



Tuesday, July 07, 2020

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

Re: ALS Workorder: 2006394  
Project Name: North Platte F-J-28 HNC (455362)  
Project Number: 034520031

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



## 2006394

### 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

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.

### 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

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**OrderNum:** 2006394

**Client Name:** LT Environmental, Inc.

**Client Project Name:** North Platte F-J-28 HNC (455362)

**Client Project Number:** 034520031

**Client PO Number:**

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
North Platte F-J-28 HNC (455362	2006394-1		WATER	22-Jun-20	8:48

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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.**

**Time Zone (Circle):** EST   CSI   MS1   PST   Matrix: U = 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)**

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:

2006394

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"/> YES	<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"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
6. Are short-hold samples present?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
7. Are all samples within holding times for the requested analyses?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
8. Were all sample containers received intact? (not broken or leaking)	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> YES	<input type="checkbox"/> NO*
9. Is there sufficient sample for the requested analyses?	<input checked="" type="checkbox"/> YES	<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"/> YES	<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"/> YES	<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): 5.9

# 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)

☒ N/A ☐ YES ☐ 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.) 394-1-2 read initial pH of 14: added 1.0mL HNO<sub>3</sub> (lot# 234822) for final pH of 13


13.) 393-1-3,6,7 have notable headspace

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

If applicable, was the client contacted? ☐ YES ☐ N/A Contact Name

Date:

Project Manager Signature / Date:

 6/23/20

Client: LT Environmental, Inc.

Date: 07-Jul-20

Project: 034520031 North Platte F-J-28 HNC (455362)

Work Order: 2006394

Sample ID: North Platte F-J-28 HNC (455362)

Lab ID: 2006394-1

Legal Location:

Matrix: WATER

Collection Date: 6/22/2020 08:48

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Alkalinity as Calcium Carbonate</b>		<b>SM2320B</b>			Prep Date: 7/6/2020	PrepBy: KJS
TOTAL ALKALINITY AS CaCO3	8700		100	MG/L	1	7/6/2020
BICARBONATE AS CaCO3	ND		100	MG/L	1	7/6/2020
CARBONATE AS CaCO3	740		100	MG/L	1	7/6/2020
<b>Diesel Range Organics</b>		<b>SW8015M</b>			Prep Date: 6/25/2020	PrepBy: JRS
Diesel Range Organics	26		1	MG/L	1	6/26/2020 11:52
Surr: O-TERPHENYL	105		69-120	%REC	1	6/26/2020 11:52
<b>Dissolved Gasses</b>		<b>RSK175</b>			Prep Date: 6/25/2020	PrepBy: DMS
METHANE	98		1	UG/L	1	6/25/2020 17:16
ETHANE	40		2	UG/L	1	6/25/2020 17:16
PROPANE	13		1	UG/L	1	6/25/2020 17:16
<b>GC/MS Volatiles</b>		<b>SW8260_25</b>			Prep Date: 7/1/2020	PrepBy: C1A
BENZENE	60		1	UG/L	5	7/1/2020 19:14
TOLUENE	110		1	UG/L	5	7/1/2020 19:14
ETHYLBENZENE	19		1	UG/L	5	7/1/2020 19:14
M+P-XYLENE	72		1	UG/L	5	7/1/2020 19:14
O-XYLENE	48		1	UG/L	5	7/1/2020 19:14
TOTAL XYLENES	120		1	UG/L	1	7/1/2020 19:14
Surr: 4-BROMOFLUOROBENZENE	103		80-120	%REC	5	7/1/2020 19:14
Surr: DIBROMOFLUOROMETHANE	39	*	80-120	%REC	5	7/1/2020 19:14
Surr: TOLUENE-D8	100		80-120	%REC	5	7/1/2020 19:14
GASOLINE RANGE ORGANICS	11000		500	UG/L	5	7/1/2020 19:14
<b>Ion Chromatography</b>		<b>EPA300.0</b>			Prep Date: 6/23/2020	PrepBy: KJS
CHLORIDE	760		10	MG/L	50	6/25/2020 14:48
SULFATE	390		25	MG/L	25	6/25/2020 14:35
<b>Total Recoverable Metals by 200.8</b>		<b>EPA200.8</b>			Prep Date: 6/25/2020	PrepBy: JML
CALCIUM	230		1	MG/L	10	6/25/2020 16:25
MAGNESIUM	0.19		0.1	MG/L	10	6/25/2020 16:25
POTASSIUM	4400		1	MG/L	10	6/25/2020 16:25
SODIUM	2600		1	MG/L	10	6/25/2020 16:25
<b>Total Dissolved Solids</b>		<b>SM2540C</b>			Prep Date: 6/29/2020	PrepBy: LMC
TOTAL DISSOLVED SOLIDS	8700		1000	MG/L	1	6/30/2020



