



Tuesday, July 07, 2020

Jeremy Pike
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003

Re: ALS Workorder: 2006391
Project Name: North Platte Federal 31-34-22 HNB (447399)
Project Number: 034519039

Dear Mr. Pike:

One water sample was received from LT Environmental, Inc., on 6/22/2020. The sample was scheduled for the following analyses:

Dissolved Gasses

GC/MS Volatiles

Inorganics

Metals

Total Extractable Petroleum Hydrocarbons (Diesel)

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



2006391

GC/MS Volatiles:

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

All surrogate recoveries were within acceptance criteria with the following exception:

Surrogate	Sample	Direction
Dibromofluoromethane	-1	Low

Samples with low surrogate recoveries for dibromofluoromethane are experiencing matrix interference due to the presence of surfactants. Confirmation of this effect was confirmed at a later date. No further action was taken.

All remaining 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.

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 acceptance criteria were met.

Metals:

The sample 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.

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: 2006391

Client Name: LT Environmental, Inc.

Client Project Name: North Platte Federal 31-34-22 HNB (447399)

Client Project Number: 034519039

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Platte Federal 31-34-22 HN	2006391-1		WATER	22-Jun-20	11:20



2225 Commerce Drive, Fort Collins, Colorado 80524
 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

[illegible]

*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.

Comments:		QC PACKAGE (check below)										
6 of 17		LEVEL II (Standard QC)		LEVEL III (Std QC + forms)		LEVEL IV (Std QC + forms + raw data)						
Preservative Key:		1-HCl	2-HNO3	3-H2SO4	4-NaOH	5-NaHSO4	7-Other	8-4 degrees C	9-5035			



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client Name/ID:

LTE

Workorder No:

2006391

Project Manager:

KMO

Initials:

TM

Date:

6/22/20

1. Are airbills / shipping documents present and/or removable?	<input checked="" type="checkbox"/> Drop Off	<input type="checkbox"/> YES	<input type="checkbox"/> NO
2. Are custody seals on shipping containers intact?	<input checked="" type="checkbox"/> NONE	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
3. Are custody seals on sample containers intact?	<input checked="" type="checkbox"/> NONE	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
4. Is there a COC (chain-of-custody) present?	<input checked="" type="checkbox"/>	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
6. Are short-hold samples present?	<input type="checkbox"/>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
7. Are all samples within holding times for the requested analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
8. Were all sample containers received intact? (not broken or leaking)	<input checked="" type="checkbox"/>	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
9. Is there sufficient sample for the requested analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
10. Are samples in proper containers for requested analyses? (form 250, Sample Handling Guidelines)	<input checked="" type="checkbox"/>	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
11. Are all aqueous samples preserved correctly, if required?	<input type="checkbox"/> N/A	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO*
12. Were unpreserved samples pH checked, if required?	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> YES	<input type="checkbox"/> NO
13. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm in diameter?	<input type="checkbox"/> N/A	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
14. Were the samples shipped on ice?	<input checked="" type="checkbox"/>	<input type="checkbox"/> YES	<input type="checkbox"/> NO
15. Were cooler temperatures measured at 0.1 - 6.0°C?	IR gun used: <input type="checkbox"/> #3 <input checked="" type="checkbox"/> #5	<input type="checkbox"/> Rad Only	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Cooler #:	1
Temperature (°C):	5.4
# of custody seals on cooler:	0
External mR/hr reading:	-
Background mR/hr reading:	11
Were external mR/hr readings ≤ two times background and within DOT acceptance criteria? (If no, see Form 008)	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> YES <input type="checkbox"/> NO

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

11.) 391-1-2 read initial pH of 14: added 1.0mL HNO ₃ (lot# 234822) for final pH of 13
13.) 391-1-4,6,8,9,10 have notable headspace
All client bottle ID's vs ALS lab ID's double-checked by: TM

If applicable, was the client contacted?	<input type="checkbox"/> YES <input type="checkbox"/> N/A	Contact Name	Date:
Project Manager Signature / Date:	6/23/20		

Client: LT Environmental, Inc.

