



Friday, May 6, 2022

Bruce Smith
Western Water and Land, Inc.
743 Horizon Ct., Suite 330
Grand Junction, CO 81506

Re: ALS Workorder: 2204349
Project Name: TEP BWQ
Project Number: GM 245-1

Dear Mr. Smith:

Three water samples were received from Western Water and Land, Inc., on 4/20/2022. The samples were scheduled for the following analyses:

GC/MS Volatiles	pages 1-152
Inorganics	pages 1-76
Metals	pages 1-114
Total Extractable Petroleum Hydrocarbons (Diesel)	pages 1-45

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
Janice Winn-Shilling
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
PJLA (DoD ELAP/ISO 170250)	95377
PJLA (DOE-AP/ISO 17025)	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
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.



ALS Laboratory Group

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 # **2204349**

PROJECT NAME	TEP BWA	SAMPLER	CW5	DATE	4/19/22	PAGE	1 of 1
FACILITY NAME		PROJECT NO.	GM 245-1	TURNAROUND	Standard	DISPOSAL	By Lab or Return to Client
FACILITY ID (API)		EDD FORMAT					
COMPANY NAME	Western Water & Land, Inc.	PURCHASE ORDER					
SEND REPORT TO	Bruce Smith	BILL TO COMPANY	TEP Rocky Mtn LLC				
ADDRESS	743 Horizon Court, Suite 330	INVOICE ATTN TO	Tammy Gose				
CITY / STATE / ZIP	Grand Junction, CO 81506	ADDRESS	1058 CR 215				
PHONE	(970) 242-0170	CITY / STATE / ZIP	Parachute, CO 81635				
FAX		PHONE	(970) 712-6049				
E-MAIL	bsmith@westernwaterandland.com	FAX					
		E-MAIL	lgose@terraep.com				

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	NG1	BART	BTEX/GRO	DRO	Disolved Metals, lab filtered	Anions, Alk, TDS, PH, SPC, nitrates	Total Phosphorus	Disolved gases - HCl preserved	Disolved gases - unpreserved	PAH's	MBAS	Naphthalene	1,3,5 & 1,2,4-Trimethylbenzenes	
1	HG UP	SW	4/19/22	10:41	9	1	1V														
2	HG DWN	SW	4/19/22	10:05	9	1	1V														
3	Trip Blank				2																

Field Parameters							
Temp (°C)	DO (%)	SpC (uS/cm)	Turb (NTUs)	352.3	Disch (gpm)	0.15	cfs
pH (s.u.)	DO (mg/L)	ORP (mv)	217.6		Turb (NTUs)	337.1	
Temp (°C)	DO (%)	SpC (uS/cm)	1072		Disch (gpm)	0.04	cfs
pH (s.u.)	DO (mg/L)	ORP (mv)	218.1				

*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.

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	<i>[Signature]</i>	Chas Jones	4/19/22	5:00
RELINQUISHED BY	<i>[Signature]</i>	Chairel Thomas	4/19/22	11:05
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

QC PACKAGE (check below)

LEVEL II (Standard QC)	
LEVEL III (Std QC + forms)	
LEVEL IV (Std QC + forms + raw data)	<input checked="" type="checkbox"/>

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

3 of 3



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: WESTERN WATER

Workorder No: 2204349

Project Manager: _____

Initials: CXT

Date: 4/20/2022

				N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?					X	
Tracking number: 2722 0420 8767						
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>3.4</u>						
# of custody seals on cooler: <u>2</u>						
External µR/hr reading: <u>10</u>						
Background µR/hr reading: <u>11</u>						
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES						

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

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? NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: *Amr* 4/20/22

