COMPLIANCE / ENGINEERING / REMEDIATION

LT Environmental, Inc.

820 Megan Avenue, Unit B
Rifle, Colorado 81650
T 970.285.9985 / F 970.285.2567

October 21, 2015

Scott Ghan
Senior EH&S Specialist
Vanguard Operating, LLC
112 Red Feather Trail
Silt, CO 81652

RE: Pipeline Release SESW Sec 25 6S 92W - Scott (Spill/Release Point ID – 442980)
Vanguard Operating, LLC
SESW Sec. 25 T6S R92W
Garfield County, Colorado

Dear Mr. Ghan:

LT Environmental, Inc. (LTE) was contracted by Vanguard Operating, LLC (Vanguard) to conduct surface water and soil sampling activities associated with a pipeline release in Garfield County, Colorado. The following is being submitted as supplemental information to the initial Form 19 submitted September 25, 2015, (Document #400889511, Spill/Release Point ID – 442980).

Sampling Activities

On August 24, 2015, LTE personnel conducted soil sampling activities of the release path and surface water sampling from Divide Creek. During on site activities, three seeps of water (Seep 01, Seep 02, and Seep 03) were identified along the release path in the pipeline right of way. Soil sample SS01 was collected at the approximate terminus of the release between the release point and Divide Creek. Additionally, three surface water samples were collected from Divide Creek; one down gradient from the release (DIVIDE CREEK 01), one up gradient from the release (DIVIDE CREEK 02), and one from the nearest point to Divide Creek (OXBOW 01). The release path, soil sample locations, and surface water sample locations are depicted on the attached Figure 1. All samples were submitted to ALS of Holland, Michigan, and were analyzed for constituents identified in Colorado Oil & Gas Conservation Commission (COGCC) Table 910-1.

On August 25, 2015, LTE personnel returned to collect additional soil samples. One soil sample was collected from the area near Seep 01 and three soil confirmation samples (SS01, SS02, and SS02) were collected from the excavation along the release path between Seep 01 and Divide Creek. At the time of sample collection, the excavation measured approximately 15 feet (ft.), by 20 ft., and ranged from 1 ft. to 4.5 ft. deep. The excavation area and soil sample locations are depicted on the attached Figure 2.

On August 26, 2015, LTE personnel returned to the site to collect additional soil confirmation samples after continued excavation activities. Excavation activities occurred in the area of the

three seeps identified on August 24, 2015. At the time of sample collection, the excavated area measured approximately 15 ft., by 75 ft., and ranged from 3 ft. to 6 ft. deep. Six soil confirmation samples (SB01, NB01, MSW01, NSW01, MB01, and SSW01) were collected from the excavation sidewalls and bottom. The excavation area and soil sample locations are depicted on the attached Figure 3.

On September 1, 2015, LTE personnel returned to the site in an attempt to vertically delineate electrical conductivity (EC) and sodium adsorption ratio (SAR) exceedances in soil sample SS01. Soil samples were collected at 3.0 feet below ground surface (bgs) (SS01@3') and 4.5 feet bgs (SS01@4.5') using a hand auger. Additionally, two composite soil samples (COMP-T, COMP-SP) were collected from the excavated soil stockpiled on Vanguard's Miller 1 pad.

On September 8, 2015, LTE personnel returned to the site after the excavation was backfilled and collected a surface water sample (Seep 01 Surface Water) from the Seep 01 location at the request of the surface owner. The sample location is depicted on the attached Figure 4. All samples were submitted to ALS and were analyzed for constituents identified in COGCC Table 910-1.

Analytical Results

Laboratory analytical results of soil confirmation samples indicated concentrations of analytes that are either within COGCC Table 910-1 allowable concentrations or are within 1.25 x background concentrations observed in the area, with the exception of EC, pH, and SAR exceedances. Laboratory analytical results of the stockpile composite samples indicate concentrations of arsenic, pH, EC, and SAR in exceedance of COGCC Table 910-1 allowable concentrations. Soil laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as an attachment.

Laboratory analytical results of all surface water samples indicated concentrations of analytes within COGCC Table 910-1 allowable concentrations. Surface water laboratory analytical results are summarized in Table 2 and laboratory analytical reports are included as an attachment.

Summary and Conclusions

On August 24 and September 8, 2015, soil sampling, surface water sampling and excavation activities occurred in response to pipeline release (Spill/Release Point ID – 442980) in Garfield County, Colorado. Soil samples were collected from the release path, excavated area, and soil stockpiles and submitted for laboratory analysis of constituents identified in COGCC Table 910-1. Additionally, surface water samples were collected from Divide Creek and the Seep 01 location and submitted for laboratory analysis of constituents identified in COGCC Table 910-1.

Laboratory analytical results of soil confirmation and stockpile samples indicate concentrations of analytes that either with COGCC Table 910-1 allowable concentrations levels or are within 1.25 x background concentrations observed in the area, with the exception of EC, pH, and SAR exceedances.

Laboratory analytical results of the surface water samples collected from Divide Creek indicate concentrations of analytes that are either below the laboratory detection limit or compliant with COGCC Table 910-1 allowable concentrations.

Laboratory analytical results of the surface water sample collected from Seep 01 indicate concentrations of analytes that are either below the laboratory detection limit or compliant with COGCC Table 910-1 allowable concentrations. In correspondence with the COGCC following review of laboratory analytical results, Mr. Carlos Lujan expressed that evidence suggests the seep is natural and not produced water from this pipeline release.

Following approval from the COGCC, the excavation area was backfilled with clean imported fill material to match the existing grade. No groundwater was encountered during excavation activities. The stockpile of excavated material from the release area will be incorporated into the Miller 1 production pad and buried beneath at least 3 ft. of native soil due to the EC, pH, and SAR exceedances.

Please call us at (970) 285-9985 if you have any questions regarding this report or require additional information.

Sincerely,

LT ENVIRONMENTAL, INC.

Chris McKisson
Project Environmental Scientist

Robert D. Fishburn, P.G.
Sr. Hydrogelogist

Attachments:

Figure 1 – Site Map 8/24/2015
Figure 2 – Site Map 8/25/2015
Figure 3 – Site Map 8/26/2015
Figure 4 – Site Map 9/8/2015
Table 1 – Soil Analytical Results
Table 2 – Surface Water Analytical Results
Attachment – Laboratory Analytical Reports

FIGURES

LEGEND

- SOIL SAMPLE
- SEEP
- SURFACE WATER SAMPLE
- RELEASE PATH

IMAGE COURTESY OF ESRI

0 80 160

Feet

N

FIGURE 1
SITE MAP (8/24/2015)
PIPELINE RELEASE SESW SEC 25 6S 92W-SCOTT
GARFIELD COUNTY, COLORADO

VANGUARD OPERATING, LLC

P:\Vanguard Operating LLC\GIS\059415012_SCOTT_24B_25\MXD\059415012_FIG01_SITE_NORTH_USE.mxd

IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- SEEP
- EXCAVATION EXTENT (8/25/2015)

0 50 100

Feet

N

FIGURE 2
SITE MAP (8/25/2015)
PIPELINE RELEASE SESW SEC 25 6S 92W-SCOTT
GARFIELD COUNTY, COLORADO

VANGUARD OPERATING, LLC

P:\Vanguard Operating LLC\GIS\059415012_SCOTT_24B_25\MXD\059415012_FIG02_SITE_NORTH_082715.mxd

IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- SEEP
- EXCAVATION EXTENT (8/26/2015)

0 50 100

Feet

N

FIGURE 3
SITE MAP (8/26/2015)
PIPELINE RELEASE SESW SEC 25 6S 92W-SCOTT
GARFIELD COUNTY, COLORADO

VANGUARD OPERATING, LLC

P:\Vanguard Operating LLC\GIS\059415012_SCOTT_24B_25\MXD\059415012_FIG01_SITE_NORTH_082615.mxd

IMAGE COURTESY OF ESRI

LEGEND

- SEEP
- SURFACE WATER SAMPLE

0 50 100

Feet

N

FIGURE 4
SITE MAP (9/8/2015)
PIPELINE RELEASE SESW SEC 25 6S 92W-SCOTT
GARFIELD COUNTY, COLORADO

VANGUARD OPERATING, LLC

P:\Vanguard Operating LLC\GIS\059415012_SCOTT_24B_25\MXD\059415012_FIG04_SITE_NORTH_090815.mxd

TABLE

TABLE 1
PIPELINE RELEASE SESW SEC 25 6S 92W-SCOTT
SOIL ANALYTICAL RESULTS
GARFIELD COUNTY, COLORADO
VANGUARD OPERATING, LLC.

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	SS01	Seep 01	SS 01	SS 02	SS 03	SB01	SSW01
Sample Date			8/24/2015	8/25/2015	8/25/2015	8/25/2015	8/25/2015	8/26/2015	8/26/2015
Sample Type			Grab	Grab	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation
Sample Depth		feet	Surface	Surface	1	4.5	3.5	6	3
Arsenic	0.39	mg/kg	**8.1**	**14**	**4.3**	**3.2**	**4.3**	**3.2**	**2.9**
Barium	15,000	mg/kg	160	140	190	130	120	150	160
Cadmium	70	mg/kg	<0.93	<0.85	<0.87	<0.86	<0.78	<0.84	<0.76
Chromium (III)	120,000	mg/kg	17	6.7	8.2	6.2	5.4	6.7	6.2
Chromium (VI)	23	mg/kg	<1.2	<1.2	<1.1	<1.1	1.2	<1.0	<1.0
Copper	3,100	mg/kg	26	11	9.2	8.3	7.7	8.4	6.7
Lead	400	mg/kg	8.6	8.4	7.0	7.0	6.0	5.9	5.3
Mercury	23	mg/kg	0.045	0.025	<0.016	0.020	<0.014	0.014	<0.014
Nickel	1,600	mg/kg	40	16	18	15	15	20	18
Selenium	390	mg/kg	<0.93	2.2	<0.87	<0.86	1.3	1.4	1.1
Silver	390	mg/kg	<0.47	<0.43	<0.44	<0.43	<0.39	<0.42	<0.38
Zinc	23,000	mg/kg	61	31	33	25	25	24	20
EC	4.0	mmhos/cm	**5.4**	**7.8**	**7.6**	**8.6**	**14**	**7.4**	**12**
pH	6 - 9	SU	**9.6**	8.5	8.7	**9.2**	**9.2**	**9.2**	8.9
SAR	12	unitless	**97**	**81**	**53**	**140**	**210**	**73**	**43**
TPH-GRO		mg/kg	<2.9	130	<2.9	<2.9	<2.9	<2.7	<2.7
TPH-DRO		mg/kg	<4.8	52	21	<4.8	<4.8	<4.4	<4.4
TPH	500	mg/kg	<4.8	182	21	<4.8	<4.8	<4.4	<4.4
Benzene	0.17	mg/kg	<0.035	**0.55**	<0.035	<0.035	<0.034	<0.032	<0.032
Toluene	85	mg/kg	<0.035	4.0	<0.035	<0.035	<0.034	<0.032	<0.032
Ethylbenzene	100	mg/kg	<0.035	0.43	<0.035	<0.035	<0.034	<0.032	<0.032
Total Xylenes	175	mg/kg	<0.11	7.0	<0.11	<0.10	<0.10	<0.095	<0.096
Acenaphthene	1000	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Anthracene	1000	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Benzo(A)anthracene	0.22	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Benzo(B)fluoranthene	0.22	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Benzo(K)fluoranthene	2.2	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Benzo(A)pyrene	0.022	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Chrysene	22	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Dibenzo(A,H)anthracene	0.022	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Fluoranthene	1000	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Fluorene	1000	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Naphthalene	23	mg/kg	<0.0077	0.034	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070
Pyrene	1000	mg/kg	<0.0077	<0.0080	<0.0077	<0.0077	<0.0076	<0.0071	<0.0070

NOTES:
< - less than the stated reporting limit
BOLD - indicates result exceeds the COGCC concentration level
COGCC - Colorado Oil and Gas Conservation Commission
EC- electrical conductivity
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter
SAR - Sodium Adsorption Ratio
SU - standard unit
TPH-GRO - total petroleum hydrocarbons-gasoline range organics
TPH-DRO - total petroleum hydrocarbons-diesel range organics
TPH - combination of TPH-GRO and TPH-DRO
NA - not analyzed

TABLE 1
PIPELINE RELEASE SESW SEC 25 6S 92W-SCOTT
SOIL ANALYTICAL RESULTS
GARFIELD COUNTY, COLORADO
VANGUARD OPERATING, LLC.

