

Wednesday, May 18, 2016

Andy Verbonitz
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003

Re: ALS Workorder: 1605059
Project Name: Tudex Reinholt NC4
Project Number: 055115011

Dear Verbonitz:

Three water samples were received from LT Environmental, Inc., on 5/4/2016. The samples were scheduled for the following analyses:

BART

GC/MS Semivolatiles

GC/MS Volatiles

Inorganics

Metals

subcon: no method specified

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.

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

Sincerely,



ALS Environmental
Amy R. Wolf
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
Alaska (AK)	UST-086
Alaska (AK)	CO01099
Arizona (AZ)	AZ0742
California (CA)	06251CA
Colorado (CO)	CO01099
Connecticut (CT)	PH-0232
Florida (FL)	E87914
Idaho (ID)	CO01099
Kansas (KS)	E-10381
Kentucky (KY)	90137
L-A-B (DoD ELAP/ISO 170250)	L2257
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



1605059

GC/MS Volatiles:

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

- All compounds in the daily (continuing) calibration verifications were within 20%D with the exception of iodomethane which was low. This compound was not detected in the associated samples.

All remaining acceptance criteria were met.

GC/MS Semivolatiles:

The samples were analyzed using GC/MS following the current revision of SOP 506 based on SW-846 Method 8270D.

- All compounds in the daily (continuing) calibration verifications were within 20%D with the exception of benzoic acid which was low. This compound was not detected in the associated sample.
- All surrogate recoveries were within acceptance criteria with the following exception:

Surrogate	Sample	Direction
Terphenyl-D ₁₄	-1	Low

The re-analysis of the sample confirmed the original surrogate analysis. This suggests that the outliers were due to matrix effects. No further action was taken.

All remaining acceptance criteria were met.

BART:

The Biological Activity Reaction Test was completed with the Iron-Related Bacteria, Sulfate-Reducing Bacteria, and Slime-Forming Bacteria kit manufactured by Hach Company. The analysis was performed following the manufacturer provided instructions. If the target analyte is not detected (absent), then the sample will be reported with "ND" in the result field. If the target analyte is detected (present), then the sample will be reported with the estimated colony forming units/mL (cfu/mL) as provided by the manufacturer based on the day reaction was observed.

**Metals:**

The samples were analyzed following Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures. Analysis by ICPMS followed method 200.8 and the current revision of SOP 827.

The samples were to be analyzed for dissolved metals. The samples had been filtered and prior to receipt.

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
TSS	SM2540D	1100
Bromide	300.0 Revision 2.1	1113
Chloride	300.0 Revision 2.1	1113
Sulfate	300.0 Revision 2.1	1113

All acceptance criteria were met.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1605059

Client Name: LT Environmental, Inc.

Client Project Name: Tudex Reinholt NC4

Client Project Number: 055115011

Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Brhd	1605059-1		WATER	03-May-16	13:15
Trip Blank	1605059-2		WATER	03-May-16	
Brhd	1605059-3		WATER	03-May-16	13:15



ALS Environmental

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

Chain-of-Custody

2 seals intact

Turnaround time for samples received after 2 p.m. will be calculated beginning from the next business day. 5.0°C
Turnaround time for samples received Saturday will be calculated beginning from the next business day.

ALS WORKORDER #	1605059
PAGE	1 of 1
DISPOSAL	BY LAB or RETURN

TURNAROUND TIME	standard	SAMPLER	Sheldon Chapman	PARAMETER/METHOD REQUEST FOR ANALYSIS
SITE ID				
EDD FORMAT				
PURCHASE ORDER				
BILL TO COMPANY				A VOCs (8260)
INVOICE ATTN TO				B SVOCs (8270 D)
ADDRESS				C Total Metals - Ca, K, Na, Mg, Fe
CITY/STATE/ZIP				D Anions - Br ⁻ , Cl ⁻ , SO ₄ ²⁻
PHONE				E Alkalinity - bicarb, carb, total
FAX				F TDS
E-MAIL				G TSS
				H BART
				I H ₂ S
				J CO ₂

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	Brhd	W	5/3/16	1315	3	HCl		X										
	Brhd	W	5/3/16	1315	1	None			X									
	Brhd	W	5/3/16	1315	1	HNO ₃				X								
	Brhd	W	5/3/16	1315	1	None					X	X	X	X				
	Brhd	W	5/3/16	1315	1	None									X			
	Brhd	W	5/3/16	1315	3	None										X		
	Brhd	W	5/3/16	1315	3	None											X	
	② Trip Blank	W	5/3/16	—	2	HCl		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

See ALS quote # 160314-1 Rev 1 5 of 27	REPORT LEVEL / QC REQUIRED	SIGNATURE	PRINTED NAME	DATE	TIME
	Summary (Standard QC)	RELINQUISHED BY	Robert AD Evans	May 3, 2016	1412
	LEVEL II (Standard QC)	RECEIVED BY	Charles Greeson	5/3/16	1412
	LEVEL III (Std QC + forms)	RELINQUISHED BY	Charles Greeson	5/4/16	1000
	LEVEL IV (Std QC + forms + raw)	RECEIVED BY	JOHN ASBEE	5/4/16	1000
	PRESERVATION KEY	RELINQUISHED BY	Sheldon Chapman	5-4-16	1110



ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: LTE Workorder No: 1605059
Project Manager: ARW Initials: SDM Date: 5-4-16

1. Does this project require any special handling in addition to standard ALS procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<u>YES</u>	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<u>YES</u>	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea _____ > green pea	N/A	YES	<u>NO</u>
15. Do any water samples contain sediment? Amount Amount of sediment: <u>X</u> dusting _____ moderate _____ heavy	N/A	<u>YES</u>	NO
16. Were the samples shipped on ice?		<u>YES</u>	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> #4 RAD ONLY		<u>YES</u>	NO
Cooler #:	<u>1</u>		
Temperature (°C):	<u>5.0</u>		
No. of custody seals on cooler:	<u>2</u>		
External µR/hr reading:	<u>N/A</u>		
Background µR/hr reading:	<u>11</u>		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? YES / NO / <u>NA</u> (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

14.) Sample 1 bottles 8 & 11 have headspace < green pea.
X SDM

15.) Sample 3, 5, 6 & 7 SDM 5-4-16
Sample 1 bottles 3, 5, 6 & 7 have a headspace < green pea.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 5/4/16

Client: LT Environmental, Inc.
Project: 055115011 Tudex Reinholt NC4
Sample ID: Brhd
Legal Location:
Collection Date: 5/3/2016 13:15

Date: 18-May-16
Work Order: 1605059
Lab ID: 1605059-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Alkalinity as Calcium Carbonate						
		SM2320B			Prep Date: 5/5/2016	PrepBy: KLP
BICARBONATE AS CaCO3	220		20	MG/L	1	5/5/2016
CARBONATE AS CaCO3	190		20	MG/L	1	5/5/2016
TOTAL ALKALINITY AS CaCO3	400		20	MG/L	1	5/5/2016
Biological Activity Reaction Test						
		BART			Prep Date: 5/9/2016	PrepBy: CDR
IRON RELATED BACTERIA	9000		1	cfu/ml	1	5/17/2016
SLIME FORMING BACTERIA	12500		1	cfu/ml	1	5/17/2016
SULFATE REDUCING BACTERIA	5000		1	cfu/ml	1	5/17/2016
GC/MS Semi-volatiles						
		SW8270			Prep Date: 5/9/2016	PrepBy: BCH
PYRIDINE	ND		10	UG/L	1	5/14/2016 00:06
N-NITROSODIMETHYLAMINE	ND		10	UG/L	1	5/14/2016 00:06
ANILINE	ND		10	UG/L	1	5/14/2016 00:06
PHENOL	ND		10	UG/L	1	5/14/2016 00:06
BIS(2-CHLOROETHYL)ETHER	ND		10	UG/L	1	5/14/2016 00:06
2-CHLOROPHENOL	ND		10	UG/L	1	5/14/2016 00:06
1,3-DICHLOROBENZENE	ND		10	UG/L	1	5/14/2016 00:06
1,4-DICHLOROBENZENE	ND		10	UG/L	1	5/14/2016 00:06
1,2-DICHLOROBENZENE	ND		10	UG/L	1	5/14/2016 00:06
BENZYL ALCOHOL	ND		10	UG/L	1	5/14/2016 00:06
BIS(2-CHLOROISOPROPYL)ETHER	ND		10	UG/L	1	5/14/2016 00:06
2-METHYLPHENOL	15		10	UG/L	1	5/14/2016 00:06
N-NITROSO-DI-N-PROPYLAMINE	ND		10	UG/L	1	5/14/2016 00:06
3+4-METHYLPHENOL	20		10	UG/L	1	5/14/2016 00:06
HEXACHLOROETHANE	ND		10	UG/L	1	5/14/2016 00:06
NITROBENZENE	ND		10	UG/L	1	5/14/2016 00:06
ISOPHORONE	ND		10	UG/L	1	5/14/2016 00:06
2-NITROPHENOL	ND		10	UG/L	1	5/14/2016 00:06
2,4-DIMETHYLPHENOL	19		10	UG/L	1	5/14/2016 00:06
BIS(2-CHLOROETHOXY)METHANE	ND		10	UG/L	1	5/14/2016 00:06
2,4-DICHLOROPHENOL	ND		10	UG/L	1	5/14/2016 00:06
BENZOIC ACID	ND		51	UG/L	1	5/14/2016 00:06
1,2,4-TRICHLOROBENZENE	ND		10	UG/L	1	5/14/2016 00:06
NAPHTHALENE	12		10	UG/L	1	5/14/2016 00:06
4-CHLOROANILINE	ND		10	UG/L	1	5/14/2016 00:06
HEXACHLOROBUTADIENE	ND		10	UG/L	1	5/14/2016 00:06
4-CHLORO-3-METHYLPHENOL	ND		10	UG/L	1	5/14/2016 00:06
2-METHYLNAPHTHALENE	17		10	UG/L	1	5/14/2016 00:06
1-METHYLNAPHTHALENE	13		10	UG/L	1	5/14/2016 00:06
HEXACHLOROCYCLOPENTADIENE	ND		10	UG/L	1	5/14/2016 00:06
2,4,6-TRICHLOROPHENOL	ND		10	UG/L	1	5/14/2016 00:06
2,4,5-TRICHLOROPHENOL	ND		10	UG/L	1	5/14/2016 00:06
2-CHLORONAPHTHALENE	ND		10	UG/L	1	5/14/2016 00:06
2-NITROANILINE	ND		20	UG/L	1	5/14/2016 00:06
DIMETHYL PHTHALATE	ND		10	UG/L	1	5/14/2016 00:06
2,6-DINITROTOLUENE	ND		10	UG/L	1	5/14/2016 00:06
ACENAPHTHYLENE	ND		10	UG/L	1	5/14/2016 00:06

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: LT Environmental, Inc.
Project: 055115011 Tudex Reinholt NC4
Sample ID: Brhd
Legal Location:
Collection Date: 5/3/2016 13:15

Date: 18-May-16
Work Order: 1605059
Lab ID: 1605059-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
3-NITROANILINE	ND		20	UG/L	1	5/14/2016 00:06
ACENAPHTHENE	ND		10	UG/L	1	5/14/2016 00:06
2,4-DINITROPHENOL	ND		20	UG/L	1	5/14/2016 00:06
4-NITROPHENOL	ND		20	UG/L	1	5/14/2016 00:06
DIBENZOFURAN	ND		10	UG/L	1	5/14/2016 00:06
2,4-DINITROTOLUENE	ND		10	UG/L	1	5/14/2016 00:06
DIETHYL PHTHALATE	ND		10	UG/L	1	5/14/2016 00:06
FLUORENE	ND		10	UG/L	1	5/14/2016 00:06
4-CHLOROPHENYL PHENYL ETHER	ND		10	UG/L	1	5/14/2016 00:06
4-NITROANILINE	ND		20	UG/L	1	5/14/2016 00:06
AZOBENZENE	ND		10	UG/L	1	5/14/2016 00:06
4,6-DINITRO-2-METHYLPHENOL	ND		20	UG/L	1	5/14/2016 00:06
N-NITROSODIPHENYLAMINE	ND		10	UG/L	1	5/14/2016 00:06
4-BROMOPHENYL PHENYL ETHER	ND		10	UG/L	1	5/14/2016 00:06
HEXACHLOROBENZENE	ND		10	UG/L	1	5/14/2016 00:06
2,3,4,6-TETRACHLOROPHENOL	ND		10	UG/L	1	5/14/2016 00:06
PENTACHLOROPHENOL	ND		20	UG/L	1	5/14/2016 00:06
PHENANTHRENE	ND		10	UG/L	1	5/14/2016 00:06
ANTHRACENE	ND		10	UG/L	1	5/14/2016 00:06
CARBAZOLE	ND		10	UG/L	1	5/14/2016 00:06
DI-N-BUTYL PHTHALATE	ND		10	UG/L	1	5/14/2016 00:06
FLUORANTHENE	ND		10	UG/L	1	5/14/2016 00:06
PYRENE	ND		10	UG/L	1	5/14/2016 00:06
BUTYL BENZYL PHTHALATE	ND		10	UG/L	1	5/14/2016 00:06
BENZO(A)ANTHRACENE	ND		10	UG/L	1	5/14/2016 00:06
3,3'-DICHLOROBENZIDINE	ND		10	UG/L	1	5/14/2016 00:06
CHRYSENE	ND		10	UG/L	1	5/14/2016 00:06
BIS(2-ETHYLHEXYL)PHTHALATE	ND		10	UG/L	1	5/14/2016 00:06
DI-N-OCTYL PHTHALATE	ND		10	UG/L	1	5/14/2016 00:06
BENZO(B)FLUORANTHENE	ND		10	UG/L	1	5/14/2016 00:06
BENZO(K)FLUORANTHENE	ND		10	UG/L	1	5/14/2016 00:06
BENZO(A)PYRENE	ND		10	UG/L	1	5/14/2016 00:06
INDENO(1,2,3-CD)PYRENE	ND		10	UG/L	1	5/14/2016 00:06
DIBENZO(A,H)ANTHRACENE	ND		10	UG/L	1	5/14/2016 00:06
BENZO(G,H,I)PERYLENE	ND		10	UG/L	1	5/14/2016 00:06
Surr: 2-FLUOROPHENOL	69		46-105	%REC	1	5/14/2016 00:06
Surr: PHENOL-D5	76		50-109	%REC	1	5/14/2016 00:06
Surr: NITROBENZENE-D5	72		53-111	%REC	1	5/14/2016 00:06
Surr: 2-FLUOROBIPHENYL	67		55-108	%REC	1	5/14/2016 00:06
Surr: 2,4,6-TRIBROMOPHENOL	94		42-117	%REC	1	5/14/2016 00:06
Surr: TERPHENYL-D14	18	*	34-139	%REC	1	5/14/2016 00:06
GC/MS Volatiles			SW8260_25	Prep Date: 5/5/2016		
				PrepBy: JXK		
DICHLORODIFLUOROMETHANE	ND		1	UG/L	1	5/5/2016 12:07
CHLOROMETHANE	ND		1	UG/L	1	5/5/2016 12:07
VINYL CHLORIDE	ND		1	UG/L	1	5/5/2016 12:07
BROMOMETHANE	ND		1	UG/L	1	5/5/2016 12:07
CHLOROETHANE	ND		1	UG/L	1	5/5/2016 12:07

Client: LT Environmental, Inc.
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Date: 18-May-16
Work Order: 1605059
Lab ID: 1605059-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TRICHLOROFLUOROMETHANE	ND		1	UG/L	1	5/5/2016 12:07
1,1-DICHLOROETHENE	ND		1	UG/L	1	5/5/2016 12:07
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		1	UG/L	1	5/5/2016 12:07
ACETONE	31		10	UG/L	1	5/5/2016 12:07
IODOMETHANE	ND		1	UG/L	1	5/5/2016 12:07
CARBON DISULFIDE	ND		1	UG/L	1	5/5/2016 12:07
METHYLENE CHLORIDE	ND		1	UG/L	1	5/5/2016 12:07
TRANS-1,2-DICHLOROETHENE	ND		1	UG/L	1	5/5/2016 12:07
METHYL TERTIARY BUTYL ETHER	ND		1	UG/L	1	5/5/2016 12:07
1,1-DICHLOROETHANE	ND		1	UG/L	1	5/5/2016 12:07
VINYL ACETATE	ND		2	UG/L	1	5/5/2016 12:07
CIS-1,2-DICHLOROETHENE	ND		1	UG/L	1	5/5/2016 12:07
2-BUTANONE	ND		10	UG/L	1	5/5/2016 12:07
BROMOCHLOROMETHANE	ND		1	UG/L	1	5/5/2016 12:07
CHLOROFORM	ND		1	UG/L	1	5/5/2016 12:07
1,1,1-TRICHLOROETHANE	ND		1	UG/L	1	5/5/2016 12:07
2,2-DICHLOROPROPANE	ND		1	UG/L	1	5/5/2016 12:07
CARBON TETRACHLORIDE	ND		1	UG/L	1	5/5/2016 12:07
1,1-DICHLOROPROPENE	ND		1	UG/L	1	5/5/2016 12:07
1,2-DICHLOROETHANE	ND		1	UG/L	1	5/5/2016 12:07
BENZENE	1500		25	UG/L	25	5/5/2016 14:14
TRICHLOROETHENE	ND		1	UG/L	1	5/5/2016 12:07
1,2-DICHLOROPROPANE	ND		1	UG/L	1	5/5/2016 12:07
DIBROMOMETHANE	ND		1	UG/L	1	5/5/2016 12:07
BROMODICHLOROMETHANE	ND		1	UG/L	1	5/5/2016 12:07
CIS-1,3-DICHLOROPROPENE	ND		1	UG/L	1	5/5/2016 12:07
4-METHYL-2-PENTANONE	ND		10	UG/L	1	5/5/2016 12:07
TOLUENE	750		25	UG/L	25	5/5/2016 14:14
TRANS-1,3-DICHLOROPROPENE	ND		1	UG/L	1	5/5/2016 12:07
1,1,2-TRICHLOROETHANE	ND		1	UG/L	1	5/5/2016 12:07
2-HEXANONE	ND		10	UG/L	1	5/5/2016 12:07
TETRACHLOROETHENE	ND		1	UG/L	1	5/5/2016 12:07
1,3-DICHLOROPROPANE	ND		1	UG/L	1	5/5/2016 12:07
DIBROMOCHLOROMETHANE	ND		1	UG/L	1	5/5/2016 12:07
1,2-DIBROMOETHANE	ND		1	UG/L	1	5/5/2016 12:07
1-CHLOROHEXANE	ND		1	UG/L	1	5/5/2016 12:07
CHLOROBENZENE	ND		1	UG/L	1	5/5/2016 12:07
1,1,1,2-TETRACHLOROETHANE	ND		1	UG/L	1	5/5/2016 12:07
ETHYLBENZENE	36		1	UG/L	1	5/5/2016 12:07
M+P-XYLENE	85		1	UG/L	1	5/5/2016 12:07
O-XYLENE	59		1	UG/L	1	5/5/2016 12:07
STYRENE	ND		1	UG/L	1	5/5/2016 12:07
BROMOFORM	ND		1	UG/L	1	5/5/2016 12:07
ISOPROPYLBENZENE	2.9		1	UG/L	1	5/5/2016 12:07
1,2,3-TRICHLOROPROPANE	ND		1	UG/L	1	5/5/2016 12:07
1,1,2,2-TETRACHLOROETHANE	ND		1	UG/L	1	5/5/2016 12:07
BROMOBENZENE	ND		1	UG/L	1	5/5/2016 12:07

Client: LT Environmental, Inc.
Project: 055115011 Tudex Reinholt NC4
Sample ID: Brhd
Legal Location:
Collection Date: 5/3/2016 13:15

Date: 18-May-16
Work Order: 1605059
Lab ID: 1605059-1
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
N-PROPYLBENZENE	4.2		1	UG/L	1	5/5/2016 12:07
2-CHLOROTOLUENE	ND		1	UG/L	1	5/5/2016 12:07
1,3,5-TRIMETHYLBENZENE	12		1	UG/L	1	5/5/2016 12:07
4-CHLOROTOLUENE	ND		1	UG/L	1	5/5/2016 12:07
TERT-BUTYLBENZENE	ND		1	UG/L	1	5/5/2016 12:07
1,2,4-TRIMETHYLBENZENE	36		1	UG/L	1	5/5/2016 12:07
SEC-BUTYLBENZENE	ND		1	UG/L	1	5/5/2016 12:07
1,3-DICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 12:07
P-ISOPROPYLTOLUENE	ND		1	UG/L	1	5/5/2016 12:07
1,4-DICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 12:07
N-BUTYLBENZENE	ND		1	UG/L	1	5/5/2016 12:07
1,2-DICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 12:07
1,2-DIBROMO-3-CHLOROPROPANE	ND		2	UG/L	1	5/5/2016 12:07
1,2,4-TRICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 12:07
HEXACHLOROBUTADIENE	ND		1	UG/L	1	5/5/2016 12:07
NAPHTHALENE	14		1	UG/L	1	5/5/2016 12:07
1,2,3-TRICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 12:07
Surr: DIBROMOFLUOROMETHANE	98		84-118	%REC	1	5/5/2016 12:07
Surr: DIBROMOFLUOROMETHANE	99		84-118	%REC	25	5/5/2016 14:14
Surr: TOLUENE-D8	99		85-115	%REC	25	5/5/2016 14:14
Surr: TOLUENE-D8	101		85-115	%REC	1	5/5/2016 12:07
Surr: 4-BROMOFLUOROBENZENE	94		85-115	%REC	1	5/5/2016 12:07
Surr: 4-BROMOFLUOROBENZENE	99		85-115	%REC	25	5/5/2016 14:14
Ion Chromatography						
			EPA300.0		Prep Date: 5/13/2016	PrepBy: JFN
BROMIDE	7.4		1	MG/L	5	5/13/2016 15:42
CHLORIDE	790		10	MG/L	50	5/13/2016 15:57
SULFATE	ND		5	MG/L	5	5/13/2016 15:42
Total Recoverable Metals by 200.8						
			EPA200.8		Prep Date: 5/5/2016	PrepBy: CDR
CALCIUM	2.4		1	MG/L	10	5/6/2016 23:36
IRON	3.3		0.1	MG/L	10	5/6/2016 23:36
POTASSIUM	3.3		1	MG/L	10	5/6/2016 23:36
MAGNESIUM	0.63		0.1	MG/L	10	5/6/2016 23:36
SODIUM	640		1	MG/L	10	5/6/2016 23:36
Total Dissolved Solids						
			SM2540C		Prep Date: 5/5/2016	PrepBy: KLP
TOTAL DISSOLVED SOLIDS	2200	*	80	MG/L	1	5/6/2016
Total Suspended Solids						
			SM2540D		Prep Date: 5/5/2016	PrepBy: KLP
TOTAL SUSPENDED SOLIDS	ND		20	MG/L	1	5/5/2016

Client: LT Environmental, Inc.
Project: 055115011 Tudex Reinholt NC4
Sample ID: Trip Blank
Legal Location:
Collection Date: 5/3/2016

Date: 18-May-16
Work Order: 1605059
Lab ID: 1605059-2
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
GC/MS Volatiles			SW8260_25		Prep Date: 5/5/2016	PrepBy: JXK
DICHLORODIFLUOROMETHANE	ND		1	UG/L	1	5/5/2016 11:46
CHLOROMETHANE	ND		1	UG/L	1	5/5/2016 11:46
VINYL CHLORIDE	ND		1	UG/L	1	5/5/2016 11:46
BROMOMETHANE	ND		1	UG/L	1	5/5/2016 11:46
CHLOROETHANE	ND		1	UG/L	1	5/5/2016 11:46
TRICHLOROFLUOROMETHANE	ND		1	UG/L	1	5/5/2016 11:46
1,1-DICHLOROETHENE	ND		1	UG/L	1	5/5/2016 11:46
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND		1	UG/L	1	5/5/2016 11:46
ACETONE	ND		10	UG/L	1	5/5/2016 11:46
IODOMETHANE	ND		1	UG/L	1	5/5/2016 11:46
CARBON DISULFIDE	ND		1	UG/L	1	5/5/2016 11:46
METHYLENE CHLORIDE	ND		1	UG/L	1	5/5/2016 11:46
TRANS-1,2-DICHLOROETHENE	ND		1	UG/L	1	5/5/2016 11:46
METHYL TERTIARY BUTYL ETHER	ND		1	UG/L	1	5/5/2016 11:46
1,1-DICHLOROETHANE	ND		1	UG/L	1	5/5/2016 11:46
VINYL ACETATE	ND		2	UG/L	1	5/5/2016 11:46
CIS-1,2-DICHLOROETHENE	ND		1	UG/L	1	5/5/2016 11:46
2-BUTANONE	ND		10	UG/L	1	5/5/2016 11:46
BROMOCHLOROMETHANE	ND		1	UG/L	1	5/5/2016 11:46
CHLOROFORM	ND		1	UG/L	1	5/5/2016 11:46
1,1,1-TRICHLOROETHANE	ND		1	UG/L	1	5/5/2016 11:46
2,2-DICHLOROPROPANE	ND		1	UG/L	1	5/5/2016 11:46
CARBON TETRACHLORIDE	ND		1	UG/L	1	5/5/2016 11:46
1,1-DICHLOROPROPENE	ND		1	UG/L	1	5/5/2016 11:46
1,2-DICHLOROETHANE	ND		1	UG/L	1	5/5/2016 11:46
BENZENE	ND		1	UG/L	1	5/5/2016 11:46
TRICHLOROETHENE	ND		1	UG/L	1	5/5/2016 11:46
1,2-DICHLOROPROPANE	ND		1	UG/L	1	5/5/2016 11:46
DIBROMOMETHANE	ND		1	UG/L	1	5/5/2016 11:46
BROMODICHLOROMETHANE	ND		1	UG/L	1	5/5/2016 11:46
CIS-1,3-DICHLOROPROPENE	ND		1	UG/L	1	5/5/2016 11:46
4-METHYL-2-PENTANONE	ND		10	UG/L	1	5/5/2016 11:46
TOLUENE	ND		1	UG/L	1	5/5/2016 11:46
TRANS-1,3-DICHLOROPROPENE	ND		1	UG/L	1	5/5/2016 11:46
1,1,2-TRICHLOROETHANE	ND		1	UG/L	1	5/5/2016 11:46
2-HEXANONE	ND		10	UG/L	1	5/5/2016 11:46
TETRACHLOROETHENE	ND		1	UG/L	1	5/5/2016 11:46
1,3-DICHLOROPROPANE	ND		1	UG/L	1	5/5/2016 11:46
DIBROMOCHLOROMETHANE	ND		1	UG/L	1	5/5/2016 11:46
1,2-DIBROMOETHANE	ND		1	UG/L	1	5/5/2016 11:46
1-CHLOROHEXANE	ND		1	UG/L	1	5/5/2016 11:46
CHLOROBENZENE	ND		1	UG/L	1	5/5/2016 11:46
1,1,1,2-TETRACHLOROETHANE	ND		1	UG/L	1	5/5/2016 11:46
ETHYLBENZENE	ND		1	UG/L	1	5/5/2016 11:46
M+P-XYLENE	ND		1	UG/L	1	5/5/2016 11:46
O-XYLENE	ND		1	UG/L	1	5/5/2016 11:46

ALS Environmental -- FC

SAMPLE SUMMARY REPORT

Client: LT Environmental, Inc.
Project: 055115011 Tudex Reinholt NC4
Sample ID: Trip Blank
Legal Location:
Collection Date: 5/3/2016

Date: 18-May-16
Work Order: 1605059
Lab ID: 1605059-2
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
STYRENE	ND		1	UG/L	1	5/5/2016 11:46
BROMOFORM	ND		1	UG/L	1	5/5/2016 11:46
ISOPROPYLBENZENE	ND		1	UG/L	1	5/5/2016 11:46
1,2,3-TRICHLOROPROPANE	ND		1	UG/L	1	5/5/2016 11:46
1,1,2,2-TETRACHLOROETHANE	ND		1	UG/L	1	5/5/2016 11:46
BROMOBENZENE	ND		1	UG/L	1	5/5/2016 11:46
N-PROPYLBENZENE	ND		1	UG/L	1	5/5/2016 11:46
2-CHLOROTOLUENE	ND		1	UG/L	1	5/5/2016 11:46
1,3,5-TRIMETHYLBENZENE	ND		1	UG/L	1	5/5/2016 11:46
4-CHLOROTOLUENE	ND		1	UG/L	1	5/5/2016 11:46
TERT-BUTYLBENZENE	ND		1	UG/L	1	5/5/2016 11:46
1,2,4-TRIMETHYLBENZENE	ND		1	UG/L	1	5/5/2016 11:46
SEC-BUTYLBENZENE	ND		1	UG/L	1	5/5/2016 11:46
1,3-DICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 11:46
P-ISOPROPYLTOLUENE	ND		1	UG/L	1	5/5/2016 11:46
1,4-DICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 11:46
N-BUTYLBENZENE	ND		1	UG/L	1	5/5/2016 11:46
1,2-DICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 11:46
1,2-DIBROMO-3-CHLOROPROPANE	ND		2	UG/L	1	5/5/2016 11:46
1,2,4-TRICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 11:46
HEXACHLOROBUTADIENE	ND		1	UG/L	1	5/5/2016 11:46
NAPHTHALENE	ND		1	UG/L	1	5/5/2016 11:46
1,2,3-TRICHLOROBENZENE	ND		1	UG/L	1	5/5/2016 11:46
Surr: DIBROMOFLUOROMETHANE	98		84-118	%REC	1	5/5/2016 11:46
Surr: TOLUENE-D8	101		85-115	%REC	1	5/5/2016 11:46
Surr: 4-BROMOFLUOROBENZENE	103		85-115	%REC	1	5/5/2016 11:46

Client: LT Environmental, Inc.
Project: 055115011 Tudex Reinholt NC4
Sample ID: Brhd
Legal Location:
Collection Date: 5/3/2016 13:15

Date: 18-May-16
Work Order: 1605059
Lab ID: 1605059-3
Matrix: WATER
Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Dissolved Metals by 200.8			EPA200.8		Prep Date: 5/10/2016	PrepBy: CDR
IRON	ND		0.1	MG/L	10	5/16/2016 22:05

Explanation of Qualifiers

Radiochemistry:

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.
LT - Result is less than requested MDC but greater than achieved MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
L - LCS Recovery below lower control limit.
H - LCS Recovery above upper control limit.
P - LCS, Matrix Spike Recovery within control limits.
N - Matrix Spike Recovery outside control limits
NC - Not Calculated for duplicate results less than 5 times MDC
B - Analyte concentration greater than MDC.
B3 - Analyte concentration greater than MDC but less than Requested MDC.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).
U or ND - Indicates that the compound was analyzed for but not detected.
E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.
M - Duplicate injection precision was not met.
N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.
* - Duplicate analysis (relative percent difference) not within control limits.
S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.
B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
E - Analyte concentration exceeds the upper level of the calibration range.
J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
A - A tentatively identified compound is a suspected aldol-condensation product.
X - The analyte was diluted below an accurate quantitation level.
* - The spike recovery is equal to or outside the control criteria used.
+ - The relative percent difference (RPD) equals or exceeds the control criteria.
G - A pattern resembling gasoline was detected in this sample.
D - A pattern resembling diesel was detected in this sample.
M - A pattern resembling motor oil was detected in this sample.
C - A pattern resembling crude oil was detected in this sample.
4 - A pattern resembling JP-4 was detected in this sample.
5 - A pattern resembling JP-5 was detected in this sample.
H - Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
L - Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
Z - This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:
- gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

ALS Environmental -- FC

Date: 5/18/2016 2:51:

Client: LT Environmental, Inc.

Work Order: 1605059

Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: IP160505-2-4

Instrument ID ICPMS2

Method: EPA200.8

LCS	Sample ID: IM160505-2				Units: MG/L		Analysis Date: 5/6/2016 22:07				
Client ID:	Run ID: IM160506-10A9				Prep Date: 5/5/2016			DF: 10			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	9.4	1	10		94	85-115				20	
IRON	5.25	0.1	5		105	85-115				20	
MAGNESIUM	8.95	0.1	10		90	85-115				20	
POTASSIUM	4.6	1	5		92	85-115				20	
SODIUM	9.56	1	10		96	85-115				20	

MB	Sample ID: IP160505-2				Units: MG/L		Analysis Date: 5/6/2016 22:04				
Client ID:		Run ID: IM160506-10A9				Prep Date: 5/5/2016			DF: 10		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CALCIUM	ND	1									
IRON	ND	0.1									
MAGNESIUM	ND	0.1									
POTASSIUM	ND	1									
SODIUM	ND	1									

The following samples were analyzed in this batch:

1605059-1

Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **IP160510-1-3** Instrument ID **ICPMS2** Method: **EPA200.8**

LCS	Sample ID: IM160510-1				Units: MG/L		Analysis Date: 5/16/2016 20:46				
Client ID:	Run ID: IM160516-10A6				Prep Date: 5/10/2016			DF: 10			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
IRON	4.88	0.1	5		98	85-115				20	

MB		Sample ID: FP160510-1				Units: MG/L		Analysis Date: 5/16/2016 20:37			
Client ID:		Run ID: IM160516-10A6						Prep Date: 5/10/2016		DF: 10	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
IRON	ND	0.1									

The following samples were analyzed in this batch:

1605059-3

Client: LT Environmental, Inc.
 Work Order: 1605059
 Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **EX160509-5-1** Instrument ID **HPSV1** Method: **SW8270**

LCS		Sample ID: EX160509-5		Units: UG/L		Analysis Date: 5/13/2016 19:06					
Client ID:		Run ID: SV160513-1		Prep Date: 5/9/2016				DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
PHENOL	47.6	10	60		79	60-102				40	
2-CHLOROPHENOL	47.5	10	60		79	60-100				42	
1,4-DICHLOROBENZENE	44.2	10	60		74	55-100				50	
N-NITROSO-DI-N-PROPYLAMINE	48.8	10	60		81	62-113				44	
1,2,4-TRICHLOROBENZENE	45.3	10	60		76	51-100				42	
4-CHLORO-3-METHYLPHENOL	51.7	10	60		86	45-110				35	
ACENAPHTHENE	49.3	10	60		82	60-108				43	
4-NITROPHENOL	52.3	20	60		87	26-132				48	
2,4-DINITROTOLUENE	55.2	10	60		92	46-114				40	
PENTACHLOROPHENOL	48.9	20	60		82	32-108				44	
PYRENE	52.2	10	60		87	60-113				48	
Surr: 2-FLUOROPHENOL	57.3		75		76	46-105				20	
Surr: PHENOL-D5	59.4		75		79	50-109				20	
Surr: NITROBENZENE-D5	42		50		84	53-111				20	
Surr: 2-FLUOROBIPHENYL	42.4		50		85	55-108				20	
Surr: 2,4,6-TRIBROMOPHENOL	65.9		75		88	42-117				20	
Surr: TERPHENYL-D14	45.4		50		91	34-139				20	

LCSD		Sample ID: EX160509-5		Units: UG/L		Analysis Date: 5/13/2016 19:30					
Client ID:		Run ID: SV160513-1		Prep Date: 5/9/2016				DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
PHENOL	46.1	10	60		77	60-102		47.6	3	40	
2-CHLOROPHENOL	46.4	10	60		77	60-100		47.5	2	42	
1,4-DICHLOROBENZENE	43.1	10	60		72	55-100		44.2	3	50	
N-NITROSO-DI-N-PROPYLAMINE	48.2	10	60		80	62-113		48.8	1	44	
1,2,4-TRICHLOROBENZENE	45.7	10	60		76	51-100		45.3	1	42	
4-CHLORO-3-METHYLPHENOL	52.8	10	60		88	45-110		51.7	2	35	
ACENAPHTHENE	49.8	10	60		83	60-108		49.3	1	43	
4-NITROPHENOL	52.6	20	60		88	26-132		52.3	0	48	
2,4-DINITROTOLUENE	56.8	10	60		95	46-114		55.2	3	40	
PENTACHLOROPHENOL	52.2	20	60		87	32-108		48.9	6	44	
PYRENE	55.7	10	60		93	60-113		52.2	6	48	
Surr: 2-FLUOROPHENOL	54.5		75		73	46-105			5	20	
Surr: PHENOL-D5	57.1		75		76	50-109			4	20	
Surr: NITROBENZENE-D5	41.2		50		82	53-111			2	20	
Surr: 2-FLUOROBIPHENYL	41.7		50		83	55-108			2	20	
Surr: 2,4,6-TRIBROMOPHENOL	66		75		88	42-117			0	20	
Surr: TERPHENYL-D14	47.1		50		94	34-139			4	20	

Client: LT Environmental, Inc.
 Work Order: 1605059
 Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **EX160509-5-1** Instrument ID **HPSV1** Method: **SW8270**

MB Sample ID: **EX160509-5** Units: **UG/L** Analysis Date: **5/13/2016 18:43**
 Client ID: Run ID: **SV160513-1** Prep Date: **5/9/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
PYRIDINE	ND	10									
N-NITROSODIMETHYLAMINE	ND	10									
ANILINE	ND	10									
PHENOL	ND	10									
BIS(2-CHLOROETHYL)ETHER	ND	10									
2-CHLOROPHENOL	ND	10									
1,3-DICHLOROBENZENE	ND	10									
1,4-DICHLOROBENZENE	ND	10									
1,2-DICHLOROBENZENE	ND	10									
BENZYL ALCOHOL	ND	10									
BIS(2-CHLOROISOPROPYL)ETHER	ND	10									
2-METHYLPHENOL	ND	10									
N-NITROSO-DI-N-PROPYLAMINE	ND	10									
3+4-METHYLPHENOL	ND	10									
HEXACHLOROETHANE	ND	10									
NITROBENZENE	ND	10									
ISOPHORONE	ND	10									
2-NITROPHENOL	ND	10									
2,4-DIMETHYLPHENOL	ND	10									
BIS(2-CHLOROETHOXY)METHANE	ND	10									
2,4-DICHLOROPHENOL	ND	10									
BENZOIC ACID	ND	50									UJ
1,2,4-TRICHLOROBENZENE	ND	10									
NAPHTHALENE	ND	10									
4-CHLOROANILINE	ND	10									
HEXACHLOROBUTADIENE	ND	10									
4-CHLORO-3-METHYLPHENOL	ND	10									
2-METHYLNAPHTHALENE	ND	10									
1-METHYLNAPHTHALENE	ND	10									
HEXACHLOROCYCLOPENTADIENE	ND	10									
2,4,6-TRICHLOROPHENOL	ND	10									
2,4,5-TRICHLOROPHENOL	ND	10									
2-CHLORONAPHTHALENE	ND	10									
2-NITROANILINE	ND	20									
DIMETHYL PHTHALATE	ND	10									
2,6-DINITROTOLUENE	ND	10									
ACENAPHTHYLENE	ND	10									
3-NITROANILINE	ND	20									
ACENAPHTHENE	ND	10									

Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **EX160509-5-1** Instrument ID: **HPSV1** Method: **SW8270**

MB		Sample ID: EX160509-5		Units: UG/L		Analysis Date: 5/13/2016 18:43					
Client ID:		Run ID: SV160513-1				Prep Date: 5/9/2016			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
2,4-DINITROPHENOL	ND	20									
4-NITROPHENOL	ND	20									
DIBENZOFURAN	ND	10									
2,4-DINITROTOLUENE	ND	10									
DIETHYL PHTHALATE	ND	10									
FLUORENE	ND	10									
4-CHLOROPHENYL PHENYL ETHER	ND	10									
4-NITROANILINE	ND	20									
AZOBENZENE	ND	10									
4,6-DINITRO-2-METHYLPHENOL	ND	20									
N-NITROSODIPHENYLAMINE	ND	10									
4-BROMOPHENYL PHENYL ETHER	ND	10									
HEXACHLOROBENZENE	ND	10									
2,3,4,6-TETRACHLOROPHENOL	ND	10									
PENTACHLOROPHENOL	ND	20									
PHENANTHRENE	ND	10									
ANTHRACENE	ND	10									
CARBAZOLE	ND	10									
DI-N-BUTYL PHTHALATE	ND	10									
FLUORANTHENE	ND	10									
PYRENE	ND	10									
BUTYL BENZYL PHTHALATE	ND	10									
BENZO(A)ANTHRACENE	ND	10									
3,3'-DICHLOROBENZIDINE	ND	10									
CHRYSENE	ND	10									
BIS(2-ETHYLHEXYL)PHTHALATE	ND	10									
DI-N-OCTYL PHTHALATE	ND	10									
BENZO(B)FLUORANTHENE	ND	10									
BENZO(K)FLUORANTHENE	ND	10									
BENZO(A)PYRENE	ND	10									
INDENO(1,2,3-CD)PYRENE	ND	10									
DIBENZO(A,H)ANTHRACENE	ND	10									
BENZO(G,H,I)PERYLENE	ND	10									
Surr: 2-FLUOROPHENOL	50.7		75		68	46-105					
Surr: PHENOL-D5	54.4		75		73	50-109					
Surr: NITROBENZENE-D5	34.7		50		69	53-111					
Surr: 2-FLUOROBIPHENYL	38.4		50		77	55-108					
Surr: 2,4,6-TRIBROMOPHENOL	48.4		75		65	42-117					
Surr: TERPHENYL-D14	46.9		50		94	34-139					

Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

The following samples were analyzed in this batch:

1605059-1

Client: LT Environmental, Inc.
 Work Order: 1605059
 Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **VL160505-3-1** Instrument ID **HPV1** Method: **SW8260_25**

LCS	Sample ID: VL160505-3			Units: UG/L			Analysis Date: 5/5/2016 10:18				
Client ID:	Run ID: VL160505-3A						Prep Date: 5/5/2016		DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1,1-DICHLOROETHENE	10.8	1	10		108	77-119				20	
BENZENE	10.7	1	10		107	83-117				20	
TRICHLOROETHENE	10.3	1	10		103	83-117				20	
TOLUENE	10	1	10		100	82-113				20	
CHLOROBENZENE	10.3	1	10		103	81-113				20	
Surr: DIBROMOFLUOROMETHANE	25.3		25		101	84-118					
Surr: TOLUENE-D8	25.1		25		100	85-115					
Surr: 4-BROMOFLUOROBENZENE	23.9		25		95	85-115					

LCSD		Sample ID: VL160505-3				Units: UG/L		Analysis Date: 5/5/2016 10:39			
Client ID:		Run ID: VL160505-3A				Prep Date: 5/5/2016			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1,1-DICHLOROETHENE	10.6	1	10		106	77-119		10.8	2	20	
BENZENE	10.5	1	10		105	83-117		10.7	2	20	
TRICHLOROETHENE	10.1	1	10		101	83-117		10.3	2	20	
TOLUENE	9.84	1	10		98	82-113		10	2	20	
CHLOROBENZENE	10.1	1	10		101	81-113		10.3	2	20	
Surr: DIBROMOFLUOROMETHANE	25		25		100	84-118			1		
Surr: TOLUENE-D8	24.8		25		99	85-115			1		
Surr: 4-BROMOFLUOROBENZENE	23.9		25		95	85-115			0		

Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **VL160505-3-1** Instrument ID: **HPV1** Method: **SW8260_25**

MB		Sample ID: VL160505-3			Units: UG/L			Analysis Date: 5/5/2016 11:24			
Client ID:		Run ID: VL160505-3A			Prep Date: 5/5/2016			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
DICHLORODIFLUOROMETHANE	ND	1									
CHLOROMETHANE	ND	1									
VINYL CHLORIDE	ND	1									
BROMOMETHANE	ND	1									
CHLOROETHANE	ND	1									
TRICHLOROFLUOROMETHANE	ND	1									
1,1-DICHLOROETHENE	ND	1									
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ND	1									
ACETONE	ND	10									
IODOMETHANE	ND	1									
CARBON DISULFIDE	ND	1									
METHYLENE CHLORIDE	ND	1									
TRANS-1,2-DICHLOROETHENE	ND	1									
METHYL TERTIARY BUTYL ETHER	ND	1									
1,1-DICHLOROETHANE	ND	1									
VINYL ACETATE	ND	2									
CIS-1,2-DICHLOROETHENE	ND	1									
2-BUTANONE	ND	10									
BROMOCHLOROMETHANE	ND	1									
CHLOROFORM	ND	1									
1,1,1-TRICHLOROETHANE	ND	1									
2,2-DICHLOROPROPANE	ND	1									
CARBON TETRACHLORIDE	ND	1									
1,1-DICHLOROPROPENE	ND	1									
1,2-DICHLOROETHANE	ND	1									
BENZENE	ND	1									
TRICHLOROETHENE	ND	1									
1,2-DICHLOROPROPANE	ND	1									
DIBROMOMETHANE	ND	1									
BROMODICHLOROMETHANE	ND	1									
CIS-1,3-DICHLOROPROPENE	ND	1									
4-METHYL-2-PENTANONE	ND	10									
TOLUENE	ND	1									
TRANS-1,3-DICHLOROPROPENE	ND	1									
1,1,2-TRICHLOROETHANE	ND	1									
2-HEXANONE	ND	10									
TETRACHLOROETHENE	ND	1									
1,3-DICHLOROPROPANE	ND	1									
DIBROMOCHLOROMETHANE	ND	1									
1,2-DIBROMOETHANE	ND	1									

Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **VL160505-3-1** Instrument ID: **HPV1** Method: **SW8260_25**

MB	Sample ID: VL160505-3			Units: UG/L			Analysis Date: 5/5/2016 11:24				
Client ID:	Run ID: VL160505-3A			Prep Date: 5/5/2016			DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
1-CHLOROHEXANE	ND	1									
CHLOROBENZENE	ND	1									
1,1,1,2-TETRACHLOROETHANE	ND	1									
ETHYLBENZENE	ND	1									
M+P-XYLENE	ND	1									
O-XYLENE	ND	1									
STYRENE	ND	1									
BROMOFORM	ND	1									
ISOPROPYLBENZENE	ND	1									
1,2,3-TRICHLOROPROPANE	ND	1									
1,1,2,2-TETRACHLOROETHANE	ND	1									
BROMOBENZENE	ND	1									
N-PROPYLBENZENE	ND	1									
2-CHLOROTOLUENE	ND	1									
1,3,5-TRIMETHYLBENZENE	ND	1									
4-CHLOROTOLUENE	ND	1									
TERT-BUTYLBENZENE	ND	1									
1,2,4-TRIMETHYLBENZENE	ND	1									
SEC-BUTYLBENZENE	ND	1									
1,3-DICHLOROBENZENE	ND	1									
P-ISOPROPYLTOLUENE	ND	1									
1,4-DICHLOROBENZENE	ND	1									
N-BUTYLBENZENE	ND	1									
1,2-DICHLOROBENZENE	ND	1									
1,2-DIBROMO-3-CHLOROPROPANE	ND	2									
1,2,4-TRICHLOROBENZENE	ND	1									
HEXACHLOROBUTADIENE	ND	1									
NAPHTHALENE	ND	1									
1,2,3-TRICHLOROBENZENE	ND	1									
Surr: DIBROMOFLUOROMETHANE	24.7		25		99	84-118					
Surr: TOLUENE-D8	25.1		25		100	85-115					
Surr: 4-BROMOFLUOROBENZENE	25.7		25		103	85-115					

The following samples were analyzed in this batch:

1605059-1	1605059-2
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Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **AK160505-1-2** Instrument ID **NONE** Method: **SM2320B**

DUP	Sample ID: 1605059-1				Units: MG/L		Analysis Date: 5/5/2016				
Client ID: Brhd			Run ID: AK160505-1A1			Prep Date: 5/5/2016			DF: 1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
BICARBONATE AS CaCO3	214	20						220	0	15	
CARBONATE AS CaCO3	187	20						190	1	15	
TOTAL ALKALINITY AS CaCO3	402	20						400	0	15	

LCS	Sample ID: AK160505-1				Units: MG/L		Analysis Date: 5/5/2016				
Client ID:		Run ID: AK160505-1A1				Prep Date: 5/5/2016			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	95.4	5	100		95	85-115				15	

MB		Sample ID: AK160505-1				Units: MG/L		Analysis Date: 5/5/2016			
Client ID:			Run ID: AK160505-1A1				Prep Date: 5/5/2016			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:

1605059-1

Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **IC160513-1-1** Instrument ID **IC-2** Method: **EPA300.0**

LCS Sample ID: **IC160513-1** Units: **MG/L** Analysis Date: **5/13/2016 11:10**

Client ID: Run ID: **IC160513-1A1** Prep Date: **5/13/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	5.19	0.2	5		104	90-110				15	
BROMIDE	5.2	0.2	5		104	90-110				15	
SULFATE	20.6	1	20		103	90-110				15	

MB Sample ID: **IC160513-1** Units: **MG/L** Analysis Date: **5/13/2016 11:40**

Client ID: Run ID: **IC160513-1A1** Prep Date: **5/13/2016** DF: **1**

Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
CHLORIDE	ND	0.2									
BROMIDE	ND	0.2									
SULFATE	ND	1									

The following samples were analyzed in this batch:

1605059-1

Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **TD160505-1-1** Instrument ID **Balance** Method: **SM2540C**

DUP	Sample ID: 1605059-1		Units: MG/L				Analysis Date: 5/6/2016				
Client ID: Brhd	Run ID: TD0506-1A1		Prep Date: 5/5/2016				DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	2400	80						2200	7	5	*

LCS	Sample ID: TD160505-1		Units: MG/L				Analysis Date: 5/6/2016				
Client ID:	Run ID: TD0506-1A1		Prep Date: 5/5/2016				DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	395	20	400		99	85-115				5	

LCSD	Sample ID: TD160505-1		Units: MG/L				Analysis Date: 5/6/2016				
Client ID:	Run ID: TD0506-1A1		Prep Date: 5/5/2016				DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	393	20	400		98	85-115		395	1	5	

MB	Sample ID: TD160505-1		Units: MG/L				Analysis Date: 5/6/2016				
Client ID:	Run ID: TD0506-1A1		Prep Date: 5/5/2016				DF: 1				
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL DISSOLVED SOLIDS	ND	20									

The following samples were analyzed in this batch:

1605059-1

Client: LT Environmental, Inc.
Work Order: 1605059
Project: 055115011 Tudex Reinholt NC4

QC BATCH REPORT

Batch ID: **TS160505-1-2** Instrument ID **Balance** Method: **SM2540D**

DUP		Sample ID: 1605059-1				Units: MG/L		Analysis Date: 5/5/2016			
Client ID: Brhd		Run ID: TS160505-1A1				Prep Date: 5/5/2016		DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	ND	20						20		5	

LCS	Sample ID: TS160505-1			Units: MG/L			Analysis Date: 5/5/2016				
Client ID:		Run ID: TS160505-1A1			Prep Date: 5/5/2016			DF: 1			
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS	772	20	791		98	85-115				5	

MB		Sample ID: TS160505-1			Units: MG/L		Analysis Date: 5/5/2016				
Client ID:		Run ID: TS160505-1A1					Prep Date: 5/5/2016			DF: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref	RPD	RPD Limit	Qual
TOTAL SUSPENDED SOLIDS		ND	20								

The following samples were analyzed in this batch:

1605059-1