Date: 07-Jul-20

Project: 034519039 North Platte Federal 31-34-22 HNB (447399)

Work Order: 2006391

Sample ID: North Platte Federal 31-34-22 HNB (447399)

Lab ID: 2006391-1

Legal Location:

Matrix: WATER

Collection Date: 6/22/2020 11:20

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate		SM2320B			Prep Date: 7/6/2020	PrepBy: KJS
TOTAL ALKALINITY AS CaCO3	5400		100	MG/L	1	7/6/2020
BICARBONATE AS CaCO3	ND		100	MG/L	1	7/6/2020
CARBONATE AS CaCO3	570		100	MG/L	1	7/6/2020
Diesel Range Organics		SW8015M			Prep Date: 6/25/2020	PrepBy: JRS
Diesel Range Organics	44		1	MG/L	1	6/26/2020 10:49
Surr: O-TERPHENYL	72		69-120	%REC	1	6/26/2020 10:49
Dissolved Gasses		RSK175			Prep Date: 6/25/2020	PrepBy: DMS
METHANE	300		1	UG/L	1	6/25/2020 17:02
ETHANE	87		2	UG/L	1	6/25/2020 17:02
PROPANE	28		1	UG/L	1	6/25/2020 17:02
GC/MS Volatiles		SW8260_25			Prep Date: 6/26/2020	PrepBy: C1A
BENZENE	43		1	UG/L	2	6/26/2020 13:44
TOLUENE	85		1	UG/L	2	6/26/2020 13:44
ETHYLBENZENE	22		1	UG/L	2	6/26/2020 13:44
M+P-XYLENE	87		1	UG/L	2	6/26/2020 13:44
O-XYLENE	57		1	UG/L	2	6/26/2020 13:44
TOTAL XYLENES	140		1	UG/L	1	6/26/2020 13:44
Surr: 4-BROMOFLUOROBENZENE	105		80-120	%REC	2	6/26/2020 13:44
Surr: DIBROMOFLUOROMETHANE	34	*	80-120	%REC	2	6/26/2020 13:44
Surr: TOLUENE-D8	101		80-120	%REC	2	6/26/2020 13:44
GASOLINE RANGE ORGANICS	4100		200	UG/L	2	6/26/2020 13:44
Ion Chromatography		EPA300.0			Prep Date: 6/23/2020	PrepBy: KJS
CHLORIDE	1900		20	MG/L	100	6/25/2020 13:02
SULFATE	86		50	MG/L	50	6/25/2020 12:49
Total Recoverable Metals by 200.8		EPA200.8			Prep Date: 6/25/2020	PrepBy: JML
CALCIUM	850		1	MG/L	10	6/25/2020 15:52
MAGNESIUM	0.45		0.1	MG/L	10	6/25/2020 15:52
POTASSIUM	4200		1	MG/L	10	6/25/2020 15:52
SODIUM	1100		1	MG/L	10	6/25/2020 15:52
Total Dissolved Solids		SM2540C			Prep Date: 6/23/2020	PrepBy: LMC
TOTAL DISSOLVED SOLIDS	9200		1000	MG/L	1	6/26/2020

Client: LT Environmental, Inc. **Date:** 07-Jul-20
Project: 034519039 North Platte Federal 31-34-22 HNB (447399) **Work Order:** 2006391
Sample ID: North Platte Federal 31-34-22 HNB (447399) **Lab ID:** 2006391-1
Legal Location: **Matrix:** WATER
Collection Date: 6/22/2020 11:20 **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: 7/7/2020 3:50:2

Client: LT Environmental, Inc.

QC BATCH REPORT

Work Order: 2006391

Project: 034519039 North Platte Federal 31-34-22 HNB

Batch ID: HC200625-81-1

Instrument ID: FUELS-1

Method: SW8015M

LCS	Sample ID: HC200625-81	Units: MG/L				Analysis Date: 6/26/2020 17:32					
Client ID:	Run ID: HC200625-81A				Prep Date: 6/25/2020				DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	8.35	1.07	8.33		100	53-120				20	
Surr: O-TERPHENYL	1.7		1.67		102	69-120					

LCSD	Sample ID: HC200625-81				Units: MG/L		Analysis Date: 6/26/2020 18:14				
Client ID:	Run ID: HC200625-81A				Prep Date: 6/25/2020			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Diesel Range Organics	8.39	1.07	8.33		101	53-120		8.35	0	20	
Surr: O-TERPHENYL	1.71		1.67		103	69-120			1		

MB	Sample ID: HC200625-81	Units: MG/L	Analysis Date: 6/26/2020 10:27
Client ID:	Run ID: HC200625-81A	Prep Date: 6/25/2020	DF: 1
Analyte	Result	ReportLimit	Qual
Diesel Range Organics	ND	1.1	
Surr: O-TERPHENYL	1.59	95 69-120	

The following samples were analyzed in this batch:

2006391-1

Client: LT Environmental, Inc.
Work Order: 2006391
Project: 034519039 North Platte Federal 31-34-22 HNB

QC BATCH REPORT

Batch ID: **HC200625-91-1** Instrument ID **MEE-1** Method: **RSK175**

LCS	Sample ID: HC200625-91				Units: UG/L		Analysis Date: 6/25/2020 15:04				
Client ID:	Run ID: HC200625-91A				Prep Date: 6/25/2020			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	128	1	142		90	76-125				25	
ETHANE	247	2	267		93	70-120				25	
PROPANE	361	1	391		92	72-120				25	

LCSD	Sample ID: HC200625-91				Units: UG/L		Analysis Date: 6/25/2020 17:09				
Client ID:	Run ID: HC200625-91A				Prep Date: 6/25/2020			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
METHANE	128	1	142		90	76-125		128	0	25	
ETHANE	246	2	267		92	70-120		247	0	25	
PROPANE	361	1	391		92	72-120		361	0	25	

MB		Sample ID: HC200625-91			Units: UG/L		Analysis Date: 6/25/2020 15:39		
Client ID:		Run ID: HC200625-91A			Prep Date: 6/25/2020			DF: 1	
Analyte		Result	ReportLimit		Qual				
METHANE		ND	1						
ETHANE		ND	2						
PROPANE		ND	1						

The following samples were analyzed in this batch:

2006391-1

Client: LT Environmental, Inc.
Work Order: 2006391
Project: 034519039 North Platte Federal 31-34-22 HNB

QC BATCH REPORT

Batch ID: **IP200625-1-1** Instrument ID: **ICPMS2** Method: **EPA200.8**

LCS	Sample ID: IM200625-1				Units: MG/L		Analysis Date: 6/25/2020 15:29				
Client ID:	Run ID: IM200625-20A10				Prep Date: 6/25/2020			DF: 10			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	11.1	1	10		111	85-115				20	
MAGNESIUM	10	0.1	10		100	85-115				20	
POTASSIUM	4.85	1	5		97	85-115				20	
SODIUM	9.94	1	10		99	85-115				20	

LCSD	Sample ID: IM200625-1				Units: MG/L		Analysis Date: 6/25/2020 15:35				
Client ID:	Run ID: IM200625-20A10				Prep Date: 6/25/2020			DF: 10			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	10.7	1	10		107	85-115		11.1	4	20	
MAGNESIUM	9.98	0.1	10		100	85-115		10	1	20	
POTASSIUM	4.92	1	5		98	85-115		4.85	1	20	
SODIUM	9.94	1	10		99	85-115		9.94	0	20	

MB		Sample ID: IP200625-1		Units: MG/L		Analysis Date: 6/25/2020 15:26	
Client ID:		Run ID: IM200625-20A10		Prep Date: 6/25/2020		DF: 10	
Analyte	Result	ReportLimit					Qual
CALCIUM	ND	1					
MAGNESIUM	ND	0.1					
POTASSIUM	ND	1					
SODIUM	ND	1					

The following samples were analyzed in this batch:

2006391-1

Client: LT Environmental, Inc.
Work Order: 2006391
Project: 034519039 North Platte Federal 31-34-22 HNB

QC BATCH REPORT

Batch ID: **VL200626-3-1** Instrument ID **HPV3** Method: **SW8260_25**

LCS	Sample ID: VL200626-33			Units: UG/L			Analysis Date: 6/26/2020 12:05				
Client ID:		Run ID: VL200626-3A			Prep Date: 6/26/2020			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1090	100	1000		109	75-121				20	

LCSD	Sample ID: VL200626-33			Units: UG/L			Analysis Date: 6/26/2020 12:25				
Client ID:	Run ID: VL200626-3A			Prep Date: 6/26/2020			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1050	100	1000		105	75-121		1090	3	20	

MB		Sample ID: VL200626-3			Units: UG/L		Analysis Date: 6/26/2020 12:44		
Client ID:			Run ID: VL200626-3A			Prep Date: 6/26/2020			DF: 1
Analyte		Result	ReportLimit						
GASOLINE RANGE ORGANICS		ND	100						

The following samples were analyzed in this batch:

2006391-1

Client: LT Environmental, Inc.
Work Order: 2006391
Project: 034519039 North Platte Federal 31-34-22 HNB

QC BATCH REPORT

Batch ID: **VL200626-3-2** Instrument ID: **HPV3** Method: **SW8260_25**

LCS	Sample ID: VL200626-3			Units: %REC			Analysis Date: 6/26/2020 11:25				
Client ID:	Run ID: VL200626-3A			Prep Date: 6/26/2020			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		25		103	80-120					
Surr: DIBROMOFLUOROMETHANE	25.2		25		101	80-120					
Surr: TOLUENE-D8	25.5		25		102	80-120					
BENZENE	10.8	1	10		108	80-120				20	
TOLUENE	10.5	1	10		105	80-120				20	
ETHYLBENZENE	10.4	1	10		104	80-120				20	
M+P-XYLENE	21.4	1	20		107	80-120				20	
O-XYLENE	10.7	1	10		107	80-120				20	

LCSD		Sample ID: VL200626-3				Units: %REC		Analysis Date: 6/26/2020 11:45			
Client ID:		Run ID: VL200626-3A				Prep Date: 6/26/2020			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		25		100	80-120			3		
Surr: DIBROMOFLUOROMETHANE	25.7		25		103	80-120			2		
Surr: TOLUENE-D8	25.4		25		101	80-120			1		
BENZENE	10.6	1	10		106	80-120		10.8	2	20	
TOLUENE	10.4	1	10		104	80-120		10.5	1	20	
ETHYLBENZENE	10.2	1	10		102	80-120		10.4	2	20	
M+P-XYLENE	21.1	1	20		105	80-120		21.4	1	20	
O-XYLENE	10.5	1	10		105	80-120		10.7	2	20	

MB		Sample ID: VL200626-3		Units: %REC		Analysis Date: 6/26/2020 12:44	
Client ID:		Run ID: VL200626-3A		Prep Date: 6/26/2020		DF: 1	
Analyte	Result	ReportLimit					Qual
Surr: 4-BROMOFLUOROBENZENE	26.7				107	80-120	
Surr: DIBROMOFLUOROMETHANE	25.1				100	80-120	
Surr: TOLUENE-D8	25.3				101	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:

2006391-1

Client: LT Environmental, Inc.
 Work Order: 2006391
 Project: 034519039 North Platte Federal 31-34-22 HNB

QC BATCH REPORT

Batch ID: **AK200706-1-1** Instrument ID **NONE** Method: **SM2320B**

DUP Sample ID: **2006391-1** Units: **MG/L** Analysis Date: **7/6/2020**
 Client ID: **North Platte Federal 31-34-22 HNB (447399)** Run ID: **AK200706-1a1** Prep Date: **7/6/2020** 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	5190	100						5400	4	15	
BICARBONATE AS CaCO3	ND	100						100		15	
CARBONATE AS CaCO3	614	100						570	8	15	

LCS Sample ID: **AK200706-1** Units: **MG/L** Analysis Date: **7/6/2020**
 Client ID: Run ID: **AK200706-1a1** Prep Date: **7/6/2020** 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	98.5	5	100		98	85-115				15	

LCSD Sample ID: **AK200706-1** Units: **MG/L** Analysis Date: **7/6/2020**
 Client ID: Run ID: **AK200706-1a1** Prep Date: **7/6/2020** 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		98.5	2	15	

MB Sample ID: **AK200706-1** Units: **MG/L** Analysis Date: **7/6/2020**
 Client ID: Run ID: **AK200706-1a1** Prep Date: **7/6/2020** 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	ND	5									
BICARBONATE AS CaCO3	ND	5									
CARBONATE AS CaCO3	ND	5									

The following samples were analyzed in this batch: 2006391-1

Client: LT Environmental, Inc.
Work Order: 2006391
Project: 034519039 North Platte Federal 31-34-22 HNB

QC BATCH REPORT

Batch ID: **IC200623-1-1** Instrument ID **IC3** Method: **EPA300.0**

LCS	Sample ID: IC200623-1				Units: MG/L		Analysis Date: 6/23/2020 16:15				
Client ID:	Run ID: IC200623-1a1				Prep Date: 6/23/2020			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	10.2	0.2	10		102	90-110				15	
SULFATE	50.9	1	50		102	90-110				15	

LCSD	Sample ID: IC200623-1				Units: MG/L		Analysis Date: 6/23/2020 18:54				
Client ID:	Run ID: IC200623-1a1				Prep Date: 6/23/2020			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	10.2	0.2	10		102	90-110		10.2	0	15	
SULFATE	50.8	1	50		102	90-110		50.9	0	15	

MB		Sample ID: IC200623-1		Units: MG/L		Analysis Date: 6/23/2020 16:29	
Client ID:		Run ID: IC200623-1a1		Prep Date: 6/23/2020		DF: 1	
Analyte		Result	ReportLimit				
CHLORIDE		ND	0.2				
SULFATE		ND	1				

The following samples were analyzed in this batch:

2006391-1

Client: LT Environmental, Inc.
Work Order: 2006391
Project: 034519039 North Platte Federal 31-34-22 HNB

QC BATCH REPORT

Batch ID: **TD200623-1-2** Instrument ID **Balance** Method: **SM2540C**

LCS	Sample ID: TD200623-1			Units: MG/L			Analysis Date: 6/26/2020				
Client ID:		Run ID: TD200626-1A1			Prep Date: 6/23/2020			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	398	20	400		100	85-115				14	

MB		Sample ID: TD200623-1		Units: MG/L		Analysis Date: 6/26/2020	
Client ID:		Run ID: TD200626-1A1		Prep Date: 6/23/2020		DF: 1	
Analyte		Result	ReportLimit				
TOTAL DISSOLVED SOLIDS		ND	20				

The following samples were analyzed in this batch:

2006391-1