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	MB01	MSW01	NB01	NSW01	SS01@3'	SS01@4.5'	COMP-T	COMP-SP
Sample Date			8/26/2015	8/26/2015	8/26/2015	8/26/2015	9/1/2015	9/1/2015	9/1/2015	9/1/2015
Sample Type			Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Confirmation	Composite	Composite
Sample Depth		feet	6	3	6	3	3	4.5	NA	NA
Arsenic	0.39	mg/kg	**4.9**	**4.3**	**4.6**	**5.5**	NA	NA	**4.4**	**4.9**
Barium	15,000	mg/kg	100	190	510	120	NA	NA	150	270
Cadmium	70	mg/kg	<0.77	<0.89	<0.89	<0.77	NA	NA	<0.79	<0.88
Chromium (III)	120,000	mg/kg	7.9	7.4	12.0	11.0	NA	NA	7.2	8.5
Chromium (VI)	23	mg/kg	<1.2	<1.0	<1.1	<1.1	NA	NA	<1.0	<1.1
Copper	3,100	mg/kg	11	9.8	15	16	NA	NA	9.6	12
Lead	400	mg/kg	7.4	6.7	5.7	5.1	NA	NA	5..8	6.8
Mercury	23	mg/kg	0.025	0.022	<0.014	0.016	NA	NA	0.028	0.024
Nickel	1,600	mg/kg	23	21	32	30	NA	NA	21	23
Selenium	390	mg/kg	4.4	1.3	<0.89	<0.77	NA	NA	1.2	1.3
Silver	390	mg/kg	<0.39	<0.44	<0.45	<0.39	NA	NA	<0.40	<0.44
Zinc	23,000	mg/kg	28	27	47	41	NA	NA	27	32
EC	4.0	mmhos/cm	**5.5**	**7.6**	3.7	**6.4**	**6.4**	**7.8**	**8.6**	**9.6**
pH	6 - 9	SU	**9.2**	9.0	**9.5**	**9.2**	9.0	**9.4**	**9.4**	**9.2**
SAR	12	unitless	**140**	**54**	**78**	**110**	**52**	**57**	**40**	**63**
TPH-GRO		mg/kg	<2.9	<2.8	<2.8	<2.8	NA	NA	<2.8	<2.8
TPH-DRO		mg/kg	11	17	<4.4	<4.7	NA	NA	31	31
TPH	500	mg/kg	11	17	<4.4	<4.7	NA	NA	31	31
Benzene	0.17	mg/kg	<0.035	<0.033	<0.033	<0.034	NA	NA	<0.034	<0.034
Toluene	85	mg/kg	0.044	<0.033	<0.033	<0.034	NA	NA	<0.034	<0.034
Ethylbenzene	100	mg/kg	<0.035	<0.033	<0.033	<0.034	NA	NA	<0.034	<0.034
Total Xylenes	175	mg/kg	0.11	<0.10	<0.099	<0.10	NA	NA	<0.10	<0.10
							NA	NA		
Acenaphthene	1000	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Anthracene	1000	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Benzo(A)anthracene	0.22	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Benzo(B)fluoranthene	0.22	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Benzo(K)fluoranthene	2.2	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Benzo(A)pyrene	0.022	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Chrysene	22	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Dibenzo(A,H)anthracene	0.022	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Fluoranthene	1000	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Fluorene	1000	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Naphthalene	23	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073
Pyrene	1000	mg/kg	<0.0076	<0.0073	<0.0071	<0.0076	NA	NA	<0.0073	<0.0073

NOTES:
< - less than the stated reporting limit
BOLD - indicates result exceeds the COGCC concentration level
COGCC - Colorado Oil and Gas Conservation Commission
EC- electrical conductivity
mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter
SAR - Sodium Adsorption Ratio
SU - standard unit
TPH-GRO - total petroleum hydrocarbons-gasoline range organics
TPH-DRO - total petroleum hydrocarbons-diesel range organics
TPH - combination of TPH-GRO and TPH-DRO
NA - not analyzed

TABLE 2
PIPELINE RELEASE SESW SEC25 6S 92W-SCOTT
SURFACE WATER ANALYTICAL RESULTS
GARFIELD COUNTY, COLORADO
VANGUARD OPERATING, LLC

Sample ID	Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Chloride mg/L	Sulfate mg/L	TDS mg/L
Oxbow01	8/24/2015	<1.0	<1.0	<1.0	<3.0	14	55	960
Divide Creek 01	8/24/2015	<1.0	<1.0	<1.0	<3.0	72	110	470
Divide Creek 02	8/24/2015	<1.0	<1.0	<1.0	<3.0	14	55	450
Seep 01 Surface Water	9/8/2015	<1.0	<1.0	<1.0	<3.0	38	190	1,400
COGCC CONCENTRATION LEVELS		5	560	700	1400	**<1.25 x background**	**<1.25 x background**	**<1.25 x background**

Notes:
< - less than the stated reporting limit
BOLD - indicates result exceeds the COGCC concentration level
COGCC - Colorado Oil and Gas Conservation Commission
µg/L - micrograms per liter
mg/L - milligrams per liter
TDS - total dissolved solids

ATTACHMENT

LABORATORY ANALYTICAL RESULTS

08-Sep-2015

Rob Fishburn
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Piepline Release SESW Sec 25 6S 92W-Scott** Work Order: **1509124**

Dear Rob,

ALS Environmental received 2 samples on 02-Sep-2015 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Les Arnold
Senior Project Manager

Certificate No: MN 532786

Report of Laboratory Analysis

10-Sep-2015

Rob Fishburn
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Pipeline Release SESW SEC25 6S 92W-Scott** Work Order: **1509414**

Dear Rob,

ALS Environmental received 2 samples on 09-Sep-2015 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Les Arnold

Les Arnold
Senior Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

26-Aug-2015

Rob Fishburn
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Scott 24B-25 Pipeline Release** Work Order: **15081259**

Dear Rob,

ALS Environmental received 3 samples on 25-Aug-2015 10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 14.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Les Arnold

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

28-Aug-2015

Rob Fishburn
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Pipeline Release SESW SEC 25 6S 92W-Scott** Work Order: **15081352**

Dear Rob,

ALS Environmental received 4 samples on 26-Aug-2015 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Electronically approved by: Les Arnold

Les Arnold
Senior Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

ALS Group USA, Corp

Date: 28-Aug-15

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: **15081352**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
15081352-01	Seep 01	Soil		8/25/2015 10:18	8/26/2015 09:00	☐
15081352-02	SS 01	Soil		8/25/2015 09:10	8/26/2015 09:00	☐
15081352-03	SS 02	Soil		8/25/2015 09:58	8/26/2015 09:00	☐
15081352-04	SS 03	Soil		8/25/2015 10:37	8/26/2015 09:00	☐

Client:	LT Environmental, Inc
Project:	Pipeline Release SESW SEC 25 6S 92W-Scott
WorkOrder:	**15081352**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 28-Aug-15

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: 15081352

Case Narrative

Samples for the above noted Work Order were received on 08/26/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Sample Receiving:
No deviations or anomalies were noted.

Volatile Organics:
No deviations or anomalies were noted.

Extractable Organics:
No deviations or anomalies were noted.

Metals:
No deviations or anomalies were noted.

Wet Chemistry:
Batch 75351, Method CR6_7196_S, Sample 15081352-02B: The MSD recovery was outside of the control limit for Hexavalent Chromium. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte.

Batch 75351, Method CR6_7196_S, Sample 15081352-02B PDS: The PDS recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for this analyte.

No other deviations or anomalies were noted.

ALS Group USA, Corp

Date: *28-Aug-15*

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: 15081352
Sample ID: Seep 01
Lab ID: 15081352-01
Collection Date: 8/25/2015 10:18 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3550 / 8/26/15	Analyst: **IT**
DRO (C10-C28)	**52**		**5.0**	**mg/Kg-dry**	1	8/26/2015 04:16 PM
Surr: 4-Terphenyl-d14	*50.6*		*39-133*	*%REC*	1	8/26/2015 04:16 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 8/26/15	Analyst: **IT**
GRO (C6-C10)	**130**		**3.0**	**mg/Kg-dry**	1	8/26/2015 01:31 PM
Surr: Toluene-d8	*95.5*		*50-150*	*%REC*	1	8/26/2015 01:31 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 8/26/15	Analyst: **LR**
Mercury	**0.025**		**0.017**	**mg/Kg-dry**	1	8/26/2015 03:14 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 8/26/15	Analyst: **JEC**
Arsenic	**14**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:32 PM
Barium	**140**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:32 PM
Cadmium	ND		0.85	mg/Kg-dry	1	8/26/2015 12:32 PM
Chromium	**7.2**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:32 PM
Copper	**11**		**0.85**	**mg/Kg-dry**	1	8/26/2015 12:32 PM
Lead	**8.4**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:32 PM
Nickel	**16**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:32 PM
Selenium	**2.2**		**0.85**	**mg/Kg-dry**	1	8/26/2015 12:32 PM
Silver	ND		0.43	mg/Kg-dry	1	8/26/2015 12:32 PM
Zinc	**31**		**0.85**	**mg/Kg-dry**	1	8/26/2015 12:32 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 8/28/15	Analyst: **JEC**
Calcium	**26**		**5.0**	**mg/L**	10	8/28/2015 03:08 PM
Magnesium	**5.5**		**2.0**	**mg/L**	10	8/28/2015 03:08 PM
Sodium	**1,700**		**2.0**	**mg/L**	10	8/28/2015 03:08 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 8/28/15	Analyst: **JEC**
Sodium Adsorption Ratio	**81**		**0.010**	**none**	1	8/28/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3550 / 8/26/15	Analyst: **RS**
Acenaphthene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Anthracene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Benzo(a)anthracene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Benzo(a)pyrene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Benzo(b)fluoranthene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Benzo(k)fluoranthene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Chrysene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Dibenzo(a,h)anthracene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Fluoranthene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: 15081352
Sample ID: Seep 01
Lab ID: 15081352-01
Collection Date: 8/25/2015 10:18 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Indeno(1,2,3-cd)pyrene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Naphthalene	**0.034**		**0.0080**	**mg/Kg-dry**	1	8/27/2015 01:57 AM
Pyrene	ND		0.0080	mg/Kg-dry	1	8/27/2015 01:57 AM
Surr: 2-Fluorobiphenyl	*64.7*		*12-100*	*%REC*	1	8/27/2015 01:57 AM
Surr: 4-Terphenyl-d14	*74.4*		*25-137*	*%REC*	1	8/27/2015 01:57 AM
Surr: Nitrobenzene-d5	*62.9*		*37-107*	*%REC*	1	8/27/2015 01:57 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 8/26/15	Analyst: **BG**
Benzene	**0.55**		**0.036**	**mg/Kg-dry**	1	8/26/2015 02:16 PM
Ethylbenzene	**0.43**		**0.036**	**mg/Kg-dry**	1	8/26/2015 02:16 PM
m,p-Xylene	**5.9**		**0.072**	**mg/Kg-dry**	1	8/26/2015 02:16 PM
o-Xylene	**1.2**		**0.036**	**mg/Kg-dry**	1	8/26/2015 02:16 PM
Toluene	**4.0**		**0.036**	**mg/Kg-dry**	1	8/26/2015 02:16 PM
Xylenes, Total	**7.0**		**0.11**	**mg/Kg-dry**	1	8/26/2015 02:16 PM
Surr: 1,2-Dichloroethane-d4	*100*		*70-130*	*%REC*	1	8/26/2015 02:16 PM
Surr: 4-Bromofluorobenzene	*104*		*70-130*	*%REC*	1	8/26/2015 02:16 PM
Surr: Dibromofluoromethane	*97.3*		*70-130*	*%REC*	1	8/26/2015 02:16 PM
Surr: Toluene-d8	*97.4*		*70-130*	*%REC*	1	8/26/2015 02:16 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 8/28/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**7.8**		**0.12**	**mmhos/cm @2**	25	8/28/2015 04:50 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**6.7**		**0.60**	**mg/Kg-dry**	1	8/27/2015 07:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 8/26/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	8/27/2015 03:00 PM
MOISTURE			**E160.3M**			Analyst: **EVB**
Moisture	**17**		**0.050**	**% of sample**	1	8/26/2015 11:30 AM
PH			**SW9045D**		Prep: EXTRACT / 8/26/15	Analyst: **JB**
pH	**8.5**			**s.u.**	1	8/26/2015 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *28-Aug-15*

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: 15081352
Sample ID: SS 01
Lab ID: 15081352-02
Collection Date: 8/25/2015 09:10 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3550 / 8/26/15	Analyst: **IT**
DRO (C10-C28)	**21**		**4.8**	**mg/Kg-dry**	1	8/26/2015 04:46 PM
Surr: 4-Terphenyl-d14	*54.1*		*39-133*	*%REC*	1	8/26/2015 04:46 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 8/26/15	Analyst: **IT**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	8/26/2015 01:55 PM
Surr: Toluene-d8	*98.7*		*50-150*	*%REC*	1	8/26/2015 01:55 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 8/26/15	Analyst: **LR**
Mercury	ND		0.016	mg/Kg-dry	1	8/26/2015 03:16 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 8/26/15	Analyst: **JEC**
Arsenic	**4.3**		**0.44**	**mg/Kg-dry**	1	8/26/2015 12:37 PM
Barium	**190**		**0.44**	**mg/Kg-dry**	1	8/26/2015 12:37 PM
Cadmium	ND		0.87	mg/Kg-dry	1	8/26/2015 12:37 PM
Chromium	**8.8**		**0.44**	**mg/Kg-dry**	1	8/26/2015 12:37 PM
Copper	**9.2**		**0.87**	**mg/Kg-dry**	1	8/26/2015 12:37 PM
Lead	**7.0**		**0.44**	**mg/Kg-dry**	1	8/26/2015 12:37 PM
Nickel	**18**		**0.44**	**mg/Kg-dry**	1	8/26/2015 12:37 PM
Selenium	ND		0.87	mg/Kg-dry	1	8/26/2015 12:37 PM
Silver	ND		0.44	mg/Kg-dry	1	8/26/2015 12:37 PM
Zinc	**33**		**0.87**	**mg/Kg-dry**	1	8/26/2015 12:37 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 8/28/15	Analyst: **JEC**
Calcium	**63**		**5.0**	**mg/L**	10	8/28/2015 03:14 PM
Magnesium	**10**		**2.0**	**mg/L**	10	8/28/2015 03:14 PM
Sodium	**1,700**		**2.0**	**mg/L**	10	8/28/2015 03:14 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 8/28/15	Analyst: **JEC**
Sodium Adsorption Ratio	**53**		**0.010**	**none**	1	8/28/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3550 / 8/26/15	Analyst: **RS**
Acenaphthene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Anthracene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Benzo(a)anthracene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Benzo(a)pyrene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Benzo(b)fluoranthene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Benzo(k)fluoranthene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Chrysene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Dibenzo(a,h)anthracene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Fluoranthene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott **Work Order:** 15081352
Sample ID: SS 01 **Lab ID:** 15081352-02
Collection Date: 8/25/2015 09:10 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Indeno(1,2,3-cd)pyrene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Naphthalene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Pyrene	ND		0.0077	mg/Kg-dry	1	8/27/2015 02:19 AM
Surr: 2-Fluorobiphenyl	*67.6*		*12-100*	*%REC*	1	8/27/2015 02:19 AM
Surr: 4-Terphenyl-d14	*77.9*		*25-137*	*%REC*	1	8/27/2015 02:19 AM
Surr: Nitrobenzene-d5	*66.0*		*37-107*	*%REC*	1	8/27/2015 02:19 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 8/26/15	Analyst: **BG**
Benzene	ND		0.035	mg/Kg-dry	1	8/26/2015 02:41 PM
Ethylbenzene	ND		0.035	mg/Kg-dry	1	8/26/2015 02:41 PM
m,p-Xylene	ND		0.070	mg/Kg-dry	1	8/26/2015 02:41 PM
o-Xylene	ND		0.035	mg/Kg-dry	1	8/26/2015 02:41 PM
Toluene	ND		0.035	mg/Kg-dry	1	8/26/2015 02:41 PM
Xylenes, Total	ND		0.11	mg/Kg-dry	1	8/26/2015 02:41 PM
Surr: 1,2-Dichloroethane-d4	*97.6*		*70-130*	*%REC*	1	8/26/2015 02:41 PM
Surr: 4-Bromofluorobenzene	*99.0*		*70-130*	*%REC*	1	8/26/2015 02:41 PM
Surr: Dibromofluoromethane	*92.8*		*70-130*	*%REC*	1	8/26/2015 02:41 PM
Surr: Toluene-d8	*99.1*		*70-130*	*%REC*	1	8/26/2015 02:41 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 8/28/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**7.6**		**0.12**	**mmhos/cm @2**	25	8/28/2015 04:50 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**8.2**		**0.59**	**mg/Kg-dry**	1	8/27/2015 07:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 8/26/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	8/27/2015 03:00 PM
MOISTURE			**E160.3M**			Analyst: **EVB**
Moisture	**15**		**0.050**	**% of sample**	1	8/26/2015 11:30 AM
PH			**SW9045D**		Prep: EXTRACT / 8/26/15	Analyst: **JB**
pH	**8.7**			**s.u.**	1	8/26/2015 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *28-Aug-15*