<b>Client:</b>	LT Environmental, Inc.	<b>Date:</b>	07-Jul-20
<b>Project:</b>	034520031 North Platte F-J-28 HNC (455362)	<b>Work Order:</b>	2006394
<b>Sample ID:</b>	North Platte F-J-28 HNC (455362)	<b>Lab ID:</b>	2006394-1
<b>Legal Location:</b>		<b>Matrix:</b>	WATER
<b>Collection Date:</b>	6/22/2020 08:48	<b>Percent Moisture:</b>	

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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**Explanation of Qualifiers****Radiochemistry:**

- "Report Limit" is the MDC	M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
U or ND - Result is less than the sample specific MDC.	L - LCS Recovery below lower control limit.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.	H - LCS Recovery above upper control limit.
Y2 - Chemical Yield outside default limits.	P - LCS, Matrix Spike Recovery within control limits.
W - DER is greater than Warning Limit of 1.42	N - Matrix Spike Recovery outside control limits
* - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.	NC - Not Calculated for duplicate results less than 5 times MDC
# - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.	B - Analyte concentration greater than MDC.
G - Sample density differs by more than 15% of LCS density.	B3 - Analyte concentration greater than MDC but less than Requested MDC.
D - DER is greater than Control Limit	
M - Requested MDC not met.	

**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: 7/7/2020 2:30:4

Client: LT Environmental, Inc.

## QC BATCH REPORT

Work Order: 2006394

Project: 034520031 North Platte F-J-28 HNC (455362)

Batch ID: HC200625-81-1

Instrument ID FUELS-1

Method: SW8015M

LCS	Sample ID: <b>HC200625-81</b>				Units: <b>MG/L</b>		Analysis Date: <b>6/26/2020 17:32</b>				
Client ID:	Run ID: <b>HC200625-81A</b>				Prep Date: <b>6/25/2020</b>			DF: <b>1</b>			
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:

2006394-1

**Client:** LT Environmental, Inc.  
**Work Order:** 2006394  
**Project:** 034520031 North Platte F-J-28 HNC (455362)

## QC BATCH REPORT

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

LCS	Sample ID: <b>HC200625-91</b>				Units: <b>UG/L</b>		Analysis Date: <b>6/25/2020 15:04</b>				
Client ID:	Run ID: <b>HC200625-91A</b>				Prep Date: <b>6/25/2020</b>			DF: <b>1</b>			
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:

2006394-1

**Client:** LT Environmental, Inc.  
**Work Order:** 2006394  
**Project:** 034520031 North Platte F-J-28 HNC (455362)

## 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	

<b>MB</b>		Sample ID: <b>IP200625-1</b>		Units: <b>MG/L</b>		Analysis Date: <b>6/25/2020 15:26</b>	
Client ID:		Run ID: <b>IM200625-20A10</b>		Prep Date: <b>6/25/2020</b>		DF: <b>10</b>	
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:

2006394-1

**Client:** LT Environmental, Inc.  
**Work Order:** 2006394  
**Project:** 034520031 North Platte F-J-28 HNC (455362)

## QC BATCH REPORT

Batch ID: **VL200701-3A-1** Instrument ID **HPV3** Method: **SW8260\_25**

LCS	Sample ID: VL200701-33A				Units: UG/L		Analysis Date: 7/1/2020 18:14				
Client ID:		Run ID: VL200701-3A3				Prep Date: 7/1/2020			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
GASOLINE RANGE ORGANICS	1080	100	1000		108	75-121				20	

LCSD	Sample ID: <b>VL200701-33A</b>				Units: <b>UG/L</b>		Analysis Date: <b>7/1/2020 18:34</b>				
Client ID:	Run ID: <b>VL200701-3A3</b>				Prep Date: <b>7/1/2020</b>			DF: <b>1</b>			
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		1080	3	20	

MB		Sample ID: VL200701-3A			Units: UG/L		Analysis Date: 7/1/2020 13:29	
Client ID:		Run ID: VL200701-3A3			Prep Date: 7/1/2020		DF: 1	
Analyte		Result	ReportLimit					
GASOLINE RANGE ORGANICS		ND	100					

The following samples were analyzed in this batch:

2006394-1

**Client:** LT Environmental, Inc.  
**Work Order:** 2006394  
**Project:** 034520031 North Platte F-J-28 HNC (455362)

## QC BATCH REPORT

Batch ID: **VL200701-3A-2**      Instrument ID: **HPV3**      Method: **SW8260\_25**

<b>LCS</b>		Sample ID: <b>VL200701-3A</b>			Units: <b>%REC</b>		Analysis Date: <b>7/1/2020 12:19</b>				
Client ID:		Run ID: <b>VL200701-3A3</b>			Prep Date: <b>7/1/2020</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26		25		104	80-120					
Surr: DIBROMOFLUOROMETHANE	25.1		25		100	80-120					
Surr: TOLUENE-D8	24.8		25		99	80-120					
BENZENE	9.73	1	10		97	80-120				20	
TOLUENE	9.38	1	10		94	80-120				20	
ETHYLBENZENE	9.08	1	10		91	80-120				20	
M+P-XYLENE	19.2	1	20		96	80-120				20	
O-XYLENE	9.32	1	10		93	80-120				20	

<b>LCSD</b>		Sample ID: <b>VL200701-3A</b>			Units: <b>%REC</b>		Analysis Date: <b>7/1/2020 13:09</b>				
Client ID:		Run ID: <b>VL200701-3A3</b>			Prep Date: <b>7/1/2020</b>		DF: <b>1</b>				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
Surr: 4-BROMOFLUOROBENZENE	26.1		25		104	80-120			0		
Surr: DIBROMOFLUOROMETHANE	24.7		25		99	80-120			2		
Surr: TOLUENE-D8	25.2		25		101	80-120			2		
BENZENE	9.73	1	10		97	80-120		9.73	0	20	
TOLUENE	9.46	1	10		95	80-120		9.38	1	20	
ETHYLBENZENE	9.43	1	10		94	80-120		9.08	4	20	
M+P-XYLENE	19.6	1	20		98	80-120		19.2	2	20	
O-XYLENE	9.7	1	10		97	80-120		9.32	4	20	

MB		Sample ID: VL200701-3A		Units: %REC		Analysis Date: 7/1/2020 13:29	
Client ID:		Run ID: VL200701-3A3		Prep Date: 7/1/2020		DF: 1	
Analyte		Result	ReportLimit			Qual	
Surr: 4-BROMOFLUOROBENZENE		25.8		103	80-120		
Surr: DIBROMOFLUOROMETHANE		25.2		101	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:

2006394-1

**Client:** LT Environmental, Inc.  
**Work Order:** 2006394  
**Project:** 034520031 North Platte F-J-28 HNC (455362)

## QC BATCH REPORT

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

LCS	Sample ID: <b>AK200706-1</b>				Units: <b>MG/L</b>		Analysis Date: <b>7/6/2020</b>				
Client ID:		Run ID: <b>AK200706-1a1</b>				Prep Date: <b>7/6/2020</b>			DF: <b>1</b>		
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: <b>AK200706-1</b>				Units: <b>MG/L</b>		Analysis Date: <b>7/6/2020</b>				
Client ID:	Run ID: <b>AK200706-1a1</b>				Prep Date: <b>7/6/2020</b>			DF: <b>1</b>			
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	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:

2006394-1

**Client:** LT Environmental, Inc.  
**Work Order:** 2006394  
**Project:** 034520031 North Platte F-J-28 HNC (455362)

## 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	Qual			
CHLORIDE		ND	0.2				
SULFATE		ND	1				

The following samples were analyzed in this batch:

2006394-1



**Client:** LT Environmental, Inc.  
**Work Order:** 2006394  
**Project:** 034520031 North Platte F-J-28 HNC (455362)

## QC BATCH REPORT

Batch ID: **TD200629-1-1** Instrument ID **Balance** Method: **SM2540C**

<b>LCS</b>		Sample ID: <b>TD200629-1</b>			Units: <b>MG/L</b>			Analysis Date: <b>6/30/2020</b>			
Client ID:		Run ID: <b>TD200630-1A1</b>			Prep Date: <b>6/29/2020</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	406	20	400		102	85-115				14	

<b>MB</b>		Sample ID: <b>TD200629-1</b>			Units: <b>MG/L</b>			Analysis Date: <b>6/30/2020</b>			
Client ID:		Run ID: <b>TD200630-1A1</b>			Prep Date: <b>6/29/2020</b>			DF: <b>1</b>			
Analyte	Result	ReportLimit									Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

2006394-1