305-3** Units: **MG/L** Analysis Date: **3/8/2021 15:16**
Client ID: Run ID: **IM210308-10A9** Prep Date: **3/5/2021** DF: **10**

Analyte	Result	ReportLimit	Qual
CALCIUM	ND	1	
MAGNESIUM	ND	0.1	
POTASSIUM	ND	1	
SODIUM	ND	1	

The following samples were analyzed in this batch: 2103093-1

QC BATCH REPORT

Batch ID: **VL210317-4-1** Instrument ID: **HPV4** Method: **SW8260_25**

LCS Sample ID: **VL210317-44** Units: **UG/L** Analysis Date: **3/17/2021 02:07**
Client ID: Run ID: **VL210317-4A** Prep Date: **3/17/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1000	100	1000		100	75-121				20	

LCSD Sample ID: **VL210317-44** Units: **UG/L** Analysis Date: **3/17/2021 02:27**
Client ID: Run ID: **VL210317-4A** Prep Date: **3/17/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1010	100	1000		101	75-121		1000	1	20	

MB Sample ID: **VL210317-4** Units: **UG/L** Analysis Date: **3/17/2021 03:06**
Client ID: Run ID: **VL210317-4A** Prep Date: **3/17/2021** DF: **1**

Analyte	Result	ReportLimit	Qual
GASOLINE RANGE ORGANICS	ND	100	

The following samples were analyzed in this batch: 2103093-1

Batch ID: **VL210317-4-2** Instrument ID: **HPV4** Method: **SW8260_25**

LCS Sample ID: **VL210317-4** Units: **%REC** Analysis Date: **3/17/2021 01:29**

Client ID: Run ID: **VL210317-4A** Prep Date: **3/17/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.3		25		97	80-120					
Surr: DIBROMOFLUOROMETHANE	25.1		25		100	80-120					
Surr: TOLUENE-D8	24.6		25		98	80-120					
BENZENE	9.3	1	10		93	80-120				20	
TOLUENE	9.05	1	10		90	80-120				20	
ETHYLBENZENE	9.17	1	10		92	80-120				20	
M+P-XYLENE	18.8	1	20		94	80-120				20	
O-XYLENE	9.28	1	10		93	80-120				20	

LCSD Sample ID: **VL210317-4** Units: **%REC** Analysis Date: **3/17/2021 01:48**

Client ID: Run ID: **VL210317-4A** Prep Date: **3/17/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.3		25		97	80-120			0		
Surr: DIBROMOFLUOROMETHANE	25.4		25		102	80-120			1		
Surr: TOLUENE-D8	24.7		25		99	80-120			0		
BENZENE	9.31	1	10		93	80-120		9.3	0	20	
TOLUENE	9.09	1	10		91	80-120		9.05	1	20	
ETHYLBENZENE	9.1	1	10		91	80-120		9.17	1	20	
M+P-XYLENE	18.7	1	20		93	80-120		18.8	1	20	
O-XYLENE	9.27	1	10		93	80-120		9.28	0	20	

MB Sample ID: **VL210317-4** Units: **%REC** Analysis Date: **3/17/2021 03:06**

Client ID: Run ID: **VL210317-4A** Prep Date: **3/17/2021** DF: **1**

Analyte	Result	ReportLimit	%REC	Control Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.4		106	80-120	
Surr: DIBROMOFLUOROMETHANE	24.8		99	80-120	
Surr: TOLUENE-D8	24.9		100	80-120	
BENZENE	ND	1			
TOLUENE	ND	1			
ETHYLBENZENE	ND	1			
M+P-XYLENE	ND	1			
O-XYLENE	ND	1			
TOTAL XYLENES	ND	1			

The following samples were analyzed in this batch: 2103093-1

QC BATCH REPORT

Batch ID: **AK210310-1-2** Instrument ID: **NONE** Method: **SM2320B**

LCS Sample ID: **AK210310-1** Units: **MG/L** Analysis Date: **3/10/2021**

Client ID: Run ID: **AK210310-1A1** Prep Date: **3/10/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	97.1	5	100		97	85-115				15	

MB Sample ID: **AK210310-1** Units: **MG/L** Analysis Date: **3/10/2021**

Client ID: Run ID: **AK210310-1A1** Prep Date: **3/10/2021** DF: **1**

Analyte	Result	ReportLimit	Qual
TOTAL ALKALINITY AS CaCO3	ND	5	
BICARBONATE AS CaCO3	ND	5	
CARBONATE AS CaCO3	ND	5	

The following samples were analyzed in this batch: 2103093-1

QC BATCH REPORT

Batch ID: **IC210308-1-1** Instrument ID: **IC3** Method: **EPA300.0**

LCS Sample ID: **IC210308-1** Units: **MG/L** Analysis Date: **3/8/2021 09:23**
Client ID: Run ID: **IC210308-1a1** Prep Date: **3/8/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CHLORIDE	10.2	0.2	10		102	90-110				15	
SULFATE	51.1	1	50		102	90-110				15	

LCSD Sample ID: **IC210308-1** Units: **MG/L** Analysis Date: **3/8/2021 12:02**
Client ID: Run ID: **IC210308-1a1** Prep Date: **3/8/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CHLORIDE	10.2	0.2	10		102	90-110		10.2	0	15	
SULFATE	51	1	50		102	90-110		51.1	0	15	

MB Sample ID: **IC210308-1** Units: **MG/L** Analysis Date: **3/8/2021 09:37**
Client ID: Run ID: **IC210308-1a1** Prep Date: **3/8/2021** DF: **1**

Analyte	Result	ReportLimit	Qual
CHLORIDE	ND	0.2	
SULFATE	ND	1	

The following samples were analyzed in this batch: 2103093-1

QC BATCH REPORT

Batch ID: **TD210309-1-2** Instrument ID: **Balance** Method: **SM2540C**

LCS Sample ID: **TD210309-1** Units: **MG/L** Analysis Date: **3/11/2021**
Client ID: Run ID: **TD210311-1A1** Prep Date: **3/9/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	403	20	400		101	85-115				14	

LCSD Sample ID: **TD210309-1** Units: **MG/L** Analysis Date: **3/11/2021**
Client ID: Run ID: **TD210311-1A1** Prep Date: **3/9/2021** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	389	20	400		97	85-115		403	4	14	

MB Sample ID: **TD210309-1** Units: **MG/L** Analysis Date: **3/11/2021**
Client ID: Run ID: **TD210311-1A1** Prep Date: **3/9/2021** DF: **1**

Analyte	Result	ReportLimit	Qual
TOTAL DISSOLVED SOLIDS	ND	20	

The following samples were analyzed in this batch: 2103093-1