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: 15081352
Sample ID: SS 02
Lab ID: 15081352-03
Collection Date: 8/25/2015 09:58 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3550 / 8/26/15	Analyst: **IT**
DRO (C10-C28)	ND		4.8	mg/Kg-dry	1	8/26/2015 03:46 PM
Surr: 4-Terphenyl-d14	*54.2*		*39-133*	*%REC*	1	8/26/2015 03:46 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 8/26/15	Analyst: **IT**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	8/26/2015 02:19 PM
Surr: Toluene-d8	*98.3*		*50-150*	*%REC*	1	8/26/2015 02:19 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 8/26/15	Analyst: **LR**
Mercury	**0.020**		**0.015**	**mg/Kg-dry**	1	8/26/2015 03:19 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 8/26/15	Analyst: **JEC**
Arsenic	**3.2**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:43 PM
Barium	**130**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:43 PM
Cadmium	ND		0.86	mg/Kg-dry	1	8/26/2015 12:43 PM
Chromium	**7.0**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:43 PM
Copper	**8.3**		**0.86**	**mg/Kg-dry**	1	8/26/2015 12:43 PM
Lead	**7.0**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:43 PM
Nickel	**15**		**0.43**	**mg/Kg-dry**	1	8/26/2015 12:43 PM
Selenium	ND		0.86	mg/Kg-dry	1	8/26/2015 12:43 PM
Silver	ND		0.43	mg/Kg-dry	1	8/26/2015 12:43 PM
Zinc	**25**		**0.86**	**mg/Kg-dry**	1	8/26/2015 12:43 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 8/28/15	Analyst: **JEC**
Calcium	**8.4**		**5.0**	**mg/L**	10	8/28/2015 03:20 PM
Magnesium	**2.3**		**2.0**	**mg/L**	10	8/28/2015 03:20 PM
Sodium	**1,800**		**2.0**	**mg/L**	10	8/28/2015 03:20 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 8/28/15	Analyst: **JEC**
Sodium Adsorption Ratio	**140**		**0.010**	**none**	1	8/28/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3550 / 8/26/15	Analyst: **RS**
Acenaphthene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Anthracene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Benzo(a)anthracene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Benzo(a)pyrene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Benzo(b)fluoranthene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Benzo(k)fluoranthene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Chrysene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Dibenzo(a,h)anthracene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Fluoranthene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: 15081352
Sample ID: SS 02
Lab ID: 15081352-03
Collection Date: 8/25/2015 09:58 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Indeno(1,2,3-cd)pyrene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Naphthalene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Pyrene	ND		0.0077	mg/Kg-dry	1	8/27/2015 01:34 AM
Surr: 2-Fluorobiphenyl	*68.3*		*12-100*	*%REC*	1	8/27/2015 01:34 AM
Surr: 4-Terphenyl-d14	*78.0*		*25-137*	*%REC*	1	8/27/2015 01:34 AM
Surr: Nitrobenzene-d5	*65.7*		*37-107*	*%REC*	1	8/27/2015 01:34 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 8/26/15	Analyst: **BG**
Benzene	ND		0.035	mg/Kg-dry	1	8/26/2015 03:05 PM
Ethylbenzene	ND		0.035	mg/Kg-dry	1	8/26/2015 03:05 PM
m,p-Xylene	ND		0.069	mg/Kg-dry	1	8/26/2015 03:05 PM
o-Xylene	ND		0.035	mg/Kg-dry	1	8/26/2015 03:05 PM
Toluene	ND		0.035	mg/Kg-dry	1	8/26/2015 03:05 PM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	8/26/2015 03:05 PM
Surr: 1,2-Dichloroethane-d4	*98.2*		*70-130*	*%REC*	1	8/26/2015 03:05 PM
Surr: 4-Bromofluorobenzene	*100*		*70-130*	*%REC*	1	8/26/2015 03:05 PM
Surr: Dibromofluoromethane	*93.6*		*70-130*	*%REC*	1	8/26/2015 03:05 PM
Surr: Toluene-d8	*100*		*70-130*	*%REC*	1	8/26/2015 03:05 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 8/28/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**8.6**		**0.12**	**mmhos/cm @2**	25	8/28/2015 04:50 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**6.2**		**0.58**	**mg/Kg-dry**	1	8/27/2015 07:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 8/26/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	8/27/2015 03:00 PM
MOISTURE			**E160.3M**			Analyst: **EVB**
Moisture	**14**		**0.050**	**% of sample**	1	8/26/2015 11:30 AM
PH			**SW9045D**		Prep: EXTRACT / 8/26/15	Analyst: **JB**
pH	**9.2**			**s.u.**	1	8/26/2015 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *28-Aug-15*

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: 15081352
Sample ID: SS 03
Lab ID: 15081352-04
Collection Date: 8/25/2015 10:37 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3550 / 8/26/15	Analyst: **IT**
DRO (C10-C28)	ND		4.8	mg/Kg-dry	1	8/26/2015 05:15 PM
Surr: 4-Terphenyl-d14	*56.2*		*39-133*	*%REC*	1	8/26/2015 05:15 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 8/26/15	Analyst: **IT**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	8/26/2015 02:43 PM
Surr: Toluene-d8	*98.4*		*50-150*	*%REC*	1	8/26/2015 02:43 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 8/26/15	Analyst: **LR**
Mercury	ND		0.014	mg/Kg-dry	1	8/26/2015 03:21 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 8/26/15	Analyst: **JEC**
Arsenic	**4.3**		**0.39**	**mg/Kg-dry**	1	8/26/2015 12:48 PM
Barium	**120**		**0.39**	**mg/Kg-dry**	1	8/26/2015 12:48 PM
Cadmium	ND		0.78	mg/Kg-dry	1	8/26/2015 12:48 PM
Chromium	**6.7**		**0.39**	**mg/Kg-dry**	1	8/26/2015 12:48 PM
Copper	**7.7**		**0.78**	**mg/Kg-dry**	1	8/26/2015 12:48 PM
Lead	**6.0**		**0.39**	**mg/Kg-dry**	1	8/26/2015 12:48 PM
Nickel	**15**		**0.39**	**mg/Kg-dry**	1	8/26/2015 12:48 PM
Selenium	**1.3**		**0.78**	**mg/Kg-dry**	1	8/26/2015 12:48 PM
Silver	ND		0.39	mg/Kg-dry	1	8/26/2015 12:48 PM
Zinc	**25**		**0.78**	**mg/Kg-dry**	1	8/26/2015 12:48 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 8/28/15	Analyst: **JEC**
Calcium	**9.3**		**5.0**	**mg/L**	10	8/28/2015 03:26 PM
Magnesium	**2.9**		**2.0**	**mg/L**	10	8/28/2015 03:26 PM
Sodium	**2,900**		**2.0**	**mg/L**	10	8/28/2015 03:26 PM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 8/28/15	Analyst: **JEC**
Sodium Adsorption Ratio	**210**		**0.010**	**none**	1	8/28/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3550 / 8/26/15	Analyst: **RS**
Acenaphthene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Anthracene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Benzo(a)anthracene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Benzo(a)pyrene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Benzo(b)fluoranthene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Benzo(k)fluoranthene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Chrysene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Dibenzo(a,h)anthracene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Fluoranthene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC 25 6S 92W-Scott
Work Order: 15081352
Sample ID: SS 03
Lab ID: 15081352-04
Collection Date: 8/25/2015 10:37 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Indeno(1,2,3-cd)pyrene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Naphthalene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Pyrene	ND		0.0076	mg/Kg-dry	1	8/27/2015 02:41 AM
Surr: 2-Fluorobiphenyl	*67.7*		*12-100*	*%REC*	1	8/27/2015 02:41 AM
Surr: 4-Terphenyl-d14	*82.1*		*25-137*	*%REC*	1	8/27/2015 02:41 AM
Surr: Nitrobenzene-d5	*66.2*		*37-107*	*%REC*	1	8/27/2015 02:41 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 8/26/15	Analyst: **BG**
Benzene	ND		0.034	mg/Kg-dry	1	8/26/2015 03:29 PM
Ethylbenzene	ND		0.034	mg/Kg-dry	1	8/26/2015 03:29 PM
m,p-Xylene	ND		0.069	mg/Kg-dry	1	8/26/2015 03:29 PM
o-Xylene	ND		0.034	mg/Kg-dry	1	8/26/2015 03:29 PM
Toluene	ND		0.034	mg/Kg-dry	1	8/26/2015 03:29 PM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	8/26/2015 03:29 PM
Surr: 1,2-Dichloroethane-d4	*102*		*70-130*	*%REC*	1	8/26/2015 03:29 PM
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	1	8/26/2015 03:29 PM
Surr: Dibromofluoromethane	*92.8*		*70-130*	*%REC*	1	8/26/2015 03:29 PM
Surr: Toluene-d8	*97.0*		*70-130*	*%REC*	1	8/26/2015 03:29 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 8/28/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**14**		**0.12**	**mmhos/cm @2**	25	8/28/2015 04:50 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **MB**
Chromium, Trivalent	**5.4**		**0.57**	**mg/Kg-dry**	1	8/27/2015 07:00 PM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 8/26/15	Analyst: **MB**
Chromium, Hexavalent	**1.2**		**1.1**	**mg/Kg-dry**	1	8/27/2015 03:00 PM
MOISTURE			**E160.3M**			Analyst: **EVB**
Moisture	**13**		**0.050**	**% of sample**	1	8/26/2015 11:30 AM
PH			**SW9045D**		Prep: EXTRACT / 8/26/15	Analyst: **JB**
pH	**9.2**			**s.u.**	1	8/26/2015 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 28-Aug-15

Client: LT Environmental, Inc

QC BATCH REPORT

Work Order: 15081352

Project: Pipeline Release SESW SEC 25 6S 92W-Scott

Batch ID: **75268** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-75268-75268** Units: **mg/Kg** Analysis Date: **8/26/2015 01:47 PM**

Client ID: Run ID: **GC8_150826A** SeqNo: **3432997** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	*1.189*	0	*2*	0	*59.5*	*39-133*	0			

LCS Sample ID: **DLCSS1-75268-75268** Units: **mg/Kg** Analysis Date: **8/26/2015 02:16 PM**

Client ID: Run ID: **GC8_150826A** SeqNo: **3432998** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	161.1	5.0	200	0	80.6	61-109	0			
Surr: 4-Terphenyl-d14	*1.122*	0	*2*	0	*56.1*	*39-133*	0			

MS Sample ID: **15081352-03B MS** Units: **mg/Kg** Analysis Date: **8/26/2015 02:46 PM**

Client ID: **SS 02** Run ID: **GC8_150826A** SeqNo: **3432999** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	129.6	4.1	162.6	0	79.7	48-110	0			
Surr: 4-Terphenyl-d14	*0.9006*	0	*1.626*	0	*55.4*	*39-133*	0			

MSD Sample ID: **15081352-03B MSD** Units: **mg/Kg** Analysis Date: **8/26/2015 03:16 PM**

Client ID: **SS 02** Run ID: **GC8_150826A** SeqNo: **3433000** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	134.5	4.1	165.1	0	81.4	48-110	129.6	3.66	30	
Surr: 4-Terphenyl-d14	*1.015*	0	*1.651*	0	*61.5*	*39-133*	0.9006	*12*	*30*	

The following samples were analyzed in this batch:

15081352-01B	15081352-02B	15081352-03B
15081352-04B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75269** Instrument ID **GC10** Method: **SW8015D**

MBLK Sample ID: **MBLK-75269-75269** Units: **µg/Kg** Analysis Date: **8/26/2015 01:07 PM**
Client ID: Run ID: **GC10_150826A** SeqNo: **3432801** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	*4970*	0	*5000*	0	*99.4*	*50-150*	0			

LCS Sample ID: **LCS-75269-75269** Units: **µg/Kg** Analysis Date: **8/26/2015 12:43 PM**
Client ID: Run ID: **GC10_150826A** SeqNo: **3432799** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	627500	2,500	500000	0	126	70-130	0			
Surr: Toluene-d8	*5346*	0	*5000*	0	*107*	*50-150*	0			

MS Sample ID: **15081353-03A MS** Units: **µg/Kg** Analysis Date: **8/26/2015 05:57 PM**
Client ID: Run ID: **GC10_150826A** SeqNo: **3434439** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	537900	2,500	500000	0	108	70-130	0			
Surr: Toluene-d8	*4772*	0	*5000*	0	*95.4*	*50-150*	0			

MSD Sample ID: **15081353-03A MSD** Units: **µg/Kg** Analysis Date: **8/26/2015 06:22 PM**
Client ID: Run ID: **GC10_150826A** SeqNo: **3434441** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	528000	2,500	500000	0	106	70-130	537900	1.87	30	
Surr: Toluene-d8	*4706*	0	*5000*	0	*94.1*	*50-150*	4772	*1.39*	*30*	

The following samples were analyzed in this batch:

15081352-01A	15081352-02A	15081352-03A
15081352-04A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75275** Instrument ID **HG1** Method: **SW7471B**

MBLK Sample ID: **MBLK-75275-75275** Units: **mg/Kg** Analysis Date: **8/26/2015 03:10 PM**
Client ID: Run ID: **HG1_150826A** SeqNo: **3432862** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.020								

LCS Sample ID: **LCS-75275-75275** Units: **mg/Kg** Analysis Date: **8/26/2015 03:12 PM**
Client ID: Run ID: **HG1_150826A** SeqNo: **3432863** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1762	0.020	0.1665	0	106	80-120	0			

MS Sample ID: **15081352-04BMS** Units: **mg/Kg** Analysis Date: **8/26/2015 03:23 PM**
Client ID: **SS 03** Run ID: **HG1_150826A** SeqNo: **3432870** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1209	0.012	0.1035	0.01146	106	75-125	0			

MSD Sample ID: **15081352-04BMSD** Units: **mg/Kg** Analysis Date: **8/26/2015 03:25 PM**
Client ID: **SS 03** Run ID: **HG1_150826A** SeqNo: **3432871** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1222	0.012	0.1033	0.01146	107	75-125	0.1209	1.03	35	

The following samples were analyzed in this batch:

15081352-01B	15081352-02B	15081352-03B
15081352-04B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75267** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-75267-75267** Units: **mg/Kg** Analysis Date: **8/26/2015 11:59 AM**
Client ID: Run ID: **ICP2_150826A** SeqNo: **3432407** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.50								
Chromium	0.01718	0.25								J
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS Sample ID: **LCS-75267-75267** Units: **mg/Kg** Analysis Date: **8/26/2015 12:04 PM**
Client ID: Run ID: **ICP2_150826A** SeqNo: **3432408** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.284	0.25	5	0	106	80-120	0			
Barium	5.377	0.25	5	0	108	80-120	0			
Cadmium	4.82	0.50	5	0	96.4	80-120	0			
Chromium	5.518	0.25	5	0	110	80-120	0			
Copper	5.424	0.50	5	0	108	80-120	0			
Lead	5.281	0.25	5	0	106	80-120	0			
Nickel	5.293	0.25	5	0	106	80-120	0			
Selenium	5.225	0.50	5	0	105	80-120	0			
Silver	5.008	0.25	5	0	100	80-120	0			
Zinc	4.962	0.50	5	0	99.2	80-120	0			

MS Sample ID: **15081346-03AMS** Units: **mg/Kg** Analysis Date: **8/26/2015 12:15 PM**
Client ID: Run ID: **ICP2_150826A** SeqNo: **3432410** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.72	0.40	7.911	7.574	103	75-125	0			
Barium	431.3	0.40	7.911	444.4	-166	75-125	0			SO
Cadmium	7.228	0.79	7.911	-0.153	93.3	75-125	0			
Chromium	50.31	0.40	7.911	44.64	71.7	75-125	0			SO
Copper	22.22	0.79	7.911	14.46	98.1	75-125	0			
Lead	18.4	0.40	7.911	14.04	55.1	75-125	0			S
Nickel	41.27	0.40	7.911	33.32	101	75-125	0			O
Selenium	8.376	0.79	7.911	0.2382	103	75-125	0			
Silver	7.64	0.40	7.911	-0.0886	97.7	75-125	0			
Zinc	37.14	0.79	7.911	30	90.3	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75267** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **15081346-03AMSD** Units: **mg/Kg** Analysis Date: **8/26/2015 12:21 PM**
Client ID: Run ID: **ICP2_150826A** SeqNo: **3432411** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	17.02	0.39	7.899	7.574	120	75-125	15.72	7.92	20	
Barium	458.1	0.39	7.899	444.4	173	75-125	431.3	6.02	20	SO
Cadmium	7.561	0.79	7.899	-0.153	97.7	75-125	7.228	4.5	20	
Chromium	52.23	0.39	7.899	44.64	96.2	75-125	50.31	3.76	20	O
Copper	23.69	0.79	7.899	14.46	117	75-125	22.22	6.39	20	
Lead	20.11	0.39	7.899	14.04	76.8	75-125	18.4	8.89	20	
Nickel	44.12	0.39	7.899	33.32	137	75-125	41.27	6.67	20	SO
Selenium	8.43	0.79	7.899	0.2382	104	75-125	8.376	0.648	20	
Silver	7.951	0.39	7.899	-0.0886	102	75-125	7.64	3.99	20	
Zinc	38.25	0.79	7.899	30	105	75-125	37.14	2.95	20	

The following samples were analyzed in this batch:

15081352-01B	15081352-02B	15081352-03B
15081352-04B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75316** Instrument ID **ICP2** Method: **SW846 6010C**

DUP Sample ID: **15081355-01ADUP** Units: **mg/L** Analysis Date: **8/28/2015 03:37 PM**
Client ID: Run ID: **ICP2_150828A** SeqNo: **3436527** Prep Date: **8/28/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	669.4	5.0	0	0	0	0-0	693.7	3.57		
Magnesium	380.4	2.0	0	0	0	0-0	395.9	4		
Sodium	719.6	2.0	0	0	0	0-0	747.5	3.81		

DUP Sample ID: **15081355-01ADUP** Units: **none** Analysis Date: **8/28/2015**
Client ID: Run ID: **SAR_150828A** SeqNo: **3436706** Prep Date: **8/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	5.503	0.010	0	0	0		5.61	1.92	50	

The following samples were analyzed in this batch: 15081352-01B, 15081352-02B, 15081352-03B, 15081352-04B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75272** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-75272-75272** Units: **µg/Kg** Analysis Date: **8/26/2015 08:03 PM**
Client ID: Run ID: **SVMS5_150826A** SeqNo: **3433103** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	*999.3*	0	*1667*	0	*60*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1403*	0	*1667*	0	*84.2*	*25-137*	0			
Surr: Nitrobenzene-d5	*944.3*	0	*1667*	0	*56.7*	*37-107*	0			

LCS Sample ID: **SLCSS1-75272-75272** Units: **µg/Kg** Analysis Date: **8/26/2015 08:25 PM**
Client ID: Run ID: **SVMS5_150826A** SeqNo: **3433104** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	483.3	6.7	666.7	0	72.5	45-110	0			
Anthracene	607	6.7	666.7	0	91	55-105	0			
Benzo(a)anthracene	616	6.7	666.7	0	92.4	50-110	0			
Benzo(a)pyrene	608.7	6.7	666.7	0	91.3	50-110	0			
Benzo(b)fluoranthene	630.7	6.7	666.7	0	94.6	45-115	0			
Benzo(k)fluoranthene	621.3	6.7	666.7	0	93.2	45-115	0			
Chrysene	603.3	6.7	666.7	0	90.5	55-110	0			
Dibenzo(a,h)anthracene	564.3	6.7	666.7	0	84.6	40-125	0			
Fluoranthene	599.7	6.7	666.7	0	89.9	55-115	0			
Fluorene	525	6.7	666.7	0	78.7	50-110	0			
Indeno(1,2,3-cd)pyrene	544	6.7	666.7	0	81.6	40-120	0			
Naphthalene	422.3	6.7	666.7	0	63.3	40-105	0			
Pyrene	618	6.7	666.7	0	92.7	45-125	0			
Surr: 2-Fluorobiphenyl	*1033*	0	*1667*	0	*62*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1415*	0	*1667*	0	*84.9*	*25-137*	0			
Surr: Nitrobenzene-d5	*945.7*	0	*1667*	0	*56.7*	*37-107*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75272** Instrument ID **SVMS5** Method: **SW846 8270D**

MS Sample ID: **15081352-03B MS** Units: **µg/Kg** Analysis Date: **8/27/2015 12:50 PM**
Client ID: **SS 02** Run ID: **SVMS5_150826A** SeqNo: **3433110** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	497.1	6.6	658.5	0	75.5	45-110	0			
Anthracene	554.4	6.6	658.5	0	84.2	55-105	0			
Benzo(a)anthracene	563.6	6.6	658.5	0	85.6	50-110	0			
Benzo(a)pyrene	562.6	6.6	658.5	0	85.4	50-110	0			
Benzo(b)fluoranthene	584	6.6	658.5	0	88.7	45-115	0			
Benzo(k)fluoranthene	560.7	6.6	658.5	0	85.1	45-115	0			
Chrysene	549.1	6.6	658.5	0	83.4	55-110	0			
Dibenzo(a,h)anthracene	527.4	6.6	658.5	0	80.1	40-125	0			
Fluoranthene	556.4	6.6	658.5	0	84.5	55-115	0			
Fluorene	513.3	6.6	658.5	0	77.9	50-110	0			
Indeno(1,2,3-cd)pyrene	518.5	6.6	658.5	0	78.7	40-120	0			
Naphthalene	484	6.6	658.5	0	73.5	40-105	0			
Pyrene	561.3	6.6	658.5	0	85.2	45-125	0			
Surr: 2-Fluorobiphenyl	*1148*	0	*1646*	0	*69.7*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1280*	0	*1646*	0	*77.8*	*25-137*	0			
Surr: Nitrobenzene-d5	*1121*	0	*1646*	0	*68.1*	*37-107*	0			

MSD Sample ID: **15081352-03B MSD** Units: **µg/Kg** Analysis Date: **8/27/2015 01:12 AM**
Client ID: **SS 02** Run ID: **SVMS5_150826A** SeqNo: **3433105** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	443.1	6.5	647.8	0	68.4	45-110	497.1	11.5	30	
Anthracene	521.8	6.5	647.8	0	80.5	55-105	554.4	6.06	30	
Benzo(a)anthracene	518.9	6.5	647.8	0	80.1	50-110	563.6	8.26	30	
Benzo(a)pyrene	525.4	6.5	647.8	0	81.1	50-110	562.6	6.85	30	
Benzo(b)fluoranthene	536.4	6.5	647.8	0	82.8	45-115	584	8.5	30	
Benzo(k)fluoranthene	513.7	6.5	647.8	0	79.3	45-115	560.7	8.74	30	
Chrysene	509.8	6.5	647.8	0	78.7	55-110	549.1	7.42	30	
Dibenzo(a,h)anthracene	512.1	6.5	647.8	0	79	40-125	527.4	2.95	30	
Fluoranthene	510.8	6.5	647.8	0	78.8	55-115	556.4	8.54	30	
Fluorene	471.6	6.5	647.8	0	72.8	50-110	513.3	8.46	30	
Indeno(1,2,3-cd)pyrene	516.3	6.5	647.8	0	79.7	40-120	518.5	0.427	30	
Naphthalene	425.3	6.5	647.8	0	65.6	40-105	484	12.9	30	
Pyrene	498.5	6.5	647.8	0	76.9	45-125	561.3	11.9	30	
Surr: 2-Fluorobiphenyl	*1031*	0	*1620*	0	*63.7*	*12-100*	1148	*10.7*	*40*	
Surr: 4-Terphenyl-d14	*1150*	0	*1620*	0	*71*	*25-137*	1280	*10.7*	*40*	
Surr: Nitrobenzene-d5	*964.3*	0	*1620*	0	*59.5*	*37-107*	1121	*15*	*40*	

The following samples were analyzed in this batch:

15081352-01B	15081352-02B	15081352-03B
15081352-04B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75263** Instrument ID **VMS8** Method: **SW8260B**

MBLK Sample ID: **MBLK-75263-75263** Units: **µg/Kg** Analysis Date: **8/26/2015 01:52 PM**
Client ID: Run ID: **VMS8_150826A** SeqNo: **3432892** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*950*	0	*1000*	0	*95*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*997.5*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Dibromofluoromethane	*959.5*	0	*1000*	0	*96*	*70-130*	0			
Surr: Toluene-d8	*981*	0	*1000*	0	*98.1*	*70-130*	0			

LCS Sample ID: **LCS-75263-75263** Units: **µg/Kg** Analysis Date: **8/26/2015 12:15 PM**
Client ID: Run ID: **VMS8_150826A** SeqNo: **3432891** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	974	30	1000	0	97.4	75-125	0			
Ethylbenzene	991.5	30	1000	0	99.2	75-125	0			
m,p-Xylene	1999	60	2000	0	100	80-125	0			
o-Xylene	950	30	1000	0	95	75-125	0			
Toluene	991	30	1000	0	99.1	70-125	0			
Xylenes, Total	2949	90	3000	0	98.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	*968*	0	*1000*	0	*96.8*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1003*	0	*1000*	0	*100*	*70-130*	0			
Surr: Dibromofluoromethane	*967.5*	0	*1000*	0	*96.8*	*70-130*	0			
Surr: Toluene-d8	*976*	0	*1000*	0	*97.6*	*70-130*	0			

MS Sample ID: **15081353-03A MS** Units: **µg/Kg** Analysis Date: **8/26/2015 09:34 PM**
Client ID: Run ID: **VMS8_150826A** SeqNo: **3433503** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	910	30	1000	0	91	75-125	0			
Ethylbenzene	923	30	1000	0	92.3	75-125	0			
m,p-Xylene	1862	60	2000	0	93.1	80-125	0			
o-Xylene	884.5	30	1000	0	88.4	75-125	0			
Toluene	947	30	1000	0	94.7	70-125	0			
Xylenes, Total	2747	90	3000	0	91.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	*954*	0	*1000*	0	*95.4*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*980*	0	*1000*	0	*98*	*70-130*	0			
Surr: Dibromofluoromethane	*954.5*	0	*1000*	0	*95.4*	*70-130*	0			
Surr: Toluene-d8	*946.5*	0	*1000*	0	*94.6*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75263** Instrument ID **VMS8** Method: **SW8260B**

MSD	Sample ID: **15081353-03A MSD**				Units: **µg/Kg**			Analysis Date: **8/26/2015 09:58 PM**		
Client ID:		Run ID: **VMS8_150826A**			SeqNo: **3433504**		Prep Date: **8/26/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	995	30	1000	0	99.5	75-125	910	8.92	30	
Ethylbenzene	1032	30	1000	0	103	75-125	923	11.1	30	
m,p-Xylene	2069	60	2000	0	103	80-125	1862	10.5	30	
o-Xylene	1020	30	1000	0	102	75-125	884.5	14.3	30	
Toluene	1031	30	1000	0	103	70-125	947	8.49	30	
Xylenes, Total	3090	90	3000	0	103	75-125	2747	11.7	30	
Surr: 1,2-Dichloroethane-d4	*945*	0	*1000*	0	*94.5*	*70-130*	954	*0.948*	*30*	
Surr: 4-Bromofluorobenzene	*987.5*	0	*1000*	0	*98.8*	*70-130*	980	*0.762*	*30*	
Surr: Dibromofluoromethane	*942.5*	0	*1000*	0	*94.2*	*70-130*	954.5	*1.27*	*30*	
Surr: Toluene-d8	*965.5*	0	*1000*	0	*96.6*	*70-130*	946.5	*1.99*	*30*	