2204349

FROM: (970) 242-0170
CHAS JONES
WESTERN WATER & LAND INC
743 HORIZON CT STE 330

SHIP DATE: 19APR22
ACT WGT: 30.45 LB
CAN: 8994171/59FE2300
14 X 14 X 12 IN

GRAND JUNCTION CO 81506
US

0800 WED 04/20 00:10 IC-10 1230007
ALS LABORATORIES
225 COMMERCE DR
FORT COLLINS CO

TO **KATIE O'BRIEN**
ALS LABORATORIES
225 COMMERCE DR

611-1063

80524-2762-25

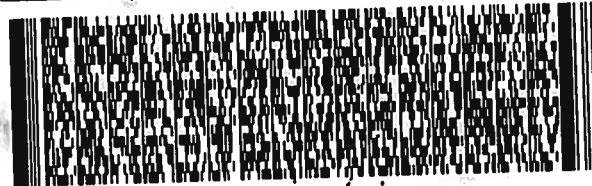


FORT COLLINS CO

(970) 490-1511

REF:

DEPT:



EX
Ground



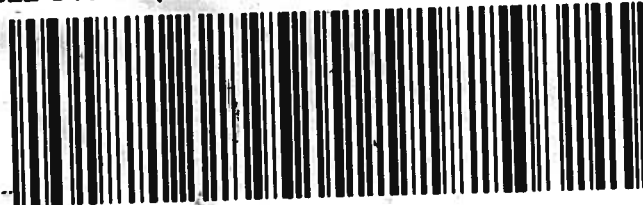
AS 1090102201221

2 of 2
MPS# 2722 0420 8767
Mstr# 2722 0420 8756

10-2
3.40

80524

9622 0417 3 (000 000 0000) 0 00 2722 0420 8767





2204349

GC/MS Volatiles:

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

All acceptance criteria were met.

DRO:

The samples were 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 samples were 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.

The samples were to be analyzed for dissolved metals. The samples were filtered through a 0.45 micron filter and preserved with nitric acid to a pH less than two prior to analysis.

All acceptance criteria were met.

Inorganics:

The samples were 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
pH	SM4500-H ⁺ B	1126
Specific conductance	SM2510B	1128
TDS	SM2540C	1101
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
Total Nitrates	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

All acceptance criteria were met.

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Western Water and Land, Inc.
 Project: GM 245-1 TEP BWQ
 Sample ID: HG Up
 Legal Location:
 Collection Date: 4/19/2022 10:41

