



Thursday, August 25, 2022

Randy Evans
Randy Evans
328 South Overland Tr.
Fort Collins, CO 80521

Re: ALS Workorder: 2208010
Project Name: WPWT Facility
Project Number:

Dear Mr. Evans:

Five water samples were received from Randy Evans, on 8/1/2022. The samples were scheduled for the following analyses:

Inorganics

Metals

TDS - Subcontracted to ALS MI

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. O'Brien
Project Manager

	<h1>Accreditations</h1>	Effective June 7, 2022
	ALS Environmental – Fort Collins	

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
Louisiana	197538
Maryland (MD)	285
PJLA (DoD ELAP/ISO 170250)	95377
PJLA (DOE-AP/ISO 17025)	95377
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.



2208010

Metals:

The samples were analyzed following SW-846, 3rd Edition procedures. Analysis by Trace ICP followed method 6010D and the current revision of SOP 834.

All acceptance criteria were met.

Inorganics:

The samples were analyzed following EMSL procedures for the current revision of the following SOP and method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Chloride	300.0 Revision 2.1	1113
Fluoride	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: 2208010

Client Name: Randy Evans

Client Project Name: WPWT Facility

Client Project Number:

Client PO Number: WO 032

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Outfall 050A	2208010-1		WATER	01-Aug-22	11:15
Outfall 050B	2208010-2		WATER	01-Aug-22	14:55
Outfall 050C	2208010-3		WATER	01-Aug-22	13:40
Outfall 050D	2208010-4		WATER	01-Aug-22	12:30
Outfall 050E	2208010-5		WATER	01-Aug-22	10:05



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: RANDY EVANS Workorder No: 2208010
 Project Manager: KMO Initials: AXK Date: 08/01/2022

				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, Sample Handling Guidelines)					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*: #6	RAD ONLY	X
Cooler #: <u>1</u>						
Temperature (°C): <u>5.8</u>						
# of custody seals on cooler: <u>0</u>						
External µR/hr reading: <u>-</u>						
Background µR/hr reading: <u>11</u>						
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>NA</u> (If no, see Form 008.)						

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

Spoke with client and just running the bottles that we received. No rad or VOA

Were unpreserved bottles pH checked? NA

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

If applicable, was the client contacted? YES / NO / NA Contact: Margaret G. O'Brien Date/Time: 8/02/22

Project Manager Signature / Date: _____

Client: Randy Evans
Project: WPWT Facility
Sample ID: Outfall 050A
Legal Location:
Collection Date: 8/1/2022 11:15

Date: 24-Aug-22
Work Order: 2208010
Lab ID: 2208010-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Total Recoverable ICP Metals			SW6010		Prep Date: 8/17/2022	PrepBy: ETC
BORON	0.21		0.1	MG/L	1	8/23/2022 15:58
BARIUM	0.41		0.1	MG/L	1	8/23/2022 15:58
SODIUM	49		1	MG/L	1	8/23/2022 15:58
Ion Chromatography			EPA300.0		Prep Date: 8/8/2022	PrepBy: AOW
CHLORIDE	22		2	MG/L	10	8/8/2022 12:27
FLUORIDE	ND		2.6	MG/L	10	8/8/2022 12:27
SULFATE	850		10	MG/L	10	8/8/2022 12:27

Client: Randy Evans
Project: WPWT Facility
Sample ID: Outfall 050B
Legal Location:
Collection Date: 8/1/2022 14:55

Date: 24-Aug-22
Work Order: 2208010
Lab ID: 2208010-2
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Total Recoverable ICP Metals			SW6010		Prep Date: 8/17/2022	PrepBy: ETC
BORON	0.72		0.1	MG/L	1	8/23/2022 15:59
BARIUM	0.71		0.1	MG/L	1	8/23/2022 15:59
SODIUM	190		1	MG/L	1	8/23/2022 15:59
Ion Chromatography			EPA300.0		Prep Date: 8/8/2022	PrepBy: AOW
CHLORIDE	120		5	MG/L	25	8/8/2022 12:33
FLUORIDE	ND		6.4	MG/L	25	8/8/2022 12:33
SULFATE	400		25	MG/L	25	8/8/2022 12:33

Client: Randy Evans
Project: WPWT Facility
Sample ID: Outfall 050C
Legal Location:
Collection Date: 8/1/2022 13:40