The following samples were analyzed in this batch: 15081352-01A, 15081352-02A, 15081352-03A, 15081352-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75286** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-75286-75286** Units: **s.u.** Analysis Date: **8/26/2015 03:00 PM**

Client ID: Run ID: **WETCHEM_150826J** SeqNo: **3432966** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.98	0	4	0	99.5	90-110	0			

DUP Sample ID: **15081216-01B DUP** Units: **s.u.** Analysis Date: **8/26/2015 03:00 PM**

Client ID: Run ID: **WETCHEM_150826J** SeqNo: **3432968** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.42	0	0	0	0	0-0	7.41	0.135	20	

The following samples were analyzed in this batch:

15081352-01B
15081352-02B
15081352-03B
15081352-04B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75316** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP Sample ID: **15081355-01A DUP** Units: **mmhos/cm @25°** Analysis Date: **8/28/2015 04:50 PM**
Client ID: Run ID: **WETCHEM_150828M** SeqNo: **3436754** Prep Date: **8/28/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	8.88	0.050	0	0	0		9.26	4.19	50	

The following samples were analyzed in this batch:

15081352-01B
15081352-02B
15081352-03B
15081352-04B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75351** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-75351-75351** Units: **mg/Kg** Analysis Date: **8/27/2015 03:00 PM**
Client ID: Run ID: **WETCHEM_150827L** SeqNo: **3434512** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	0.32	1.0								J

LCS Sample ID: **LCS-75351-75351** Units: **mg/Kg** Analysis Date: **8/27/2015 03:00 PM**
Client ID: Run ID: **WETCHEM_150827L** SeqNo: **3434511** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	5.33	1.0	5	0	107	80-120	0			

MS Sample ID: **15081352-02B MS** Units: **mg/Kg** Analysis Date: **8/27/2015 03:00 PM**
Client ID: **SS 01** Run ID: **WETCHEM_150827L** SeqNo: **3434504** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.5	0.96	4.808	0.5421	82.3	75-125	0			

MS Sample ID: **15081352-02B MSI** Units: **mg/Kg** Analysis Date: **8/27/2015 03:00 PM**
Client ID: **SS 01** Run ID: **WETCHEM_150827L** SeqNo: **3434506** Prep Date: **8/26/2015** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2632	93	2752	0.5421	95.6	75-125	0			

MSD Sample ID: **15081352-02B MSD** Units: **mg/Kg** Analysis Date: **8/27/2015 03:00 PM**
Client ID: **SS 01** Run ID: **WETCHEM_150827L** SeqNo: **3434505** Prep Date: **8/26/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.019	0.93	4.673	0.5421	74.4	75-125	4.5	11.3	20	S

The following samples were analyzed in this batch:

15081352-01B	15081352-02B	15081352-03B
15081352-04B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081352
Project: Pipeline Release SESW SEC 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **R170415** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R170415** Units: **% of sample** Analysis Date: **8/26/2015 11:30 AM**
Client ID: Run ID: **MOIST_150826A** SeqNo: **3433365** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS Sample ID: **LCS-R170415** Units: **% of sample** Analysis Date: **8/26/2015 11:30 AM**
Client ID: Run ID: **MOIST_150826A** SeqNo: **3433364** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **15081352-01B DUP** Units: **% of sample** Analysis Date: **8/26/2015 11:30 AM**
Client ID: **Seep 01** Run ID: **MOIST_150826A** SeqNo: **3433360** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.49	0.050	0	0	0		17.19	1.73	20	

The following samples were analyzed in this batch:

15081352-01B	15081352-02B	15081352-03B
15081352-04B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.

COC number (for client tracking): 15091352

Page 1 of 1

CLIENT CONTACT AND REPORTING INFORMATION	INVOICE ADDRESS (If other than reporting address)
Company Name: LT Environmental, Inc	Company Name:
Project Manager: Rob Fishburn	Contact Name:
Address: 820 Megan Ave Unit B	Address:
Vail, CO 81650	
Phone: 970.285.9985	**PROJECT INFORMATION**
Email 1: rfishburn@ltev.com , dheld@ltenv.com	Project ID:
Email 2:	Site: SCOTT 24B-25 PIPELINE RELEASE
SERVICE REQUEST (Express services subject to availability)	PO No:
☐ Regular (default) [redacted]	ALS Quote No:
☒ Express (Pls specify date required ASAP) (express fee will apply)	

ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)

ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	MATRIX (a)	SAMPLING AND CONTAINER INFO: Date	Time	Tot Bottle	REMARKS	BTEX	TPH GRO/DRO	PAH 8270 SIM	EC	PH	SAR	Table 910-1 Metals: As, Ba, Cd, CR III, Cr VI, Cu, Pb, Hg, Ni, Se, Ag, Zn	Chlorides	Sulfates	TDS
1	SEEP Ø1	SS	8/25/15	1018	2		X	X	X	X	X	X	X			
2	SS Ø1	SS	"	0910	2		X	X	X	X	X	X	X			
3	SS Ø2	SS	"	0958	2		X	X	X	X	X	X	X			
4	SS Ø3	SS	"	1037	2		X	X	X	X	X	X	X			

CLIENT SIGNATURES

Client's Signature:

Client's Date and Time of Completion: 8/25/15 1500

For lab use only

Cooler Security Seal	Sample Temp	No of Cooler Received	Received by (lab)	Date and Time
☐ sealed	☐ chilled deg °C	carton / cooler box		8/26/15 0900
☐ broken	☐ ambient	Courier Name	Committed by	Date and Time
☐ not available				

Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)

ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com

2.8°C

ORIGIN ID:RLA (616) 298-1033
NICK MARTINEZ
ALS ENVIRONMENTAL PARACHUTE
PARACHUTE SERVICE CENTER
127 EAST 1ST. ST
PARACHUTE, CO 81635
UNITED STATES US

SHIP DATE: 25AUG15
ACTWGT: 70.00 LB
CAD: 2264840/INET3670
DIMS: 26x16x16 IN

BILL SENDER

TO SAMPLE RECEIVING
ALS ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE
HOLLAND MI 49424
(616) 399-6070 REF: 092515-1
INV:
PO: PARACHUTE DEPT:

539J1/FECA/31D0

FedEx Express

REL# 3765346

WED - 26 AUG 10:30A
PRIORITY OVERNIGHT

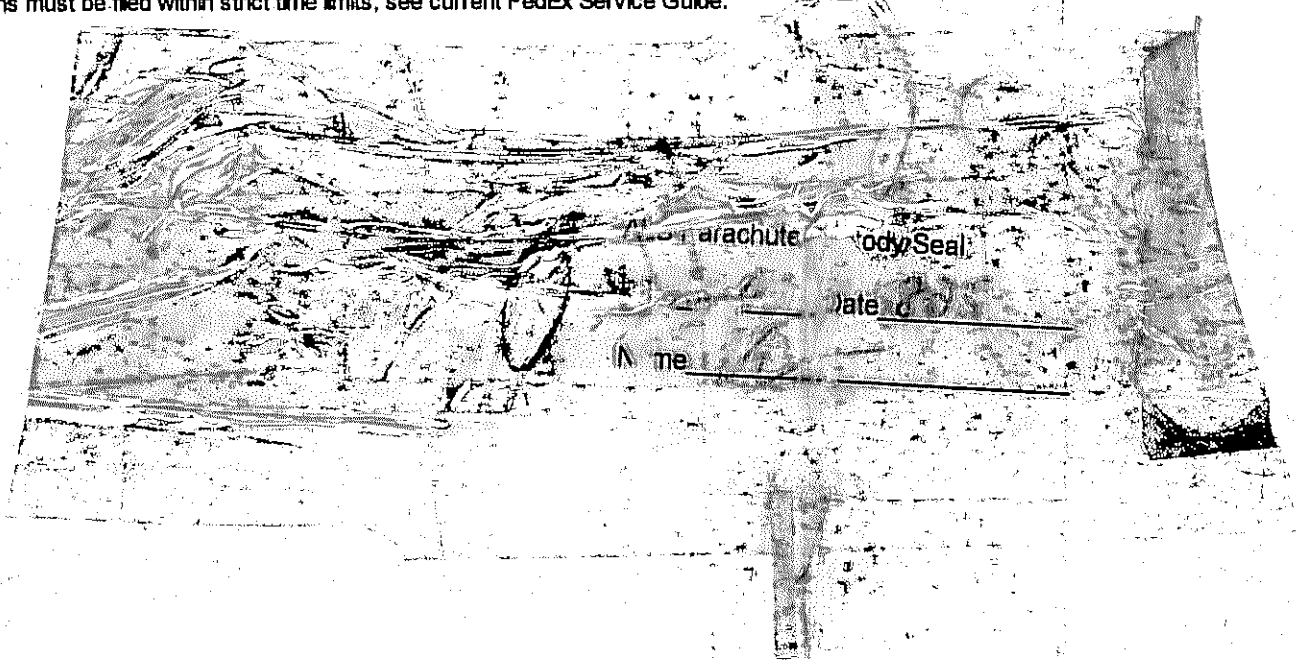
TRK# 0201 7743 6499 0389

XX HLMA

49424
GRR
MI-US

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **LTENV** Date/Time Received: **26-Aug-15 09:00**

Work Order: **15081352** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 26-Aug-15 (Date) Reviewed by: Lee Arnold (eSignature) 26-Aug-15 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.8/2.8 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/26/2015 9:34:34 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Group USA, Corp

Date: 26-Aug-15

Client: LT Environmental, Inc
Project: Scott 24B-25 Pipeline Release
Work Order: **15081259**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
15081259-01	Oxbow01	Water		8/24/2015 12:00	8/25/2015 10:00	☐
15081259-02	Divide Creek 01	Water		8/24/2015 12:15	8/25/2015 10:00	☐
15081259-03	Divide Creek 02	Water		8/24/2015 12:45	8/25/2015 10:00	☐

ALS Group USA, Corp

Date: 26-Aug-15

Client: LT Environmental, Inc
Project: Scott 24B-25 Pipeline Release
WorkOrder: **15081259**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter

ALS Group USA, Corp

Date: 26-Aug-15

Client: LT Environmental, Inc
Project: Scott 24B-25 Pipeline Release
Work Order: 15081259

Case Narrative

Samples for the above noted Work Order were received on 08/25/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Sample Receiving:
No deviations or anomalies were noted.

Volatile Organics:
No deviations or anomalies were noted.

Extractable Organics:
No deviations or anomalies were noted.

Metals:
No deviations or anomalies were noted.

Wet Chemistry:
No deviations or anomalies were noted.

ALS Group USA, Corp

Date: *26-Aug-15*

Client: LT Environmental, Inc
Project: Scott 24B-25 Pipeline Release
Work Order: 15081259
Sample ID: Oxbow01
Lab ID: 15081259-01
Collection Date: 8/24/2015 12:00 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
Benzene	ND		1.0	ug/L	1	8/25/2015 12:52 PM
Ethylbenzene	ND		1.0	ug/L	1	8/25/2015 12:52 PM
m,p-Xylene	ND		2.0	ug/L	1	8/25/2015 12:52 PM
o-Xylene	ND		1.0	ug/L	1	8/25/2015 12:52 PM
Toluene	ND		1.0	ug/L	1	8/25/2015 12:52 PM
Xylenes, Total	ND		3.0	ug/L	1	8/25/2015 12:52 PM
Surr: 1,2-Dichloroethane-d4	*100*		*75-120*	*%REC*	1	8/25/2015 12:52 PM
Surr: 4-Bromofluorobenzene	*97.0*		*80-110*	*%REC*	1	8/25/2015 12:52 PM
Surr: Dibromofluoromethane	*98.3*		*85-115*	*%REC*	1	8/25/2015 12:52 PM
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	8/25/2015 12:52 PM
ANIONS BY ION CHROMATOGRAPHY			**SW9056A**			Analyst: **EE**
Chloride	**14,000**		**5,000**	**µg/L**	5	8/25/2015 11:33 AM
Sulfate	**55,000**		**5,000**	**µg/L**	5	8/25/2015 11:33 AM
TOTAL DISSOLVED SOLIDS			**A2540 C-97**		Prep: Water Ext. / 8/25/15	Analyst: **STP**
Total Dissolved Solids	**960,000**		**10,000**	**µg/L**	1	8/26/2015 01:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *26-Aug-15*

Client: LT Environmental, Inc
Project: Scott 24B-25 Pipeline Release
Work Order: 15081259
Sample ID: Divide Creek 01
Lab ID: 15081259-02
Collection Date: 8/24/2015 12:15 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
Benzene	ND		1.0	ug/L	1	8/25/2015 01:17 PM
Ethylbenzene	ND		1.0	ug/L	1	8/25/2015 01:17 PM
m,p-Xylene	ND		2.0	ug/L	1	8/25/2015 01:17 PM
o-Xylene	ND		1.0	ug/L	1	8/25/2015 01:17 PM
Toluene	ND		1.0	ug/L	1	8/25/2015 01:17 PM
Xylenes, Total	ND		3.0	ug/L	1	8/25/2015 01:17 PM
Surr: 1,2-Dichloroethane-d4	*100*		*75-120*	*%REC*	1	8/25/2015 01:17 PM
Surr: 4-Bromofluorobenzene	*98.4*		*80-110*	*%REC*	1	8/25/2015 01:17 PM
Surr: Dibromofluoromethane	*99.7*		*85-115*	*%REC*	1	8/25/2015 01:17 PM
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	8/25/2015 01:17 PM
ANIONS BY ION CHROMATOGRAPHY			**SW9056A**			Analyst: **EE**
Chloride	**72,000**		**10,000**	**µg/L**	10	8/25/2015 11:53 AM
Sulfate	**110,000**		**10,000**	**µg/L**	10	8/25/2015 11:53 AM
TOTAL DISSOLVED SOLIDS			**A2540 C-97**		Prep: Water Ext. / 8/25/15	Analyst: **STP**
Total Dissolved Solids	**470,000**		**10,000**	**µg/L**	1	8/26/2015 01:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *26-Aug-15*

Client: LT Environmental, Inc
Project: Scott 24B-25 Pipeline Release
Work Order: 15081259
Sample ID: Divide Creek 02
Lab ID: 15081259-03
Collection Date: 8/24/2015 12:45 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **BG**
Benzene	ND		1.0	ug/L	1	8/25/2015 01:42 PM
Ethylbenzene	ND		1.0	ug/L	1	8/25/2015 01:42 PM
m,p-Xylene	ND		2.0	ug/L	1	8/25/2015 01:42 PM
o-Xylene	ND		1.0	ug/L	1	8/25/2015 01:42 PM
Toluene	ND		1.0	ug/L	1	8/25/2015 01:42 PM
Xylenes, Total	ND		3.0	ug/L	1	8/25/2015 01:42 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	8/25/2015 01:42 PM
Surr: 4-Bromofluorobenzene	*98.8*		*80-110*	*%REC*	1	8/25/2015 01:42 PM
Surr: Dibromofluoromethane	*102*		*85-115*	*%REC*	1	8/25/2015 01:42 PM
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	8/25/2015 01:42 PM
ANIONS BY ION CHROMATOGRAPHY			**SW9056A**			Analyst: **EE**
Chloride	**14,000**		**5,000**	**µg/L**	5	8/25/2015 12:13 PM
Sulfate	**55,000**		**5,000**	**µg/L**	5	8/25/2015 12:13 PM
TOTAL DISSOLVED SOLIDS			**A2540 C-97**		Prep: Water Ext. / 8/25/15	Analyst: **STP**
Total Dissolved Solids	**450,000**		**10,000**	**µg/L**	1	8/26/2015 01:45 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **R170251** Instrument ID **VMS5** Method: **SW8260**

MBLK	Sample ID: **VBLKW1-150825-R170251**			Units: **µg/L**			Analysis Date: **8/25/2015 12:01 PM**			
Client ID:	Run ID: **VMS5_150825A**			SeqNo: **3430751**		Prep Date:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	*20.06*	0	*20*	0	*100*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*19.77*	0	*20*	0	*98.8*	*80-110*	0			
Surr: Dibromofluoromethane	*19.95*	0	*20*	0	*99.8*	*85-115*	0			
Surr: Toluene-d8	*20.01*	0	*20*	0	*100*	*85-110*	0			

LCS	Sample ID: **VLCSW1-150825-R170251**			Units: **µg/L**			Analysis Date: **8/25/2015 10:45 AM**			
Client ID:	Run ID: **VMS5_150825A**			SeqNo: **3430749**		Prep Date:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.61	1.0	20	0	108	85-125	0			
Ethylbenzene	21.29	1.0	20	0	106	85-125	0			
m,p-Xylene	43.03	2.0	40	0	108	75-130	0			
o-Xylene	20.78	1.0	20	0	104	80-125	0			
Toluene	21.88	1.0	20	0	109	85-125	0			
Xylenes, Total	63.81	3.0	60	0	106	80-126	0			
Surr: 1,2-Dichloroethane-d4	*19.86*	0	*20*	0	*99.3*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.3*	0	*20*	0	*102*	*80-110*	0			
Surr: Dibromofluoromethane	*19.74*	0	*20*	0	*98.7*	*85-115*	0			
Surr: Toluene-d8	*20.33*	0	*20*	0	*102*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081259
Project: Scott 24B-25 Pipeline Release

QC BATCH REPORT

Batch ID: **R170251** Instrument ID **VMS5** Method: **SW8260**

MS Sample ID: **15081177-29A MS** Units: **µg/L** Analysis Date: **8/25/2015 08:53 PM**
Client ID: Run ID: **VMS5_150825A** SeqNo: **3431640** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.84	1.0	20	0	109	85-125	0			
Ethylbenzene	21.32	1.0	20	0	107	85-125	0			
m,p-Xylene	42.66	2.0	40	0	107	75-130	0			
o-Xylene	20.5	1.0	20	0	102	80-125	0			
Toluene	21.44	1.0	20	0	107	85-125	0			
Xylenes, Total	63.16	3.0	60	0	105	80-126	0			
Surr: 1,2-Dichloroethane-d4	*20.4*	0	*20*	0	*102*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.05*	0	*20*	0	*100*	*80-110*	0			
Surr: Dibromofluoromethane	*20.3*	0	*20*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*20.03*	0	*20*	0	*100*	*85-110*	0			

MSD Sample ID: **15081177-29A MSD** Units: **µg/L** Analysis Date: **8/25/2015 09:18 PM**
Client ID: Run ID: **VMS5_150825A** SeqNo: **3431641** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.12	1.0	20	0	90.6	85-125	21.84	18.6	30	
Ethylbenzene	17.66	1.0	20	0	88.3	85-125	21.32	18.8	30	
m,p-Xylene	35.26	2.0	40	0	88.2	75-130	42.66	19	30	
o-Xylene	16.81	1.0	20	0	84	80-125	20.5	19.8	30	
Toluene	17.62	1.0	20	0	88.1	85-125	21.44	19.6	30	
Xylenes, Total	52.07	3.0	60	0	86.8	80-126	63.16	19.2	30	
Surr: 1,2-Dichloroethane-d4	*20.06*	0	*20*	0	*100*	*75-120*	20.4	*1.68*	*30*	
Surr: 4-Bromofluorobenzene	*20.23*	0	*20*	0	*101*	*80-110*	20.05	*0.894*	*30*	
Surr: Dibromofluoromethane	*19.89*	0	*20*	0	*99.4*	*85-115*	20.3	*2.04*	*30*	
Surr: Toluene-d8	*19.76*	0	*20*	0	*98.8*	*85-110*	20.03	*1.36*	*30*	

The following samples were analyzed in this batch:

15081259-01A	15081259-02A	15081259-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081259
Project: Scott 24B-25 Pipeline Release

QC BATCH REPORT

Batch ID: **75234** Instrument ID **TDS** Method: **A2540 C-97**

MBLK Sample ID: **MBLK-75234-75234** Units: **mg/L** Analysis Date: **8/26/2015 01:45 PM**
Client ID: Run ID: **TDS_150826A** SeqNo: **3432515** Prep Date: **8/25/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	ND	10								

LCS Sample ID: **LCS-75234-75234** Units: **mg/L** Analysis Date: **8/26/2015 01:45 PM**
Client ID: Run ID: **TDS_150826A** SeqNo: **3432514** Prep Date: **8/25/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	493	10	495	0	99.6	80-120	0			

DUP Sample ID: **15081259-01B DUP** Units: **mg/L** Analysis Date: **8/26/2015 01:45 PM**
Client ID: **Oxbow01** Run ID: **TDS_150826A** SeqNo: **3432508** Prep Date: **8/25/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	956	10	0	0	0	0-0	959	0.313	10	

The following samples were analyzed in this batch:

15081259-01B	15081259-02B	15081259-03B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 15081259
Project: Scott 24B-25 Pipeline Release

QC BATCH REPORT

Batch ID: **R170309** Instrument ID **IC4** Method: **SW9056A**

MBLK Sample ID: **CCB/MBLK-R170309** Units: **mg/L** Analysis Date: **8/25/2015 07:45 AM**
Client ID: Run ID: **IC4_150825A** SeqNo: **3431302** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	1.0								
Sulfate	ND	1.0								

LCS Sample ID: **LCS-R170309** Units: **mg/L** Analysis Date: **8/25/2015 08:06 AM**
Client ID: Run ID: **IC4_150825A** SeqNo: **3431303** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.594	1.0	10	0	95.9	88-110	0			
Sulfate	9.977	1.0	10	0	99.8	85-110	0			

MS Sample ID: **1508964-08C MS** Units: **mg/L** Analysis Date: **8/25/2015 10:52 AM**
Client ID: Run ID: **IC4_150825A** SeqNo: **3431307** Prep Date: DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	29.49	2.0	20	8.933	103	75-125	0			
Sulfate	23.96	2.0	20	3.54	102	75-125	0			

MSD Sample ID: **1508964-08C MSD** Units: **mg/L** Analysis Date: **8/25/2015 11:13 AM**
Client ID: Run ID: **IC4_150825A** SeqNo: **3431308** Prep Date: DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	29.71	2.0	20	8.933	104	75-125	29.49	0.751	20	
Sulfate	24.24	2.0	20	3.54	103	75-125	23.96	1.16	20	

The following samples were analyzed in this batch:

15081259-01C	15081259-02C	15081259-03C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.

COC number (for client tracking): 15081259

Page 1 of 1

CLIENT CONTACT AND REPORTING INFORMATION	INVOICE ADDRESS (if other than reporting address)
Company Name: LT Environmental, Inc	Company Name:
Project Manager: Rob Fishburn	Contact Name:
Address: 820 Megan Ave Unit B	Address:
Erie, CO 81650	
Phone: 970.285.9985	**PROJECT INFORMATION**
Email 1: rfishburn@ltev.com , dheld@ltenv.com	Project ID: Scott 24B-25 Pipeline Release
Email 2:	Site:
SERVICE REQUEST (Express services subject to availability)	PO No: 0594115012
☐ Regular (default) 5 day TAT per Bruce Shlatter	ALS Quote No:
☒ Express (Pls specify date required Same DAY TAT) (express fee will apply)	

ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	MATRIX (a)	SAMPLING AND CONTAINER INFO			REMARKS	ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)													CROSS THE REQUESTED ANALYSIS
			Date	Time	Tot Bottle		BTEX	TPH GRO/DRO	PAH 8270 SIM	EC	PH	SAR	Table 910-1 Metals: As, Ba, Cd, CR III, Cr VI, Cu, Pb, Hg, Ni, Se, Ag, Zn	Chlorides	Sulfides	TDS					
	Oxbow 01	SW	8/24/15	1200	6		X							X	X	X				
	Mamm Creek 01 (Divide Creek 01)*	SW	8/24/15	1215	6		X							X	X	X				
	Mamm Creek 02 (Divide Creek 02)*	SW	8/24/15	1245	10		X							X	X	X				
	* - change noted per Dustin, 8/26/15 email to Les Arnold																			

CLIENT SIGNATURES	For lab use only				
Client's Signature:	Cooler Security Seal: ☐ sealed ☐ broken ☐ not available	Sample Temp: ☑ chilled 3.4 deg C ☐ ambient	No of Cooler Received: carton / cooler box	Received by (lab):	Date and Time: 8/25/15 1000
Client's Date and Time of Completion: 8/24/15 1415			Courier Name: ALS 1508	Committed by	Date and Time

Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)

ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com

FedEx Ship Manager - Print Your Label(s)

8/24/2015

ORIGIN ID:RILA (616) 298-1033
NICK MARTINEZ
ALS ENVIRONMENTAL PARACHUTE
PARACHUTE SERVICE CENTER
127 EAST 1ST. ST
PARACHUTE, CO 81635
UNITED STATES US

SHIP DATE: 24AUG15
ACTWGT: 42.00 LB
CAD: 2264840/INET3670
DIMS: 16x16x14 IN

BILL SENDER

TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE

HOLLAND MI 49424
(616) 399-6070 REF: 082415-1
INV:
PO: PARACHUTE DEPT:

539J1/FECA91D0

FedEx Express

REL#
3785346

1 of 2

TRK# 0201 **7743 5423 4974**

MASTER

TUE - 25 AUG 10:30A
PRIORITY OVERNIGHT

XX HLMA

49424
GRR
MI-US

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **LTENV** Date/Time Received: **25-Aug-15 10:00**

Work Order: **15081259** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 25-Aug-15 (Date) Reviewed by: Lee Arnold (eSignature) 25-Aug-15 (Date)

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4/3.4 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/25/2015 10:09:34 AM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Group USA, Corp

Date: 10-Sep-15

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC25 6S 92W-Scott
Work Order: **1509414**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1509414-01	Seep 01 Surface Water	Water		9/8/2015 13:00	9/9/2015 09:30	☐
1509414-02	Trip Blank	Water		9/8/2015	9/9/2015 09:30	☐

ALS Group USA, Corp

Date: 10-Sep-15

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC25 6S 92W-Scott
Work Order: 1509414

Case Narrative

Samples for the above noted Work Order were received on 09/09/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Sample Receiving:
No deviations or anomalies were noted.

Volatile Organics:
No deviations or anomalies were noted.

Extractable Organics:
No deviations or anomalies were noted.

Metals:
No deviations or anomalies were noted.

Wet Chemistry:
No deviations or anomalies were noted.

ALS Group USA, Corp

Date: *10-Sep-15*

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC25 6S 92W-Scott
Work Order: 1509414
Sample ID: Seep 01 Surface Water
Lab ID: 1509414-01
Collection Date: 9/8/2015 01:00 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LSY**
Benzene	ND		0.0010	mg/L	1	9/10/2015 09:47 AM
Ethylbenzene	ND		0.0010	mg/L	1	9/10/2015 09:47 AM
m,p-Xylene	ND		0.0020	mg/L	1	9/10/2015 09:47 AM
o-Xylene	ND		0.0010	mg/L	1	9/10/2015 09:47 AM
Toluene	ND		0.0010	mg/L	1	9/10/2015 09:47 AM
Xylenes, Total	ND		0.0030	mg/L	1	9/10/2015 09:47 AM
Surr: 1,2-Dichloroethane-d4	*105*		*75-120*	*%REC*	1	9/10/2015 09:47 AM
Surr: 4-Bromofluorobenzene	*85.8*		*80-110*	*%REC*	1	9/10/2015 09:47 AM
Surr: Dibromofluoromethane	*102*		*85-115*	*%REC*	1	9/10/2015 09:47 AM
Surr: Toluene-d8	*90.8*		*85-110*	*%REC*	1	9/10/2015 09:47 AM
ANIONS BY ION CHROMATOGRAPHY			**SW9056A**			Analyst: **EE**
Chloride	**38**		**20**	**mg/L**	20	9/10/2015 09:32 AM
Sulfate	**190**		**20**	**mg/L**	20	9/10/2015 09:32 AM
TOTAL DISSOLVED SOLIDS			**A2540 C-97**		Prep: Water Ext. / 9/10/15	Analyst: **YM**
Total Dissolved Solids	**1,400**		**20**	**mg/L**	1	9/10/2015 04:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *10-Sep-15*

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC25 6S 92W-Scott
Work Order: 1509414
Sample ID: Trip Blank
Lab ID: 1509414-02
Collection Date: 9/8/2015
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260**			Analyst: **LSY**
Benzene	ND		0.0010	mg/L	1	9/9/2015 02:36 PM
Ethylbenzene	ND		0.0010	mg/L	1	9/9/2015 02:36 PM
m,p-Xylene	ND		0.0020	mg/L	1	9/9/2015 02:36 PM
o-Xylene	ND		0.0010	mg/L	1	9/9/2015 02:36 PM
Toluene	ND		0.0010	mg/L	1	9/9/2015 02:36 PM
Xylenes, Total	ND		0.0030	mg/L	1	9/9/2015 02:36 PM
Surr: 1,2-Dichloroethane-d4	*95.1*		*75-120*	*%REC*	1	9/9/2015 02:36 PM
Surr: 4-Bromofluorobenzene	*92.0*		*80-110*	*%REC*	1	9/9/2015 02:36 PM
Surr: Dibromofluoromethane	*94.7*		*85-115*	*%REC*	1	9/9/2015 02:36 PM
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	9/9/2015 02:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 10-Sep-15

Client: LT Environmental, Inc
Project: Pipeline Release SESW SEC25 6S 92W-Scott
WorkOrder: **1509414**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
mg/L	Milligrams per Liter

Batch ID: **R171255** Instrument ID **VMS9** Method: **SW8260**

MBLK Sample ID: **VBLKW1-150909-R171255** Units: **µg/L** Analysis Date: **9/9/2015 02:11 PM**

Client ID: Run ID: **VMS9_150909A** SeqNo: **3451420** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	*19.18*	0	*20*	0	*95.9*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*18.59*	0	*20*	0	*93*	*80-110*	0			
Surr: Dibromofluoromethane	*18.85*	0	*20*	0	*94.2*	*85-115*	0			
Surr: Toluene-d8	*20.27*	0	*20*	0	*101*	*85-110*	0			

LCS Sample ID: **VLCSW1-150909-R171255** Units: **µg/L** Analysis Date: **9/9/2015 12:54 PM**

Client ID: Run ID: **VMS9_150909A** SeqNo: **3451418** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.93	1.0	20	0	99.6	85-125	0			
Ethylbenzene	19.34	1.0	20	0	96.7	85-125	0			
m,p-Xylene	39.54	2.0	40	0	98.8	75-130	0			
o-Xylene	19.03	1.0	20	0	95.2	80-125	0			
Toluene	19.94	1.0	20	0	99.7	85-125	0			
Xylenes, Total	58.57	3.0	60	0	97.6	80-126	0			
Surr: 1,2-Dichloroethane-d4	*18.2*	0	*20*	0	*91*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.72*	0	*20*	0	*104*	*80-110*	0			
Surr: Dibromofluoromethane	*18.28*	0	*20*	0	*91.4*	*85-115*	0			
Surr: Toluene-d8	*20.4*	0	*20*	0	*102*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 1509414
Project: Pipeline Release SESW SEC25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **R171255** Instrument ID **VMS9** Method: **SW8260**

MS Sample ID: **1509265-03A MS** Units: **µg/L** Analysis Date: **9/9/2015 11:11 PM**
Client ID: Run ID: **VMS9_150909A** SeqNo: **3451448** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	938.5	50	1000	17.05	92.1	85-125	0			
Ethylbenzene	1409	50	1000	551.2	85.8	85-125	0			
m,p-Xylene	4074	100	2000	2400	83.7	75-130	0			
o-Xylene	2064	50	1000	1262	80.2	80-125	0			
Toluene	4862	50	1000	4293	57	85-125	0			SO
Xylenes, Total	6137	150	3000	3661	82.5	80-126	0			
Surr: 1,2-Dichloroethane-d4	*957*	0	*1000*	0	*95.7*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*1038*	0	*1000*	0	*104*	*80-110*	0			
Surr: Dibromofluoromethane	*973.5*	0	*1000*	0	*97.4*	*85-115*	0			
Surr: Toluene-d8	*978.5*	0	*1000*	0	*97.8*	*85-110*	0			

MSD Sample ID: **1509265-03A MSD** Units: **µg/L** Analysis Date: **9/9/2015 11:36 PM**
Client ID: Run ID: **VMS9_150909A** SeqNo: **3451450** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	953.5	50	1000	17.05	93.6	85-125	938.5	1.59	30	
Ethylbenzene	1432	50	1000	551.2	88	85-125	1409	1.58	30	
m,p-Xylene	4148	100	2000	2400	87.4	75-130	4074	1.8	30	
o-Xylene	2082	50	1000	1262	82	80-125	2064	0.869	30	
Toluene	4926	50	1000	4293	63.4	85-125	4862	1.31	30	SO
Xylenes, Total	6229	150	3000	3661	85.6	80-126	6137	1.49	30	
Surr: 1,2-Dichloroethane-d4	*975*	0	*1000*	0	*97.5*	*75-120*	957	*1.86*	*30*	
Surr: 4-Bromofluorobenzene	*1038*	0	*1000*	0	*104*	*80-110*	1038	*0.0963*	*30*	
Surr: Dibromofluoromethane	*967.5*	0	*1000*	0	*96.8*	*85-115*	973.5	*0.618*	*30*	
Surr: Toluene-d8	*981.5*	0	*1000*	0	*98.2*	*85-110*	978.5	*0.306*	*30*	

The following samples were analyzed in this batch: 1509414-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 1509414
Project: Pipeline Release SESW SEC25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **R171312** Instrument ID **VMS9** Method: **SW8260**

MBLK Sample ID: **VBLKW2-150909-R171312** Units: **µg/L** Analysis Date: **9/10/2015 02:59 AM**
Client ID: Run ID: **VMS9_150909B** SeqNo: **3451900** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
o-Xylene	ND	1.0								
Toluene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	*19*	0	*20*	0	*95*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*17.69*	0	*20*	0	*88.4*	*80-110*	0			
Surr: Dibromofluoromethane	*19.33*	0	*20*	0	*96.6*	*85-115*	0			
Surr: Toluene-d8	*18.51*	0	*20*	0	*92.6*	*85-110*	0			

LCS Sample ID: **VLCSW2-150909-R171312** Units: **µg/L** Analysis Date: **9/10/2015 01:43 AM**
Client ID: Run ID: **VMS9_150909B** SeqNo: **3451899** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.68	1.0	20	0	98.4	85-125	0			
Ethylbenzene	20.06	1.0	20	0	100	85-125	0			
m,p-Xylene	41.44	2.0	40	0	104	75-130	0			
o-Xylene	20.44	1.0	20	0	102	80-125	0			
Toluene	20.44	1.0	20	0	102	85-125	0			
Xylenes, Total	61.88	3.0	60	0	103	80-126	0			
Surr: 1,2-Dichloroethane-d4	*18.51*	0	*20*	0	*92.6*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.83*	0	*20*	0	*104*	*80-110*	0			
Surr: Dibromofluoromethane	*18.54*	0	*20*	0	*92.7*	*85-115*	0			
Surr: Toluene-d8	*19.49*	0	*20*	0	*97.4*	*85-110*	0			

MS Sample ID: **1509265-17A MS** Units: **µg/L** Analysis Date: **9/10/2015 11:54 AM**
Client ID: Run ID: **VMS9_150909B** SeqNo: **3452278** Prep Date: DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	9680	500	10000	0	96.8	85-125	0			
Ethylbenzene	8510	500	10000	0	85.1	85-125	0			
m,p-Xylene	17860	1,000	20000	0	89.3	75-130	0			
o-Xylene	8620	500	10000	0	86.2	80-125	0			
Toluene	8910	500	10000	0	89.1	85-125	0			
Xylenes, Total	26480	1,500	30000	0	88.3	80-126	0			
Surr: 1,2-Dichloroethane-d4	*10450*	0	*10000*	0	*104*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*10460*	0	*10000*	0	*105*	*80-110*	0			
Surr: Dibromofluoromethane	*10700*	0	*10000*	0	*107*	*85-115*	0			
Surr: Toluene-d8	*9760*	0	*10000*	0	*97.6*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 1509414
Project: Pipeline Release SESW SEC25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **R171312** Instrument ID **VMS9** Method: **SW8260**

MSD Sample ID: **1509265-17A MSD** Units: **µg/L** Analysis Date: **9/10/2015 12:20 PM**

Client ID: Run ID: **VMS9_150909B** SeqNo: **3452279** Prep Date: DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	8780	500	10000	0	87.8	85-125	9680	9.75	30	
Ethylbenzene	8680	500	10000	0	86.8	85-125	8510	1.98	30	
m,p-Xylene	18340	1,000	20000	0	91.7	75-130	17860	2.6	30	
o-Xylene	8745	500	10000	0	87.4	80-125	8620	1.44	30	
Toluene	9045	500	10000	0	90.4	85-125	8910	1.5	30	
Xylenes, Total	27080	1,500	30000	0	90.3	80-126	26480	2.22	30	
Surr: 1,2-Dichloroethane-d4	*9925*	0	*10000*	0	*99.2*	*75-120*	10450	*5.15*	*30*	
Surr: 4-Bromofluorobenzene	*10380*	0	*10000*	0	*104*	*80-110*	10460	*0.816*	*30*	
Surr: Dibromofluoromethane	*11520*	0	*10000*	0	*115*	*85-115*	10700	*7.38*	*30*	*S*
Surr: Toluene-d8	*9610*	0	*10000*	0	*96.1*	*85-110*	9760	*1.55*	*30*	

The following samples were analyzed in this batch: 1509414-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 1509414
Project: Pipeline Release SESW SEC25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75844** Instrument ID **TDS** Method: **A2540 C-97**

MBLK Sample ID: **MBLK-75844-75844** Units: **mg/L** Analysis Date: **9/10/2015 04:00 PM**
Client ID: Run ID: **TDS_150910A** SeqNo: **3452891** Prep Date: **9/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	ND	10								

LCS Sample ID: **LCS-75844-75844** Units: **mg/L** Analysis Date: **9/10/2015 04:00 PM**
Client ID: Run ID: **TDS_150910A** SeqNo: **3452890** Prep Date: **9/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	490	10	495	0	99	80-120	0			

DUP Sample ID: **1509364-05A DUP** Units: **mg/L** Analysis Date: **9/10/2015 04:00 PM**
Client ID: Run ID: **TDS_150910A** SeqNo: **3452871** Prep Date: **9/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1410	50	0	0	0	0-0	1425	1.06	10	

DUP Sample ID: **1509414-01B DUP** Units: **mg/L** Analysis Date: **9/10/2015 04:00 PM**
Client ID: **Seep 01 Surface Water** Run ID: **TDS_150910A** SeqNo: **3452884** Prep Date: **9/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids	1400	20	0	0	0	0-0	1398	0.143	10	

The following samples were analyzed in this batch: 1509414-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 1509414
Project: Pipeline Release SESW SEC25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **R171341** Instrument ID **IC4** Method: **SW9056A**

MBLK Sample ID: **CCB/MBLK-R171341** Units: **mg/L** Analysis Date: **9/10/2015 07:45 AM**
Client ID: Run ID: **IC4_150910A** SeqNo: **3452177** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	0.3012	1.0								J
Sulfate	ND	1.0								

LCS Sample ID: **LCS-R171341** Units: **mg/L** Analysis Date: **9/10/2015 08:06 AM**
Client ID: Run ID: **IC4_150910A** SeqNo: **3452178** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.317	1.0	10	0	93.2	88-110	0			
Sulfate	9.57	1.0	10	0	95.7	85-110	0			

MS Sample ID: **1509414-01B MS** Units: **mg/L** Analysis Date: **9/10/2015 10:05 AM**
Client ID: **Seep 01 Surface Water** Run ID: **IC4_150910A** SeqNo: **3452180** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	565.3	50	500	38.02	105	75-125	0			
Sulfate	726.3	50	500	190.5	107	75-125	0			

MSD Sample ID: **1509414-01B MSD** Units: **mg/L** Analysis Date: **9/10/2015 10:25 AM**
Client ID: **Seep 01 Surface Water** Run ID: **IC4_150910A** SeqNo: **3452181** Prep Date: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	567.6	50	500	38.02	106	75-125	565.3	0.421	20	
Sulfate	728.3	50	500	190.5	108	75-125	726.3	0.267	20	

The following samples were analyzed in this batch: 1509414-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.

COC number (for client tracking): 1509414

Page 1 of 1

CLIENT CONTACT AND REPORTING INFORMATION	INVOICE ADDRESS (if other than reporting address)
Company Name: LT Environmental, Inc	Company Name:
Project Manager: Rob Fishburn	Contact Name:
Address: 820 Megan Ave Unit B	Address:
Erie, CO 81650	
Phone: 970.285.9965	**PROJECT INFORMATION**
Email 1: rfishburn@ltenv.com	Project ID: Pipeline Release SESW SEC25 6S 92W-Scott
Email 2: cwilson@tlenv.com	Site:
SERVICE REQUEST (Express services subject to availability)	PO No: 59415012
☐ Regular (default)	ALS Quote No:
☑ Express (Pls specify date required (9/11/2015))	

ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)

ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	MATRIX (a)	SAMPLING AND CONTAINER INFO			REMARKS	CROSS THE REQUESTED ANALYSIS													
			Date	Time	Tot Bottle		BTEX	Chlorides	TDS	Sulfates										
1	Seep 01 surface water	SW	9/8/2015	1300	4		X	X	X	X										
2	TRIP BLANK		9/8/15	-	1		X													

CLIENT SIGNATURES

Client's Signature:

Client's Date and Time of Completion: 8 Sep 2015, 1400

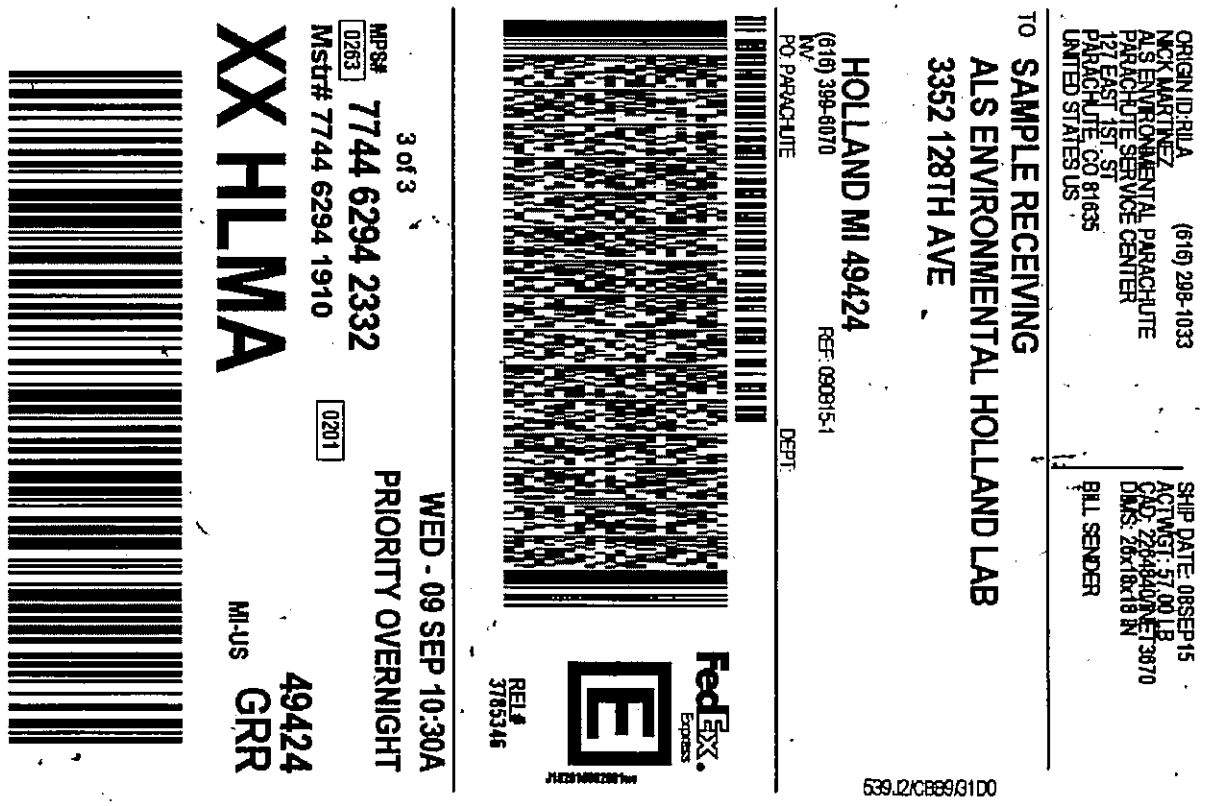
For lab use only

Cooler Security Seal	Sample Temp	No of Cooler Received	Received by (lab)	Date and Time
☐ sealed	☐ chilled deg 'C	carton / cooler box		9-5-15 9:30
☐ broken	☐ ambient	Courier Name: ALS, Wilson	Committed by	Date and Time
☐ not available				

Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)

ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com

400



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ALS Parachute Custody Seal
Time 1800 Date 9-8-15
Name

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **LTENV** Date/Time Received: **09-Sep-15 09:30**

Work Order: **1509414** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 09-Sep-15 (Date) Reviewed by: Lee Arnold (eSignature) 09-Sep-15 (Date)

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.0/4.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	9/9/2015 10:58:14 AM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

ALS Group USA, Corp

Date: 08-Sep-15

Client: LT Environmental, Inc
Project: Piepline Release SESW Sec 25 6S 92W-Scott
Work Order: **1509124**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1509124-01	SS01 @ 3'	Soil		9/1/2015 11:20	9/2/2015 09:30	☐
1509124-02	SS01 @ 4.5'	Soil		9/1/2015 11:25	9/2/2015 09:30	☐

Client: LT Environmental, Inc
Project: Piepline Release SESW Sec 25 6S 92W-Scott
Work Order: 1509124

Case Narrative

Samples for the above noted Work Order were received on 09/02/2015. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

All sample analyses achieved analytical criteria.

Metals:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: *08-Sep-15*

Client: LT Environmental, Inc
Project: Piepline Release SESW Sec 25 6S 92W-Scott
Work Order: 1509124
Sample ID: SS01 @ 3'
Lab ID: 1509124-01
Collection Date: 9/1/2015 11:20 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 9/4/15	Analyst: **JEC**
Calcium	**16**		**5.0**	**mg/L**	10	9/4/2015 11:52 AM
Magnesium	**12**		**2.0**	**mg/L**	10	9/4/2015 11:52 AM
Sodium	**1,100**		**2.0**	**mg/L**	10	9/4/2015 11:52 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 9/4/15	Analyst: **JEC**
Sodium Adsorption Ratio	**52**		**0.010**	**none**	1	9/4/2015
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 9/4/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**6.4**		**0.050**	**mmhos/cm @2**	10	9/4/2015 05:15 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**18**		**0.050**	**% of sample**	1	9/4/2015 10:33 AM
PH			**SW9045D**		Prep: EXTRACT / 9/4/15	Analyst: **KF**
pH	**9.0**			**s.u.**	1	9/4/2015 08:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Sep-15*

Client: LT Environmental, Inc
Project: Piepline Release SESW Sec 25 6S 92W-Scott
Work Order: 1509124
Sample ID: SS01 @ 4.5'
Lab ID: 1509124-02
Collection Date: 9/1/2015 11:25 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 9/4/15	Analyst: **JEC**
Calcium	**23**		**5.0**	**mg/L**	10	9/4/2015 11:58 AM
Magnesium	**14**		**2.0**	**mg/L**	10	9/4/2015 11:58 AM
Sodium	**1,400**		**2.0**	**mg/L**	10	9/4/2015 11:58 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 9/4/15	Analyst: **JEC**
Sodium Adsorption Ratio	**57**		**0.010**	**none**	1	9/4/2015
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 9/4/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**7.8**		**0.050**	**mmhos/cm @2**	10	9/4/2015 05:15 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**14**		**0.050**	**% of sample**	1	9/4/2015 10:33 AM
PH			**SW9045D**		Prep: EXTRACT / 9/4/15	Analyst: **KF**
pH	**9.4**			**s.u.**	1	9/4/2015 08:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **75598** Instrument ID **ICP2** Method: **SW846 6010C**

DUP	Sample ID: **1509122-01BDUP**				Units: **mg/L**			Analysis Date: **9/4/2015 11:40 AM**			
Client ID:	Run ID: **ICP2_150904A**				SeqNo: **3447085**			Prep Date: **9/4/2015**		DF: **10**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	31.38	5.0	0	0	0	0-0	54.03	53.1		
Magnesium	10.95	2.0	0	0	0	0-0	30.71	94.9		
Sodium	1453	2.0	0	0	0	0-0	1501	3.25		

DUP	Sample ID: **1509122-01BDUP**				Units: **none**			Analysis Date: **9/4/2015**			
Client ID:	Run ID: **SAR_150904A**				SeqNo: **3447175**			Prep Date: **9/4/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	56.91	0.010	0	0	0		40.4	33.9	50	

The following samples were analyzed in this batch: 1509124-01A 1509124-02A

Batch ID: **75598** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP	Sample ID: **1509122-01B DUP**				Units: **mmhos/cm @25°**			Analysis Date: **9/4/2015 05:15 PM**			
Client ID:	Run ID: **WETCHEM_150904N**				SeqNo: **3446518**			Prep Date: **9/4/2015**		DF: **25**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	8.15	0.12	0	0	0		8.575	5.08	50	

The following samples were analyzed in this batch: 1509124-01A 1509124-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 1509124
Project: Piepline Release SESW Sec 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **75700** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-75700-75700** Units: **s.u.** Analysis Date: **9/4/2015 08:00 PM**
Client ID: Run ID: **WETCHEM_150904R** SeqNo: **3446782** Prep Date: **9/4/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.89	0	4	0	97.2	90-110	0			

DUP Sample ID: **1509168-08B DUP** Units: **s.u.** Analysis Date: **9/4/2015 08:00 PM**
Client ID: Run ID: **WETCHEM_150904R** SeqNo: **3446796** Prep Date: **9/4/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7	0	0	0	0	0-0	7.01	0.143	20	

DUP Sample ID: **1509169-01A DUP** Units: **s.u.** Analysis Date: **9/4/2015 08:00 PM**
Client ID: Run ID: **WETCHEM_150904R** SeqNo: **3446800** Prep Date: **9/4/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	9.16	0	0	0	0	0-0	8.92	2.65	20	

The following samples were analyzed in this batch: 1509124-01A 1509124-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 1509124
Project: Piepline Release SESW Sec 25 6S 92W-Scott

QC BATCH REPORT

Batch ID: **R171146** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **MB-R171146-R171146** Units: **% of sample** Analysis Date: **9/4/2015 10:33 AM**
Client ID: Run ID: **MOIST_150904A** SeqNo: **3448236** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

LCS Sample ID: **LCS-R171146-R171146** Units: **% of sample** Analysis Date: **9/4/2015 10:33 AM**
Client ID: Run ID: **MOIST_150904A** SeqNo: **3448237** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1509055-01C DUP** Units: **% of sample** Analysis Date: **9/4/2015 10:33 AM**
Client ID: Run ID: **MOIST_150904A** SeqNo: **3448217** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	50.07	0.050	0	0	0		50	0.14	20	

DUP Sample ID: **1509108-01A DUP** Units: **% of sample** Analysis Date: **9/4/2015 10:33 AM**
Client ID: Run ID: **MOIST_150904A** SeqNo: **3448219** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.74	0.050	0	0	0		6.07	10.5	20	

The following samples were analyzed in this batch: 1509124-01A 1509124-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.

COC number (for client tracking) 1509124

Page 1 of 1

CLIENT CONTACT AND REPORTING INFORMATION	INVOICE ADDRESS (if other than reporting address)
Company Name: LT Environmental, Inc	Company Name: Same
Project Manager: Rob Fishburn	Contact Name: Same
Address: 820 Megan Ave Unit B	Address: Same
Vail, CO 81650	
Phone: 970.285.9985	**PROJECT INFORMATION**
Email 1: rfishburn@ltenv.com	Project ID: 05941502
Email 2: dheld@ltenv.com cmckisson@ltenv.com	Site: Pipeline Release SESW Sec 25 T05 R96W-Sixth
SERVICE REQUEST (Express services subject to availability)	PO No:
☑ Regular (default)	ALS Quote No:
☐ Express (Pls specify date required _____) (express fee will apply)	

ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)

ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	MATRIX (a)	SAMPLING AND CONTAINER INFO Date	Time	Tot Bottle	REMARKS	BTEX	TPH GRO/DRO	PAH 8270 SIM	EC	PH	SAR	Table 910-1 Metals: Ba, Cd, CR III, Cr VI, Cu, Pb, Hg, Ni, Se, Ag, Zn	Total Arsenic 6020
							CROSS THE REQUESTED ANALYSIS							
1	SS@1e3'	S	9/1/15	1120	1	3'				X	X	X		
2	SS@1e45'	S	9/1/15	1125	1	4.5'				X	X	X		

CLIENT SIGNATURES

Client's Signature:

Client's Date and Time of Completion:

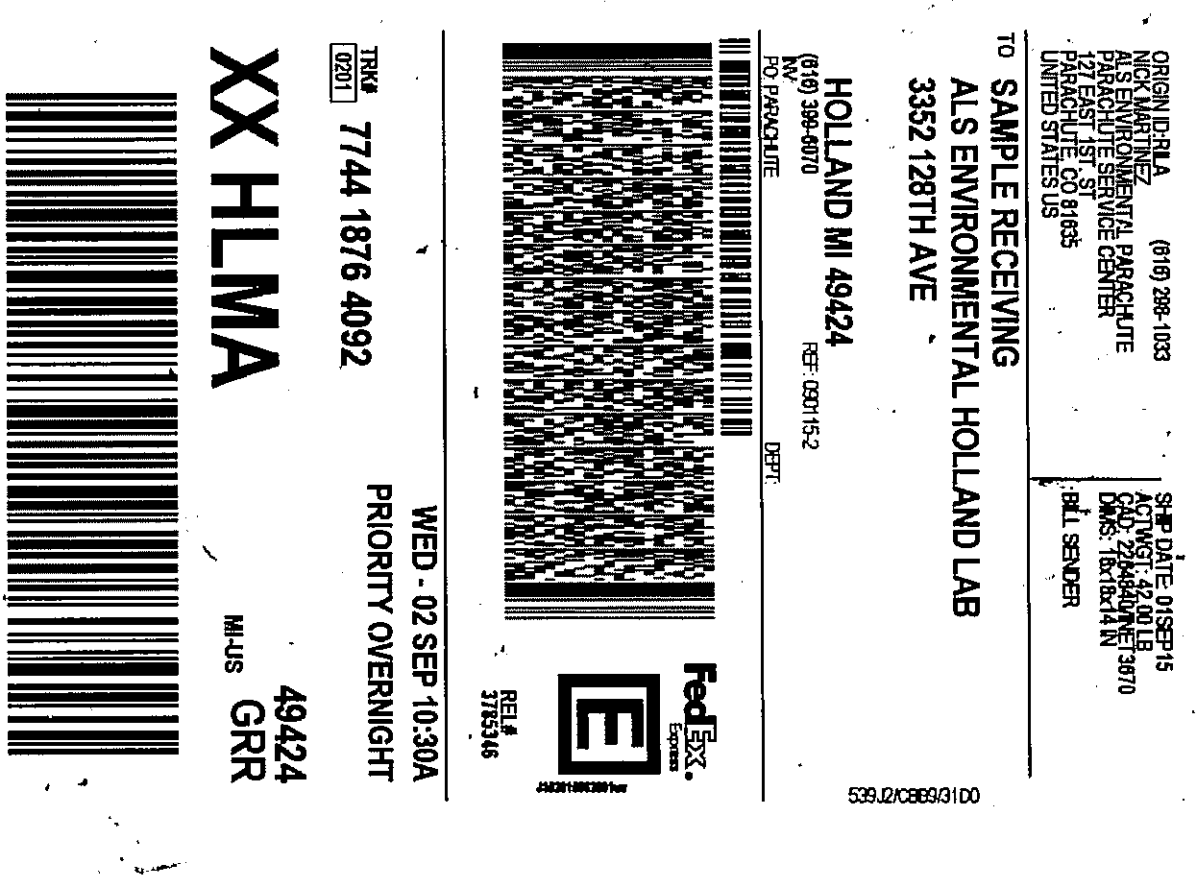
For lab use only

Cooler Security Seal	Sample Temp	No of Cooler Received	Received by (lab)	Date and Time
☐ sealed	☐ chilled deg °C	carton / cooler box		9/2/15 0930
☐ broken	☐ ambient	Courier Name ALS/ISO	Committed by	Date and Time
☐ not available				

Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)

ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com

2.8°C



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **LTENV** Date/Time Received: **02-Sep-15 09:30**

Work Order: **1509124** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 02-Sep-15 (Date) Reviewed by: Lee Arnold (eSignature) 02-Sep-15 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.8/2.8 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	9/2/2015 1:55:38 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: