



Thursday, October 29, 2020

Max Trehus
Great Western Operating Company, LLC
4093 Specialty Place, Unit B
Longmont, CO 80504

Re: ALS Workorder: 2010080
Project Name: Kodak 34-44
Project Number:

Dear Mr. Trehus:

Two water samples were received from Great Western Operating Company, LLC, on 10/2/2020. The samples were scheduled for the following analyses:

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

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

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

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

Sincerely,

ALS Environmental
Katie M. O'Brien
Project Manager

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
AIHA	214884
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
PJ-LA (DoD ELAP/ISO 170250)	95377
Louisiana (LA)	05057
Maryland (MD)	285
Missouri (MO)	175
Nebraska(NE)	NE-OS-24-13
Nevada (NV)	CO000782008A
New York (NY)	12036
North Dakota (ND)	R-057
Oklahoma (OK)	1301
Pennsylvania (PA)	68-03116
Tennessee (TN)	2976
Texas (TX)	T104704241
Utah (UT)	CO01099
Washington (WA)	C1280



2010080

GC/MS Volatiles:

The sample was analyzed using GC/MS following the current revision of SOP 525 based on SW-846 Method 8260C.

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.

GRO:

The sample was analyzed following the current revision of SOP 425 generally based on SW-846 Methods 8000C and 8015D. TVPH 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 C6 to C10.

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 surrogate recoveries were within acceptance criteria with the following exception:

Surrogate	Sample	Direction
O-terphenyl	-LCS	High

The sample was re-analyzed to evaluate whether the original outlier was due to matrix effects or laboratory performance. The re-analysis also had the surrogate outside the control limits, which suggests the presence of matrix effects.

All remaining 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.

Sample 2010080-2 was 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 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

OrderNum: 2010080

Client Name: Great Western Operating Company, LLC

Client Project Name: Kodak 34-44

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
34-44 A through E, G	2010080-1		WATER	01-Oct-20	13:30
34-44 F	2010080-2		WATER	01-Oct-20	13:30



ALS Environmental

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

Chain-of-Custody

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day.
Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALS WORKORDER #	
2010020	
PAGE	of
DISPOSAL	BY LAB or RETURN

PROJECT NAME	Kodal 34-44	TURNAROUND TIME	SAMPLER
PROJECT No.		SITE ID	
COMPANY NAME	Great Western	EDD FORMAT	
SEND REPORT TO	M Trehars@GWP.com	PURCHASE ORDER	
ADDRESS		BILL TO COMPANY	
CITY / STATE / ZIP		INVOICE ATTN TO	
PHONE		ADDRESS	
FAX		CITY / STATE / ZIP	
E-MAIL		PHONE	
		FAX	
		E-MAIL	

PARAMETER/METHOD REQUEST FOR ANALYSIS									
A	Dissolved Gases								
B	BTex								
C	DRO								
D	GRO								
E	Anions, Alk, TDS								
F	DS Metals								
G	TD Metals								
H									
I									
J									

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	A	B	C	D	E	F	G	H	I	J	SEE NOTES SECTION
1	34-44 A	W	10-1-20	13:30	3	-		X										
	34-44 B	W	10-1-20	13:30	3	HCL			X									
	34-44 C	W	10-1-20	13:30	3	HCL				X								
	34-44 D	W	10-1-20	13:30	3	HCL					X							
	34-44 E	W	10-1-20	13:30	1	-						X						
2	34-44 F	W	10-1-20	13:30	1	-							X					
1	34-44 G	W	10-1-20	13:30	1	HNO3								X				

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

6. B.C.

REPORT LEVEL / QC REQUIRED	Summary (Standard QC)	LEVEL II (Standard QC)	LEVEL III (Std QC + forms)	LEVEL IV (Std QC + forms + raw)

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	<i>[Signature]</i>	Kenny Pyatt	10-2-20	14:48
RELINQUISHED BY	<i>[Signature]</i>	Tyler Krosser	10/2/20	14:48
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Form 2029

1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaOH/ZnAcetate 6-NaHSO4 7-4°C 8-Other

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SAMPLE SUMMARY REPORT

Client: Great Western Operating Company, LLC
Project: Kodak 34-44
Sample ID: 34-44 A through E, G
Legal Location:
Collection Date: 10/1/2020 13:30

Date: 29-Oct-20
Work Order: 2010080
Lab ID: 2010080-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 10/10/2020	PrepBy: KJS
BICARBONATE AS CaCO3	300		20	MG/L	1	10/10/2020
CARBONATE AS CaCO3	400		20	MG/L	1	10/10/2020
TOTAL ALKALINITY AS CaCO3	710		20	MG/L	1	10/10/2020
Diesel Range Organics		SW8015M			Prep Date: 10/8/2020	PrepBy: JRS
Diesel Range Organics	32		1	MG/L	1	10/10/2020 12:57
Surr: O-TERPHENYL	99		69-120	%REC	1	10/10/2020 12:57
Dissolved Gasses		RSK175			Prep Date: 10/12/2020	PrepBy: ASZ
METHANE	24000		6	UG/L	6	10/12/2020 18:30
ETHANE	2300		12	UG/L	6	10/12/2020 18:30
PROPANE	2900		6	UG/L	6	10/12/2020 18:30
Gasoline Range Organics		SW8015			Prep Date: 10/7/2020	PrepBy: ASZ
GASOLINE RANGE ORGANICS	2.3		0.1	MG/L	1	10/7/2020 15:02
Surr: 2,3,4-TRIFLUOROTOLUENE	93		80-120	%REC	1	10/7/2020 15:02
GC/MS Volatiles		SW8260_25			Prep Date: 10/15/2020	PrepBy: TWK
BENZENE	400		10	UG/L	10	10/15/2020 17:14
TOLUENE	24		10	UG/L	10	10/15/2020 17:14
ETHYLBENZENE	62		10	UG/L	10	10/15/2020 17:14
M+P-XYLENE	200		10	UG/L	10	10/15/2020 17:14
O-XYLENE	10		10	UG/L	10	10/15/2020 17:14
TOTAL XYLENES	210		1	UG/L	1	10/15/2020 17:14
Surr: 4-BROMOFLUOROBENZENE	105		80-120	%REC	10	10/15/2020 17:14
Surr: DIBROMOFLUOROMETHANE	101		80-120	%REC	10	10/15/2020 17:14
Surr: TOLUENE-D8	99		80-120	%REC	10	10/15/2020 17:14
Ion Chromatography		EPA300.0			Prep Date: 10/7/2020	PrepBy: KJS
CHLORIDE	160		2	MG/L	10	10/7/2020 12:27
SULFATE	ND		1	MG/L	1	10/7/2020 12:14
Total Recoverable Metals by 200.8		EPA200.8			Prep Date: 10/23/2020	PrepBy: JML
CALCIUM	2800		1000	UG/L	10	10/28/2020 14:48
POTASSIUM	4600		1000	UG/L	10	10/28/2020 14:48
MAGNESIUM	260		100	UG/L	10	10/28/2020 14:48
SODIUM	490000		1000	UG/L	10	10/28/2020 14:48
Total Dissolved Solids		SM2540C			Prep Date: 10/7/2020	PrepBy: LMC
TOTAL DISSOLVED SOLIDS	1400		40	MG/L	1	10/12/2020

Client: Great Western Operating Company, LLC

Date: 29-Oct-20

Project: Kodak 34-44

Work Order: 2010080

Sample ID: 34-44 F

Lab ID: 2010080-2

Legal Location:

Matrix: WATER

Collection Date: 10/1/2020 13:30

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dissolved Metals by 200.8			EPA200.8		Prep Date: 10/23/2020	PrepBy: JML
CALCIUM	1900		1000	UG/L	10	10/28/2020 14:51
POTASSIUM	4100		1000	UG/L	10	10/28/2020 14:51
MAGNESIUM	ND		100	UG/L	10	10/28/2020 14:51
SODIUM	490000		1000	UG/L	10	10/28/2020 14:51

Client: Great Western Operating Company, LLC
Project: Kodak 34-44
Sample ID: 34-44 F
Legal Location:
Collection Date: 10/1/2020 13:30

Date: 29-Oct-20
Work Order: 2010080
Lab ID: 2010080-2
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: 10/29/2020 3:44

Client: Great Western Operating Company, LLC

QC BATCH REPORT

Work Order: 2010080

Project: Kodak 34-44

Batch ID: HC201007-61-2

Instrument ID: FUELS-1

Method: SW8015

LCS		Sample ID: HC201007-61			Units: MG/L			Analysis Date: 10/7/2020 13:50				
Client ID:		Run ID: HC201007-61A			Prep Date: 10/7/2020			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
GASOLINE RANGE ORGANICS	0.508	0.1	0.5		102	80-120				20		
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0947		0.1		95	80-120						

LCSD		Sample ID: HC201007-61			Units: MG/L			Analysis Date: 10/7/2020 18:13				
Client ID:		Run ID: HC201007-61A			Prep Date: 10/7/2020			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
GASOLINE RANGE ORGANICS	0.45	0.1	0.5		90	80-120		0.508	12	20		
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0937		0.1		94	80-120			1			

MB		Sample ID: HC201007-61			Units: MG/L			Analysis Date: 10/7/2020 14:14				
Client ID:		Run ID: HC201007-61A			Prep Date: 10/7/2020			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual	
GASOLINE RANGE ORGANICS	ND	0.1										
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0802				80	80-120						

The following samples were analyzed in this batch:

2010080-1

Client: Great Western Operating Company, LLC
 Work Order: 2010080
 Project: Kodak 34-44

QC BATCH REPORT

Batch ID: **HC201008-81-1** Instrument ID **FUELS-1** Method: **SW8015M**

LCS		Sample ID: HC201008-81			Units: MG/L		Analysis Date: 10/10/2020 11:52				
Client ID:		Run ID: HC201008-81A			Prep Date: 10/8/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	8.85	1.07	8.33		106	53-120				20	
Surr: O-TERPHENYL	2.11		1.67		127	69-120					*

LCSD		Sample ID: HC201008-81			Units: MG/L		Analysis Date: 10/10/2020 12:14				
Client ID:		Run ID: HC201008-81A			Prep Date: 10/8/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	8.05	1.07	8.33		97	53-120		8.85	9	20	
Surr: O-TERPHENYL	1.87		1.67		112	69-120			12		

MB		Sample ID: HC201008-81			Units: MG/L		Analysis Date: 10/10/2020 11:31					
Client ID:		Run ID: HC201008-81A			Prep Date: 10/8/2020		DF: 1					
Analyte	Result	ReportLimit										Qual
Diesel Range Organics	ND	1.1										
Surr: O-TERPHENYL	1.6		96	69-120								

The following samples were analyzed in this batch:

Client: Great Western Operating Company, LLC
 Work Order: 2010080
 Project: Kodak 34-44

QC BATCH REPORT

Batch ID: **HC201012-91-1** Instrument ID **MEE-1** Method: **RSK175**

LCS		Sample ID: HC201012-91			Units: UG/L		Analysis Date: 10/12/2020 17:38				
Client ID:		Run ID: HC201012-91A			Prep Date: 10/12/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	117	1	142		82	76-125				25	
ETHANE	225	2	267		84	70-120				25	
PROPANE	330	1	391		84	72-120				25	

LCSD		Sample ID: HC201012-91			Units: UG/L		Analysis Date: 10/12/2020 18:38				
Client ID:		Run ID: HC201012-91A			Prep Date: 10/12/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	126	1	142		88	76-125		117	7	25	
ETHANE	239	2	267		90	70-120		225	6	25	
PROPANE	350	1	391		89	72-120		330	6	25	

MB		Sample ID: HC201012-91			Units: UG/L		Analysis Date: 10/12/2020 18:03					
Client ID:		Run ID: HC201012-91A			Prep Date: 10/12/2020		DF: 1					
Analyte	Result	ReportLimit										Qual
METHANE	ND	1										
ETHANE	ND	2										
PROPANE	ND	1										

The following samples were analyzed in this batch:

Client: Great Western Operating Company, LLC
 Work Order: 2010080
 Project: Kodak 34-44

QC BATCH REPORT

Batch ID: **IP201023-4-1** Instrument ID **ICPMS2** Method: **EPA200.8**

LCS		Sample ID: IM201023-4			Units: UG/L		Analysis Date: 10/28/2020 14:30				
Client ID:		Run ID: IM201028-10A6			Prep Date: 10/23/2020		DF: 10				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	10200	1000	10000		102	85-115				20	
MAGNESIUM	10000	100	10000		100	85-115				20	
POTASSIUM	5260	1000	5000		105	85-115				20	
SODIUM	11200	1000	10000		112	85-115				20	

LCSD		Sample ID: IM201023-4			Units: UG/L		Analysis Date: 10/28/2020 14:36				
Client ID:		Run ID: IM201028-10A6			Prep Date: 10/23/2020		DF: 10				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	10300	1000	10000		103	85-115		10200	1	20	
MAGNESIUM	10100	100	10000		101	85-115		10000	1	20	
POTASSIUM	5200	1000	5000		104	85-115		5260	1	20	
SODIUM	11300	1000	10000		113	85-115		11200	1	20	

MB		Sample ID: FP201013-4			Units: UG/L		Analysis Date: 10/28/2020 14:24					
Client ID:		Run ID: IM201028-10A6			Prep Date: 10/23/2020		DF: 10					
Analyte	Result	ReportLimit										Qual
CALCIUM	ND	1000										
MAGNESIUM	ND	100										
POTASSIUM	ND	1000										
SODIUM	ND	1000										

MB		Sample ID: IP201023-4			Units: UG/L		Analysis Date: 10/28/2020 14:27					
Client ID:		Run ID: IM201028-10A6			Prep Date: 10/23/2020		DF: 10					
Analyte	Result	ReportLimit										Qual
CALCIUM	ND	1000										
MAGNESIUM	ND	100										
POTASSIUM	ND	1000										
SODIUM	ND	1000										

The following samples were analyzed in this batch:

2010080-1	2010080-2
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Client: Great Western Operating Company, LLC
 Work Order: 2010080
 Project: Kodak 34-44

QC BATCH REPORT

Batch ID: VL201015-3-2 Instrument ID HPSV3 Method: SW8260_25

LCS		Sample ID: VL201015-3			Units: %REC		Analysis Date: 10/15/2020 14:32				
Client ID:		Run ID: VL201015-3A			Prep Date: 10/15/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.2		25		105	80-120					
Surr: DIBROMOFLUOROMETHANE	24.9		25		100	80-120					
Surr: TOLUENE-D8	24.4		25		98	80-120					
BENZENE	10.2	1	10		102	80-120				20	
TOLUENE	9.9	1	10		99	80-120				20	
ETHYLBENZENE	10.3	1	10		103	80-120				20	
M+P-XYLENE	20.1	1	20		101	80-120				20	
O-XYLENE	9.85	1	10		98	80-120				20	

LCSD		Sample ID: VL201015-3			Units: %REC		Analysis Date: 10/15/2020 15:12				
Client ID:		Run ID: VL201015-3A			Prep Date: 10/15/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.4		25		106	80-120			1		
Surr: DIBROMOFLUOROMETHANE	25.6		25		103	80-120			3		
Surr: TOLUENE-D8	24.4		25		98	80-120			0		
BENZENE	10	1	10		100	80-120		10.2	2	20	
TOLUENE	9.72	1	10		97	80-120		9.9	2	20	
ETHYLBENZENE	9.86	1	10		99	80-120		10.3	5	20	
M+P-XYLENE	19.5	1	20		97	80-120		20.1	3	20	
O-XYLENE	9.8	1	10		98	80-120		9.85	1	20	

MB		Sample ID: VL201015-3			Units: %REC		Analysis Date: 10/15/2020 16:14				
Client ID:		Run ID: VL201015-3A			Prep Date: 10/15/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.8				103	80-120					
Surr: DIBROMOFLUOROMETHANE	24.9				100	80-120					
Surr: TOLUENE-D8	24.7				99	80-120					
BENZENE	ND	1									
TOLUENE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
TOTAL XYLENES	ND	1									

The following samples were analyzed in this batch:

Client: Great Western Operating Company, LLC

QC BATCH REPORT

Work Order: 2010080

Project: Kodak 34-44

Batch ID: **AK201010-2-1**

Instrument ID **NONE**

Method: **SM2320B**

LCS Sample ID: **AK201010-2** Units: **MG/L** Analysis Date: **10/10/2020**

Client ID: Run ID: **AK201010-1a1** Prep Date: **10/10/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	99.5	5	100		99	85-115				15	

LCSD Sample ID: **AK201010-2** Units: **MG/L** Analysis Date: **10/10/2020**

Client ID: Run ID: **AK201010-1a1** Prep Date: **10/10/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL ALKALINITY AS CaCO3	100	5	100		100	85-115		99.5	1	15	

MB Sample ID: **AK201010-2** Units: **MG/L** Analysis Date: **10/10/2020**

Client ID: Run ID: **AK201010-1a1** Prep Date: **10/10/2020** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	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:

2010080-1

Client: Great Western Operating Company, LLC
 Work Order: 2010080
 Project: Kodak 34-44

QC BATCH REPORT

Batch ID: **IC201007-1-1** Instrument ID **IC3** Method: **EPA300.0**

LCS		Sample ID: IC201007-1			Units: MG/L		Analysis Date: 10/7/2020 11:21				
Client ID:		Run ID: IC201007-1a1			Prep Date: 10/7/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	10.1	0.2	10		101	90-110				15	
SULFATE	50.6	1	50		101	90-110				15	

LCSD		Sample ID: IC201007-1			Units: MG/L		Analysis Date: 10/7/2020 13:59				
Client ID:		Run ID: IC201007-1a1			Prep Date: 10/7/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	10.1	0.2	10		101	90-110		10.1	1	15	
SULFATE	50.3	1	50		101	90-110		50.6	0	15	

MB		Sample ID: IC201007-1			Units: MG/L		Analysis Date: 10/7/2020 11:34					
Client ID:		Run ID: IC201007-1a1			Prep Date: 10/7/2020		DF: 1					
Analyte	Result	ReportLimit										Qual
CHLORIDE	ND	0.2										
SULFATE	ND	1										

The following samples were analyzed in this batch:

Client: Great Western Operating Company, LLC
Work Order: 2010080
Project: Kodak 34-44

QC BATCH REPORT

Batch ID: **TD201007-1-1** Instrument ID **Balance** Method: **SM2540C**

LCS		Sample ID: TD201007-1			Units: MG/L		Analysis Date: 10/12/2020				
Client ID:		Run ID: TD201012-1A1			Prep Date: 10/7/2020		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	410	20	400		102	85-115				14	

MB		Sample ID: TD201007-1			Units: MG/L		Analysis Date: 10/12/2020				
Client ID:		Run ID: TD201012-1A1			Prep Date: 10/7/2020		DF: 1				
Analyte	Result	ReportLimit									Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

2010080-1