



Thursday, October 03, 2019

Karen Waters-Husted  
CH2M HILL Plateau Remediation Company  
825 Jadwin Avenue  
Richland, WA 99352

Re: ALS Workorder: 1909123  
Project Name: SURV, September 2019  
Project Number: S19-009

Dear Ms. Waters-Husted:

One water sample was received from CH2M HILL Plateau Remediation Company, on 9/7/2019. The sample was scheduled for the following analysis:

Inorganics

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 method employed.

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

Sincerely,

ALS Environmental  
Katie M. O'Brien  
Project Manager

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

<b>SAMPLE ISSUE RESOLUTION (SIR) REPORT</b>		<b>SIR Number:</b> SIR19-0845 <b>Rev. Number:</b> 0 <b>Date Initiated:</b> 09/06/2019
<b><u>SAMPLE EVENT INFORMATION</u></b>		
<b>SAF NUM(S):</b>	S19-009	
<b>LABORATORY:</b>	ALS	
<b><u>SAMPLING INFORMATION</u></b>		
<b>NUMBER OF SAMPLES:</b>	1	
<b>SAMPLE NUMBERS:</b>	B3R839	
<b>SAMPLE MATRIX:</b>	WATER	
<b>SDG NUM(S):</b>	ALS1909123	
<b><u>ISSUE BACKGROUND</u></b>		
<b>CLASS:</b>	Laboratory Issue	
<b>TYPE:</b>	Analysis Holding Time Exceeded	
<b>DESCRIPTION:</b>	Our IC is down. Any samples submitted this week have not been analyzed yet. The computer attached to the instrument is what is having the issue- it is not communicating with the instrument. Our IT department has been working on correcting the problem. At this point, they are calling in the instrument manufacturer.	
<b><u>RESOLUTION</u></b>		
<b>PROPOSED RESOLUTION:</b>	Do you want me to subcontract the samples?	
<b>FINAL RESOLUTION:</b>	Please proceed to analyze the anions samples out of hold.  Note: ALS confirmed their IC instrument was functional on 09/10/19.	
<b>SUBMITTED BY:</b>		
O'BRIEN, KATIE	09/11/2019	
<b>ACCEPTED BY:</b>		
CUTSFORTH, EC	09/11/2019	

# ALS -- Fort Collins

## Sample Number(s) Cross-Reference Table

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**OrderNum:** 1909123

**Client Name:** CH2M HILL Plateau Remediation Company

**Client Project Name:** SURV, September 2019

**Client Project Number:** S19-009

**Client PO Number:** BOA 54854

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
B3R839	1909123-1		WATER	06-Sep-19	8:55

<b>CH2MHill Plateau Remediation Company</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b> <b>1909123</b>		C.O.C.# <b>S19-009-016</b> Page 1 of 1
<b>Collector:</b> Dan King CHPRC		<b>Contact/Requester:</b> Karen Waters-Husted Telephone No.: 509-376-4650		
<b>SAF No.:</b> S19-009		<b>Sampling Origin:</b> Hanford Site Purchase Order/Charge Code: 300071		
<b>Project Title:</b> SURV, September 2019		<b>Logbook No.:</b> HNF-N-506-110-52 Ice Chest No.: <b>FGUS-725</b>		
<b>Shipped To (Lab):</b> ALS Environmental Ft. Collins		<b>Method of Shipment:</b> Commercial Carrier Bill of Lading/Air Bill No.: <b>776176021466</b>		
<b>Protocol:</b> CERCLA		<b>Priority:</b> 30 Days Offsite Property No.: <b>11545</b>		
<b>POSSIBLE SAMPLE HAZARDS/REMARK</b> ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1		<b>SPECIAL INSTRUCTIONS</b> Low Volume Wells. Do not use for QC.		
<b>Sample No.</b> B3R839	<b>Filter</b> * N	<b>Date</b> 9-6-19	<b>Time</b> 0855	<b>No/Type Container</b> 1x60-mL P
<b>Sample Analysis</b>		<b>Holding Time</b> 48 Hours		<b>Preservative</b> Cool <=6C
300.0_ANIONS_IC: COMMON; 300.0_ANIONS_IC: GW 02				

Relinquished By		Received By		Matrix *
Print First and Last Name	Signature	Print First and Last Name	Signature	
Dan King CHPRC		Jeff Lucas CHPRC		S = Soil SE = Sediment SO = Solid SL = Sludge W = Water O = Oil A = Air
SEP 06 2019	SEP 06 2019	FEDEX	FEDEX	T = Tissue WI = Wipe L = Liquid V = Vegetation X = Other
SEP 06 2019	SEP 06 2019	EMILY LYONS	EMILY LYONS	
<b>FINAL SAMPLE DISPOSITION</b>		<b>Disposal Method (e.g., Return to customer, per lab procedure, used in process):</b>		<b>Date/Time:</b>



ALS Environmental - Fort Collins  
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: CHPRC

Workorder No: 1909123

Project Manager: KMO

Initials: Em

Date: 09.07.19

1. Are airbills / shipping documents present and/or removable?		DROP OFF:	<input checked="" type="radio"/> YES	<input type="radio"/> NO			
2. Are custody seals on shipping containers intact?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
3. Are custody seals on sample containers intact?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
4. Is there a COC (chain-of-custody) present?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
6. Are short-hold samples present?			<input checked="" type="radio"/> YES	<input type="radio"/> NO			
7. Are all samples within holding times for the requested analyses?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
8. Were all sample containers received intact? (not broken or leaking)			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
9. Is there sufficient sample for the requested analyses?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
10. Are all samples in the proper containers for the requested analyses?			<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)		<input checked="" type="radio"/> N/A	<input checked="" type="radio"/> YES	<input type="radio"/> NO * <u>9/9/19</u>			
12. Are all aqueous non-preserved samples pH 4-9?		<input type="radio"/> N/A	<input checked="" type="radio"/> YES	<input type="radio"/> NO *			
13. 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)		<input checked="" type="radio"/> N/A	<input type="radio"/> YES	<input type="radio"/> NO			
14. Were the samples shipped on ice?			<input checked="" type="radio"/> YES	<input type="radio"/> NO			
15. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*:	#1	<input checked="" type="radio"/> #3	#4	RAD ONLY	<input checked="" type="radio"/> YES	<input type="radio"/> NO
Cooler #: <u>11545</u>							
Temperature (°C): <u>2.5</u>							
No. of custody seals on cooler: <u>2</u>							
External µR/hr reading: <u>11</u>							
Background µR/hr reading: <u>13</u>							
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / NA (If no, see Form 008.)							

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

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

Project Manager Signature / Date: [Signature] 9/9/19

1909123

ORIGIN ID:SSCA (500) 531-0450  
TROY BACON  
CH2M  
6287 LATPAH ST.  
RICHLAND, WA 99352  
UNITED STATES US

SHIP DATE: 06SEP19  
ACTWTG: 65.00 LB  
CAD: 107066905/IN/ET/4160

11545

BILL THIRD PARTY

TO JULIE ELLINGSON  
ALS GLOBAL-FORT COLLINS  
225 COMMERCE DR

11:2

FORT COLLINS CO 80524  
(970) 480-1511 REF: PTR811545  
NV DEPT:

2.5

567J1B004.05A2

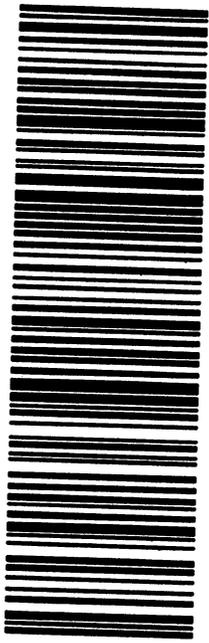


TRK# 7761 7602 1466  
0201

SATURDAY 12:00P  
PRIORITY OVERNIGHT

X0 FTCA

DSR 80524  
CO-US DEN



**After printing this label:**

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# Inorganics

## Case Narrative

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### CH2M HILL Plateau Remediation Company

SURV, September 2019 -- S19-009

Work Order Number: 1909123

1. The sample was prepared for analysis based on Environmental Monitoring Systems Laboratory (EMSL) Rev 2.1 procedures.
2. The sample was analyzed following EMSL procedures for the current revisions of the following SOPs and methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Bromide	300.0 Revision 2.1	1113
Chloride	300.0 Revision 2.1	1113
Fluoride	300.0 Revision 2.1	1113
Nitrate as N	300.0 Revision 2.1	1113
Nitrite as N	300.0 Revision 2.1	1113
Orthophosphate as P	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

3. All standards and solutions were used within their recommended shelf life.
4. The sample was prepared and analyzed within the established hold time for this analysis except Nitrate as N, Nitrite as N and Orthophosphate which were analyzed outside of hold time.

All in house quality control procedures were followed, as described below.

5. General quality control procedures.
  - A preparation (method) blank, laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) were prepared and analyzed with the sample in this preparation batch.
  - The method blank associated with this batch was below the reporting limit for the requested analytes. Sample results have been compared to the blank results and are



flagged as appropriate. Nitrite as N and orthophosphate as P were detected above the MDL.

- All laboratory control sample criteria were met.
- All initial and continuing calibration blanks were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.

6. Matrix specific quality control procedures.

Sample 1909066-3 was designated as the quality control sample for this analysis. Results for the shared quality control samples from the batch are included at the client's request.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- A matrix spike (MS) was prepared and analyzed with this batch. All guidance criteria for precision and accuracy were met with the following exception:

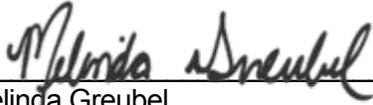
<u>Analyte</u>	<u>Sample ID</u>
Orthophosphate as P	1909066-3MS

The native sample result is flagged for orthophosphate as P. The laboratory control sample indicates that the procedure was in control.

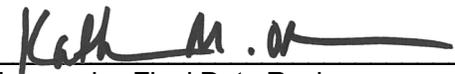
- Due to a CCB failure on 9/10/19 for sulfate, the samples were reanalyzed with acceptable CCB's, but the MS was not reanalyzed.
7. It is a standard practice that samples for CHPRC on the ion chromatograph are analyzed at a dilution. The 2X factor can be considered an artifact of the prep and does not indicate a secondary dilution and is therefore not flagged as a dilution.
8. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in the current revision of SOP 939.



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.

  
\_\_\_\_\_  
Melinda Greubel  
Inorganics Primary Data Reviewer

10/3/19  
Date

  
\_\_\_\_\_  
Kath M. W.  
Inorganics Final Data Reviewer

10/3/19  
Date



### Inorganic Data Reporting Qualifiers

The following qualifiers are used as needed by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- A "B" is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to ALS's Method Detection Limit. If the analyte was analyzed for but not detected a "U" is entered.
- QC qualifier -- Specified entries and their meanings are as follows:
  - 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.
  - C - The analyte was detected in both the sample and the associated QC blank, and the sample concentration was  $\leq 20X$  the blank concentration.
  - D - Analyte was reported at a secondary dilution factor, typically  $DF > 1$  (i.e., the primary preparation required dilution to either bring the analyte within the calibration range or to minimize interference). Required for organics/wetchem if the sample was diluted.

# Ion Chromatography

## Method EPA300.0 Revision 2.1

### Sample Results

Lab Name: ALS -- Fort Collins

Work Order Number: 1909123

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: SURV, September 2019 S19-009

Field ID:	B3R839
Lab ID:	1909123-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 06-Sep-19

Date Extracted: 10-Sep-19

Date Analyzed: 11-Sep-19

Prep Method: NONE

Prep Batch: IC190910-1

QCBatchID: IC190910-1-1

Run ID: IC190910-1A4

Cleanup: NONE

Basis: As Received

File Name: 190910IC3LIMS

Analyst: Lainey M. Lloyd

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Result Qualifier	Reporting Limit	MDL
16984-48-8	FLUORIDE AnalysisTime: 06:30	2	0.06	U	0.2	0.06
16887-00-6	CHLORIDE AnalysisTime: 06:30	2	6.2		0.4	0.12
14797-65-0	NITRITE AS N AnalysisTime: 06:30	2	0.27	C	0.2	0.06
24959-67-9	BROMIDE AnalysisTime: 06:30	2	0.12	U	0.4	0.12
14797-55-8	NITRATE AS N AnalysisTime: 06:30	2	2.6		0.4	0.12
14265-44-2	ORTHOPHOSPHATE AS P AnalysisTime: 06:30	2	3.1	C	1	0.3
14808-79-8	SULFATE AnalysisTime: 06:30	2	17		2	0.6

Data Package ID: IC1909123-1

Date Printed: Thursday, October 03, 2019

ALS -- Fort Collins

Page 1 of 1

LIMS Version: 6.912

# Ion Chromatography

## Method EPA300.0 Revision 2.1

### Method Blank

Lab Name: ALS -- Fort Collins

Work Order Number: 1909123

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: SURV, September 2019 S19-009

Lab ID: IC190910-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 10-Sep-19

Date Analyzed: 11-Sep-19

Prep Batch: IC190910-1

QCBatchID: IC190910-1-1

Run ID: IC190910-1A4

Cleanup: NONE

Basis: N/A

File Name: 190910IC3LIMS

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Result Qualifier	Reporting Limit	MDL
16984-48-8	FLUORIDE	1	0.03	U	0.1	0.03
16887-00-6	CHLORIDE	1	0.06	U	0.2	0.06
14797-65-0	NITRITE AS N	1	0.044	B	0.1	0.03
24959-67-9	BROMIDE	1	0.06	U	0.2	0.06
14797-55-8	NITRATE AS N	1	0.06	U	0.2	0.06
14265-44-2	ORTHOPHOSPHATE AS P	1	0.25	B	0.5	0.15
14808-79-8	SULFATE	1	0.3	U	1	0.3

Data Package ID: IC1909123-1

# Ion Chromatography

## Method EPA300.0 Revision 2.1

### Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS -- Fort Collins

Work Order Number: 1909123

Client Name: CH2M HILL Plateau Remediation Company

ClientProject ID: SURV, September 2019 S19-009

Lab ID: IC190910-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 09/10/2019

Date Analyzed: 09/11/2019

Prep Method: NONE

Prep Batch: IC190910-1

QCBatchID: IC190910-1-1

Run ID: IC190910-1A4

Cleanup: NONE

Basis: N/A

File Name: 190910IC3LIMS

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
16984-48-8	FLUORIDE	5	5.05	0.1		101	90 - 110%
16887-00-6	CHLORIDE	10	9.98	0.2		100	90 - 110%
14797-65-0	NITRITE AS N	5	4.97	0.1		101	90 - 110%
24959-67-9	BROMIDE	10	10.1	0.2		101	90 - 110%
14797-55-8	NITRATE AS N	10	9.87	0.2		99	90 - 110%
14265-44-2	ORTHOPHOSPHATE AS P	10	10.6	0.5		106	90 - 110%
14808-79-8	SULFATE	50	50.1	1		100	90 - 110%

Lab ID: IC190910-1LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 09/10/2019

Date Analyzed: 09/11/2019

Prep Method: NONE

Prep Batch: IC190910-1

QCBatchID: IC190910-1-1

Run ID: IC190910-1A4

Cleanup: NONE

Basis: N/A

File Name: 190910IC3LIMS

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
16984-48-8	FLUORIDE	5	4.74	0.1		95	15	6
16887-00-6	CHLORIDE	10	9.29	0.2		93	15	7
14797-65-0	NITRITE AS N	5	5.14	0.1		103	15	3
24959-67-9	BROMIDE	10	9.44	0.2		94	15	7
14797-55-8	NITRATE AS N	10	9.17	0.2		92	15	7
14265-44-2	ORTHOPHOSPHATE AS P	10	10.2	0.5		102	15	3
14808-79-8	SULFATE	50	46.8	1		94	15	7

Data Package ID: IC1909123-1

# Ion Chromatography

## Method EPA300.0 Revision 2.1

### Matrix Spike

**Lab Name:** ALS -- Fort Collins

**Work Order Number:** 1909123

**Client Name:** CH2M HILL Plateau Remediation Company

**ClientProject ID:** SURV, September 2019 S19-009

<b>Field ID:</b>	SHARED QC
<b>LabID:</b>	1909066-3MS

**Sample Matrix:** WATER

**% Moisture:** N/A

**Date Collected:** 04-Sep-19

**Date Extracted:** 10-Sep-19

**Date Analyzed:** 11-Sep-19

**Prep Batch:** IC190910-1

**QCBatchID:** IC190910-1-1

**Run ID:** IC190910-1A4

**Cleanup:** NONE

**Basis:** As Received

**Sample Aliquot:** 5 ml

**Final Volume:** 5 ml

**Result Units:** MG/L

**File Name:** 190910IC3LIMS

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
16984-48-8	FLUORIDE	0.2	U	3.9		0.2	4	97	85 - 115%
16887-00-6	CHLORIDE	0.16	B	9.65		0.4	10	95	85 - 115%
14797-65-0	NITRITE AS N	0.12	BC	3.93		0.2	4	95	85 - 115%
24959-67-9	BROMIDE	0.4	U	9.65		0.4	10	96	85 - 115%
14797-55-8	NITRATE AS N	0.4	U	9.52		0.4	10	95	85 - 115%
14265-44-2	ORTHOPHOSPHATE AS P	1	U	4.91	N	1	4	123	85 - 115%

**Data Package ID:** IC1909123-1

**Date Printed:** Thursday, October 03, 2019

**ALS -- Fort Collins**

Page 1 of 1

LIMS Version: 6.912

Prep Batch ID: IC190910-1

Start Date: 09/10/19	End Date: 09/10/19	Concentration Method: NONE	Batch Created By: kjs
Start Time: 15:00	End Time: 15:25	Extract Method: NONE	Date Created: 09/10/19
Prep Analyst: Keli J. Smith		Initial Volume Units: ml	Time Created: 15:25
<u>Comments:</u>		Final Volume Units: ml	Validated By: lml
			Date Validated: 09/16/19
			Time Validated: 11:01

QC Batch ID: IC190910-1-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IC190910-1	MB	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909066
IC190910-1	LCS	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909066
IC190910-1	LCSD	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909066
1909066-3	MS	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909066
1909050-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909050
1909065-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909065
1909065-2	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909065
1909065-3	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909065
1909065-4	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909065
1909066-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909066
1909066-2	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909066
1909066-3	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909066
1909123-1	SMP	B3R839	WATER	9/6/2019	5	5	NONE	1	1909123
1909146-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909146
1909146-2	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909146
1909146-3	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909146
1909146-4	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909146
1909146-5	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909146
1909147-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909147
1909147-2	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909147
1909148-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909148
1909148-2	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909148
1909172-1	SMP	XXXXXX	WATER	XXXXXX	5	5	NONE	1	1909172

**Prep Batch ID: IC190910-1**

<b>Start Date:</b> 09/10/19	<b>End Date:</b> 09/10/19	<b>Concentration Method:</b> NONE	<b>Batch Created By:</b> kjs
<b>Start Time:</b> 15:00	<b>End Time:</b> 15:25	<b>Extract Method:</b> NONE	<b>Date Created:</b> 09/10/19
<b>Prep Analyst:</b> Keli J. Smith		<b>Initial Volume Units:</b> ml	<b>Time Created:</b> 15:25
<b>Comments:</b>		<b>Final Volume Units:</b> ml	<b>Validated By:</b> lml
<div style="border: 1px solid black; height: 30px; width: 100%;"></div>			<b>Date Validated:</b> 09/16/19
			<b>Time Validated:</b> 11:01

**QC Types**

CAR	Carrier reference sample	DLS	Detection Limit Standard
DUP	Laboratory Duplicate	LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicat	LODV	Limit of Detection Verification
LOQV	Limit of Quantitation Verification	MB	Method Blank
MS	Laboratory Matrix Spike	MSD	Laboratory Matrix Spike Duplicate
REP	Sample replicate	RVS	Reporting Level Verification Standar
SMP	Field Sample	SYS	Sample Yield Spike