Date: 05-May-22
 Work Order: 2204349
 Lab ID: 2204349-1
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
ALKALINITY AS CALCIUM CARBONATE			SM2320B		Prep Date: 4/25/2022		PrepBy: KRL
BICARBONATE AS CaCO3	290		20	MG/L	1		4/25/2022
CARBONATE AS CaCO3	ND		20	MG/L	1		4/25/2022
TOTAL ALKALINITY AS CaCO3	290		20	MG/L	1		4/25/2022
DIESEL RANGE ORGANICS			SW8015M		Prep Date: 4/26/2022		PrepBy: JRS
Diesel Range Organics	0.56	J	1	MG/L	1	0.51	4/28/2022 14:19
Surr: O-TERPHENYL	92		69-120	%REC	1		4/28/2022 14:19
GC/MS VOLATILES			SW8260_25		Prep Date: 5/3/2022		PrepBy: TWK
BENZENE	ND		1	UG/L	1	0.3	5/3/2022 17:24
TOLUENE	ND		1	UG/L	1	0.34	5/3/2022 17:24
ETHYLBENZENE	ND		1	UG/L	1	0.33	5/3/2022 17:24
M+P-XYLENE	ND		1	UG/L	1	0.55	5/3/2022 17:24
O-XYLENE	ND		1	UG/L	1	0.34	5/3/2022 17:24
1,3,5-TRIMETHYLBENZENE	ND		1	UG/L	1	0.34	5/3/2022 17:24
1,2,4-TRIMETHYLBENZENE	ND		1	UG/L	1	0.33	5/3/2022 17:24
NAPHTHALENE	ND		1	UG/L	1	0.52	5/3/2022 17:24
Surr: DIBROMOFLUOROMETHANE	101		80-120	%REC	1		5/3/2022 17:24
Surr: TOLUENE-D8	99		80-120	%REC	1		5/3/2022 17:24
Surr: 4-BROMOFLUOROBENZENE	101		80-120	%REC	1		5/3/2022 17:24
GASOLINE RANGE ORGANICS	ND		100	UG/L	1	51	5/3/2022 17:24
ION CHROMATOGRAPHY			EPA300.0		Prep Date: 4/20/2022		PrepBy: AOW
BROMIDE	ND		1	MG/L	5	0.32	4/20/2022 16:28
CHLORIDE	9.4		1	MG/L	5	0.38	4/20/2022 16:28
FLUORIDE	0.56		0.5	MG/L	5	0.2	4/20/2022 16:28
NITRATE/NITRITE AS N	3		0.15	MG/L	1	0.092	4/20/2022 16:28
NITRATE AS N	ND		1	MG/L	5	0.46	4/20/2022 16:28
NITRITE AS N	3		0.75	MG/L	5	0.34	4/20/2022 16:28
SULFATE	280		5	MG/L	5	2.6	4/20/2022 16:28
DISSOLVED METALS BY 200.8			EPA200.8		Prep Date: 4/25/2022		PrepBy: ETC
BARIUM	0.039		0.001	MG/L	10	0.00049	4/26/2022 13:31
BORON	0.09		0.05	MG/L	10	0.026	4/26/2022 13:31
CALCIUM	72		1	MG/L	10	0.18	4/26/2022 13:31
IRON	ND		0.15	MG/L	10	0.071	4/26/2022 13:31
MAGNESIUM	50		0.1	MG/L	10	0.023	4/26/2022 13:31
MANGANESE	ND		0.004	MG/L	10	0.0021	4/26/2022 13:31
POTASSIUM	4.1		1	MG/L	10	0.2	4/26/2022 13:31
SELENIUM	0.0082		0.0015	MG/L	10	0.00067	4/26/2022 13:31
SODIUM	100		1	MG/L	10	0.13	4/26/2022 13:31
STRONTIUM	1.4		0.001	MG/L	10	0.00024	4/26/2022 13:31
PH			SM4500-H		Prep Date: 4/25/2022		PrepBy: KRL
PH	8.38		0.1	pH	1		4/25/2022

ALS -- Fort Collins**SAMPLE SUMMARY REPORT**

Client: Western Water and Land, Inc.
Project: GM 245-1 TEP BWQ
Sample ID: HG Up
Legal Location:
Collection Date: 4/19/2022 10:41

Date: 05-May-22
Work Order: 2204349
Lab ID: 2204349-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
SPECIFIC CONDUCTANCE IN WATER			SM2510B				
SPECIFIC CONDUCTIVITY	845			1 umhos/cm	1		Prep Date: 4/26/2022 PrepBy: KRL 4/26/2022
TOTAL DISSOLVED SOLIDS			SM2540C				
TOTAL DISSOLVED SOLIDS	690			20 MG/L	1		Prep Date: 4/25/2022 PrepBy: KRL 4/26/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Western Water and Land, Inc.
 Project: GM 245-1 TEP BWQ
 Sample ID: HG DWN
 Legal Location:
 Collection Date: 4/19/2022 10:05