Date: 24-Aug-22
Work Order: 2208010
Lab ID: 2208010-3
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Total Recoverable ICP Metals			SW6010		Prep Date: 8/17/2022	PrepBy: ETC
BORON	0.23		0.1	MG/L	1	8/23/2022 16:00
BARIUM	0.28		0.1	MG/L	1	8/23/2022 16:00
SODIUM	56		1	MG/L	1	8/23/2022 16:00
Ion Chromatography			EPA300.0		Prep Date: 8/8/2022	PrepBy: AOW
CHLORIDE	41		4	MG/L	20	8/8/2022 12:45
FLUORIDE	ND		5.2	MG/L	20	8/8/2022 12:45
SULFATE	660		20	MG/L	20	8/8/2022 12:45

Client: Randy Evans
Project: WPWT Facility
Sample ID: Outfall 050D
Legal Location:
Collection Date: 8/1/2022 12:30

Date: 24-Aug-22
Work Order: 2208010
Lab ID: 2208010-4
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Total Recoverable ICP Metals			SW6010		Prep Date: 8/17/2022	PrepBy: ETC
BORON	0.17		0.1	MG/L	1	8/23/2022 16:01
BARIUM	ND		0.1	MG/L	1	8/23/2022 16:01
SODIUM	35		1	MG/L	1	8/23/2022 16:01
Ion Chromatography			EPA300.0		Prep Date: 8/8/2022	PrepBy: AOW
CHLORIDE	16		4	MG/L	20	8/8/2022 12:51
FLUORIDE	ND		5.2	MG/L	20	8/8/2022 12:51
SULFATE	680		20	MG/L	20	8/8/2022 12:51

Client: Randy Evans
Project: WPWT Facility
Sample ID: Outfall 050E
Legal Location:
Collection Date: 8/1/2022 10:05

Date: 24-Aug-22
Work Order: 2208010
Lab ID: 2208010-5
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Total Recoverable ICP Metals			SW6010		Prep Date: 8/17/2022	PrepBy: ETC
BORON	0.15		0.1	MG/L	1	8/23/2022 16:02
BARIUM	ND		0.1	MG/L	1	8/23/2022 16:02
SODIUM	43		1	MG/L	1	8/23/2022 16:02
Ion Chromatography			EPA300.0		Prep Date: 8/8/2022	PrepBy: AOW
CHLORIDE	37		2	MG/L	10	8/8/2022 12:57
FLUORIDE	ND		2.6	MG/L	10	8/8/2022 12:57
SULFATE	480		10	MG/L	10	8/8/2022 12:57

Client: Randy Evans
Project: WPWT Facility
Sample ID: Outfall 050E
Legal Location:
Collection Date: 8/1/2022 10:05

Date: 24-Aug-22
Work Order: 2208010
Lab ID: 2208010-5
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

ALS -- Fort Collins

Date: 8/24/2022 1:49:1

Client: Randy Evans
 Work Order: 2208010
 Project: WPWT Facility

QC BATCH REPORT

Batch ID: IP220817-4-1 Instrument ID: ICP5900 Method: SW6010

LCS Sample ID: IP220817-4 Units: **MG/L** Analysis Date: **8/23/2022 15:56**

Client ID: Run ID: IT220823-2A2 Prep Date: 8/17/2022 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	0.968	0.1	1		97	80-120				20	
BORON	1.01	0.1	1		101	80-120				20	
SODIUM	35.9	1	40		90	80-120				20	

LCSD Sample ID: IP220817-4 Units: **MG/L** Analysis Date: **8/23/2022 15:57**

Client ID: Run ID: IT220823-2A2 Prep Date: 8/17/2022 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	0.988	0.1	1		99	80-120		0.968	2	20	
BORON	1.02	0.1	1		102	80-120		1.01	2	20	
SODIUM	37.5	1	40		94	80-120		35.9	4	20	

MB Sample ID: IP220817-4 Units: **MG/L** Analysis Date: **8/23/2022 15:55**

Client ID: Run ID: IT220823-2A2 Prep Date: 8/17/2022 DF: 1

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	ND	0.1									
BORON	ND	0.1									
SODIUM	ND	1									

The following samples were analyzed in this batch:

2208010-1	2208010-2	2208010-3
2208010-4	2208010-5	

Client: Randy Evans
 Work Order: 2208010
 Project: WPWT Facility

QC BATCH REPORT

Batch ID: IC220808-1-1 Instrument ID: IC3 Method: EPA300.0

LCS		Sample ID: IC220808-1			Units: MG/L		Analysis Date: 8/8/2022 12:13				
Client ID:		Run ID: IC220808-1A1			Prep Date: 8/8/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	4.99	0.258	5		100	90-110				15	
CHLORIDE	10	0.2	10		100	90-110				15	
SULFATE	48.6	1	50		97	90-110				15	

LCSD		Sample ID: IC220808-1			Units: MG/L		Analysis Date: 8/8/2022 13:22				
Client ID:		Run ID: IC220808-1A1			Prep Date: 8/8/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	5.01	0.258	5		100	90-110		4.99	0	15	
CHLORIDE	10.1	0.2	10		101	90-110		10	0	15	
SULFATE	49	1	50		98	90-110		48.6	1	15	

MB		Sample ID: IC220808-1			Units: MG/L		Analysis Date: 8/8/2022 12:21				
Client ID:		Run ID: IC220808-1A1			Prep Date: 8/8/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	ND	0.26									
CHLORIDE	ND	0.2									
SULFATE	ND	1									

MS		Sample ID: 2208010-2			Units: MG/L		Analysis Date: 8/8/2022 12:39				
Client ID: Outfall 050B		Run ID: IC220808-1A1			Prep Date: 8/8/2022		DF: 25				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
FLUORIDE	53.8	6.45	50	6.4	108	85-115				15	
CHLORIDE	250	5	125	120	104	85-115				15	
SULFATE	887	25	500	400	98	85-115				15	

The following samples were analyzed in this batch:

2208010-1	2208010-2	2208010-3
2208010-4	2208010-5	



09-Aug-2022

Katie O'Brien
ALS Environmental
225 Commerce Dr
Ft. Collins, CO 80524

Re: **2208010**

Work Order: **22080418**

Dear Katie,

ALS Environmental received 5 samples on 03-Aug-2022 03:30 PM for the analyses presented in the following report.

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

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

The total number of pages in this report is 8.

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

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

Sincerely,

Electronically approved by: Jodi Blouw

Jodi Blouw

Report of Laboratory Analysis

Certificate No: MN 026-999-449

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

Client: ALS Environmental
Project: 2208010
Work Order: 22080418

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22080418-01	Outfall 050A	Water		8/1/2022 11:15	8/3/2022 15:30	<input type="checkbox"/>
22080418-02	Outfall 050B	Water		8/1/2022 14:55	8/3/2022 15:30	<input type="checkbox"/>
22080418-03	Outfall 050C	Water		8/1/2022 13:40	8/3/2022 15:30	<input type="checkbox"/>
22080418-04	Outfall 050D	Water		8/1/2022 12:30	8/3/2022 15:30	<input type="checkbox"/>
22080418-05	Outfall 050E	Water		8/1/2022 10:05	8/3/2022 15:30	<input type="checkbox"/>

Client: ALS Environmental
Project: 2208010
WorkOrder: 22080418

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

<u>Units Reported</u>	<u>Description</u>
mg/L	Milligrams per Liter

Client: ALS Environmental
Project: 2208010
Work Order: 22080418

Case Narrative

Samples for the above noted Work Order were received on 08/03/2022. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Wet Chemistry:
No deviations or anomalies were noted.

ALS Group USA, Corp

Date: 09-Aug-22

CLIENT: ALS Environmental
Project: 2208010

Work Order: 22080418

Lab ID: 22080418-01A
Client Sample ID: Outfall 050A

Collection Date: 8/1/2022 11:15:00 AM
Matrix: WATER

Analyses	Result	Report Limit	MDL	Qual	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS			A2540 C-11				Analyst: LAD
Total Dissolved Solids	1,600	100	74		mg/L	1	8/9/2022 01:13 PM

Lab ID: 22080418-02A
Client Sample ID: Outfall 050B

Collection Date: 8/1/2022 2:55:00 PM
Matrix: WATER

Analyses	Result	Report Limit	MDL	Qual	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS			A2540 C-11				Analyst: LAD
Total Dissolved Solids	1,500	100	74		mg/L	1	8/9/2022 01:13 PM

Lab ID: 22080418-03A
Client Sample ID: Outfall 050C

Collection Date: 8/1/2022 1:40:00 PM
Matrix: WATER

Analyses	Result	Report Limit	MDL	Qual	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS			A2540 C-11				Analyst: LAD
Total Dissolved Solids	1,500	100	74		mg/L	1	8/9/2022 01:13 PM

Lab ID: 22080418-04A
Client Sample ID: Outfall 050D

Collection Date: 8/1/2022 12:30:00 PM
Matrix: WATER

Analyses	Result	Report Limit	MDL	Qual	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS			A2540 C-11				Analyst: LAD
Total Dissolved Solids	1,400	100	74		mg/L	1	8/9/2022 01:13 PM

