



Monday, May 23, 2022

Jeff Braden  
WSP USA, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003

Re: ALS Workorder: 2205087  
Project Name: J Clark 7N  
Project Number: 31403904.84

Dear Mr. Braden:

One water sample was received from WSP USA, Inc., on 5/5/2022. 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,

For

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
Arizona	AZ0828
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
Oklahoma	1301
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
Virginia	460305

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.



## 2205087

### **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:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
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

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**OrderNum:** 2205087

**Client Name:** WSP USA, Inc.

**Client Project Name:** J Clark 7N

**Client Project Number:** 31403904.84

**Client PO Number:**

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
J Clark 7N	2205087-1		WATER	04-May-22	13:10





**ALS Environmental - Fort Collins**  
**CONDITION OF SAMPLE UPON RECEIPT FORM**

Client: WSP Workorder No: 2205087  
 Project Manager: KMO Initials: cxt Date: 5/5/2022

		N/A	YES	NO
1.	Are airbills / shipping documents present and/or removable?	X		
	Tracking number:			
2.	Are custody seals on shipping containers intact?	X		
3.	Are custody seals on sample containers intact?	X		
4.	Is there a COC (chain-of-custody) present?		X	
5.	Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)		X	
6.	Are short-hold samples present?		X	
7.	Are all samples within holding times for the requested analyses?			X
8.	Were all sample containers received intact? (not broken or leaking)		X	
9.	Is there sufficient sample for the requested analyses?		X	
10.	Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i> )		X	
11.	Are all aqueous samples preserved correctly, if required? (excluding volatiles)		X	
12.	Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)			X
13.	Were the samples shipped on ice?		X	
14.	Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*:	#5	
		RAD ONLY	X	
Cooler #: <u>1</u> Temperature (°C): <u>2.4</u> # of custody seals on cooler: <u>0</u> External µR/hr reading: <u>NA</u> Background µR/hr reading: <u>11</u> Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>NA</u>				

\* Please provide details here for NO responses to boxes above - for 2 thru 5 & 7 thru 12, notify PM & continue w/ login.

**Sample 1 bottles 4,5,6,7,9 received with headspace**

Were unpreserved bottles pH checked? NA All client bottle ID's vs ALS lab ID's double-checked by ct

If applicable, was the client contacted? YES / NO / NA Contact: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager Signature / Date: [Signature] 5/06/22

Client: WSP USA, Inc.  
 Project: 31403904.84 J Clark 7N  
 Sample ID: J Clark 7N  
 Legal Location:  
 Collection Date: 5/4/2022 13:10

Date: 23-May-22  
 Work Order: 2205087  
 Lab ID: 2205087-1  
 Matrix: WATER  
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Alkalinity as Calcium Carbonate</b>			<b>SM2320B</b>		Prep Date: <b>5/9/2022</b>	PrepBy: <b>KRL</b>
TOTAL ALKALINITY AS CaCO3	640		20	MG/L	1	5/9/2022
BICARBONATE AS CaCO3	ND		20	MG/L	1	5/9/2022
CARBONATE AS CaCO3	570		20	MG/L	1	5/9/2022
<b>Diesel Range Organics</b>			<b>SW8015M</b>		Prep Date: <b>5/11/2022</b>	PrepBy: <b>JRS</b>
Diesel Range Organics	350		50	MG/L	50	5/13/2022 15:34
Surr: O-TERPHENYL	107		69-120	%REC	50	5/13/2022 15:34
<b>Dissolved Gasses</b>			<b>RSK175</b>		Prep Date: <b>5/16/2022</b>	PrepBy: <b>JRS</b>
METHANE	15000		10	UG/L	10	5/17/2022 14:38
ETHANE	9200		20	UG/L	10	5/17/2022 14:38
PROPANE	10000		10	UG/L	10	5/17/2022 14:38
<b>GC/MS Volatiles</b>			<b>SW8260_25</b>		Prep Date: <b>5/17/2022</b>	PrepBy: <b>TWK</b>
BENZENE	8500		500	UG/L	500	5/17/2022 23:34
TOLUENE	14000		500	UG/L	500	5/17/2022 23:34
ETHYLBENZENE	550		500	UG/L	500	5/17/2022 23:34
M+P-XYLENE	5700		500	UG/L	500	5/17/2022 23:34
O-XYLENE	1500		500	UG/L	500	5/17/2022 23:34
TOTAL XYLENES	7100		1	UG/L	1	5/17/2022 23:34
Surr: 4-BROMOFLUOROBENZENE	100		80-120	%REC	500	5/17/2022 23:34
Surr: DIBROMOFLUOROMETHANE	104		80-120	%REC	500	5/17/2022 23:34
Surr: TOLUENE-D8	97		80-120	%REC	500	5/17/2022 23:34
<b>GASOLINE RANGE ORGANICS</b>	<b>91000</b>		<b>50000</b>	<b>UG/L</b>	500	5/17/2022 23:34
<b>Ion Chromatography</b>			<b>EPA300.0</b>		Prep Date: <b>5/11/2022</b>	PrepBy: <b>AOW</b>
CHLORIDE	500		5	MG/L	25	5/11/2022 10:56
SULFATE	560		25	MG/L	25	5/11/2022 10:56
<b>Total Recoverable Metals by 200.8</b>			<b>EPA200.8</b>		Prep Date: <b>5/11/2022</b>	PrepBy: <b>ETC</b>
CALCIUM	250		10	MG/L	10	5/12/2022 13:15
MAGNESIUM	ND		1	MG/L	10	5/12/2022 13:15
POTASSIUM	200		10	MG/L	10	5/12/2022 13:15
SODIUM	800		10	MG/L	10	5/12/2022 13:15
<b>Total Dissolved Solids</b>			<b>SM2540C</b>		Prep Date: <b>5/9/2022</b>	PrepBy: <b>KRL</b>
TOTAL DISSOLVED SOLIDS	3000		80	MG/L	1	5/12/2022

**Client:** WSP USA, Inc.  
**Project:** 31403904.84 J Clark 7N  
**Sample ID:** J Clark 7N  
**Legal Location:**  
**Collection Date:** 5/4/2022 13:10

**Date:** 23-May-22  
**Work Order:** 2205087  
**Lab ID:** 2205087-1  
**Matrix:** WATER  
**Percent Moisture:**

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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**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

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Date: 5/23/2022 9:50:1

Client: WSP USA, Inc.

QC BATCH REPORT

Work Order: 2205087

Project: 31403904.84 J Clark 7N

Batch ID: HC220511-81-1

Instrument ID: FUELS-1

Method: SW8015M

LCS		Sample ID: HC220511-81			Units: MG/L		Analysis Date: 5/12/2022 21:39				
Client ID:		Run ID: HC220513-81A			Prep Date: 5/11/2022		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	9.17	1.07	8.33		110	53-120				20	
Surr: O-TERPHENYL	1.68		1.67		101	69-120					

LCSD		Sample ID: HC220511-81			Units: MG/L		Analysis Date: 5/12/2022 22:00				
Client ID:		Run ID: HC220513-81A			Prep Date: 5/11/2022		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	9.09	1.07	8.33		109	53-120		9.17	1	20	
Surr: O-TERPHENYL	1.68		1.67		101	69-120			0		

MB		Sample ID: HC220511-81			Units: MG/L		Analysis Date: 5/12/2022 19:53					
Client ID:		Run ID: HC220513-81A			Prep Date: 5/11/2022		DF: 1					
Analyte	Result	ReportLimit										Qual
Diesel Range Organics	ND	1.1										
Surr: O-TERPHENYL	1.48				89	69-120						

The following samples were analyzed in this batch:

Client: WSP USA, Inc.  
 Work Order: 2205087  
 Project: 31403904.84 J Clark 7N

# QC BATCH REPORT

Batch ID: **HC220516-91-1** Instrument ID: **MEE-1** Method: **RSK175**

LCS		Sample ID: <b>HC220516-91</b>			Units: <b>UG/L</b>		Analysis Date: <b>5/17/2022 14:31</b>				
Client ID:		Run ID: <b>HC220517-91A</b>			Prep Date: <b>5/16/2022</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	152	1	142		107	76-125				25	
ETHANE	289	2	267		108	70-120				25	
PROPANE	429	1	391		110	72-120				25	

LCSD		Sample ID: <b>HC220516-91</b>			Units: <b>UG/L</b>		Analysis Date: <b>5/17/2022 15:27</b>				
Client ID:		Run ID: <b>HC220517-91A</b>			Prep Date: <b>5/16/2022</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	138	1	142		97	76-125		152	10	25	
ETHANE	260	2	267		97	70-120		289	11	25	
PROPANE	386	1	391		99	72-120		429	11	25	

MB		Sample ID: <b>HC220516-91</b>			Units: <b>UG/L</b>		Analysis Date: <b>5/17/2022 11:46</b>					
Client ID:		Run ID: <b>HC220517-91A</b>			Prep Date: <b>5/16/2022</b>		DF: <b>1</b>					
Analyte	Result	ReportLimit										Qual
METHANE	ND	1										
ETHANE	ND	2										
PROPANE	ND	1										

The following samples were analyzed in this batch:

Client: WSP USA, Inc.  
 Work Order: 2205087  
 Project: 31403904.84 J Clark 7N

# QC BATCH REPORT

Batch ID: IP220511-2-1 Instrument ID: ICPMS2 Method: EPA200.8

LCS		Sample ID: IM220511-2			Units: MG/L		Analysis Date: 5/12/2022 12:54				
Client ID:		Run ID: IM220512-10A10			Prep Date: 5/11/2022		DF: 10				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CALCIUM	10.5	1	10		105	85-115				20	
MAGNESIUM	9.75	0.1	10		98	85-115				20	
POTASSIUM	4.99	1	5		100	85-115				20	
SODIUM	10.4	1	10		104	85-115				20	

LCSD		Sample ID: IM220511-2			Units: MG/L		Analysis Date: 5/12/2022 13:00				
Client ID:		Run ID: IM220512-10A10			Prep Date: 5/11/2022		DF: 10				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CALCIUM	10.2	1	10		102	85-115		10.5	3	20	
MAGNESIUM	9.92	0.1	10		99	85-115		9.75	2	20	
POTASSIUM	4.94	1	5		99	85-115		4.99	1	20	
SODIUM	10.3	1	10		103	85-115		10.4	1	20	

MB		Sample ID: IP220511-2			Units: MG/L		Analysis Date: 5/12/2022 12:45					
Client ID:		Run ID: IM220512-10A10			Prep Date: 5/11/2022		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:

Client: WSP USA, Inc.  
 Work Order: 2205087  
 Project: 31403904.84 J Clark 7N

# QC BATCH REPORT

Batch ID: VL220517-3-1 Instrument ID: HPV3 Method: SW8260\_25

LCS		Sample ID: VL220517-3	Units: UG/L				Analysis Date: 5/17/2022 18:48				
Client ID:		Run ID: VL220517-3A			Prep Date: 5/17/2022		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	1120	100	1000		112	75-121				20	

LCSD		Sample ID: VL220517-3	Units: UG/L				Analysis Date: 5/17/2022 21:58				
Client ID:		Run ID: VL220517-3A			Prep Date: 5/17/2022		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	1070	100	1000		107	75-121		1120	4	20	

MB		Sample ID: VL220517-33	Units: UG/L				Analysis Date: 5/17/2022 20:19				
Client ID:		Run ID: VL220517-3A			Prep Date: 5/17/2022		DF: 1				
Analyte	Result	ReportLimit	Qual								
GASOLINE RANGE ORGANICS	ND	100									

The following samples were analyzed in this batch:

Client: WSP USA, Inc.  
 Work Order: 2205087  
 Project: 31403904.84 J Clark 7N

# QC BATCH REPORT

Batch ID: VL220517-3-2 Instrument ID: HPV3 Method: SW8260\_25

LCS		Sample ID: VL220517-33			Units: %REC		Analysis Date: 5/17/2022 19:34				
Client ID:		Run ID: VL220517-3A			Prep Date: 5/17/2022		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	24.4		25		98	80-120					
Surr: DIBROMOFLUOROMETHANE	25.8		25		103	80-120					
Surr: TOLUENE-D8	24.4		25		97	80-120					
BENZENE	9.74	1	10		97	80-120				20	
TOLUENE	9.57	1	10		96	80-120				20	
ETHYLBENZENE	9.47	1	10		95	80-120				20	
M+P-XYLENE	18.2	1	20		91	80-120				20	
O-XYLENE	9.55	1	10		95	80-120				20	

LCSD		Sample ID: VL220517-33			Units: %REC		Analysis Date: 5/17/2022 19:56				
Client ID:		Run ID: VL220517-3A			Prep Date: 5/17/2022		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	24.9		25		99	80-120			2		
Surr: DIBROMOFLUOROMETHANE	26.1		25		105	80-120			1		
Surr: TOLUENE-D8	24.6		25		98	80-120			1		
BENZENE	10.1	1	10		101	80-120		9.74	3	20	
TOLUENE	9.8	1	10		98	80-120		9.57	2	20	
ETHYLBENZENE	9.68	1	10		97	80-120		9.47	2	20	
M+P-XYLENE	18.8	1	20		94	80-120		18.2	3	20	
O-XYLENE	9.73	1	10		97	80-120		9.55	2	20	

MB		Sample ID: VL220517-33			Units: %REC		Analysis Date: 5/17/2022 20:19				
Client ID:		Run ID: VL220517-3A			Prep Date: 5/17/2022		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	25		25		100	80-120					
Surr: DIBROMOFLUOROMETHANE	26.2		25		105	80-120					
Surr: TOLUENE-D8	24.8		25		99	80-120					
BENZENE	ND	1	10								
TOLUENE	ND	1	10								
ETHYLBENZENE	ND	1	10								
M+P-XYLENE	ND	1	20								
O-XYLENE	ND	1	10								
TOTAL XYLENES	ND	1	20								

The following samples were analyzed in this batch:

**Client:** WSP USA, Inc.  
**Work Order:** 2205087  
**Project:** 31403904.84 J Clark 7N

## QC BATCH REPORT

Batch ID: **AK220509-1-2**      Instrument ID: **NONE**      Method: **SM2320B**

<b>LCS</b>	Sample ID: <b>AK220509-1</b>	Units: <b>MG/L</b>	Analysis Date: <b>5/9/2022</b>								
Client ID:	Run ID: <b>AK220509-1A1</b>	Prep Date: <b>5/9/2022</b>	DF: <b>1</b>								
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	101	5	100		101	85-115				15	

<b>MB</b>	Sample ID: <b>AK220509-1</b>	Units: <b>MG/L</b>	Analysis Date: <b>5/9/2022</b>
Client ID:	Run ID: <b>AK220509-1A1</b>	Prep Date: <b>5/9/2022</b>	DF: <b>1</b>
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:** 2205087-1

Client: WSP USA, Inc.  
 Work Order: 2205087  
 Project: 31403904.84 J Clark 7N

# QC BATCH REPORT

Batch ID: IC220511-1-1 Instrument ID: IC3 Method: EPA300.0

LCS		Sample ID: IC220511-1			Units: MG/L		Analysis Date: 5/11/2022 10:01				
Client ID:		Run ID: IC220511-1A1			Prep Date: 5/11/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CHLORIDE	10.1	0.2	10		101	90-110				15	
SULFATE	50.4	1	50		101	90-110				15	

LCSD		Sample ID: IC220511-1			Units: MG/L		Analysis Date: 5/11/2022 11:14				
Client ID:		Run ID: IC220511-1A1			Prep Date: 5/11/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CHLORIDE	9.97	0.2	10		100	90-110		10.1	1	15	
SULFATE	49.7	1	50		99	90-110		50.4	1	15	

MB		Sample ID: IC220511-1			Units: MG/L		Analysis Date: 5/11/2022 10:07					
Client ID:		Run ID: IC220511-1A1			Prep Date: 5/11/2022		DF: 1					
Analyte	Result	ReportLimit										Qual
CHLORIDE	ND	0.2										
SULFATE	ND	1										

The following samples were analyzed in this batch:

**Client:** WSP USA, Inc.  
**Work Order:** 2205087  
**Project:** 31403904.84 J Clark 7N

## QC BATCH REPORT

Batch ID: **TD220509-1-1**      Instrument ID: **Balance**      Method: **SM2540C**

LCS	Sample ID: <b>TD220509-1</b>						Units: <b>MG/L</b>	Analysis Date: <b>5/12/2022</b>			
Client ID:		Run ID: <b>TD220512-1A1</b>			Prep Date: <b>5/9/2022</b>			DF: <b>1</b>			
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: <b>TD220509-1</b>						Units: <b>MG/L</b>	Analysis Date: <b>5/12/2022</b>			
Client ID:		Run ID: <b>TD220512-1A1</b>			Prep Date: <b>5/9/2022</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	405	20	400		101	85-115		403	0	14	

MB	Sample ID: <b>TD220509-1</b>						Units: <b>MG/L</b>	Analysis Date: <b>5/12/2022</b>				
Client ID:		Run ID: <b>TD220512-1A1</b>			Prep Date: <b>5/9/2022</b>			DF: <b>1</b>				
Analyte	Result	ReportLimit										Qual
TOTAL DISSOLVED SOLIDS	ND	20										

**The following samples were analyzed in this batch:**