Date: 05-May-22
 Work Order: 2204349
 Lab ID: 2204349-2
 Matrix: WATER
 Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
ALKALINITY AS CALCIUM CARBONATE			SM2320B		Prep Date: 4/25/2022		PrepBy: KRL
BICARBONATE AS CaCO3	300		20	MG/L	1		4/25/2022
CARBONATE AS CaCO3	ND		20	MG/L	1		4/25/2022
TOTAL ALKALINITY AS CaCO3	300		20	MG/L	1		4/25/2022
DIESEL RANGE ORGANICS			SW8015M		Prep Date: 4/26/2022		PrepBy: JRS
Diesel Range Organics	0.58	J	1	MG/L	1	0.51	4/28/2022 14:41
Surr: O-TERPHENYL	100		69-120	%REC	1		4/28/2022 14:41
GC/MS VOLATILES			SW8260_25		Prep Date: 5/3/2022		PrepBy: TWK
BENZENE	ND		1	UG/L	1	0.3	5/3/2022 17:47
TOLUENE	ND		1	UG/L	1	0.34	5/3/2022 17:47
ETHYLBENZENE	ND		1	UG/L	1	0.33	5/3/2022 17:47
M+P-XYLENE	ND		1	UG/L	1	0.55	5/3/2022 17:47
O-XYLENE	ND		1	UG/L	1	0.34	5/3/2022 17:47
1,3,5-TRIMETHYLBENZENE	ND		1	UG/L	1	0.34	5/3/2022 17:47
1,2,4-TRIMETHYLBENZENE	ND		1	UG/L	1	0.33	5/3/2022 17:47
NAPHTHALENE	ND		1	UG/L	1	0.52	5/3/2022 17:47
Surr: DIBROMOFLUOROMETHANE	103		80-120	%REC	1		5/3/2022 17:47
Surr: TOLUENE-D8	99		80-120	%REC	1		5/3/2022 17:47
Surr: 4-BROMOFLUOROBENZENE	100		80-120	%REC	1		5/3/2022 17:47
GASOLINE RANGE ORGANICS	ND		100	UG/L	1	51	5/3/2022 17:47
ION CHROMATOGRAPHY			EPA300.0		Prep Date: 4/20/2022		PrepBy: AOW
BROMIDE	ND		1	MG/L	5	0.32	4/20/2022 16:34
CHLORIDE	9.4		1	MG/L	5	0.38	4/20/2022 16:34
FLUORIDE	0.56		0.5	MG/L	5	0.2	4/20/2022 16:34
NITRATE/NITRITE AS N	3		0.15	MG/L	1	0.092	4/20/2022 16:34
NITRATE AS N	ND		1	MG/L	5	0.46	4/20/2022 16:34
NITRITE AS N	3		0.75	MG/L	5	0.34	4/20/2022 16:34
SULFATE	280		5	MG/L	5	2.6	4/20/2022 16:34
DISSOLVED METALS BY 200.8			EPA200.8		Prep Date: 4/25/2022		PrepBy: ETC
BARIUM	0.038		0.001	MG/L	10	0.00049	4/26/2022 13:34
BORON	0.082		0.05	MG/L	10	0.026	4/26/2022 13:34
CALCIUM	72		1	MG/L	10	0.18	4/26/2022 13:34
IRON	ND		0.15	MG/L	10	0.071	4/26/2022 13:34
MAGNESIUM	49		0.1	MG/L	10	0.023	4/26/2022 13:34
MANGANESE	ND		0.004	MG/L	10	0.0021	4/26/2022 13:34
POTASSIUM	3.9		1	MG/L	10	0.2	4/26/2022 13:34
SELENIUM	0.0075		0.0015	MG/L	10	0.00067	4/26/2022 13:34
SODIUM	100		1	MG/L	10	0.13	4/26/2022 13:34
STRONTIUM	1.4		0.001	MG/L	10	0.00024	4/26/2022 13:34
PH			SM4500-H		Prep Date: 4/25/2022		PrepBy: KRL
PH	8.4		0.1	pH	1		4/25/2022

ALS -- Fort Collins**SAMPLE SUMMARY REPORT**

Client: Western Water and Land, Inc.
Project: GM 245-1 TEP BWQ
Sample ID: HG DWN
Legal Location:
Collection Date: 4/19/2022 10:05

Date: 05-May-22
Work Order: 2204349
Lab ID: 2204349-2
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
SPECIFIC CONDUCTANCE IN WATER			SM2510B				
SPECIFIC CONDUCTIVITY	850			1 umhos/cm	1		Prep Date: 4/26/2022 PrepBy: KRL 4/26/2022
TOTAL DISSOLVED SOLIDS			SM2540C				
TOTAL DISSOLVED SOLIDS	670			20 MG/L	1		Prep Date: 4/25/2022 PrepBy: KRL 4/26/2022

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client: Western Water and Land, Inc.
Project: GM 245-1 TEP BWQ
Sample ID: Trip Blank
Legal Location:
Collection Date: 4/19/2022

Date: 05-May-22
Work Order: 2204349
Lab ID: 2204349-3
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	Date Analyzed
GC/MS VOLATILES			SW8260_25		Prep Date: 5/3/2022		PrepBy: TWK
BENZENE	ND		1	UG/L	1	0.3	5/3/2022 18:09
TOLUENE	ND		1	UG/L	1	0.34	5/3/2022 18:09
ETHYLBENZENE	ND		1	UG/L	1	0.33	5/3/2022 18:09
M+P-XYLENE	ND		1	UG/L	1	0.55	5/3/2022 18:09
O-XYLENE	ND		1	UG/L	1	0.34	5/3/2022 18:09
1,3,5-TRIMETHYLBENZENE	ND		1	UG/L	1	0.34	5/3/2022 18:09
1,2,4-TRIMETHYLBENZENE	ND		1	UG/L	1	0.33	5/3/2022 18:09
NAPHTHALENE	ND		1	UG/L	1	0.52	5/3/2022 18:09
Surr: DIBROMOFLUOROMETHANE	103		80-120	%REC	1		5/3/2022 18:09
Surr: TOLUENE-D8	100		80-120	%REC	1		5/3/2022 18:09
Surr: 4-BROMOFLUOROBENZENE	99		80-120	%REC	1		5/3/2022 18:09
GASOLINE RANGE ORGANICS	ND		100	UG/L	1	51	5/3/2022 18:09

Client: Western Water and Land, Inc.
Project: GM 245-1 TEP BWQ
Sample ID: Trip Blank
Legal Location:
Collection Date: 4/19/2022

Date: 05-May-22
Work Order: 2204349
Lab ID: 2204349-3
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	MDL	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: 5/5/2022 11:25:4

Client: Western Water and Land, Inc.
 Work Order: 2204349
 Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: **HC220426-81-1** Instrument ID **FUELS-1** Method: **SW8015M**

LCS Sample ID: **HC220426-81** Units: **MG/L** Analysis Date: **4/28/2022 12:31**
 Client ID: Run ID: **HC220428-81A** Prep Date: **4/26/2022** 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	8.56	1.07	8.33		103	53-120				20	
Surr: O-TERPHENYL	1.68		1.67		101	69-120					

LCSD Sample ID: **HC220426-81** Units: **MG/L** Analysis Date: **4/28/2022 12:53**
 Client ID: Run ID: **HC220428-81A** Prep Date: **4/26/2022** 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	8.81	1.07	8.33		106	53-120		8.56	3	20	
Surr: O-TERPHENYL	1.73		1.67		104	69-120			3		

MB Sample ID: **HC220426-81** Units: **MG/L** Analysis Date: **4/28/2022 11:48**
 Client ID: Run ID: **HC220428-81A** Prep Date: **4/26/2022** DF: **1**

Analyte	Result	ReportLimit	MDL							Qual
Diesel Range Organics	ND	1.1	0.54							
Surr: O-TERPHENYL	1.35				81	69-120				

The following samples were analyzed in this batch:

Client: Western Water and Land, Inc.
 Work Order: 2204349
 Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: IP220425-1-1 Instrument ID ICPMS2 Method: EPA200.8

LCS		Sample ID: IM220425-1			Units: MG/L		Analysis Date: 4/26/2022 13:19				
Client ID:		Run ID: IM220426-11A3			Prep Date: 4/25/2022		DF: 10				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	0.0958	0.001	0.1		96	85-115				20	
BORON	2.08	0.05	2		104	85-115				20	
CALCIUM	9.77	1	10		98	85-115				20	
IRON	4.82	0.15	5		96	85-115				20	
MAGNESIUM	9.58	0.1	10		96	85-115				20	
MANGANESE	0.0921	0.004	0.1		92	85-115				20	
POTASSIUM	4.9	1	5		98	85-115				20	
SELENIUM	0.101	0.0015	0.1		101	85-115				20	
SODIUM	9.98	1	10		100	85-115				20	
STRONTIUM	0.0954	0.001	0.1		95	85-115				20	

LCSD		Sample ID: IM220425-1			Units: MG/L		Analysis Date: 4/26/2022 13:25				
Client ID:		Run ID: IM220426-11A3			Prep Date: 4/25/2022		DF: 10				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BARIUM	0.0969	0.001	0.1		97	85-115		0.0958	1	20	
BORON	2.02	0.05	2		101	85-115		2.08	3	20	
CALCIUM	10	1	10		100	85-115		9.77	2	20	
IRON	4.87	0.15	5		97	85-115		4.82	1	20	
MAGNESIUM	9.43	0.1	10		94	85-115		9.58	2	20	
MANGANESE	0.0935	0.004	0.1		94	85-115		0.0921	2	20	
POTASSIUM	4.95	1	5		99	85-115		4.9	1	20	
SELENIUM	0.0996	0.0015	0.1		100	85-115		0.101	1	20	
SODIUM	10.1	1	10		101	85-115		9.98	1	20	
STRONTIUM	0.0963	0.001	0.1		96	85-115		0.0954	1	20	

Client: Western Water and Land, Inc.
Work Order: 2204349
Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: **IP220425-1-1** Instrument ID **ICPMS2** Method: **EPA200.8**

MB Sample ID: **FP220422-1** Units: **MG/L** Analysis Date: **4/26/2022 13:10**
 Client ID: Run ID: **IM220426-11A3** Prep Date: **4/25/2022** DF: **10**

Analyte	Result	ReportLimit	MDL	Qual
BARIUM	ND	0.001	0.00049	
BORON	ND	0.05	0.026	
CALCIUM	ND	1	0.18	
IRON	ND	0.15	0.071	
MAGNESIUM	ND	0.1	0.023	
MANGANESE	ND	0.004	0.0021	
POTASSIUM	ND	1	0.2	
SELENIUM	ND	0.0015	0.00067	
SODIUM	-0.2	1	0.13	J
STRONTIUM	ND	0.001	0.00024	

The following samples were analyzed in this batch:

2204349-1	2204349-2
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Client: Western Water and Land, Inc.

Work Order: 2204349

Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: VL220503-3-1

Instrument ID: HPV3

Method: SW8260_25

LCS		Sample ID: VL220503-33			Units: UG/L		Analysis Date: 5/3/2022 15:08				
Client ID:		Run ID: VL220503-3A			Prep Date: 5/3/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	10.4	1	10		104	80-120				20	
TOLUENE	10.3	1	10		103	80-120				20	
Surr: DIBROMOFLUOROMETHANE	25.5		25		102	80-120					
Surr: TOLUENE-D8	24.8		25		99	80-120					
Surr: 4-BROMOFLUOROBENZENE	25.1		25		100	80-120					

LCSD		Sample ID: VL220503-33			Units: UG/L		Analysis Date: 5/3/2022 15:31				
Client ID:		Run ID: VL220503-3A			Prep Date: 5/3/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BENZENE	10.2	1	10		102	80-120		10.4	2	20	
TOLUENE	10.3	1	10		103	80-120		10.3	0	20	
Surr: DIBROMOFLUOROMETHANE	25.2		25		101	80-120			2		
Surr: TOLUENE-D8	24.8		25		99	80-120			0		
Surr: 4-BROMOFLUOROBENZENE	24.8		25		99	80-120			1		

MB		Sample ID: VL220503-33			Units: UG/L		Analysis Date: 5/3/2022 16:18					
Client ID:		Run ID: VL220503-3A			Prep Date: 5/3/2022		DF: 1					
Analyte	Result	ReportLimit	MDL									Qual
BENZENE	ND	1	0.3									
TOLUENE	ND	1	0.34									
ETHYLBENZENE	ND	1	0.33									
M+P-XYLENE	ND	1	0.55									
O-XYLENE	ND	1	0.34									
1,3,5-TRIMETHYLBENZENE	ND	1	0.34									
1,2,4-TRIMETHYLBENZENE	ND	1	0.33									
NAPHTHALENE	ND	1	0.52									
Surr: DIBROMOFLUOROMETHANE	25.4				101	80-120						
Surr: TOLUENE-D8	24.9				100	80-120						
Surr: 4-BROMOFLUOROBENZENE	25				100	80-120						

The following samples were analyzed in this batch: 2204349-1 2204349-2 2204349-3

Client: Western Water and Land, Inc.
 Work Order: 2204349
 Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: **VL220503-3-7** Instrument ID **HPV3** Method: **SW8260_25**

LCS		Sample ID: VL220503-3			Units: UG/L		Analysis Date: 5/3/2022 13:37				
Client ID:		Run ID: VL220503-3A			Prep Date: 5/3/2022		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	1090	100	1000		109	75-121				20	

LCSD		Sample ID: VL220503-3			Units: UG/L		Analysis Date: 5/3/2022 13:59				
Client ID:		Run ID: VL220503-3A			Prep Date: 5/3/2022		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	1050	100	1000		105	75-121		1090	4	20	

MB		Sample ID: VL220503-33			Units: UG/L		Analysis Date: 5/3/2022 16:18				
Client ID:		Run ID: VL220503-3A			Prep Date: 5/3/2022		DF: 1				
Analyte	Result	ReportLimit	MDL								
GASOLINE RANGE ORGANICS	ND	100	51								

The following samples were analyzed in this batch: 2204349-1 2204349-2 2204349-3

Client: Western Water and Land, Inc.
Work Order: 2204349
Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: **AK220425-1-1** Instrument ID **NONE** Method: **SM2320B**

LCS Sample ID: **AK220425-1** Units: **MG/L** Analysis Date: **4/25/2022**
 Client ID: Run ID: **AK220425-1A1** Prep Date: **4/25/2022** 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	104	5	100		104	85-115				15	

MB Sample ID: **AK220425-1** Units: **MG/L** Analysis Date: **4/25/2022**
 Client ID: Run ID: **AK220425-1A1** Prep Date: **4/25/2022** DF: **1**

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

The following samples were analyzed in this batch:

2204349-1	2204349-2
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Client: Western Water and Land, Inc.
 Work Order: 2204349
 Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: IC220420-1-2 Instrument ID IC3 Method: EPA300.0

LCS		Sample ID: IC220420-1			Units: MG/L		Analysis Date: 4/20/2022 15:40				
Client ID:		Run ID: IC220420-1A3			Prep Date: 4/20/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BROMIDE	9.81	0.2	10		98	90-110				15	
CHLORIDE	10.3	0.2	10		103	90-110				15	
FLUORIDE	4.98	0.1	5		100	90-110				15	
NITRATE AS N	10	0.2	10		100	90-110				15	
NITRITE AS N	4.93	0.15	5		99	90-110				15	
SULFATE	49.8	1	50		100	90-110				15	

LCSD		Sample ID: IC220420-1			Units: MG/L		Analysis Date: 4/20/2022 16:52				
Client ID:		Run ID: IC220420-1A3			Prep Date: 4/20/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
BROMIDE	9.78	0.2	10		98	90-110		9.81	0	15	
CHLORIDE	9.81	0.2	10		98	90-110		10.3	4	15	
FLUORIDE	4.87	0.1	5		97	90-110		4.98	2	15	
NITRATE AS N	9.82	0.2	10		98	90-110		10	2	15	
NITRITE AS N	4.96	0.15	5		99	90-110		4.93	1	15	
SULFATE	48.9	1	50		98	90-110		49.8	2	15	

MB		Sample ID: IC220420-1			Units: MG/L		Analysis Date: 4/20/2022 15:46				
Client ID:		Run ID: IC220420-1A3			Prep Date: 4/20/2022		DF: 1				
Analyte	Result	ReportLimit	MDL								
BROMIDE	ND	0.2	0.064								
CHLORIDE	ND	0.2	0.076								
FLUORIDE	ND	0.1	0.039								
NITRATE AS N	ND	0.2	0.092								
NITRITE AS N	ND	0.15	0.069								
SULFATE	ND	1	0.53								

The following samples were analyzed in this batch: 2204349-1 2204349-2

Client: Western Water and Land, Inc.
 Work Order: 2204349
 Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: **pH220425-1-1** Instrument ID **pH-2** Method: **SM4500-H**

CCV	Sample ID: CCV1					Units: pH	Analysis Date: 4/25/2022				
Client ID:		Run ID: pH220425-1A1					Prep Date: 4/25/2022		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
PH	6.98	0.1	7			6.9-7.1					

CCV	Sample ID: CCV2					Units: pH	Analysis Date: 4/25/2022				
Client ID:		Run ID: pH220425-1A1					Prep Date: 4/25/2022		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
PH	6.95	0.1	7			6.9-7.1					

ICV	Sample ID: ICV					Units: pH	Analysis Date: 4/25/2022				
Client ID:		Run ID: pH220425-1A1					Prep Date: 4/25/2022		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
PH	6.99	0.1	7			6.9-7.1					

The following samples were analyzed in this batch:

2204349-1	2204349-2
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Client: Western Water and Land, Inc.
 Work Order: 2204349
 Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: **SC220426-1-1** Instrument ID **pH-2** Method: **SM2510B**

CCV	Sample ID: CCV1					Units: umhos/cm	Analysis Date: 4/26/2022				
Client ID:	Run ID: SC220426-1A1				Prep Date: 4/26/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	1370	1	1410		97	90-110					

CCV	Sample ID: CCV2					Units: umhos/cm	Analysis Date: 4/26/2022				
Client ID:	Run ID: SC220426-1A1				Prep Date: 4/26/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	1360	1	1410		96	90-110					

ICV	Sample ID: ICV					Units: umhos/cm	Analysis Date: 4/26/2022				
Client ID:	Run ID: SC220426-1A1				Prep Date: 4/26/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
SPECIFIC CONDUCTIVITY	651	1	718		91	90-110					

The following samples were analyzed in this batch:

2204349-1	2204349-2
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Client: Western Water and Land, Inc.
 Work Order: 2204349
 Project: GM 245-1 TEP BWQ

QC BATCH REPORT

Batch ID: **TD220425-1-1** Instrument ID **Balance** Method: **SM2540C**

LCS		Sample ID: TD220425-1			Units: MG/L		Analysis Date: 4/26/2022				
Client ID:		Run ID: TD220426-1A1			Prep Date: 4/25/2022		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	396	20	400		99	85-115				14	

LCSD		Sample ID: TD220425-1			Units: MG/L		Analysis Date: 4/26/2022				
Client ID:		Run ID: TD220426-1A1			Prep Date: 4/25/2022		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	393	20	400		98	85-115		396	1	14	

MB		Sample ID: TD220425-1			Units: MG/L		Analysis Date: 4/26/2022				
Client ID:		Run ID: TD220426-1A1			Prep Date: 4/25/2022		DF: 1				
Analyte	Result	ReportLimit	MDL								
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch: 2204349-1 2204349-2