Lab ID: 22080418-05A
Client Sample ID: Outfall 050E

Collection Date: 8/1/2022 10:05:00 AM
Matrix: WATER

Analyses	Result	Report Limit	MDL	Qual	Units	Dilution Factor	Date Analyzed
TOTAL DISSOLVED SOLIDS			A2540 C-11				Analyst: LAD
Total Dissolved Solids	1,200	100	74		mg/L	1	8/9/2022 01:13 PM

Qualifiers: U - Analyzed for but Not Detected S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits P - Dual Column results RPD > 40%
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 * - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

Client: ALS Environmental
Work Order: 22080418
Project: 2208010

QC BATCH REPORT

Batch ID: **200913** Instrument ID **TDS** Method: **A2540 C-11**

MBLK		Sample ID: MBLK-200913-200913				Units: mg/L		Analysis Date: 8/9/2022 01:13 PM			
Client ID:		Run ID: TDS_220809B		SeqNo: 8690363		Prep Date: 8/5/2022		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	U	22	30								

LCS		Sample ID: LCS-200913-200913				Units: mg/L		Analysis Date: 8/9/2022 01:13 PM			
Client ID:		Run ID: TDS_220809B		SeqNo: 8690362		Prep Date: 8/5/2022		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	526	22	30	495	0	106	85-109	0			

DUP		Sample ID: 22080190-02A DUP				Units: mg/L		Analysis Date: 8/9/2022 01:13 PM			
Client ID:		Run ID: TDS_220809B		SeqNo: 8690342		Prep Date: 8/5/2022		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	683.3	37	50	0	0	0	0-0	663.3	2.97	10	

DUP		Sample ID: 22080342-05D DUP				Units: mg/L		Analysis Date: 8/9/2022 01:13 PM			
Client ID:		Run ID: TDS_220809B		SeqNo: 8690353		Prep Date: 8/5/2022		DF: 1			
Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1113	74	100	0	0	0	0-0	1140	2.37	10	

The following samples were analyzed in this batch:

22080418-01A	22080418-02A	22080418-03A
22080418-04A	22080418-05A	

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



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524

TF: (800) 443-1511 w PH: (970) 490-1511 w FX: (970) 490-1522

Chain-of-Custody

PROJECT NAME							DATE	LAB ID	PAGE	1 of 1		
PROJECT No.							TURNAROUND	DISPOSAL	By Lab or Return to Client			
REPORT TO							8/2/2022		1	1		
COMPANY							Std					
ADDRESS							<div style="text-align: center;"> <h1>22080418</h1> <p>ALS - FORT COLLINS: ALS Laboratory Group Project: WPWT Facility</p>  </div>					
E-MAIL												
PHONE												
FAX												
TDS												
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Btls	QC						
1	Outfall 050A (Facility ID 767702)	WATER	08/01/2022	11:15	1		X					
2	Outfall 050B (Facility ID: 767706)	WATER	08/01/2022	14:55	1		X					
3	Outfall 050C (Facility ID: 767703)	WATER	08/01/2022	13:40	1		X					
4	Outfall 050D (Facility ID: 767704)	WATER	08/01/2022	12:30	1		X					
5	Outfall 050E (Facility ID: 767705)	WATER	08/01/2022	10:05	1		X					
COMMENTS							ALS FC SDG 2208010					
Standard Summary, COGCC EDD - Need in excel format please. Facility IDs listed for reference, do not use as part of Field ID!! Sampling State - CO. Regulatory Requirements - CO. Sampler: Paul Stone												
SIGNATURE		PRINTED NAME		DATE	TIME	COMPANY						
<i>Karen Craven</i>		Karen Craven		8-2-22	15:20	ABS						
Received By												
<i>FedEx</i>												
Received By												
<i>Caleb Koetje</i>		Caleb Koetje		8-3-22	15:30							

Sample Receipt Checklist

Client Name: **ALS - FORT COLLINS**

Date/Time Received: **03-Aug-22 15:30**

Work Order: **22080418**

Received by: **CMK**

Checklist completed by Caleb Kaefer 04-Aug-22
eSignature Date

Reviewed by: Jodi Blawie 04-Aug-22
eSignature Date

Matrices: **Water**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="1.8/2.8c"/>		<input type="text" value="IR3"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="8/4/2022 11:36:53 AM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction: