



Monday, March 21, 2022

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

Re: ALS Workorder: 2202435
Project Name: Kodak North FD 25-161 HN
Project Number:

Dear Mr. Trehus:

Two water samples were received from Great Western Operating Company, LLC, on 2/24/2022. 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. OBrien
Project Manager

Accreditations: ALS Environmental – Fort Collins is accredited by the following accreditation bodies for various testing scopes in accordance with requirements of each accreditation body. All testing is performed under the laboratory management system, which is maintained to meet these requirement and regulations. Please contact the laboratory or accreditation body for the current scope testing parameters.

ALS Environmental – Fort Collins	
Accreditation Body	License or Certification Number
Arizona	AZ0828
California (CA)	2926
Colorado (CO)	CO01099
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
Oklahoma	1301
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.



2202435

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	-1	High

All QC results were passing, confirming the high surrogate was due to sample matrix interferences. No further action was taken.

All remaining acceptance criteria were met.



Metals:

The sample was analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by Trace ICP followed method 200.7 and the current revision of SOP 834.

Due to the matrix of the sample, the analysis of dissolved metals could not be performed.

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: 2202435

Client Name: Great Western Operating Company, LLC

Client Project Name: Kodak North FD 25-161 HN

Client Project Number:

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
25-161HN A	2202435-1		WATER	23-Feb-22	14:30
25-161 HN B	2202435-2		WATER	23-Feb-22	14:30



ALS Environmental

225 Commerce Drive, Fort Collins, Colorado 80524
 TF: (970) 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 #
 2202485

PROJECT NAME	Rockaway North FD 25-161 HN	
PROJECT No.		
COMPANY NAME	Great Western	
SEND REPORT TO	Matt Trehus	
ADDRESS		
CITY / STATE / ZIP		
PHONE		
FAX		
E-MAIL	MTrehus@GWP.Com	

LAB ID	FIELD ID	MATRIX	SAMPLE DATE	SAMPLE TIME	# OF BOTTLES	PRESERVATIVE	QC	PARAMETER/METHOD REQUEST FOR ANALYSIS											SEE NOTES SECTION				
								A	B	C	D	E	F	G	H	I	J						
1	25-161HN A	W	2/23/22	14:30	3	-		X															
1	25-161HN A				3	HCL			X														
1	25-161HN A				3	HCL				X													
1	25-161HNA				3	HCL					X												
1	25-161HNA				1	-						X											
2	25-161HNB				1	-							X										
1	25-161HNA				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 = filler

RELINQUISHED BY	SIGNATURE	DATE	TIME
RECEIVED BY	Kenny Pratt	2-24-22	14:00
RELINQUISHED BY	Karen Cover	2-24-22	1400
RECEIVED BY			
RELINQUISHED BY			
RECEIVED BY			

REPORT LEVEL / QC REQUIRED

Summary (Standard QC)

LEVEL II (Standard QC)

LEVEL III (Std QC + forms)

LEVEL IV (Std QC + forms + raw)

Facility ID 436951

6 of 17

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



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CONDITION OF SAMPLE UPON RECEIPT FORM

Client: GREAT WESTERN OIL

Workorder No: 2202435

Project Manager: KMO

Initials: KC

Date: 2/24/22

				N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?				X		
Tracking number:						
2. Are custody seals on shipping containers intact?				X		
3. Are custody seals on sample containers intact?				X		
4. Is there a COC (chain-of-custody) present?					X	
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)					X	
6. Are short-hold samples present?						X
7. Are all samples within holding times for the requested analyses?					X	
8. Were all sample containers received intact? (not broken or leaking)					X	
9. Is there sufficient sample for the requested analyses?					X	
10. Are samples in proper containers for requested analyses? (form 250, <i>Sample Handling Guidelines</i>)					X	
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)					X	
12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)						X
13. Were the samples shipped on ice?					X	
14. Were cooler temperatures measured at 0.1-6.0°C?				IR gun used*: #5	RAD ONLY	X
Cooler #: <u>1</u>						
Temperature (°C): <u>1.1</u>						
# of custody seals on cooler: <u>0</u>						
External µR/hr reading: <u>NA</u>						
Background µR/hr reading: <u>11</u>						
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES						

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

Headspace in bottles 4 and 10

Were unpreserved bottles pH checked? NA

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

If applicable, was the client contacted? NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: *Amt* 2/25/22

Client: Great Western Operating Company, LLC
Project: Kodak North FD 25-161 HN
Sample ID: 25-161HN A
Legal Location:
Collection Date: 2/23/2022 14:30

Date: 21-Mar-22
Work Order: 2202435
Lab ID: 2202435-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate			SM2320B		Prep Date: 2/28/2022	PrepBy: KRL
BICARBONATE AS CaCO3	230		20	MG/L	1	2/28/2022
CARBONATE AS CaCO3	310		20	MG/L	1	2/28/2022
TOTAL ALKALINITY AS CaCO3	530		20	MG/L	1	2/28/2022
Diesel Range Organics			SW8015M		Prep Date: 3/7/2022	PrepBy: JRS
Diesel Range Organics	3000		91	MG/L	50	3/8/2022 19:34
Surr: O-TERPHENYL	199	*	69-120	%REC	50	3/8/2022 19:34
Dissolved Gasses			RSK175		Prep Date: 3/7/2022	PrepBy: JRS
METHANE	8200		10	UG/L	10	3/7/2022 17:20
ETHANE	1100		20	UG/L	10	3/7/2022 17:20
PROPANE	16000		10	UG/L	10	3/7/2022 17:20
Gasoline Range Organics			SW8015		Prep Date: 3/1/2022	PrepBy: JRS
GASOLINE RANGE ORGANICS	1000		100	MG/L	1000	3/1/2022 17:45
Surr: 2,3,4-TRIFLUOROTOLUENE	100		80-120	%REC	1000	3/1/2022 17:45
GC/MS Volatiles			SW8260_25		Prep Date: 3/7/2022	PrepBy: TWK
BENZENE	2200		250	UG/L	250	3/8/2022 02:24
TOLUENE	8000		250	UG/L	250	3/8/2022 02:24
ETHYLBENZENE	5000		250	UG/L	250	3/8/2022 02:24
M+P-XYLENE	18000		250	UG/L	250	3/8/2022 02:24
O-XYLENE	8700		250	UG/L	250	3/8/2022 02:24
TOTAL XYLENES	26000		1	UG/L	1	3/8/2022 02:24
Surr: 4-BROMOFLUOROBENZENE	111		80-120	%REC	250	3/8/2022 02:24
Surr: DIBROMOFLUOROMETHANE	92		80-120	%REC	250	3/8/2022 02:24
Surr: TOLUENE-D8	104		80-120	%REC	250	3/8/2022 02:24
Ion Chromatography			EPA300.0		Prep Date: 3/1/2022	PrepBy: AOW
CHLORIDE	2100		50	MG/L	250	3/1/2022 11:48
SULFATE	670		100	MG/L	100	3/1/2022 11:42
Total Recoverable Metals by 200.7			EPA200.7		Prep Date: 3/1/2022	PrepBy: ETC
CALCIUM	1800		10	MG/L	1	3/2/2022 11:51
POTASSIUM	450		10	MG/L	1	3/2/2022 11:51
MAGNESIUM	ND		10	MG/L	1	3/2/2022 11:51
SODIUM	1100		10	MG/L	1	3/2/2022 11:51
Total Dissolved Solids			SM2540C		Prep Date: 2/28/2022	PrepBy: BMK
TOTAL DISSOLVED SOLIDS	17000		400	MG/L	1	3/2/2022

Client: Great Western Operating Company, LLC
Project: Kodak North FD 25-161 HN
Sample ID: 25-161 HN B
Legal Location:
Collection Date: 2/23/2022 14:30

Date: 21-Mar-22
Work Order: 2202435
Lab ID: 2202435-2
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: 3/21/2022 8:23:3

Client: Great Western Operating Company, LLC
 Work Order: 2202435
 Project: Kodak North FD 25-161 HN

QC BATCH REPORT

Batch ID: **HC220301-61-1** Instrument ID: **FUELS-1** Method: **SW8015**

LCS Sample ID: **HC220301-61** Units: **MG/L** Analysis Date: **3/1/2022 15:55**
 Client ID: Run ID: **HC220308-61A** Prep Date: **3/1/2022** 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	0.497	0.1	0.5		99	80-120				20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0986		0.1		99	80-120					

LCSD Sample ID: **HC220301-61** Units: **MG/L** Analysis Date: **3/1/2022 18:33**
 Client ID: Run ID: **HC220308-61A** Prep Date: **3/1/2022** 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	0.493	0.1	0.5		99	80-120		0.497	1	20	
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0995		0.1		99	80-120			1		

MB Sample ID: **HC220301-61** Units: **MG/L** Analysis Date: **3/1/2022 16:10**
 Client ID: Run ID: **HC220308-61A** Prep Date: **3/1/2022** 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	ND	0.1									
Surr: 2,3,4-TRIFLUOROTOLUENE	0.0973				97	80-120					

The following samples were analyzed in this batch:

Client: Great Western Operating Company, LLC
 Work Order: 2202435
 Project: Kodak North FD 25-161 HN

QC BATCH REPORT

Batch ID: **HC220307-81-1** Instrument ID: **FUELS-1** Method: **SW8015M**

LCS		Sample ID: HC220307-81			Units: MG/L		Analysis Date: 3/8/2022 16:19				
Client ID:		Run ID: HC220316-81A			Prep Date: 3/7/2022		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	8.78	1.07	8.33		105	53-120				20	
Surr: O-TERPHENYL	1.69		1.67		102	69-120					

LCSD		Sample ID: HC220307-81			Units: MG/L		Analysis Date: 3/8/2022 16:40				
Client ID:		Run ID: HC220316-81A			Prep Date: 3/7/2022		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	8.93	1.07	8.33		107	53-120		8.78	2	20	
Surr: O-TERPHENYL	1.72		1.67		103	69-120			2		

MB		Sample ID: HC220307-81			Units: MG/L		Analysis Date: 3/8/2022 15:13					
Client ID:		Run ID: HC220316-81A			Prep Date: 3/7/2022		DF: 1					
Analyte	Result	ReportLimit										Qual
Diesel Range Organics	ND	1.1										
Surr: O-TERPHENYL	1.58		95	69-120								

The following samples were analyzed in this batch:

Client: Great Western Operating Company, LLC
 Work Order: 2202435
 Project: Kodak North FD 25-161 HN

QC BATCH REPORT

Batch ID: **HC220307-91-1** Instrument ID: **MEE-1** Method: **RSK175**

LCS Sample ID: **HC220307-91** Units: **UG/L** Analysis Date: **3/7/2022 16:31**
 Client ID: Run ID: **HC220316-91A** Prep Date: **3/7/2022** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	164	1	142		115	76-125				25	
ETHANE	311	2	267		117	70-120				25	
PROPANE	459	1	391		117	72-120				25	

LCSD Sample ID: **HC220307-91** Units: **UG/L** Analysis Date: **3/7/2022 16:49**
 Client ID: Run ID: **HC220316-91A** Prep Date: **3/7/2022** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
METHANE	158	1	142		111	76-125		164	4	25	
ETHANE	301	2	267		113	70-120		311	3	25	
PROPANE	438	1	391		112	72-120		459	5	25	

MB Sample ID: **HC220307-91** Units: **UG/L** Analysis Date: **3/7/2022 16:37**
 Client ID: Run ID: **HC220316-91A** Prep Date: **3/7/2022** 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: 2202435
 Project: Kodak North FD 25-161 HN

QC BATCH REPORT

Batch ID: IP220301-2-2 Instrument ID: ICPTrace2 Method: EPA200.7

LCS		Sample ID: IP220301-2		Units: MG/L			Analysis Date: 3/2/2022 11:31				
Client ID:		Run ID: IT220302-1A4			Prep Date: 3/1/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CALCIUM	39.3	1	40		98	85-115				20	
MAGNESIUM	40.2	1	40		101	85-115				20	
POTASSIUM	43.5	1	40		109	85-115				20	
SODIUM	39.7	1	40		99	85-115				20	

LCSD		Sample ID: IP220301-2		Units: MG/L			Analysis Date: 3/2/2022 11:32				
Client ID:		Run ID: IT220302-1A4			Prep Date: 3/1/2022			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CALCIUM	39.2	1	40		98	85-115		39.3	0	20	
MAGNESIUM	40.1	1	40		100	85-115		40.2	0	20	
POTASSIUM	43.5	1	40		109	85-115		43.5	0	20	
SODIUM	39.5	1	40		99	85-115		39.7	0	20	

MB		Sample ID: IP220301-2		Units: MG/L			Analysis Date: 3/2/2022 11:24					
Client ID:		Run ID: IT220302-1A4			Prep Date: 3/1/2022			DF: 1				
Analyte	Result	ReportLimit										Qual
CALCIUM	ND	1										
MAGNESIUM	ND	1										
POTASSIUM	ND	1										
SODIUM	ND	1										

The following samples were analyzed in this batch:

Client: Great Western Operating Company, LLC
 Work Order: 2202435
 Project: Kodak North FD 25-161 HN

QC BATCH REPORT

Batch ID: VL220307-3-2 Instrument ID: HPV3 Method: SW8260_25

LCS		Sample ID: VL220307-3			Units: %REC		Analysis Date: 3/7/2022 14:25				
Client ID:		Run ID: VL220307-3A			Prep Date: 3/7/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.3		25		101	80-120					
Surr: DIBROMOFLUOROMETHANE	25.5		25		102	80-120					
Surr: TOLUENE-D8	25.4		25		102	80-120					
BENZENE	10.6	1	10		106	80-120				20	
TOLUENE	10.4	1	10		104	80-120				20	
ETHYLBENZENE	10.4	1	10		104	80-120				20	
M+P-XYLENE	20.6	1	20		103	80-120				20	
O-XYLENE	10.3	1	10		103	80-120				20	

LCSD		Sample ID: VL220307-3			Units: %REC		Analysis Date: 3/7/2022 14:47				
Client ID:		Run ID: VL220307-3A			Prep Date: 3/7/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	24.9		25		100	80-120			2		
Surr: DIBROMOFLUOROMETHANE	25.6		25		102	80-120			0		
Surr: TOLUENE-D8	25.5		25		102	80-120			0		
BENZENE	10.5	1	10		105	80-120		10.6	1	20	
TOLUENE	10.5	1	10		105	80-120		10.4	1	20	
ETHYLBENZENE	10.3	1	10		103	80-120		10.4	1	20	
M+P-XYLENE	20.7	1	20		104	80-120		20.6	1	20	
O-XYLENE	10.3	1	10		103	80-120		10.3	0	20	

MB		Sample ID: VL220307-3			Units: %REC		Analysis Date: 3/7/2022 22:48				
Client ID:		Run ID: VL220307-3A			Prep Date: 3/7/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	25.7				103	80-120					
Surr: DIBROMOFLUOROMETHANE	25.1				100	80-120					
Surr: TOLUENE-D8	25.1				100	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:

2202435-1

Client: Great Western Operating Company, LLC
Work Order: 2202435
Project: Kodak North FD 25-161 HN

QC BATCH REPORT

Batch ID: **AK220228-1-1** Instrument ID: **NONE** Method: **SM2320B**

LCS		Sample ID: AK220228-1			Units: MG/L		Analysis Date: 2/28/2022				
Client ID:		Run ID: AK220228-1A			Prep Date: 2/28/2022		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	102	5	100		102	85-115				15	

MB		Sample ID: AK220228-1			Units: MG/L		Analysis Date: 2/28/2022				
Client ID:		Run ID: AK220228-1A			Prep Date: 2/28/2022		DF: 1				
Analyte	Result	ReportLimit	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:

Client: Great Western Operating Company, LLC
 Work Order: 2202435
 Project: Kodak North FD 25-161 HN

QC BATCH REPORT

Batch ID: IC220301-2-1 Instrument ID: IC3 Method: EPA300.0

LCS		Sample ID: IC220301-2			Units: MG/L		Analysis Date: 3/1/2022 09:04				
Client ID:		Run ID: IC220301-1A1			Prep Date: 3/1/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CHLORIDE	9.81	0.2	10		98	90-110				15	
SULFATE	49.9	1	50		100	90-110				15	

LCSD		Sample ID: IC220301-2			Units: MG/L		Analysis Date: 3/1/2022 10:29				
Client ID:		Run ID: IC220301-1A1			Prep Date: 3/1/2022		DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
CHLORIDE	10	0.2	10		100	90-110		9.81	2	15	
SULFATE	50.6	1	50		101	90-110		49.9	1	15	

MB		Sample ID: IC220301-2			Units: MG/L		Analysis Date: 3/1/2022 12:12					
Client ID:		Run ID: IC220301-1A1			Prep Date: 3/1/2022		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: 2202435
 Project: Kodak North FD 25-161 HN

QC BATCH REPORT

Batch ID: **TD220228-1-2** Instrument ID: **Balance** Method: **SM2540C**

LCS		Sample ID: TD220228-1			Units: MG/L		Analysis Date: 3/2/2022				
Client ID:		Run ID: TD220302-1A1			Prep Date: 2/28/2022		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	369	20	400		92	85-115				14	

LCSD		Sample ID: TD220228-1			Units: MG/L		Analysis Date: 3/2/2022				
Client ID:		Run ID: TD220302-1A1			Prep Date: 2/28/2022		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	363	20	400		91	85-115		369	2	14	

MB		Sample ID: TD220228-1			Units: MG/L		Analysis Date: 3/2/2022				
Client ID:		Run ID: TD220302-1A1			Prep Date: 2/28/2022		DF: 1				
Analyte	Result	ReportLimit	Qual								
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch: