18-Nov-2015

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

Re: **Powder Wash North** Work Order: **1511519**

Dear Rob,

ALS Environmental received 4 samples on 10-Nov-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 33.

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: 18-Nov-15

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: **1511519**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1511519-01	PWN - Pit Bot 12-16'	Soil		11/6/2015 08:50	11/10/2015 09:30	☐
1511519-02	PWN - Pit Bot 20-22.5'	Soil		11/6/2015 09:05	11/10/2015 09:30	☐
1511519-03	PWN - Pit Bot 01 0-4'	Soil		11/6/2015 09:25	11/10/2015 09:30	☐
1511519-04	PWN - Pit Bot 01 4-7'	Soil		11/6/2015 09:32	11/10/2015 09:30	☐

ALS Group USA, Corp

Date: 18-Nov-15

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519

Case Narrative

The attached "Sample Receipt Checklist" documents the date of receipt, 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:

Batch 78677, Method 8260, VOC; Sample 1511519-02A: The surrogate recovery was above acceptance criteria due to matrix interference.

Batch 78677, Method 8260, VOC; Sample 1511519-03A: The surrogate recovery was above acceptance criteria due to matrix interference.

Batch 78677, Method 8260, VOC; Sample 1511519-04A: The surrogate recovery was above acceptance criteria due to matrix interference.

Batch 78678, Method 8015, GRO; Sample 1511519-04A: The MS and MSD recoveries were above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte:

Batch 78848, Method SVO_8270_S, Sample 1511519-04B: One or more base/neutral surrogate recoveries were below the lower control limits. The base/neutral sample results may be biased low.

NO OTHER DEVIATIONS OR ANOMALIES WERE NOTED.

ALS Group USA, Corp

Date: *18-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519
Sample ID: PWN - Pit Bot 12-16'
Lab ID: 1511519-01
Collection Date: 11/6/2015 08:50 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**			Analyst: **IT**
DRO (C10-C28)	**570**		**4.7**	**mg/Kg-dry**	1	11/16/2015 11:11 AM
Surr: 4-Terphenyl-d14	*67.0*		*39-133*	*%REC*	1	11/16/2015 11:11 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/10/15	Analyst: **IT**
GRO (C6-C10)	**2,700**		**14**	**mg/Kg-dry**	5	11/11/2015 11:03 PM
Surr: Toluene-d8	*102*		*50-150*	*%REC*	5	11/11/2015 11:03 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	ND		0.014	mg/Kg-dry	1	11/13/2015 06:47 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**6.0**		**0.44**	**mg/Kg-dry**	1	11/16/2015 11:38 AM
Barium	**100**		**0.44**	**mg/Kg-dry**	1	11/14/2015 02:03 AM
Cadmium	ND		0.88	mg/Kg-dry	1	11/16/2015 11:38 AM
Chromium	**18**		**0.44**	**mg/Kg-dry**	1	11/14/2015 02:03 AM
Copper	**17**		**0.88**	**mg/Kg-dry**	1	11/14/2015 02:03 AM
Lead	**21**		**0.44**	**mg/Kg-dry**	1	11/16/2015 11:38 AM
Nickel	**13**		**0.44**	**mg/Kg-dry**	1	11/16/2015 11:38 AM
Selenium	**1.4**		**0.88**	**mg/Kg-dry**	1	11/16/2015 11:38 AM
Silver	ND		0.44	mg/Kg-dry	1	11/16/2015 11:38 AM
Zinc	**60**		**0.88**	**mg/Kg-dry**	1	11/16/2015 11:38 AM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**590**		**5.0**	**mg/L**	10	11/17/2015 07:43 AM
Magnesium	**110**		**2.0**	**mg/L**	10	11/17/2015 07:43 AM
Sodium	**15**		**2.0**	**mg/L**	10	11/17/2015 07:43 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**0.14**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/13/15	Analyst: **RS**
Acenaphthene	**0.013**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Anthracene	**0.028**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Benzo(a)anthracene	**0.031**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Benzo(a)pyrene	**0.034**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Benzo(b)fluoranthene	**0.045**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Benzo(k)fluoranthene	**0.016**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Chrysene	**0.041**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Dibenzo(a,h)anthracene	ND		0.0075	mg/Kg-dry	1	11/15/2015 02:12 AM
Fluoranthene	**0.099**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM

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

ALS Group USA, Corp

Date: *18-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519
Sample ID: PWN - Pit Bot 12-16'
Lab ID: 1511519-01
Collection Date: 11/6/2015 08:50 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	**0.013**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Indeno(1,2,3-cd)pyrene	**0.025**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Naphthalene	**0.031**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Pyrene	**0.092**		**0.0075**	**mg/Kg-dry**	1	11/15/2015 02:12 AM
Surr: 2-Fluorobiphenyl	*73.2*		*12-100*	*%REC*	1	11/15/2015 02:12 AM
Surr: 4-Terphenyl-d14	*77.6*		*25-137*	*%REC*	1	11/15/2015 02:12 AM
Surr: Nitrobenzene-d5	*65.6*		*37-107*	*%REC*	1	11/15/2015 02:12 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/10/15	Analyst: **AK**
Benzene	**14**		**0.68**	**mg/Kg-dry**	20	11/17/2015 05:13 AM
Ethylbenzene	**15**		**0.68**	**mg/Kg-dry**	20	11/17/2015 05:13 AM
m,p-Xylene	**60**		**1.4**	**mg/Kg-dry**	20	11/17/2015 05:13 AM
o-Xylene	**14**		**0.68**	**mg/Kg-dry**	20	11/17/2015 05:13 AM
Toluene	**110**		**1.7**	**mg/Kg-dry**	50	11/17/2015 12:41 PM
Xylenes, Total	**74**		**2.1**	**mg/Kg-dry**	20	11/17/2015 05:13 AM
Surr: 1,2-Dichloroethane-d4	*108*		*70-130*	*%REC*	50	11/17/2015 12:41 PM
Surr: 1,2-Dichloroethane-d4	*96.0*		*70-130*	*%REC*	20	11/17/2015 05:13 AM
Surr: 4-Bromofluorobenzene	*99.0*		*70-130*	*%REC*	20	11/17/2015 05:13 AM
Surr: 4-Bromofluorobenzene	*95.5*		*70-130*	*%REC*	50	11/17/2015 12:41 PM
Surr: Dibromofluoromethane	*93.2*		*70-130*	*%REC*	20	11/17/2015 05:13 AM
Surr: Dibromofluoromethane	*99.6*		*70-130*	*%REC*	50	11/17/2015 12:41 PM
Surr: Toluene-d8	*105*		*70-130*	*%REC*	50	11/17/2015 12:41 PM
Surr: Toluene-d8	*107*		*70-130*	*%REC*	20	11/17/2015 05:13 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**4.1**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**18**		**0.57**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**12**		**0.050**	**% of sample**	1	11/11/2015 03:48 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.6**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *18-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519
Sample ID: PWN - Pit Bot 20-22.5'
Lab ID: 1511519-02
Collection Date: 11/6/2015 09:05 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**			Analyst: **IT**
DRO (C10-C28)	**370**		**4.6**	**mg/Kg-dry**	1	11/16/2015 11:38 AM
Surr: 4-Terphenyl-d14	*66.3*		*39-133*	*%REC*	1	11/16/2015 11:38 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/10/15	Analyst: **IT**
GRO (C6-C10)	**1,500**		**2.8**	**mg/Kg-dry**	1	11/11/2015 11:52 PM
Surr: Toluene-d8	*104*		*50-150*	*%REC*	1	11/11/2015 11:52 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	ND		0.013	mg/Kg-dry	1	11/13/2015 06:49 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**2.9**		**0.39**	**mg/Kg-dry**	1	11/16/2015 05:11 AM
Barium	**30**		**0.39**	**mg/Kg-dry**	1	11/16/2015 05:11 AM
Cadmium	**1.1**		**0.78**	**mg/Kg-dry**	1	11/16/2015 05:11 AM
Chromium	**5.5**		**0.39**	**mg/Kg-dry**	1	11/16/2015 05:11 AM
Copper	**5.3**		**0.78**	**mg/Kg-dry**	1	11/16/2015 05:11 AM
Lead	**14**		**0.39**	**mg/Kg-dry**	1	11/16/2015 05:11 AM
Nickel	**16**		**0.39**	**mg/Kg-dry**	1	11/16/2015 05:11 AM
Selenium	**0.95**		**0.78**	**mg/Kg-dry**	1	11/16/2015 11:44 AM
Silver	ND		0.39	mg/Kg-dry	1	11/16/2015 05:11 AM
Zinc	**45**		**0.78**	**mg/Kg-dry**	1	11/16/2015 05:11 AM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**710**		**5.0**	**mg/L**	10	11/17/2015 07:49 AM
Magnesium	**160**		**2.0**	**mg/L**	10	11/17/2015 07:49 AM
Sodium	**35**		**2.0**	**mg/L**	10	11/17/2015 07:49 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**0.30**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/13/15	Analyst: **RS**
Acenaphthene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Anthracene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Benzo(a)anthracene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Benzo(a)pyrene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Benzo(b)fluoranthene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Benzo(k)fluoranthene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Chrysene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Dibenzo(a,h)anthracene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Fluoranthene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM

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

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519
Sample ID: PWN - Pit Bot 20-22.5'
Lab ID: 1511519-02
Collection Date: 11/6/2015 09:05 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Indeno(1,2,3-cd)pyrene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Naphthalene	**0.028**		**0.0073**	**mg/Kg-dry**	1	11/15/2015 02:35 AM
Pyrene	ND		0.0073	mg/Kg-dry	1	11/15/2015 02:35 AM
Surr: 2-Fluorobiphenyl	*74.6*		*12-100*	*%REC*	1	11/15/2015 02:35 AM
Surr: 4-Terphenyl-d14	*82.4*		*25-137*	*%REC*	1	11/15/2015 02:35 AM
Surr: Nitrobenzene-d5	*66.1*		*37-107*	*%REC*	1	11/15/2015 02:35 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/10/15	Analyst: **AK**
Benzene	**0.72**		**0.033**	**mg/Kg-dry**	1	11/14/2015 09:40 PM
Ethylbenzene	**8.6**		**0.33**	**mg/Kg-dry**	10	11/17/2015 05:37 AM
m,p-Xylene	**36**		**0.66**	**mg/Kg-dry**	10	11/17/2015 05:37 AM
o-Xylene	**8.8**		**0.33**	**mg/Kg-dry**	10	11/17/2015 05:37 AM
Toluene	**26**		**0.33**	**mg/Kg-dry**	10	11/17/2015 05:37 AM
Xylenes, Total	**44**		**0.99**	**mg/Kg-dry**	10	11/17/2015 05:37 AM
Surr: 1,2-Dichloroethane-d4	*99.0*		*70-130*	*%REC*	1	11/14/2015 09:40 PM
Surr: 1,2-Dichloroethane-d4	*98.2*		*70-130*	*%REC*	10	11/17/2015 05:37 AM
Surr: 4-Bromofluorobenzene	*98.6*		*70-130*	*%REC*	10	11/17/2015 05:37 AM
Surr: 4-Bromofluorobenzene	*106*		*70-130*	*%REC*	1	11/14/2015 09:40 PM
Surr: Dibromofluoromethane	*93.6*		*70-130*	*%REC*	10	11/17/2015 05:37 AM
Surr: Dibromofluoromethane	*99.1*		*70-130*	*%REC*	1	11/14/2015 09:40 PM
Surr: Toluene-d8	*209*	S	*70-130*	*%REC*	1	11/14/2015 09:40 PM
Surr: Toluene-d8	*112*		*70-130*	*%REC*	10	11/17/2015 05:37 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**5.4**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**5.5**		**0.55**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.0	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**9.2**		**0.050**	**% of sample**	1	11/11/2015 03:48 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.1**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *18-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519
Sample ID: PWN - Pit Bot 01 0-4'
Lab ID: 1511519-03
Collection Date: 11/6/2015 09:25 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3550 / 11/17/15	Analyst: **IT**
DRO (C10-C28)	**230**		**4.9**	**mg/Kg-dry**	1	11/17/2015 07:13 PM
Surr: 4-Terphenyl-d14	*74.2*		*39-133*	*%REC*	1	11/17/2015 07:13 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/10/15	Analyst: **IT**
GRO (C6-C10)	**1,700**		**2.9**	**mg/Kg-dry**	1	11/12/2015 12:17 PM
Surr: Toluene-d8	*103*		*50-150*	*%REC*	1	11/12/2015 12:17 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	**0.031**		**0.014**	**mg/Kg-dry**	1	11/13/2015 06:59 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**2.2**		**0.43**	**mg/Kg-dry**	1	11/15/2015 06:20 PM
Barium	**90**		**0.43**	**mg/Kg-dry**	1	11/15/2015 06:20 PM
Cadmium	ND		0.86	mg/Kg-dry	1	11/15/2015 06:20 PM
Chromium	**15**		**0.43**	**mg/Kg-dry**	1	11/15/2015 06:20 PM
Copper	**16**		**0.86**	**mg/Kg-dry**	1	11/15/2015 06:20 PM
Lead	**16**		**0.43**	**mg/Kg-dry**	1	11/15/2015 06:20 PM
Nickel	**5.8**		**0.43**	**mg/Kg-dry**	1	11/15/2015 06:20 PM
Selenium	ND		0.86	mg/Kg-dry	1	11/15/2015 06:20 PM
Silver	ND		0.43	mg/Kg-dry	1	11/15/2015 06:20 PM
Zinc	**55**		**0.86**	**mg/Kg-dry**	1	11/15/2015 06:20 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**280**		**5.0**	**mg/L**	10	11/17/2015 08:00 AM
Magnesium	**45**		**2.0**	**mg/L**	10	11/17/2015 08:00 AM
Sodium	**140**		**2.0**	**mg/L**	10	11/17/2015 08:00 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**2.0**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/13/15	Analyst: **RS**
Acenaphthene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Anthracene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Benzo(a)anthracene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Benzo(a)pyrene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Benzo(b)fluoranthene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Benzo(k)fluoranthene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Chrysene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Dibenzo(a,h)anthracene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Fluoranthene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM

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

ALS Group USA, Corp

Date: *18-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519
Sample ID: PWN - Pit Bot 01 0-4'
Lab ID: 1511519-03
Collection Date: 11/6/2015 09:25 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Indeno(1,2,3-cd)pyrene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Naphthalene	**0.050**		**0.0078**	**mg/Kg-dry**	1	11/15/2015 02:58 AM
Pyrene	ND		0.0078	mg/Kg-dry	1	11/15/2015 02:58 AM
Surr: 2-Fluorobiphenyl	*59.0*		*12-100*	*%REC*	1	11/15/2015 02:58 AM
Surr: 4-Terphenyl-d14	*70.7*		*25-137*	*%REC*	1	11/15/2015 02:58 AM
Surr: Nitrobenzene-d5	*57.1*		*37-107*	*%REC*	1	11/15/2015 02:58 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**	Prep: SW5035 / 11/10/15		Analyst: **AK**
Benzene	**1.3**		**0.035**	**mg/Kg-dry**	1	11/14/2015 10:07 PM
Ethylbenzene	**15**		**0.35**	**mg/Kg-dry**	10	11/17/2015 06:02 AM
m,p-Xylene	**65**		**0.71**	**mg/Kg-dry**	10	11/17/2015 06:02 AM
o-Xylene	**16**		**0.35**	**mg/Kg-dry**	10	11/17/2015 06:02 AM
Toluene	**65**		**0.71**	**mg/Kg-dry**	20	11/17/2015 01:07 PM
Xylenes, Total	**81**		**1.1**	**mg/Kg-dry**	10	11/17/2015 06:02 AM
Surr: 1,2-Dichloroethane-d4	*104*		*70-130*	*%REC*	20	11/17/2015 01:07 PM
Surr: 1,2-Dichloroethane-d4	*97.2*		*70-130*	*%REC*	1	11/14/2015 10:07 PM
Surr: 1,2-Dichloroethane-d4	*94.0*		*70-130*	*%REC*	10	11/17/2015 06:02 AM
Surr: 4-Bromofluorobenzene	*102*		*70-130*	*%REC*	10	11/17/2015 06:02 AM
Surr: 4-Bromofluorobenzene	*100*		*70-130*	*%REC*	1	11/14/2015 10:07 PM
Surr: 4-Bromofluorobenzene	*103*		*70-130*	*%REC*	20	11/17/2015 01:07 PM
Surr: Dibromofluoromethane	*98.2*		*70-130*	*%REC*	20	11/17/2015 01:07 PM
Surr: Dibromofluoromethane	*98.2*		*70-130*	*%REC*	1	11/14/2015 10:07 PM
Surr: Dibromofluoromethane	*91.4*		*70-130*	*%REC*	10	11/17/2015 06:02 AM
Surr: Toluene-d8	*114*		*70-130*	*%REC*	20	11/17/2015 01:07 PM
Surr: Toluene-d8	*203*	S	*70-130*	*%REC*	1	11/14/2015 10:07 PM
Surr: Toluene-d8	*119*		*70-130*	*%REC*	10	11/17/2015 06:02 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**	Prep: USDA Method 20B / 11/16/15		Analyst: **JB**
Electrical Conductivity @ Saturation	**2.4**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**15**		**0.59**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**	Prep: SW3060A / 11/15/15		Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**15**		**0.050**	**% of sample**	1	11/11/2015 04:41 PM
PH			**SW9045D**	Prep: EXTRACT / 11/11/15		Analyst: **JB**
pH	**5.5**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *18-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519
Sample ID: PWN - Pit Bot 01 4-7'
Lab ID: 1511519-04
Collection Date: 11/6/2015 09:32 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**			Analyst: **IT**
DRO (C10-C28)	**460**		**4.6**	**mg/Kg-dry**	1	11/16/2015 12:05 PM
Surr: 4-Terphenyl-d14	*63.4*		*39-133*	*%REC*	1	11/16/2015 12:05 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/10/15	Analyst: **IT**
GRO (C6-C10)	**250**		**2.8**	**mg/Kg-dry**	1	11/11/2015 04:45 PM
Surr: Toluene-d8	*97.0*		*50-150*	*%REC*	1	11/11/2015 04:45 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	**0.015**		**0.014**	**mg/Kg-dry**	1	11/13/2015 07:01 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**1.8**		**0.38**	**mg/Kg-dry**	1	11/15/2015 06:26 PM
Barium	**46**		**0.38**	**mg/Kg-dry**	1	11/15/2015 06:26 PM
Cadmium	**2.1**		**0.77**	**mg/Kg-dry**	1	11/15/2015 06:26 PM
Chromium	**14**		**0.38**	**mg/Kg-dry**	1	11/15/2015 06:26 PM
Copper	**14**		**0.77**	**mg/Kg-dry**	1	11/15/2015 06:26 PM
Lead	**12**		**0.38**	**mg/Kg-dry**	1	11/15/2015 06:26 PM
Nickel	**22**		**0.38**	**mg/Kg-dry**	1	11/15/2015 06:26 PM
Selenium	ND		0.77	mg/Kg-dry	1	11/15/2015 06:26 PM
Silver	ND		0.38	mg/Kg-dry	1	11/15/2015 06:26 PM
Zinc	**89**		**0.77**	**mg/Kg-dry**	1	11/15/2015 06:26 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**1,100**		**5.0**	**mg/L**	10	11/17/2015 08:06 AM
Magnesium	**140**		**2.0**	**mg/L**	10	11/17/2015 08:06 AM
Sodium	**480**		**2.0**	**mg/L**	10	11/17/2015 08:06 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**3.6**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/13/15	Analyst: **JG**
Acenaphthene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Anthracene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Benzo(a)anthracene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Benzo(a)pyrene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Benzo(b)fluoranthene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Benzo(k)fluoranthene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Chrysene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Dibenzo(a,h)anthracene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Fluoranthene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM

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

ALS Group USA, Corp

Date: *18-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511519
Sample ID: PWN - Pit Bot 01 4-7'
Lab ID: 1511519-04
Collection Date: 11/6/2015 09:32 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Indeno(1,2,3-cd)pyrene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Naphthalene	**0.0088**		**0.0073**	**mg/Kg-dry**	1	11/13/2015 10:37 PM
Pyrene	ND		0.0073	mg/Kg-dry	1	11/13/2015 10:37 PM
Surr: 2-Fluorobiphenyl	*34.7*		*12-100*	*%REC*	1	11/13/2015 10:37 PM
Surr: 4-Terphenyl-d14	*37.0*		*25-137*	*%REC*	1	11/13/2015 10:37 PM
Surr: Nitrobenzene-d5	*33.1*	S	*37-107*	*%REC*	1	11/13/2015 10:37 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/10/15	Analyst: **AK**
Benzene	**5.5**		**0.034**	**mg/Kg-dry**	1	11/14/2015 10:32 PM
Ethylbenzene	**21**		**0.67**	**mg/Kg-dry**	20	11/17/2015 09:25 AM
m,p-Xylene	**92**		**1.3**	**mg/Kg-dry**	20	11/17/2015 09:25 AM
o-Xylene	**24**		**0.67**	**mg/Kg-dry**	20	11/17/2015 09:25 AM
Toluene	**95**		**0.67**	**mg/Kg-dry**	20	11/17/2015 09:25 AM
Xylenes, Total	**120**		**2.0**	**mg/Kg-dry**	20	11/17/2015 09:25 AM
Surr: 1,2-Dichloroethane-d4	*97.2*		*70-130*	*%REC*	1	11/14/2015 10:32 PM
Surr: 1,2-Dichloroethane-d4	*93.2*		*70-130*	*%REC*	20	11/17/2015 09:25 AM
Surr: 4-Bromofluorobenzene	*99.5*		*70-130*	*%REC*	20	11/17/2015 09:25 AM
Surr: 4-Bromofluorobenzene	*90.9*		*70-130*	*%REC*	1	11/14/2015 10:32 PM
Surr: Dibromofluoromethane	*87.6*		*70-130*	*%REC*	20	11/17/2015 09:25 AM
Surr: Dibromofluoromethane	*95.8*		*70-130*	*%REC*	1	11/14/2015 10:32 PM
Surr: Toluene-d8	*494*	S	*70-130*	*%REC*	1	11/14/2015 10:32 PM
Surr: Toluene-d8	*125*		*70-130*	*%REC*	20	11/17/2015 09:25 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**8.0**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**14**		**0.56**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**11**		**0.050**	**% of sample**	1	11/11/2015 04:41 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**6.9**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: 18-Nov-15

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: 18-Nov-15

Client: LT Environmental, Inc

Work Order: 1511519

Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78849a** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-78849-78849a** Units: **mg/Kg** Analysis Date: **11/14/2015 08:18 PM**

Client ID: Run ID: **GC8_151114A** SeqNo: **3568292** Prep Date: **11/13/2015** 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	*1.464*	0	*2*	0	*73.2*	*39-133*	0			

LCS Sample ID: **DLCSS1-78849-78849a** Units: **mg/Kg** Analysis Date: **11/14/2015 08:45 PM**

Client ID: Run ID: **GC8_151114A** SeqNo: **3568295** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	165.7	5.0	200	0	82.8	61-109	0			
Surr: 4-Terphenyl-d14	*1.251*	0	*2*	0	*62.5*	*39-133*	0			

MS Sample ID: **1511519-03B MS** Units: **mg/Kg** Analysis Date: **11/14/2015 09:13 PM**

Client ID: **PWN - Pit Bot 01 0-4'** Run ID: **GC8_151114A** SeqNo: **3568298** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	727.1	4.2	166.1	110.9	371	48-110	0			S
Surr: 4-Terphenyl-d14	*1.277*	0	*1.661*	0	*76.9*	*39-133*	0			

MSD Sample ID: **1511519-03B MSD** Units: **mg/Kg** Analysis Date: **11/14/2015 09:40 PM**

Client ID: **PWN - Pit Bot 01 0-4'** Run ID: **GC8_151114A** SeqNo: **3568301** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	622.7	4.1	165.4	110.9	310	48-110	727.1	15.5	30	S
Surr: 4-Terphenyl-d14	*1.142*	0	*1.654*	0	*69*	*39-133*	1.277	*11.2*	*30*	

The following samples were analyzed in this batch: 1511519-01B 1511519-02B 1511519-03B 1511519-04B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **79007** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-79007-79007** Units: **mg/Kg** Analysis Date: **11/17/2015 04:14 PM**
Client ID: Run ID: **GC8_151117A** SeqNo: **3572346** Prep Date: **11/17/2015** 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	0	0	0		0			
Surr: 4-Terphenyl-d14	*1.422*	0	*2*	0	*71.1*	*39-133*	0			

LCS Sample ID: **DLCSS1-79007-79007** Units: **mg/Kg** Analysis Date: **11/17/2015 04:44 PM**
Client ID: Run ID: **GC8_151117A** SeqNo: **3572347** Prep Date: **11/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	157.3	5.0	200	0	78.7	61-109	0			
Surr: 4-Terphenyl-d14	*1.249*	0	*2*	0	*62.5*	*39-133*	0			

MS Sample ID: **1511759-01A MS** Units: **mg/Kg** Analysis Date: **11/17/2015 05:44 PM**
Client ID: Run ID: **GC8_151117A** SeqNo: **3572869** Prep Date: **11/17/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1290	41	164.4	633.2	399	48-110	0			S
Surr: 4-Terphenyl-d14	*0.7792*	0	*1.644*	0	*47.4*	*39-133*	0			

MSD Sample ID: **1511759-01A MSD** Units: **mg/Kg** Analysis Date: **11/17/2015 06:14 PM**
Client ID: Run ID: **GC8_151117A** SeqNo: **3572870** Prep Date: **11/17/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	656.5	41	165.5	633.2	14	48-110	1290	65.1	30	SR
Surr: 4-Terphenyl-d14	*0.92*	0	*1.655*	0	*55.6*	*39-133*	0.7792	*16.6*	*30*	

The following samples were analyzed in this batch: 1511519-03B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78678** Instrument ID **GC9** Method: **SW8015D**

MBLK Sample ID: **MBLK-78678-78678** Units: **µg/Kg** Analysis Date: **11/11/2015 11:18 AM**
Client ID: Run ID: **GC9_151111A** SeqNo: **3560099** Prep Date: **11/10/2015** 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	*5004*	0	*5000*	0	*100*	*50-150*	0			

MBLK Sample ID: **MBLK-78678-78678** Units: **µg/Kg** Analysis Date: **11/11/2015 11:18 AM**
Client ID: Run ID: **GC9_151111A** SeqNo: **3560568** Prep Date: **11/10/2015** 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	*5004*	0	*5000*	0	*100*	*50-150*	0			

MBLK Sample ID: **MBLK-78678-78678** Units: **µg/Kg** Analysis Date: **11/11/2015 08:03 PM**
Client ID: Run ID: **GC9_151111B** SeqNo: **3561295** Prep Date: **11/10/2015** 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								

LCS Sample ID: **LCS-78678-78678** Units: **µg/Kg** Analysis Date: **11/11/2015 10:53 AM**
Client ID: Run ID: **GC9_151111A** SeqNo: **3560098** Prep Date: **11/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	489600	2,500	500000	0	97.9	70-130	0			
Surr: Toluene-d8	*4792*	0	*5000*	0	*95.8*	*50-150*	0			

LCS Sample ID: **LCS-78678-78678** Units: **µg/Kg** Analysis Date: **11/11/2015 10:53 AM**
Client ID: Run ID: **GC9_151111A** SeqNo: **3560567** Prep Date: **11/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	489600	2,500	500000	0	97.9	70-130	0			
Surr: Toluene-d8	*4792*	0	*5000*	0	*95.8*	*50-150*	0			

LCS Sample ID: **LCS-78678-78678** Units: **µg/Kg** Analysis Date: **11/11/2015 07:37 PM**
Client ID: Run ID: **GC9_151111B** SeqNo: **3561292** Prep Date: **11/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	11220	2,500	10000	0	112	80-120	0			

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78678** Instrument ID **GC9** Method: **SW8015D**

LCSD Sample ID: **LCSD-78678-78678** Units: **µg/Kg** Analysis Date: **11/11/2015 09:23 PM**
Client ID: Run ID: **GC9_151111B** SeqNo: **3561305** Prep Date: **11/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	11530	2,500	10000	0	115	80-120	11220	2.73	20	

MS Sample ID: **1511519-04A MS** Units: **µg/Kg** Analysis Date: **11/11/2015 05:59 PM**
Client ID: **PWN - Pit Bot 01 4-7'** Run ID: **GC10_151111B** SeqNo: **3561168** Prep Date: **11/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	875100	2,500	500000	224900	130	70-130	0			S
Surr: Toluene-d8	*4852*	0	*5000*	0	*97*	*50-150*	0			

MSD Sample ID: **1511519-04A MSD** Units: **µg/Kg** Analysis Date: **11/11/2015 06:23 PM**
Client ID: **PWN - Pit Bot 01 4-7'** Run ID: **GC10_151111B** SeqNo: **3561169** Prep Date: **11/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	878100	2,500	500000	224900	131	70-130	875100	0.34	30	S
Surr: Toluene-d8	*4904*	0	*5000*	0	*98.1*	*50-150*	4852	*1.07*	*30*	

The following samples were analyzed in this batch: 1511519-01A 1511519-02A 1511519-03A 1511519-04A

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78817** Instrument ID **HG1** Method: **SW7471B**

MBLK Sample ID: **MBLK-78817-78817** Units: **mg/Kg** Analysis Date: **11/13/2015 05:57 PM**
Client ID: Run ID: **HG1_151113B** SeqNo: **3567145** Prep Date: **11/13/2015** 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-78817-78817** Units: **mg/Kg** Analysis Date: **11/13/2015 05:59 PM**
Client ID: Run ID: **HG1_151113B** SeqNo: **3567146** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1958	0.020	0.1665	0	118	80-120	0			

MS Sample ID: **1511513-02BMS** Units: **mg/Kg** Analysis Date: **11/13/2015 06:06 PM**
Client ID: Run ID: **HG1_151113B** SeqNo: **3567149** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1361	0.013	0.1071	0.01041	117	75-125	0			

MSD Sample ID: **1511513-02BMSD** Units: **mg/Kg** Analysis Date: **11/13/2015 06:08 PM**
Client ID: Run ID: **HG1_151113B** SeqNo: **3567150** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1325	0.013	0.1072	0.01041	114	75-125	0.1361	2.69	35	

The following samples were analyzed in this batch: 1511519-01B 1511519-02B 1511519-03B 1511519-04B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78723** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-78723-78723** Units: **mg/Kg** Analysis Date: **11/13/2015 02:59 PM**
Client ID: Run ID: **ICP2_151113A** SeqNo: **3565443** Prep Date: **11/11/2015** 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	0.01622	0.25								J
Copper	0.04301	0.50								J
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	0.02919	0.25								J
Zinc	ND	0.50								

LCS Sample ID: **LCS-78723-78723** Units: **mg/Kg** Analysis Date: **11/13/2015 03:05 PM**
Client ID: Run ID: **ICP2_151113A** SeqNo: **3565444** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.015	0.25	5	0	100	80-120	0			
Barium	5.182	0.25	5	0	104	80-120	0			
Cadmium	5.08	0.50	5	0	102	80-120	0			
Chromium	5.55	0.25	5	0	111	80-120	0			
Copper	5.307	0.50	5	0	106	80-120	0			
Lead	5.273	0.25	5	0	105	80-120	0			
Nickel	5.203	0.25	5	0	104	80-120	0			
Selenium	5.3	0.50	5	0	106	80-120	0			
Silver	4.953	0.25	5	0	99.1	80-120	0			
Zinc	5.485	0.50	5	0	110	80-120	0			

MS Sample ID: **1511515-01BMS** Units: **mg/Kg** Analysis Date: **11/13/2015 03:15 PM**
Client ID: Run ID: **ICP2_151113A** SeqNo: **3565446** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.6	0.40	7.949	8.59	50.4	75-125	0			S
Barium	45.57	0.40	7.949	38.25	92.1	75-125	0			O
Cadmium	8.63	0.79	7.949	1.279	92.5	75-125	0			
Chromium	19.16	0.40	7.949	8.056	140	75-125	0			S
Copper	15.68	0.79	7.949	7.945	97.2	75-125	0			
Lead	28.45	0.40	7.949	21.99	81.3	75-125	0			
Nickel	21.67	0.40	7.949	14.16	94.5	75-125	0			
Selenium	9.982	0.79	7.949	1.554	106	75-125	0			
Silver	8.213	0.40	7.949	0.1891	101	75-125	0			
Zinc	74.55	0.79	7.949	62.76	148	75-125	0			SO

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78723** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **1511515-01BMSD** Units: **mg/Kg** Analysis Date: **11/13/2015 03:21 PM**
Client ID: Run ID: **ICP2_151113A** SeqNo: **3565447** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.38	0.40	8.065	8.59	47	75-125	12.6	1.75	20	S
Barium	52.05	0.40	8.065	38.25	171	75-125	45.57	13.3	20	SO
Cadmium	8.637	0.81	8.065	1.279	91.2	75-125	8.63	0.0837	20	
Chromium	19.92	0.40	8.065	8.056	147	75-125	19.16	3.93	20	S
Copper	16.29	0.81	8.065	7.945	104	75-125	15.68	3.87	20	
Lead	27.56	0.40	8.065	21.99	69.1	75-125	28.45	3.19	20	S
Nickel	23.83	0.40	8.065	14.16	120	75-125	21.67	9.53	20	
Selenium	9.925	0.81	8.065	1.554	104	75-125	9.982	0.576	20	
Silver	8.188	0.40	8.065	0.1891	99.2	75-125	8.213	0.304	20	
Zinc	80.97	0.81	8.065	62.76	226	75-125	74.55	8.26	20	SO

The following samples were analyzed in this batch: 1511519-01B 1511519-02B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78753** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-78753-78753** Units: **mg/Kg** Analysis Date: **11/15/2015 06:09 PM**
Client ID: Run ID: **ICP2_151115A** SeqNo: **3567487** Prep Date: **11/11/2015** 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	0.0146	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-78753-78753** Units: **mg/Kg** Analysis Date: **11/15/2015 06:15 PM**
Client ID: Run ID: **ICP2_151115A** SeqNo: **3567488** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.303	0.25	5	0	106	80-120	0			
Barium	5.172	0.25	5	0	103	80-120	0			
Cadmium	5.067	0.50	5	0	101	80-120	0			
Chromium	5.561	0.25	5	0	111	80-120	0			
Copper	5.321	0.50	5	0	106	80-120	0			
Lead	5.421	0.25	5	0	108	80-120	0			
Nickel	5.189	0.25	5	0	104	80-120	0			
Selenium	5.581	0.50	5	0	112	80-120	0			
Silver	5.311	0.25	5	0	106	80-120	0			
Zinc	5.612	0.50	5	0	112	80-120	0			

MS Sample ID: **1511560-01CMS** Units: **mg/Kg** Analysis Date: **11/15/2015 06:37 PM**
Client ID: Run ID: **ICP2_151115A** SeqNo: **3567492** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.41	0.33	6.649	1.932	112	75-125	0			
Barium	24.31	0.33	6.649	15.08	139	75-125	0			S
Cadmium	6.621	0.66	6.649	-0.01894	99.9	75-125	0			
Chromium	13.19	0.33	6.649	5.245	120	75-125	0			
Copper	9.644	0.66	6.649	2.609	106	75-125	0			
Lead	9.568	0.33	6.649	2.509	106	75-125	0			
Nickel	12.63	0.33	6.649	5.086	114	75-125	0			
Selenium	7.552	0.66	6.649	0.1899	111	75-125	0			
Silver	7.155	0.33	6.649	-0.004545	108	75-125	0			
Zinc	21.13	0.66	6.649	11.97	138	75-125	0			S

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78753** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **1511560-01CMSD** Units: **mg/Kg** Analysis Date: **11/15/2015 06:42 PM**
Client ID: Run ID: **ICP2_151115A** SeqNo: **3567493** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.322	0.33	6.64	1.932	111	75-125	9.41	0.935	20	
Barium	22.58	0.33	6.64	15.08	113	75-125	24.31	7.39	20	
Cadmium	6.659	0.66	6.64	-0.01894	101	75-125	6.621	0.569	20	
Chromium	12.98	0.33	6.64	5.245	117	75-125	13.19	1.6	20	
Copper	9.554	0.66	6.64	2.609	105	75-125	9.644	0.935	20	
Lead	9.464	0.33	6.64	2.509	105	75-125	9.568	1.09	20	
Nickel	12.44	0.33	6.64	5.086	111	75-125	12.63	1.55	20	
Selenium	7.511	0.66	6.64	0.1899	110	75-125	7.552	0.536	20	
Silver	7.139	0.33	6.64	-0.004545	108	75-125	7.155	0.224	20	
Zinc	20.78	0.66	6.64	11.97	133	75-125	21.13	1.68	20	S

The following samples were analyzed in this batch: 1511519-03B 1511519-04B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78887** Instrument ID **ICP2** Method: **SW846 6010C**

DUP Sample ID: **1511519-02BDUP** Units: **mg/L** Analysis Date: **11/17/2015 07:54 AM**
Client ID: **PWN - Pit Bot 20-22.5'** Run ID: **ICP2_151116B** SeqNo: **3569998** Prep Date: **11/16/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	714.1	5.0	0	0	0	0-0	711.4	0.373		
Magnesium	159.1	2.0	0	0	0	0-0	159	0.08		
Sodium	34.66	2.0	0	0	0	0-0	34.51	0.442		

DUP Sample ID: **1511519-02BDUP** Units: **none** Analysis Date: **11/16/2015**
Client ID: **PWN - Pit Bot 20-22.5'** Run ID: **SAR_151116A** SeqNo: **3571165** Prep Date: **11/16/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.3055	0.010	0	0	0		0.3046	0.295	50	

The following samples were analyzed in this batch:

1511519-01B 1511519-02B 1511519-03B
1511519-04B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78848** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-78848-78848** Units: **µg/Kg** Analysis Date: **11/13/2015 05:42 PM**
Client ID: Run ID: **SVMS4_151113A** SeqNo: **3567022** Prep Date: **11/13/2015** 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	*645.3*	0	*1667*	0	*38.7*	*12-100*	0			
Surr: 4-Terphenyl-d14	*791.7*	0	*1667*	0	*47.5*	*25-137*	0			
Surr: Nitrobenzene-d5	*655.3*	0	*1667*	0	*39.3*	*37-107*	0			

LCS Sample ID: **SLCSS1-78848-78848** Units: **µg/Kg** Analysis Date: **11/13/2015 06:08 PM**
Client ID: Run ID: **SVMS4_151113A** SeqNo: **3567023** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	576.7	6.7	666.7	0	86.5	45-110	0			
Anthracene	620.3	6.7	666.7	0	93	55-105	0			
Benzo(a)anthracene	636.3	6.7	666.7	0	95.4	50-110	0			
Benzo(a)pyrene	613.7	6.7	666.7	0	92	50-110	0			
Benzo(b)fluoranthene	640	6.7	666.7	0	96	45-115	0			
Benzo(k)fluoranthene	623.3	6.7	666.7	0	93.5	45-115	0			
Chrysene	634.7	6.7	666.7	0	95.2	55-110	0			
Dibenzo(a,h)anthracene	633.7	6.7	666.7	0	95	40-125	0			
Fluoranthene	614.7	6.7	666.7	0	92.2	55-115	0			
Fluorene	597	6.7	666.7	0	89.5	50-110	0			
Indeno(1,2,3-cd)pyrene	637.7	6.7	666.7	0	95.6	40-120	0			
Naphthalene	547.7	6.7	666.7	0	82.1	40-105	0			
Pyrene	703.3	6.7	666.7	0	105	45-125	0			
Surr: 2-Fluorobiphenyl	*1389*	0	*1667*	0	*83.4*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1582*	0	*1667*	0	*94.9*	*25-137*	0			
Surr: Nitrobenzene-d5	*1406*	0	*1667*	0	*84.3*	*37-107*	0			

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78848** Instrument ID **SVMS4** Method: **SW846 8270D**

MS Sample ID: **1511519-04B MS** Units: **µg/Kg** Analysis Date: **11/13/2015 09:46 PM**
Client ID: **PWN - Pit Bot 01 4-7'** Run ID: **SVMS4_151113A** SeqNo: **3567026** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	568	6.5	647	0	87.8	45-110	0			
Anthracene	574.8	6.5	647	0	88.8	55-105	0			
Benzo(a)anthracene	577.4	6.5	647	0	89.2	50-110	0			
Benzo(a)pyrene	565.8	6.5	647	0	87.4	50-110	0			
Benzo(b)fluoranthene	584.9	6.5	647	0	90.4	45-115	0			
Benzo(k)fluoranthene	583.9	6.5	647	0	90.2	45-115	0			
Chrysene	567.4	6.5	647	0	87.7	55-110	0			
Dibenzo(a,h)anthracene	517.9	6.5	647	0	80	40-125	0			
Fluoranthene	590	6.5	647	0	91.2	55-115	0			
Fluorene	587.1	6.5	647	0	90.7	50-110	0			
Indeno(1,2,3-cd)pyrene	534.1	6.5	647	0	82.5	40-120	0			
Naphthalene	587.1	6.5	647	7.853	89.5	40-105	0			
Pyrene	594.9	6.5	647	1.636	91.7	45-125	0			
Surr: 2-Fluorobiphenyl	*1249*	0	*1617*	0	*77.2*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1300*	0	*1617*	0	*80.4*	*25-137*	0			
Surr: Nitrobenzene-d5	*1407*	0	*1617*	0	*87*	*37-107*	0			

MSD Sample ID: **1511519-04B MSD** Units: **µg/Kg** Analysis Date: **11/13/2015 10:12 PM**
Client ID: **PWN - Pit Bot 01 4-7'** Run ID: **SVMS4_151113A** SeqNo: **3567027** Prep Date: **11/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	557.4	6.6	662.8	0	84.1	45-110	568	1.9	30	
Anthracene	541.5	6.6	662.8	0	81.7	55-105	574.8	5.98	30	
Benzo(a)anthracene	545.1	6.6	662.8	0	82.2	50-110	577.4	5.76	30	
Benzo(a)pyrene	524.6	6.6	662.8	0	79.1	50-110	565.8	7.56	30	
Benzo(b)fluoranthene	539.8	6.6	662.8	0	81.4	45-115	584.9	8.01	30	
Benzo(k)fluoranthene	549.4	6.6	662.8	0	82.9	45-115	583.9	6.08	30	
Chrysene	534.2	6.6	662.8	0	80.6	55-110	567.4	6.03	30	
Dibenzo(a,h)anthracene	490.4	6.6	662.8	0	74	40-125	517.9	5.45	30	
Fluoranthene	554.7	6.6	662.8	0	83.7	55-115	590	6.17	30	
Fluorene	560.7	6.6	662.8	0	84.6	50-110	587.1	4.61	30	
Indeno(1,2,3-cd)pyrene	501.4	6.6	662.8	0	75.6	40-120	534.1	6.32	30	
Naphthalene	542.8	6.6	662.8	7.853	80.7	40-105	587.1	7.85	30	
Pyrene	560	6.6	662.8	1.636	84.2	45-125	594.9	6.04	30	
Surr: 2-Fluorobiphenyl	*1271*	0	*1657*	0	*76.7*	*12-100*	1249	*1.76*	*40*	
Surr: 4-Terphenyl-d14	*1252*	0	*1657*	0	*75.5*	*25-137*	1300	*3.78*	*40*	
Surr: Nitrobenzene-d5	*1336*	0	*1657*	0	*80.6*	*37-107*	1407	*5.16*	*40*	

The following samples were analyzed in this batch: 1511519-01B 1511519-02B 1511519-03B 1511519-04B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78677** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: **MBLK-78677-78677** Units: **µg/Kg** Analysis Date: **11/11/2015 01:30 AM**
Client ID: Run ID: **VMS5_151110A** SeqNo: **3559935** Prep Date: **11/10/2015** 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	*1012*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*972.5*	0	*1000*	0	*97.2*	*70-130*	0			
Surr: Dibromofluoromethane	*1010*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*996*	0	*1000*	0	*99.6*	*70-130*	0			

LCS Sample ID: **LCS-78677-78677** Units: **µg/Kg** Analysis Date: **11/11/2015 12:13 PM**
Client ID: Run ID: **VMS5_151110A** SeqNo: **3559943** Prep Date: **11/10/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	928.5	30	1000	0	92.8	75-125	0			
Ethylbenzene	916.5	30	1000	0	91.6	75-125	0			
m,p-Xylene	1851	60	2000	0	92.6	80-125	0			
o-Xylene	904	30	1000	0	90.4	75-125	0			
Toluene	906	30	1000	0	90.6	70-125	0			
Xylenes, Total	2755	90	3000	0	91.8	75-125	0			
Surr: 1,2-Dichloroethane-d4	*979.5*	0	*1000*	0	*98*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1003*	0	*1000*	0	*100*	*70-130*	0			
Surr: Dibromofluoromethane	*1011*	0	*1000*	0	*101*	*70-130*	0			
Surr: Toluene-d8	*996*	0	*1000*	0	*99.6*	*70-130*	0			

The following samples were analyzed in this batch: 1511519-01A 1511519-02A 1511519-03A 1511519-04A

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78764** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-78764-78764** Units: **s.u.** Analysis Date: **11/11/2015 05:50 PM**
Client ID: Run ID: **WETCHEM_151111U** SeqNo: **3560625** Prep Date: **11/11/2015** 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: **1511515-01B DUP** Units: **s.u.** Analysis Date: **11/11/2015 05:50 PM**
Client ID: Run ID: **WETCHEM_151111U** SeqNo: **3560632** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.48	0	0	0	0	0-0	7.48	0	20	

DUP Sample ID: **1511515-06B DUP** Units: **s.u.** Analysis Date: **11/11/2015 05:50 PM**
Client ID: Run ID: **WETCHEM_151111U** SeqNo: **3560638** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.53	0	0	0	0	0-0	7.4	1.74	20	

The following samples were analyzed in this batch: 1511519-01B 1511519-02B 1511519-03B 1511519-04B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78887** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP Sample ID: **1511519-02B DUP** Units: **mmhos/cm @25°** Analysis Date: **11/16/2015 12:15 PM**

Client ID: **PWN - Pit Bot 20-22.5'** Run ID: **WETCHEM_151116J** SeqNo: **3568724** Prep Date: **11/16/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	5.34	0.050	0	0	0		5.38	0.746	50	

The following samples were analyzed in this batch:

1511519-01B 1511519-02B 1511519-03B
1511519-04B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78973** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-78973-78973** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: Run ID: **WETCHEM_151116N** SeqNo: **3569214** Prep Date: **11/15/2015** DF: **1**

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

LCS Sample ID: **LCS-78973-78973** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: Run ID: **WETCHEM_151116N** SeqNo: **3569213** Prep Date: **11/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.92	1.0	5	0	98.4	80-120	0			

MS Sample ID: **1511515-06B MS** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: Run ID: **WETCHEM_151116N** SeqNo: **3569201** Prep Date: **11/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.375	0.96	4.808	0.4615	81.4	75-125	0			

MS Sample ID: **1511515-06B MSI** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: Run ID: **WETCHEM_151116N** SeqNo: **3569203** Prep Date: **11/15/2015** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2732	99	2836	0.4615	96.3	75-125	0			

MSD Sample ID: **1511515-06B MSD** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: Run ID: **WETCHEM_151116N** SeqNo: **3569202** Prep Date: **11/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	3.971	0.98	4.902	0.4615	71.6	75-125	4.375	9.69	20	S

The following samples were analyzed in this batch: 1511519-01B 1511519-02B 1511519-03B 1511519-04B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **R176014** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R176014** Units: **% of sample** Analysis Date: **11/11/2015 03:48 PM**
Client ID: Run ID: **MOIST_151111E** SeqNo: **3563530** 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-R176014** Units: **% of sample** Analysis Date: **11/11/2015 03:48 PM**
Client ID: Run ID: **MOIST_151111E** SeqNo: **3563529** 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: **1511519-01B DUP** Units: **% of sample** Analysis Date: **11/11/2015 03:48 PM**
Client ID: **PWN - Pit Bot 12-16'** Run ID: **MOIST_151111E** SeqNo: **3563525** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.02	0.050	0	0	0		12.3	2.3	20	

DUP Sample ID: **1511519-02B DUP** Units: **% of sample** Analysis Date: **11/11/2015 03:48 PM**
Client ID: **PWN - Pit Bot 20-22.5'** Run ID: **MOIST_151111E** SeqNo: **3563527** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	9.38	0.050	0	0	0		9.16	2.37	20	

The following samples were analyzed in this batch: 1511519-01B 1511519-02B

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

Client: LT Environmental, Inc
Work Order: 1511519
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **R176025** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R176025** Units: **% of sample** Analysis Date: **11/11/2015 04:41 PM**
Client ID: Run ID: **MOIST_151111F** SeqNo: **3562996** 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-R176025** Units: **% of sample** Analysis Date: **11/11/2015 04:41 PM**
Client ID: Run ID: **MOIST_151111F** SeqNo: **3562983** 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: **1511519-03B DUP** Units: **% of sample** Analysis Date: **11/11/2015 04:41 PM**
Client ID: **PWN - Pit Bot 01 0-4'** Run ID: **MOIST_151111F** SeqNo: **3562979** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.63	0.050	0	0	0		14.94	2.1	20	

DUP Sample ID: **1511519-04B DUP** Units: **% of sample** Analysis Date: **11/11/2015 04:41 PM**
Client ID: **PWN - Pit Bot 01 4-7'** Run ID: **MOIST_151111F** SeqNo: **3562981** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.94	0.050	0	0	0		10.76	1.66	20	

The following samples were analyzed in this batch: 1511519-03B 1511519-04B

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

CHAIN OF CUSTODY

ALS Laboratory Group

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

COC number (for client tracking): 1511519

Page 1 of 1

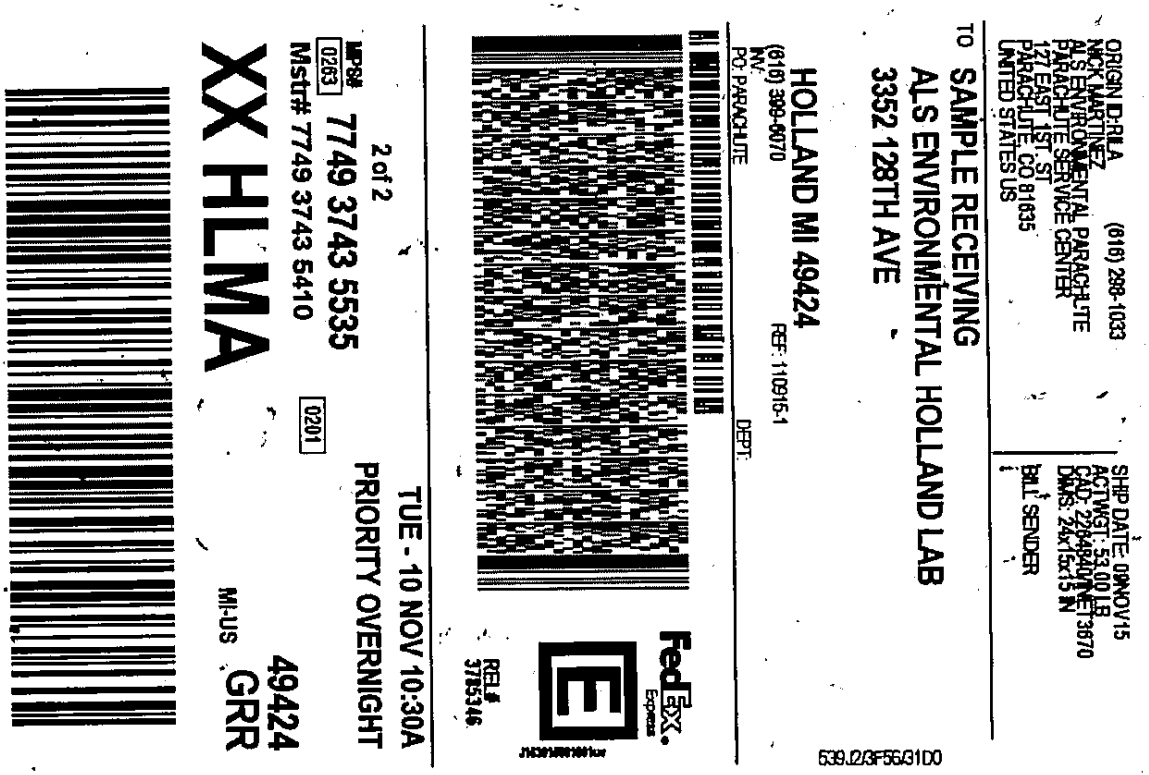
CLIENT CONTACT AND REPORTING INFORMATION	INVOICE ADDRESS (if other than reporting address)
Company Name: LT Environmental	Company Name: SAME
Project Manager: Rob Rebel	Contact Name: SAME
Address: 820 Megan Ave Unit B	Address: SAME
Rifle, CO 81650	
Phone: 970.285.9985	**PROJECT INFORMATION**
Email: rrebel@ltenv.com, cmclisson@ltenv.com, wtoews@ltenv.com	Project ID: 044715005
Sampler Name (Print): Wesley Toews	Site: Powder Wash North
SERVICE REQUEST (Express services subject to availability)	PO No:
☒ Regular (default) 5-day Standard TAT	ALS Quote No:
☐ Express (Pls specify date required _____) (express fee will apply)	

ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	Depth (ft)	SAMPLING AND CONTAINER INFO Date	Time	Tot Bottle	Matrix	BTEX	TPH GRO/DRO	Table 910-1 PAHs 8270 SIM	EC	PH	SAR	Table 910-1 Metals: As, Ba, Cd, Cr III, Cr VI, Cu, Pb, Hg, Ni, Se, Ag, Zn	Total Arsenic 6020
1	PWN-Pit Bot	12-16'	11-6-15	0850	2	S	X	X	X	X	X	X	X	X
2	PWN-Pit Bot	20-22.5	11-6-15	0905	2	S	X	X	X	X	X	X	X	X
3	PWN-Pit Bot Ø1	0-4'	11-6-15	0925	2	S	X	X	X	X	X	X	X	X
4	PWN-Pit Bot Ø1	4-7'	11-6-15	0932	2	S	X	X	X	X	X	X	X	X

CLIENT SIGNATURES	For lab use only				
Client's Signature:	Cooler Security Seal ☐ sealed ☐ broken ☐ not available	Sample Temp ☐ chilled ☐ ambient deg °C	No of Cooler Received carton / cooler box	Received by (lab)	Date and Time 11/6/15 0930
Client's Date and Time of Completion: 11-9-15			Courier Name ALS	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)

0.8°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.

0.8°C

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **LTENV** Date/Time Received: **10-Nov-15 09:30**

Work Order: **1511519** Received by: **KRW**

Checklist completed by *Keith Wierenga* eSignature 10-Nov-15 Date Reviewed by: *Chad Whelton* eSignature 10-Nov-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):	0.8/0.8 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/10/2015 1:59:02 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:

17-Nov-2015

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

Re: **Powder Wash North** Work Order: **1511515**

Dear Rob,

ALS Environmental received 10 samples on 10-Nov-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 43.

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: 17-Nov-15

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: **1511515**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1511515-01	PWN - Pit E 28-31'	Soil		11/5/2015 13:00	11/10/2015 09:30	☐
1511515-02	PWN - Pit N 16-16.5'	Soil		11/5/2015 09:45	11/10/2015 09:30	☐
1511515-03	PWN - Pit W 16-16.5'	Soil		11/5/2015 10:20	11/10/2015 09:30	☐
1511515-04	PWN - Pit S 28-31.6'	Soil		11/5/2015 11:40	11/10/2015 09:30	☐
1511515-05	PWN - Pit SE 28-32.0'	Soil		11/5/2015 14:25	11/10/2015 09:30	☐
1511515-06	PWN - Pit E01 4-7'	Soil		11/5/2015 14:53	11/10/2015 09:30	☐
1511515-07	PWN - Pit N01 4-6'	Soil		11/5/2015 15:20	11/10/2015 09:30	☐
1511515-08	PWN - Pit W01 4-8'	Soil		11/5/2015 15:40	11/10/2015 09:30	☐
1511515-09	PWN - Pit W01 8-9.5'	Soil		11/5/2015 15:45	11/10/2015 09:30	☐
1511515-10	PWN - Pit S01 4-7'	Soil		11/5/2015 16:05	11/10/2015 09:30	☐

ALS Group USA, Corp

Date: 17-Nov-15

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515

Case Narrative

Batch 78723, Method 6010, ICP; Sample 1511515-01B: The MS and MSD recoveries were above the upper control limit for Chrome. The corresponding result in the parent sample may be biased high for this analyte.

Batch 78723, Method 6010, ICP; Sample 1511515-01B: The MS and MSD recoveries were below the lower control limit for Arsenic. The corresponding result in the parent sample may be biased low for this analyte.

Batch 78723, Method 6010, ICP; Sample 1511515-01B: The MS and MSD recoveries were outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Barium and Zinc

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit E 28-31'
Lab ID: 1511515-01
Collection Date: 11/5/2015 01:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	ND		4.6	mg/Kg-dry	1	11/13/2015 06:46 PM
Surr: 4-Terphenyl-d14	*71.1*		*39-133*	*%REC*	1	11/13/2015 06:46 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	11/11/2015 03:31 PM
Surr: Toluene-d8	*100*		*50-150*	*%REC*	1	11/11/2015 03:31 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	ND		0.014	mg/Kg-dry	1	11/13/2015 06:16 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**9.7**		**0.45**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
Barium	**43**		**0.45**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
Cadmium	**1.4**		**0.90**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
Chromium	**9.1**		**0.45**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
Copper	**9.0**		**0.90**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
Lead	**25**		**0.45**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
Nickel	**16**		**0.45**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
Selenium	**1.8**		**0.90**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
Silver	ND		0.45	mg/Kg-dry	1	11/13/2015 03:10 PM
Zinc	**71**		**0.90**	**mg/Kg-dry**	1	11/13/2015 03:10 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**190**		**5.0**	**mg/L**	10	11/17/2015 06:24 AM
Magnesium	**48**		**2.0**	**mg/L**	10	11/17/2015 06:24 AM
Sodium	**290**		**2.0**	**mg/L**	10	11/17/2015 06:24 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**4.9**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Benzo(a)anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Benzo(a)pyrene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Benzo(b)fluoranthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Benzo(k)fluoranthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Chrysene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Dibenzo(a,h)anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Fluoranthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit E 28-31'
Lab ID: 1511515-01
Collection Date: 11/5/2015 01:00 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Indeno(1,2,3-cd)pyrene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Naphthalene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Pyrene	ND		0.0074	mg/Kg-dry	1	11/14/2015 08:49 PM
Surr: 2-Fluorobiphenyl	*78.2*		*12-100*	*%REC*	1	11/14/2015 08:49 PM
Surr: 4-Terphenyl-d14	*81.0*		*25-137*	*%REC*	1	11/14/2015 08:49 PM
Surr: Nitrobenzene-d5	*77.1*		*37-107*	*%REC*	1	11/14/2015 08:49 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **BG**
Benzene	**0.072**		**0.034**	**mg/Kg-dry**	1	11/14/2015 07:26 AM
Ethylbenzene	ND		0.034	mg/Kg-dry	1	11/14/2015 07:26 AM
m,p-Xylene	ND		0.068	mg/Kg-dry	1	11/14/2015 07:26 AM
o-Xylene	ND		0.034	mg/Kg-dry	1	11/14/2015 07:26 AM
Toluene	**0.16**		**0.034**	**mg/Kg-dry**	1	11/14/2015 07:26 AM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	11/14/2015 07:26 AM
Surr: 1,2-Dichloroethane-d4	*100*		*70-130*	*%REC*	1	11/14/2015 07:26 AM
Surr: 4-Bromofluorobenzene	*105*		*70-130*	*%REC*	1	11/14/2015 07:26 AM
Surr: Dibromofluoromethane	*95.0*		*70-130*	*%REC*	1	11/14/2015 07:26 AM
Surr: Toluene-d8	*96.2*		*70-130*	*%REC*	1	11/14/2015 07:26 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**3.7**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**9.1**		**0.57**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**12**		**0.050**	**% of sample**	1	11/11/2015 01:40 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.5**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit N 16-16.5'
Lab ID: 1511515-02
Collection Date: 11/5/2015 09:45 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	ND		4.6	mg/Kg-dry	1	11/13/2015 10:23 PM
Surr: 4-Terphenyl-d14	*63.6*		*39-133*	*%REC*	1	11/13/2015 10:23 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	11/11/2015 03:55 PM
Surr: Toluene-d8	*101*		*50-150*	*%REC*	1	11/11/2015 03:55 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	ND		0.015	mg/Kg-dry	1	11/13/2015 06:18 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**2.3**		**0.41**	**mg/Kg-dry**	1	11/15/2015 05:10 PM
Barium	**47**		**0.41**	**mg/Kg-dry**	1	11/14/2015 01:14 AM
Cadmium	ND		0.81	mg/Kg-dry	1	11/15/2015 05:10 PM
Chromium	**13**		**0.41**	**mg/Kg-dry**	1	11/14/2015 01:14 AM
Copper	**12**		**0.81**	**mg/Kg-dry**	1	11/14/2015 01:14 AM
Lead	**9.9**		**0.41**	**mg/Kg-dry**	1	11/15/2015 05:10 PM
Nickel	**8.5**		**0.41**	**mg/Kg-dry**	1	11/15/2015 05:10 PM
Selenium	**1.1**		**0.81**	**mg/Kg-dry**	1	11/15/2015 05:10 PM
Silver	ND		0.41	mg/Kg-dry	1	11/15/2015 05:10 PM
Zinc	**39**		**0.81**	**mg/Kg-dry**	1	11/15/2015 05:10 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**190**		**5.0**	**mg/L**	10	11/17/2015 06:30 AM
Magnesium	**50**		**2.0**	**mg/L**	10	11/17/2015 06:30 AM
Sodium	**340**		**2.0**	**mg/L**	10	11/17/2015 06:30 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**5.7**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Anthracene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Benzo(a)anthracene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Benzo(a)pyrene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Benzo(b)fluoranthene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Benzo(k)fluoranthene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Chrysene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Dibenzo(a,h)anthracene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Fluoranthene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit N 16-16.5'
Lab ID: 1511515-02
Collection Date: 11/5/2015 09:45 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Indeno(1,2,3-cd)pyrene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Naphthalene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Pyrene	ND		0.0073	mg/Kg-dry	1	11/14/2015 09:12 PM
Surr: 2-Fluorobiphenyl	*72.2*		*12-100*	*%REC*	1	11/14/2015 09:12 PM
Surr: 4-Terphenyl-d14	*73.2*		*25-137*	*%REC*	1	11/14/2015 09:12 PM
Surr: Nitrobenzene-d5	*70.3*		*37-107*	*%REC*	1	11/14/2015 09:12 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **BG**
Benzene	ND		0.034	mg/Kg-dry	1	11/14/2015 07:51 AM
Ethylbenzene	ND		0.034	mg/Kg-dry	1	11/14/2015 07:51 AM
m,p-Xylene	ND		0.068	mg/Kg-dry	1	11/14/2015 07:51 AM
o-Xylene	ND		0.034	mg/Kg-dry	1	11/14/2015 07:51 AM
Toluene	**0.096**		**0.034**	**mg/Kg-dry**	1	11/14/2015 07:51 AM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	11/14/2015 07:51 AM
Surr: 1,2-Dichloroethane-d4	*102*		*70-130*	*%REC*	1	11/14/2015 07:51 AM
Surr: 4-Bromofluorobenzene	*102*		*70-130*	*%REC*	1	11/14/2015 07:51 AM
Surr: Dibromofluoromethane	*97.5*		*70-130*	*%REC*	1	11/14/2015 07:51 AM
Surr: Toluene-d8	*94.8*		*70-130*	*%REC*	1	11/14/2015 07:51 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**3.6**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**13**		**0.57**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**12**		**0.050**	**% of sample**	1	11/11/2015 01:40 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**8.1**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit W 16-16.5'
Lab ID: 1511515-03
Collection Date: 11/5/2015 10:20 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	ND		4.6	mg/Kg-dry	1	11/13/2015 10:50 PM
Surr: 4-Terphenyl-d14	*69.0*		*39-133*	*%REC*	1	11/13/2015 10:50 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	11/11/2015 04:20 PM
Surr: Toluene-d8	*94.7*		*50-150*	*%REC*	1	11/11/2015 04:20 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	**0.024**		**0.014**	**mg/Kg-dry**	1	11/13/2015 06:28 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**2.9**		**0.41**	**mg/Kg-dry**	1	11/15/2015 05:15 PM
Barium	**45**		**0.41**	**mg/Kg-dry**	1	11/14/2015 01:19 AM
Cadmium	**0.83**		**0.82**	**mg/Kg-dry**	1	11/15/2015 05:15 PM
Chromium	**19**		**0.41**	**mg/Kg-dry**	1	11/14/2015 01:19 AM
Copper	**19**		**0.82**	**mg/Kg-dry**	1	11/14/2015 01:19 AM
Lead	**12**		**0.41**	**mg/Kg-dry**	1	11/15/2015 05:15 PM
Nickel	**18**		**0.41**	**mg/Kg-dry**	1	11/15/2015 05:15 PM
Selenium	ND		0.82	mg/Kg-dry	1	11/15/2015 05:15 PM
Silver	ND		0.41	mg/Kg-dry	1	11/15/2015 05:15 PM
Zinc	**84**		**0.82**	**mg/Kg-dry**	1	11/15/2015 05:15 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**660**		**5.0**	**mg/L**	10	11/17/2015 06:35 AM
Magnesium	**180**		**2.0**	**mg/L**	10	11/17/2015 06:35 AM
Sodium	**500**		**2.0**	**mg/L**	10	11/17/2015 06:35 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**4.4**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Benzo(a)anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Benzo(a)pyrene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Benzo(b)fluoranthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Benzo(k)fluoranthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Chrysene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Dibenzo(a,h)anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Fluoranthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit W 16-16.5'
Lab ID: 1511515-03
Collection Date: 11/5/2015 10:20 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Indeno(1,2,3-cd)pyrene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Naphthalene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Pyrene	ND		0.0074	mg/Kg-dry	1	11/14/2015 09:35 PM
Surr: 2-Fluorobiphenyl	*78.3*		*12-100*	*%REC*	1	11/14/2015 09:35 PM
Surr: 4-Terphenyl-d14	*83.5*		*25-137*	*%REC*	1	11/14/2015 09:35 PM
Surr: Nitrobenzene-d5	*76.8*		*37-107*	*%REC*	1	11/14/2015 09:35 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **BG**
Benzene	ND		0.035	mg/Kg-dry	1	11/14/2015 08:16 AM
Ethylbenzene	ND		0.035	mg/Kg-dry	1	11/14/2015 08:16 AM
m,p-Xylene	ND		0.069	mg/Kg-dry	1	11/14/2015 08:16 AM
o-Xylene	ND		0.035	mg/Kg-dry	1	11/14/2015 08:16 AM
Toluene	**0.16**		**0.035**	**mg/Kg-dry**	1	11/14/2015 08:16 AM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	11/14/2015 08:16 AM
Surr: 1,2-Dichloroethane-d4	*103*		*70-130*	*%REC*	1	11/14/2015 08:16 AM
Surr: 4-Bromofluorobenzene	*98.3*		*70-130*	*%REC*	1	11/14/2015 08:16 AM
Surr: Dibromofluoromethane	*97.6*		*70-130*	*%REC*	1	11/14/2015 08:16 AM
Surr: Toluene-d8	*94.8*		*70-130*	*%REC*	1	11/14/2015 08:16 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**7.5**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**19**		**0.58**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**13**		**0.050**	**% of sample**	1	11/11/2015 01:40 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.6**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit S 28-31.6'
Lab ID: 1511515-04
Collection Date: 11/5/2015 11:40 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	**230**		**4.7**	**mg/Kg-dry**	1	11/13/2015 11:17 PM
Surr: 4-Terphenyl-d14	*72.3*		*39-133*	*%REC*	1	11/13/2015 11:17 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	**1,400**		**2.9**	**mg/Kg-dry**	1	11/11/2015 07:12 PM
Surr: Toluene-d8	*97.7*		*50-150*	*%REC*	1	11/11/2015 07:12 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	ND		0.015	mg/Kg-dry	1	11/13/2015 06:30 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**4.0**		**0.37**	**mg/Kg-dry**	1	11/15/2015 05:20 PM
Barium	**49**		**0.37**	**mg/Kg-dry**	1	11/14/2015 01:25 AM
Cadmium	ND		0.74	mg/Kg-dry	1	11/15/2015 05:20 PM
Chromium	**13**		**0.37**	**mg/Kg-dry**	1	11/14/2015 01:25 AM
Copper	**13**		**0.74**	**mg/Kg-dry**	1	11/14/2015 01:25 AM
Lead	**17**		**0.37**	**mg/Kg-dry**	1	11/15/2015 05:20 PM
Nickel	**12**		**0.37**	**mg/Kg-dry**	1	11/15/2015 05:20 PM
Selenium	**1.3**		**0.74**	**mg/Kg-dry**	1	11/15/2015 05:20 PM
Silver	ND		0.37	mg/Kg-dry	1	11/15/2015 05:20 PM
Zinc	**75**		**0.74**	**mg/Kg-dry**	1	11/15/2015 05:20 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**310**		**5.0**	**mg/L**	10	11/17/2015 06:41 AM
Magnesium	**86**		**2.0**	**mg/L**	10	11/17/2015 06:41 AM
Sodium	**310**		**2.0**	**mg/L**	10	11/17/2015 06:41 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**4.0**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Benzo(a)anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Benzo(a)pyrene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Benzo(b)fluoranthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Benzo(k)fluoranthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Chrysene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Dibenzo(a,h)anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Fluoranthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM

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

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit S 28-31.6'
Lab ID: 1511515-04
Collection Date: 11/5/2015 11:40 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Indeno(1,2,3-cd)pyrene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Naphthalene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Pyrene	ND		0.0075	mg/Kg-dry	1	11/14/2015 09:58 PM
Surr: 2-Fluorobiphenyl	*82.7*		*12-100*	*%REC*	1	11/14/2015 09:58 PM
Surr: 4-Terphenyl-d14	*87.3*		*25-137*	*%REC*	1	11/14/2015 09:58 PM
Surr: Nitrobenzene-d5	*79.2*		*37-107*	*%REC*	1	11/14/2015 09:58 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **BG**
Benzene	**1.8**		**0.035**	**mg/Kg-dry**	1	11/14/2015 08:41 AM
Ethylbenzene	**3.8**		**0.035**	**mg/Kg-dry**	1	11/14/2015 08:41 AM
m,p-Xylene	**25**		**1.4**	**mg/Kg-dry**	20	11/16/2015 04:59 PM
o-Xylene	**5.3**		**0.035**	**mg/Kg-dry**	1	11/14/2015 08:41 AM
Toluene	**24**		**0.69**	**mg/Kg-dry**	20	11/16/2015 04:59 PM
Xylenes, Total	**30**		**2.1**	**mg/Kg-dry**	20	11/16/2015 04:59 PM
Surr: 1,2-Dichloroethane-d4	*102*		*70-130*	*%REC*	1	11/14/2015 08:41 AM
Surr: 1,2-Dichloroethane-d4	*96.2*		*70-130*	*%REC*	20	11/16/2015 04:59 PM
Surr: 4-Bromofluorobenzene	*99.0*		*70-130*	*%REC*	20	11/16/2015 04:59 PM
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	1	11/14/2015 08:41 AM
Surr: Dibromofluoromethane	*96.0*		*70-130*	*%REC*	1	11/14/2015 08:41 AM
Surr: Dibromofluoromethane	*94.5*		*70-130*	*%REC*	20	11/16/2015 04:59 PM
Surr: Toluene-d8	*101*		*70-130*	*%REC*	20	11/16/2015 04:59 PM
Surr: Toluene-d8	*174*	S	*70-130*	*%REC*	1	11/14/2015 08:41 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**4.2**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**13**		**0.58**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**13**		**0.050**	**% of sample**	1	11/11/2015 01:40 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**5.6**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit SE 28-32.0'
Lab ID: 1511515-05
Collection Date: 11/5/2015 02:25 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	ND		4.5	mg/Kg-dry	1	11/13/2015 11:44 PM
Surr: 4-Terphenyl-d14	*72.4*		*39-133*	*%REC*	1	11/13/2015 11:44 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	ND		2.8	mg/Kg-dry	1	11/11/2015 07:37 PM
Surr: Toluene-d8	*91.0*		*50-150*	*%REC*	1	11/11/2015 07:37 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	ND		0.014	mg/Kg-dry	1	11/13/2015 06:32 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**7.5**		**0.44**	**mg/Kg-dry**	1	11/15/2015 05:26 PM
Barium	**80**		**0.44**	**mg/Kg-dry**	1	11/14/2015 01:30 AM
Cadmium	ND		0.88	mg/Kg-dry	1	11/15/2015 05:26 PM
Chromium	**19**		**0.44**	**mg/Kg-dry**	1	11/14/2015 01:30 AM
Copper	**19**		**0.88**	**mg/Kg-dry**	1	11/14/2015 01:30 AM
Lead	**13**		**0.44**	**mg/Kg-dry**	1	11/15/2015 05:26 PM
Nickel	**14**		**0.44**	**mg/Kg-dry**	1	11/15/2015 05:26 PM
Selenium	**1.1**		**0.88**	**mg/Kg-dry**	1	11/15/2015 05:26 PM
Silver	ND		0.44	mg/Kg-dry	1	11/15/2015 05:26 PM
Zinc	**56**		**0.88**	**mg/Kg-dry**	1	11/15/2015 05:26 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**130**		**5.0**	**mg/L**	10	11/17/2015 06:47 AM
Magnesium	**33**		**2.0**	**mg/L**	10	11/17/2015 06:47 AM
Sodium	**140**		**2.0**	**mg/L**	10	11/17/2015 06:47 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**2.9**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Anthracene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Benzo(a)anthracene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Benzo(a)pyrene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Benzo(b)fluoranthene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Benzo(k)fluoranthene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Chrysene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Dibenzo(a,h)anthracene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Fluoranthene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit SE 28-32.0'
Lab ID: 1511515-05
Collection Date: 11/5/2015 02:25 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Indeno(1,2,3-cd)pyrene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Naphthalene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Pyrene	ND		0.0073	mg/Kg-dry	1	11/14/2015 10:21 PM
Surr: 2-Fluorobiphenyl	*79.8*		*12-100*	*%REC*	1	11/14/2015 10:21 PM
Surr: 4-Terphenyl-d14	*91.5*		*25-137*	*%REC*	1	11/14/2015 10:21 PM
Surr: Nitrobenzene-d5	*79.5*		*37-107*	*%REC*	1	11/14/2015 10:21 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **WH**
Benzene	ND		0.033	mg/Kg-dry	1	11/16/2015 04:10 PM
Ethylbenzene	ND		0.033	mg/Kg-dry	1	11/16/2015 04:10 PM
m,p-Xylene	ND		0.067	mg/Kg-dry	1	11/16/2015 04:10 PM
o-Xylene	ND		0.033	mg/Kg-dry	1	11/16/2015 04:10 PM
Toluene	**0.060**		**0.033**	**mg/Kg-dry**	1	11/16/2015 04:10 PM
Xylenes, Total	ND		0.10	mg/Kg-dry	1	11/16/2015 04:10 PM
Surr: 1,2-Dichloroethane-d4	*99.1*		*70-130*	*%REC*	1	11/16/2015 04:10 PM
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	1	11/16/2015 04:10 PM
Surr: Dibromofluoromethane	*94.1*		*70-130*	*%REC*	1	11/16/2015 04:10 PM
Surr: Toluene-d8	*98.2*		*70-130*	*%REC*	1	11/16/2015 04:10 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**1.9**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**19**		**0.56**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**10**		**0.050**	**% of sample**	1	11/11/2015 01:40 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.7**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit E01 4-7'
Lab ID: 1511515-06
Collection Date: 11/5/2015 02:53 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	**960**		**4.7**	**mg/Kg-dry**	1	11/14/2015 12:38 PM
Surr: 4-Terphenyl-d14	*62.4*		*39-133*	*%REC*	1	11/14/2015 12:38 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	**1,400**		**2.8**	**mg/Kg-dry**	1	11/11/2015 08:02 PM
Surr: Toluene-d8	*101*		*50-150*	*%REC*	1	11/11/2015 08:02 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	**0.017**		**0.015**	**mg/Kg-dry**	1	11/13/2015 06:35 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**12**		**0.42**	**mg/Kg-dry**	1	11/15/2015 05:31 PM
Barium	**160**		**0.42**	**mg/Kg-dry**	1	11/14/2015 01:36 AM
Cadmium	ND		0.83	mg/Kg-dry	1	11/15/2015 05:31 PM
Chromium	**17**		**0.42**	**mg/Kg-dry**	1	11/14/2015 01:36 AM
Copper	**14**		**0.83**	**mg/Kg-dry**	1	11/14/2015 01:36 AM
Lead	**15**		**0.42**	**mg/Kg-dry**	1	11/15/2015 05:31 PM
Nickel	**5.2**		**0.42**	**mg/Kg-dry**	1	11/15/2015 05:31 PM
Selenium	**1.2**		**0.83**	**mg/Kg-dry**	1	11/15/2015 05:31 PM
Silver	ND		0.42	mg/Kg-dry	1	11/15/2015 05:31 PM
Zinc	**27**		**0.83**	**mg/Kg-dry**	1	11/15/2015 05:31 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**700**		**5.0**	**mg/L**	10	11/17/2015 06:52 AM
Magnesium	**170**		**2.0**	**mg/L**	10	11/17/2015 06:52 AM
Sodium	**380**		**2.0**	**mg/L**	10	11/17/2015 06:52 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**3.4**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Benzo(a)anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Benzo(a)pyrene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Benzo(b)fluoranthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Benzo(k)fluoranthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Chrysene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Dibenzo(a,h)anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Fluoranthene	**0.0079**		**0.0075**	**mg/Kg-dry**	1	11/14/2015 10:44 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit E01 4-7'
Lab ID: 1511515-06
Collection Date: 11/5/2015 02:53 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	**0.0098**		**0.0075**	**mg/Kg-dry**	1	11/14/2015 10:44 PM
Indeno(1,2,3-cd)pyrene	ND		0.0075	mg/Kg-dry	1	11/14/2015 10:44 PM
Naphthalene	**0.28**		**0.0075**	**mg/Kg-dry**	1	11/14/2015 10:44 PM
Pyrene	**0.0090**		**0.0075**	**mg/Kg-dry**	1	11/14/2015 10:44 PM
Surr: 2-Fluorobiphenyl	*35.4*		*12-100*	*%REC*	1	11/14/2015 10:44 PM
Surr: 4-Terphenyl-d14	*88.3*		*25-137*	*%REC*	1	11/14/2015 10:44 PM
Surr: Nitrobenzene-d5	*70.6*		*37-107*	*%REC*	1	11/14/2015 10:44 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **BG**
Benzene	**0.30**		**0.034**	**mg/Kg-dry**	1	11/14/2015 09:32 AM
Ethylbenzene	**6.0**		**0.34**	**mg/Kg-dry**	10	11/16/2015 05:23 PM
m,p-Xylene	**32**		**0.68**	**mg/Kg-dry**	10	11/16/2015 05:23 PM
o-Xylene	**9.3**		**0.34**	**mg/Kg-dry**	10	11/16/2015 05:23 PM
Toluene	**7.9**		**0.34**	**mg/Kg-dry**	10	11/16/2015 05:23 PM
Xylenes, Total	**41**		**1.0**	**mg/Kg-dry**	10	11/16/2015 05:23 PM
Surr: 1,2-Dichloroethane-d4	*103*		*70-130*	*%REC*	1	11/14/2015 09:32 AM
Surr: 1,2-Dichloroethane-d4	*99.5*		*70-130*	*%REC*	10	11/16/2015 05:23 PM
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	10	11/16/2015 05:23 PM
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	1	11/14/2015 09:32 AM
Surr: Dibromofluoromethane	*98.2*		*70-130*	*%REC*	1	11/14/2015 09:32 AM
Surr: Dibromofluoromethane	*98.5*		*70-130*	*%REC*	10	11/16/2015 05:23 PM
Surr: Toluene-d8	*103*		*70-130*	*%REC*	10	11/16/2015 05:23 PM
Surr: Toluene-d8	*176*	S	*70-130*	*%REC*	1	11/14/2015 09:32 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**6.5**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**16**		**0.57**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**12**		**0.050**	**% of sample**	1	11/11/2015 01:40 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.4**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit N01 4-6'
Lab ID: 1511515-07
Collection Date: 11/5/2015 03:20 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	**6.1**		**4.8**	**mg/Kg-dry**	1	11/14/2015 01:05 AM
Surr: 4-Terphenyl-d14	*61.9*		*39-133*	*%REC*	1	11/14/2015 01:05 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	ND		2.9	mg/Kg-dry	1	11/11/2015 08:26 PM
Surr: Toluene-d8	*103*		*50-150*	*%REC*	1	11/11/2015 08:26 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	**0.027**		**0.015**	**mg/Kg-dry**	1	11/13/2015 06:37 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**4.3**		**0.45**	**mg/Kg-dry**	1	11/15/2015 05:36 PM
Barium	**82**		**0.45**	**mg/Kg-dry**	1	11/14/2015 01:41 AM
Cadmium	**3.2**		**0.91**	**mg/Kg-dry**	1	11/15/2015 05:36 PM
Chromium	**17**		**0.45**	**mg/Kg-dry**	1	11/14/2015 01:41 AM
Copper	**33**		**0.91**	**mg/Kg-dry**	1	11/14/2015 01:41 AM
Lead	**9.8**		**0.45**	**mg/Kg-dry**	1	11/15/2015 05:36 PM
Nickel	**73**		**0.45**	**mg/Kg-dry**	1	11/15/2015 05:36 PM
Selenium	**1.2**		**0.91**	**mg/Kg-dry**	1	11/15/2015 05:36 PM
Silver	ND		0.45	mg/Kg-dry	1	11/15/2015 05:36 PM
Zinc	**240**		**0.91**	**mg/Kg-dry**	1	11/15/2015 05:36 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**1,400**		**5.0**	**mg/L**	10	11/17/2015 07:20 AM
Magnesium	**440**		**2.0**	**mg/L**	10	11/17/2015 07:20 AM
Sodium	**680**		**2.0**	**mg/L**	10	11/17/2015 07:20 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**4.0**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Anthracene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Benzo(a)anthracene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Benzo(a)pyrene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Benzo(b)fluoranthene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Benzo(k)fluoranthene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Chrysene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Dibenzo(a,h)anthracene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Fluoranthene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit N01 4-6'
Lab ID: 1511515-07
Collection Date: 11/5/2015 03:20 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Indeno(1,2,3-cd)pyrene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Naphthalene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Pyrene	ND		0.0077	mg/Kg-dry	1	11/14/2015 11:07 PM
Surr: 2-Fluorobiphenyl	*74.0*		*12-100*	*%REC*	1	11/14/2015 11:07 PM
Surr: 4-Terphenyl-d14	*76.0*		*25-137*	*%REC*	1	11/14/2015 11:07 PM
Surr: Nitrobenzene-d5	*73.8*		*37-107*	*%REC*	1	11/14/2015 11:07 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **WH**
Benzene	**0.048**		**0.035**	**mg/Kg-dry**	1	11/16/2015 04:35 PM
Ethylbenzene	ND		0.035	mg/Kg-dry	1	11/16/2015 04:35 PM
m,p-Xylene	ND		0.070	mg/Kg-dry	1	11/16/2015 04:35 PM
o-Xylene	ND		0.035	mg/Kg-dry	1	11/16/2015 04:35 PM
Toluene	**0.24**		**0.035**	**mg/Kg-dry**	1	11/16/2015 04:35 PM
Xylenes, Total	ND		0.11	mg/Kg-dry	1	11/16/2015 04:35 PM
Surr: 1,2-Dichloroethane-d4	*99.6*		*70-130*	*%REC*	1	11/16/2015 04:35 PM
Surr: 4-Bromofluorobenzene	*105*		*70-130*	*%REC*	1	11/16/2015 04:35 PM
Surr: Dibromofluoromethane	*95.6*		*70-130*	*%REC*	1	11/16/2015 04:35 PM
Surr: Toluene-d8	*97.8*		*70-130*	*%REC*	1	11/16/2015 04:35 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**13**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**17**		**0.58**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**14**		**0.050**	**% of sample**	1	11/11/2015 04:41 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.8**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit W01 4-8'
Lab ID: 1511515-08
Collection Date: 11/5/2015 03:40 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	**760**		**4.6**	**mg/Kg-dry**	1	11/14/2015 01:32 AM
Surr: 4-Terphenyl-d14	*54.3*		*39-133*	*%REC*	1	11/14/2015 01:32 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	**290**		**2.8**	**mg/Kg-dry**	1	11/11/2015 08:51 PM
Surr: Toluene-d8	*101*		*50-150*	*%REC*	1	11/11/2015 08:51 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	**0.016**		**0.014**	**mg/Kg-dry**	1	11/13/2015 06:39 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**2.1**		**0.40**	**mg/Kg-dry**	1	11/15/2015 05:42 PM
Barium	**300**		**0.40**	**mg/Kg-dry**	1	11/14/2015 01:46 AM
Cadmium	**1.7**		**0.81**	**mg/Kg-dry**	1	11/15/2015 05:42 PM
Chromium	**16**		**0.40**	**mg/Kg-dry**	1	11/14/2015 01:46 AM
Copper	**37**		**0.81**	**mg/Kg-dry**	1	11/14/2015 01:46 AM
Lead	**15**		**0.40**	**mg/Kg-dry**	1	11/15/2015 05:42 PM
Nickel	**50**		**0.40**	**mg/Kg-dry**	1	11/15/2015 05:42 PM
Selenium	**0.95**		**0.81**	**mg/Kg-dry**	1	11/15/2015 05:42 PM
Silver	ND		0.40	mg/Kg-dry	1	11/15/2015 05:42 PM
Zinc	**140**		**0.81**	**mg/Kg-dry**	1	11/15/2015 05:42 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**2,200**		**5.0**	**mg/L**	10	11/17/2015 07:26 AM
Magnesium	**390**		**2.0**	**mg/L**	10	11/17/2015 07:26 AM
Sodium	**450**		**2.0**	**mg/L**	10	11/17/2015 07:26 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**2.3**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Benzo(a)anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Benzo(a)pyrene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Benzo(b)fluoranthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Benzo(k)fluoranthene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Chrysene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Dibenzo(a,h)anthracene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Fluoranthene	**0.0085**		**0.0074**	**mg/Kg-dry**	1	11/14/2015 11:30 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit W01 4-8'
Lab ID: 1511515-08
Collection Date: 11/5/2015 03:40 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Indeno(1,2,3-cd)pyrene	ND		0.0074	mg/Kg-dry	1	11/14/2015 11:30 PM
Naphthalene	**0.11**		**0.0074**	**mg/Kg-dry**	1	11/14/2015 11:30 PM
Pyrene	**0.0078**		**0.0074**	**mg/Kg-dry**	1	11/14/2015 11:30 PM
Surr: 2-Fluorobiphenyl	*80.1*		*12-100*	*%REC*	1	11/14/2015 11:30 PM
Surr: 4-Terphenyl-d14	*83.6*		*25-137*	*%REC*	1	11/14/2015 11:30 PM
Surr: Nitrobenzene-d5	*71.5*		*37-107*	*%REC*	1	11/14/2015 11:30 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **BG**
Benzene	**0.084**		**0.034**	**mg/Kg-dry**	1	11/14/2015 10:24 AM
Ethylbenzene	**1.1**		**0.034**	**mg/Kg-dry**	1	11/14/2015 10:24 AM
m,p-Xylene	**5.4**		**0.068**	**mg/Kg-dry**	1	11/14/2015 10:24 AM
o-Xylene	**2.0**		**0.034**	**mg/Kg-dry**	1	11/14/2015 10:24 AM
Toluene	**2.3**		**0.034**	**mg/Kg-dry**	1	11/14/2015 10:24 AM
Xylenes, Total	**7.4**		**0.10**	**mg/Kg-dry**	1	11/14/2015 10:24 AM
Surr: 1,2-Dichloroethane-d4	*99.6*		*70-130*	*%REC*	1	11/14/2015 10:24 AM
Surr: 4-Bromofluorobenzene	*105*		*70-130*	*%REC*	1	11/14/2015 10:24 AM
Surr: Dibromofluoromethane	*96.2*		*70-130*	*%REC*	1	11/14/2015 10:24 AM
Surr: Toluene-d8	*108*		*70-130*	*%REC*	1	11/14/2015 10:24 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**15**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**16**		**0.57**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**12**		**0.050**	**% of sample**	1	11/11/2015 04:41 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.5**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit W01 8-9.5'
Lab ID: 1511515-09
Collection Date: 11/5/2015 03:45 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	**10**		**4.7**	**mg/Kg-dry**	1	11/14/2015 07:24 PM
Surr: 4-Terphenyl-d14	*60.9*		*39-133*	*%REC*	1	11/14/2015 07:24 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	**78**		**2.9**	**mg/Kg-dry**	1	11/11/2015 09:16 PM
Surr: Toluene-d8	*107*		*50-150*	*%REC*	1	11/11/2015 09:16 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	**0.16**		**0.015**	**mg/Kg-dry**	1	11/13/2015 06:42 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**2.4**		**0.45**	**mg/Kg-dry**	1	11/15/2015 05:47 PM
Barium	**52**		**0.45**	**mg/Kg-dry**	1	11/14/2015 01:52 AM
Cadmium	ND		0.89	mg/Kg-dry	1	11/15/2015 05:47 PM
Chromium	**24**		**0.45**	**mg/Kg-dry**	1	11/14/2015 01:52 AM
Copper	**32**		**0.89**	**mg/Kg-dry**	1	11/14/2015 01:52 AM
Lead	**14**		**0.45**	**mg/Kg-dry**	1	11/15/2015 05:47 PM
Nickel	**23**		**0.45**	**mg/Kg-dry**	1	11/15/2015 05:47 PM
Selenium	ND		0.89	mg/Kg-dry	1	11/15/2015 05:47 PM
Silver	ND		0.45	mg/Kg-dry	1	11/15/2015 05:47 PM
Zinc	**120**		**0.89**	**mg/Kg-dry**	1	11/15/2015 05:47 PM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**1,200**		**5.0**	**mg/L**	10	11/17/2015 07:32 AM
Magnesium	**250**		**2.0**	**mg/L**	10	11/17/2015 07:32 AM
Sodium	**450**		**2.0**	**mg/L**	10	11/17/2015 07:32 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**3.1**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Benzo(a)anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Benzo(a)pyrene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Benzo(b)fluoranthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Benzo(k)fluoranthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Chrysene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Dibenzo(a,h)anthracene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Fluoranthene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit W01 8-9.5'
Lab ID: 1511515-09
Collection Date: 11/5/2015 03:45 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Indeno(1,2,3-cd)pyrene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Naphthalene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Pyrene	ND		0.0075	mg/Kg-dry	1	11/14/2015 11:53 PM
Surr: 2-Fluorobiphenyl	*60.5*		*12-100*	*%REC*	1	11/14/2015 11:53 PM
Surr: 4-Terphenyl-d14	*84.9*		*25-137*	*%REC*	1	11/14/2015 11:53 PM
Surr: Nitrobenzene-d5	*56.9*		*37-107*	*%REC*	1	11/14/2015 11:53 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **BG**
Benzene	**0.12**		**0.035**	**mg/Kg-dry**	1	11/14/2015 10:48 AM
Ethylbenzene	**0.085**		**0.035**	**mg/Kg-dry**	1	11/14/2015 10:48 AM
m,p-Xylene	**0.36**		**0.070**	**mg/Kg-dry**	1	11/14/2015 10:48 AM
o-Xylene	**0.12**		**0.035**	**mg/Kg-dry**	1	11/14/2015 10:48 AM
Toluene	**0.53**		**0.035**	**mg/Kg-dry**	1	11/14/2015 10:48 AM
Xylenes, Total	**0.49**		**0.10**	**mg/Kg-dry**	1	11/14/2015 10:48 AM
Surr: 1,2-Dichloroethane-d4	*100*		*70-130*	*%REC*	1	11/14/2015 10:48 AM
Surr: 4-Bromofluorobenzene	*102*		*70-130*	*%REC*	1	11/14/2015 10:48 AM
Surr: Dibromofluoromethane	*96.8*		*70-130*	*%REC*	1	11/14/2015 10:48 AM
Surr: Toluene-d8	*97.4*		*70-130*	*%REC*	1	11/14/2015 10:48 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**9.4**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**24**		**0.58**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.1	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**14**		**0.050**	**% of sample**	1	11/11/2015 04:41 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.7**			**s.u.**	1	11/11/2015 05:50 PM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit S01 4-7'
Lab ID: 1511515-10
Collection Date: 11/5/2015 04:05 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**		Prep: SW3541 / 11/11/15	Analyst: **IT**
DRO (C10-C28)	**38**		**22**	**mg/Kg-dry**	5	11/14/2015 07:51 PM
Surr: 4-Terphenyl-d14	*95.4*		*39-133*	*%REC*	5	11/14/2015 07:51 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**		Prep: SW5035 / 11/11/15	Analyst: **IT**
GRO (C6-C10)	ND		2.7	mg/Kg-dry	1	11/12/2015 12:16 PM
Surr: Toluene-d8	*113*		*50-150*	*%REC*	1	11/12/2015 12:16 PM
MERCURY BY CVAA			**SW7471B**		Prep: SW7471 / 11/13/15	Analyst: **LR**
Mercury	ND		0.014	mg/Kg-dry	1	11/13/2015 06:44 PM
METALS ANALYSIS BY ICP			**SW846 6010C**		Prep: SW3050B / 11/11/15	Analyst: **JEC**
Arsenic	**2.8**		**0.39**	**mg/Kg-dry**	1	11/16/2015 11:33 AM
Barium	**70**		**0.39**	**mg/Kg-dry**	1	11/14/2015 01:57 AM
Cadmium	ND		0.79	mg/Kg-dry	1	11/16/2015 11:33 AM
Chromium	**6.5**		**0.39**	**mg/Kg-dry**	1	11/14/2015 01:57 AM
Copper	**4.2**		**0.79**	**mg/Kg-dry**	1	11/14/2015 01:57 AM
Lead	**5.0**		**0.39**	**mg/Kg-dry**	1	11/16/2015 11:33 AM
Nickel	**1.5**		**0.39**	**mg/Kg-dry**	1	11/16/2015 11:33 AM
Selenium	ND		0.79	mg/Kg-dry	1	11/16/2015 11:33 AM
Silver	ND		0.39	mg/Kg-dry	1	11/16/2015 11:33 AM
Zinc	**6.6**		**0.79**	**mg/Kg-dry**	1	11/16/2015 11:33 AM
SOLUBLE CATIONS FOR SAR			**SW846 6010C**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Calcium	**950**		**5.0**	**mg/L**	10	11/17/2015 07:37 AM
Magnesium	**260**		**2.0**	**mg/L**	10	11/17/2015 07:37 AM
Sodium	**350**		**2.0**	**mg/L**	10	11/17/2015 07:37 AM
SODIUM ADSORPTION RATIO			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JEC**
Sodium Adsorption Ratio	**2.6**		**0.010**	**none**	1	11/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3541 / 11/12/15	Analyst: **RS**
Acenaphthene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Anthracene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Benzo(a)anthracene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Benzo(a)pyrene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Benzo(b)fluoranthene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Benzo(k)fluoranthene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Chrysene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Dibenzo(a,h)anthracene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Fluoranthene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM

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

ALS Group USA, Corp

Date: *17-Nov-15*

Client: LT Environmental, Inc
Project: Powder Wash North
Work Order: 1511515
Sample ID: PWN - Pit S01 4-7'
Lab ID: 1511515-10
Collection Date: 11/5/2015 04:05 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Indeno(1,2,3-cd)pyrene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Naphthalene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Pyrene	ND		0.0071	mg/Kg-dry	1	11/13/2015 02:42 AM
Surr: 2-Fluorobiphenyl	*73.2*		*12-100*	*%REC*	1	11/13/2015 02:42 AM
Surr: 4-Terphenyl-d14	*76.2*		*25-137*	*%REC*	1	11/13/2015 02:42 AM
Surr: Nitrobenzene-d5	*71.8*		*37-107*	*%REC*	1	11/13/2015 02:42 AM
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep: SW5035 / 11/11/15	Analyst: **BG**
Benzene	ND		0.033	mg/Kg-dry	1	11/14/2015 11:13 AM
Ethylbenzene	ND		0.033	mg/Kg-dry	1	11/14/2015 11:13 AM
m,p-Xylene	**0.17**		**0.066**	**mg/Kg-dry**	1	11/14/2015 11:13 AM
o-Xylene	**0.082**		**0.033**	**mg/Kg-dry**	1	11/14/2015 11:13 AM
Toluene	**0.094**		**0.033**	**mg/Kg-dry**	1	11/14/2015 11:13 AM
Xylenes, Total	**0.26**		**0.098**	**mg/Kg-dry**	1	11/14/2015 11:13 AM
Surr: 1,2-Dichloroethane-d4	*99.2*		*70-130*	*%REC*	1	11/14/2015 11:13 AM
Surr: 4-Bromofluorobenzene	*103*		*70-130*	*%REC*	1	11/14/2015 11:13 AM
Surr: Dibromofluoromethane	*94.8*		*70-130*	*%REC*	1	11/14/2015 11:13 AM
Surr: Toluene-d8	*95.3*		*70-130*	*%REC*	1	11/14/2015 11:13 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 METHO**		Prep: USDA Method 20B / 11/16/15	Analyst: **JB**
Electrical Conductivity @ Saturation	**8.7**		**0.050**	**mmhos/cm @2**	10	11/16/2015 12:15 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JJG**
Chromium, Trivalent	**6.5**		**0.55**	**mg/Kg-dry**	1	11/17/2015 08:40 AM
CHROMIUM, HEXAVALENT			**SW7196A**		Prep: SW3060A / 11/15/15	Analyst: **MB**
Chromium, Hexavalent	ND		1.0	mg/Kg-dry	1	11/16/2015 02:00 PM
MOISTURE			**E160.3M**			Analyst: **TM**
Moisture	**8.4**		**0.050**	**% of sample**	1	11/11/2015 04:41 PM
PH			**SW9045D**		Prep: EXTRACT / 11/11/15	Analyst: **JB**
pH	**7.5**			**s.u.**	1	11/11/2015 05:50 PM

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

Client: LT Environmental, Inc
Project: Powder Wash North
WorkOrder: **1511515**

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: 17-Nov-15

Client: LT Environmental, Inc

Work Order: 1511515

Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78707** Instrument ID **GC8** Method: **SW8015M**

MBLK Sample ID: **DBLKS1-78707-78707** Units: **mg/Kg** Analysis Date: **11/13/2015 04:57 PM**

Client ID: Run ID: **GC8_151113A** SeqNo: **3566157** Prep Date: **11/11/2015** 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	*1.628*	0	*2*	0	*81.4*	*39-133*	0			

LCS Sample ID: **DLCSS1-78707-78707** Units: **mg/Kg** Analysis Date: **11/13/2015 05:24 PM**

Client ID: Run ID: **GC8_151113A** SeqNo: **3566158** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	169.5	5.0	200	0	84.7	61-109	0			
Surr: 4-Terphenyl-d14	*1.408*	0	*2*	0	*70.4*	*39-133*	0			

MS Sample ID: **1511515-01B MS** Units: **mg/Kg** Analysis Date: **11/13/2015 05:51 PM**

Client ID: **PWN - Pit E 28-31'** Run ID: **GC8_151113A** SeqNo: **3566159** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	142.2	4.0	161.4	0	88.1	48-110	0			
Surr: 4-Terphenyl-d14	*1.118*	0	*1.614*	0	*69.2*	*39-133*	0			

MSD Sample ID: **1511515-01B MSD** Units: **mg/Kg** Analysis Date: **11/13/2015 06:19 PM**

Client ID: **PWN - Pit E 28-31'** Run ID: **GC8_151113A** SeqNo: **3566160** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	133.3	4.1	162.5	0	82	48-110	142.2	6.44	30	
Surr: 4-Terphenyl-d14	*1.089*	0	*1.625*	0	*67*	*39-133*	1.118	*2.61*	*30*	

The following samples were analyzed in this batch:

1511515-01B	1511515-02B	1511515-03B
1511515-04B	1511515-05B	1511515-06B
1511515-07B	1511515-08B	1511515-09B
1511515-10B		

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78704** Instrument ID **GC10** Method: **SW8015D**

MBLK Sample ID: **MBLK-78704-78704** Units: **µg/Kg** Analysis Date: **11/11/2015 03:06 PM**
Client ID: Run ID: **GC10_151111B** SeqNo: **3561161** Prep Date: **11/11/2015** 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	*5288*	0	*5000*	0	*106*	*50-150*	0			

LCS Sample ID: **LCS-78704-78704** Units: **µg/Kg** Analysis Date: **11/11/2015 02:07 PM**
Client ID: Run ID: **GC10_151111B** SeqNo: **3561160** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	541200	2,500	500000	0	108	70-130	0			
Surr: Toluene-d8	*4961*	0	*5000*	0	*99.2*	*50-150*	0			

MS Sample ID: **1511515-01A MS** Units: **µg/Kg** Analysis Date: **11/11/2015 05:09 PM**
Client ID: **PWN - Pit E 28-31'** Run ID: **GC10_151111B** SeqNo: **3561166** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	522800	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	*4880*	0	*5000*	0	*97.6*	*50-150*	0			

MSD Sample ID: **1511515-01A MSD** Units: **µg/Kg** Analysis Date: **11/11/2015 05:34 PM**
Client ID: **PWN - Pit E 28-31'** Run ID: **GC10_151111B** SeqNo: **3561167** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	511500	2,500	500000	0	102	70-130	522800	2.19	30	
Surr: Toluene-d8	*4896*	0	*5000*	0	*97.9*	*50-150*	4880	*0.338*	*30*	

The following samples were analyzed in this batch:

1511515-01A	1511515-02A	1511515-03A
1511515-04A	1511515-05A	1511515-06A
1511515-07A	1511515-08A	1511515-09A
1511515-10A		

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78817** Instrument ID **HG1** Method: **SW7471B**

MBLK	Sample ID: **MBLK-78817-78817**				Units: **mg/Kg**			Analysis Date: **11/13/2015 05:57 PM**			
Client ID:		Run ID: **HG1_151113B**			SeqNo: **3567145**			Prep Date: **11/13/2015**		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-78817-78817**				Units: **mg/Kg**			Analysis Date: **11/13/2015 05:59 PM**			
Client ID:		Run ID: **HG1_151113B**			SeqNo: **3567146**			Prep Date: **11/13/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.1958	0.020	0.1665	0	118	80-120	0				

MS	Sample ID: **1511513-02BMS**				Units: **mg/Kg**			Analysis Date: **11/13/2015 06:06 PM**			
Client ID:		Run ID: **HG1_151113B**			SeqNo: **3567149**			Prep Date: **11/13/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.1361	0.013	0.1071	0.01041	117	75-125	0				

MSD	Sample ID: **1511513-02BMSD**				Units: **mg/Kg**			Analysis Date: **11/13/2015 06:08 PM**			
Client ID:		Run ID: **HG1_151113B**			SeqNo: **3567150**			Prep Date: **11/13/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Mercury	0.1325	0.013	0.1072	0.01041	114	75-125	0.1361	2.69	35		

The following samples were analyzed in this batch:

1511515-01B	1511515-02B	1511515-03B
1511515-04B	1511515-05B	1511515-06B
1511515-07B	1511515-08B	1511515-09B
1511515-10B		

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78723** Instrument ID **ICP2** Method: **SW846 6010C**

MBLK Sample ID: **MBLK-78723-78723** Units: **mg/Kg** Analysis Date: **11/13/2015 02:59 PM**
Client ID: Run ID: **ICP2_151113A** SeqNo: **3565443** Prep Date: **11/11/2015** 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	0.01622	0.25								J
Copper	0.04301	0.50								J
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	0.02919	0.25								J
Zinc	ND	0.50								

LCS Sample ID: **LCS-78723-78723** Units: **mg/Kg** Analysis Date: **11/13/2015 03:05 PM**
Client ID: Run ID: **ICP2_151113A** SeqNo: **3565444** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.015	0.25	5	0	100	80-120	0			
Barium	5.182	0.25	5	0	104	80-120	0			
Cadmium	5.08	0.50	5	0	102	80-120	0			
Chromium	5.55	0.25	5	0	111	80-120	0			
Copper	5.307	0.50	5	0	106	80-120	0			
Lead	5.273	0.25	5	0	105	80-120	0			
Nickel	5.203	0.25	5	0	104	80-120	0			
Selenium	5.3	0.50	5	0	106	80-120	0			
Silver	4.953	0.25	5	0	99.1	80-120	0			
Zinc	5.485	0.50	5	0	110	80-120	0			

MS Sample ID: **1511515-01BMS** Units: **mg/Kg** Analysis Date: **11/13/2015 03:15 PM**
Client ID: **PWN - Pit E 28-31'** Run ID: **ICP2_151113A** SeqNo: **3565446** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.6	0.40	7.949	8.59	50.4	75-125	0			S
Barium	45.57	0.40	7.949	38.25	92.1	75-125	0			O
Cadmium	8.63	0.79	7.949	1.279	92.5	75-125	0			
Chromium	19.16	0.40	7.949	8.056	140	75-125	0			S
Copper	15.68	0.79	7.949	7.945	97.2	75-125	0			
Lead	28.45	0.40	7.949	21.99	81.3	75-125	0			
Nickel	21.67	0.40	7.949	14.16	94.5	75-125	0			
Selenium	9.982	0.79	7.949	1.554	106	75-125	0			
Silver	8.213	0.40	7.949	0.1891	101	75-125	0			
Zinc	74.55	0.79	7.949	62.76	148	75-125	0			SO

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78723** Instrument ID **ICP2** Method: **SW846 6010C**

MSD Sample ID: **1511515-01BMSD** Units: **mg/Kg** Analysis Date: **11/13/2015 03:21 PM**
Client ID: **PWN - Pit E 28-31'** Run ID: **ICP2_151113A** SeqNo: **3565447** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	12.38	0.40	8.065	8.59	47	75-125	12.6	1.75	20	S
Barium	52.05	0.40	8.065	38.25	171	75-125	45.57	13.3	20	SO
Cadmium	8.637	0.81	8.065	1.279	91.2	75-125	8.63	0.0837	20	
Chromium	19.92	0.40	8.065	8.056	147	75-125	19.16	3.93	20	S
Copper	16.29	0.81	8.065	7.945	104	75-125	15.68	3.87	20	
Lead	27.56	0.40	8.065	21.99	69.1	75-125	28.45	3.19	20	S
Nickel	23.83	0.40	8.065	14.16	120	75-125	21.67	9.53	20	
Selenium	9.925	0.81	8.065	1.554	104	75-125	9.982	0.576	20	
Silver	8.188	0.40	8.065	0.1891	99.2	75-125	8.213	0.304	20	
Zinc	80.97	0.81	8.065	62.76	226	75-125	74.55	8.26	20	SO

The following samples were analyzed in this batch:

1511515-01B	1511515-02B	1511515-03B
1511515-04B	1511515-05B	1511515-06B
1511515-07B	1511515-08B	1511515-09B
1511515-10B		

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

QC BATCH REPORT

Batch ID: **78887** Instrument ID **ICP2** Method: **SW846 6010C**

DUP	Sample ID: **1511519-02BDUP**				Units: **mg/L**			Analysis Date: **11/17/2015 07:54 A**		
Client ID:		Run ID: **ICP2_151116B**			SeqNo: **3569998**		Prep Date: **11/16/2015**		DF: **10**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	714.1	5.0	0	0	0	0-0	711.4	0.373		
Magnesium	159.1	2.0	0	0	0	0-0	159	0.08		
Sodium	34.66	2.0	0	0	0	0-0	34.51	0.442		

DUP	Sample ID: **1511519-02BDUP**				Units: **none**			Analysis Date: **11/16/2015**		
Client ID:		Run ID: **SAR_151116A**			SeqNo: **3571165**		Prep Date: **11/16/2015**		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.3055	0.010	0	0	0		0.3046	0.295	50	

The following samples were analyzed in this batch:

1511515-01B 1511515-02B 1511515-03B
1511515-04B 1511515-05B 1511515-06B
1511515-07B 1511515-08B 1511515-09B
1511515-10B

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78801** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-78801-78801** Units: **µg/Kg** Analysis Date: **11/12/2015 09:13 PM**
Client ID: Run ID: **SVMS4_151112A** SeqNo: **3565333** Prep Date: **11/12/2015** 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	*1594*	0	*1667*	0	*95.6*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1751*	0	*1667*	0	*105*	*25-137*	0			
Surr: Nitrobenzene-d5	*1521*	0	*1667*	0	*91.3*	*37-107*	0			

LCS Sample ID: **SLCSS1-78801-78801** Units: **µg/Kg** Analysis Date: **11/12/2015 09:40 PM**
Client ID: Run ID: **SVMS4_151112A** SeqNo: **3565335** Prep Date: **11/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	583	6.7	666.7	0	87.4	45-110	0			
Anthracene	626.3	6.7	666.7	0	93.9	55-105	0			
Benzo(a)anthracene	634.3	6.7	666.7	0	95.1	50-110	0			
Benzo(a)pyrene	607.3	6.7	666.7	0	91.1	50-110	0			
Benzo(b)fluoranthene	621.7	6.7	666.7	0	93.2	45-115	0			
Benzo(k)fluoranthene	634.7	6.7	666.7	0	95.2	45-115	0			
Chrysene	637.3	6.7	666.7	0	95.6	55-110	0			
Dibenzo(a,h)anthracene	639.7	6.7	666.7	0	95.9	40-125	0			
Fluoranthene	607.7	6.7	666.7	0	91.1	55-115	0			
Fluorene	593.3	6.7	666.7	0	89	50-110	0			
Indeno(1,2,3-cd)pyrene	637.7	6.7	666.7	0	95.6	40-120	0			
Naphthalene	562.3	6.7	666.7	0	84.3	40-105	0			
Pyrene	677.7	6.7	666.7	0	102	45-125	0			
Surr: 2-Fluorobiphenyl	*1488*	0	*1667*	0	*89.3*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1593*	0	*1667*	0	*95.6*	*25-137*	0			
Surr: Nitrobenzene-d5	*1481*	0	*1667*	0	*88.9*	*37-107*	0			

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78801** Instrument ID **SVMS4** Method: **SW846 8270D**

MS Sample ID: **1511515-10B MS** Units: **µg/Kg** Analysis Date: **11/13/2015 01:49 A**

Client ID: **PWN - Pit S01 4-7'** Run ID: **SVMS4_151112A** SeqNo: **3565339** Prep Date: **11/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	509.3	6.6	655.5	0	77.7	45-110	0			
Anthracene	565.4	6.6	655.5	0	86.2	55-105	0			
Benzo(a)anthracene	562.4	6.6	655.5	0	85.8	50-110	0			
Benzo(a)pyrene	555.9	6.6	655.5	0	84.8	50-110	0			
Benzo(b)fluoranthene	579.5	6.6	655.5	0	88.4	45-115	0			
Benzo(k)fluoranthene	569.6	6.6	655.5	0	86.9	45-115	0			
Chrysene	558.5	6.6	655.5	0	85.2	55-110	0			
Dibenzo(a,h)anthracene	509	6.6	655.5	0	77.6	40-125	0			
Fluoranthene	573.9	6.6	655.5	0	87.5	55-115	0			
Fluorene	554.6	6.6	655.5	0	84.6	50-110	0			
Indeno(1,2,3-cd)pyrene	512.9	6.6	655.5	0	78.2	40-120	0			
Naphthalene	434.9	6.6	655.5	6.149	65.4	40-105	0			
Pyrene	553.2	6.6	655.5	0	84.4	45-125	0			
Surr: 2-Fluorobiphenyl	*1284*	0	*1639*	0	*78.4*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1327*	0	*1639*	0	*81*	*25-137*	0			
Surr: Nitrobenzene-d5	*1277*	0	*1639*	0	*77.9*	*37-107*	0			

MSD Sample ID: **1511515-10B MSD** Units: **µg/Kg** Analysis Date: **11/13/2015 02:15 A**

Client ID: **PWN - Pit S01 4-7'** Run ID: **SVMS4_151112A** SeqNo: **3565341** Prep Date: **11/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	474.9	6.5	648.4	0	73.2	45-110	509.3	6.99	30	
Anthracene	533.3	6.5	648.4	0	82.2	55-105	565.4	5.84	30	
Benzo(a)anthracene	544.3	6.5	648.4	0	83.9	50-110	562.4	3.27	30	
Benzo(a)pyrene	522.6	6.5	648.4	0	80.6	50-110	555.9	6.17	30	
Benzo(b)fluoranthene	562.8	6.5	648.4	0	86.8	45-115	579.5	2.92	30	
Benzo(k)fluoranthene	559.5	6.5	648.4	0	86.3	45-115	569.6	1.79	30	
Chrysene	532	6.5	648.4	0	82	55-110	558.5	4.86	30	
Dibenzo(a,h)anthracene	474	6.5	648.4	0	73.1	40-125	509	7.13	30	
Fluoranthene	575.4	6.5	648.4	0	88.7	55-115	573.9	0.266	30	
Fluorene	536.2	6.5	648.4	0	82.7	50-110	554.6	3.37	30	
Indeno(1,2,3-cd)pyrene	488.5	6.5	648.4	0	75.3	40-120	512.9	4.87	30	
Naphthalene	426.3	6.5	648.4	6.149	64.8	40-105	434.9	2	30	
Pyrene	563.1	6.5	648.4	0	86.8	45-125	553.2	1.77	30	
Surr: 2-Fluorobiphenyl	*1154*	0	*1621*	0	*71.2*	*12-100*	1284	*10.7*	*40*	
Surr: 4-Terphenyl-d14	*1313*	0	*1621*	0	*81*	*25-137*	1327	*1.1*	*40*	
Surr: Nitrobenzene-d5	*1202*	0	*1621*	0	*74.2*	*37-107*	1277	*6.04*	*40*	

The following samples were analyzed in this batch:

1511515-01B	1511515-02B	1511515-03B
1511515-04B	1511515-05B	1511515-06B
1511515-07B	1511515-08B	1511515-09B
1511515-10B		

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78703** Instrument ID **VMS6** Method: **SW8260B**

MBLK Sample ID: **MBLK-78703-78703** Units: **µg/Kg** Analysis Date: **11/11/2015 02:08 PM**
Client ID: Run ID: **VMS6_151111A** SeqNo: **3561234** Prep Date: **11/11/2015** 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	*965*	0	*1000*	0	*96.5*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*997.5*	0	*1000*	0	*99.8*	*70-130*	0			
Surr: Dibromofluoromethane	*951*	0	*1000*	0	*95.1*	*70-130*	0			
Surr: Toluene-d8	*1018*	0	*1000*	0	*102*	*70-130*	0			

LCS Sample ID: **LCS-78703-78703** Units: **µg/Kg** Analysis Date: **11/11/2015 12:05 PM**
Client ID: Run ID: **VMS6_151111A** SeqNo: **3561232** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1048	30	1000	0	105	75-125	0			
Ethylbenzene	942.5	30	1000	0	94.2	75-125	0			
m,p-Xylene	1911	60	2000	0	95.6	80-125	0			
o-Xylene	928.5	30	1000	0	92.8	75-125	0			
Toluene	957	30	1000	0	95.7	70-125	0			
Xylenes, Total	2840	90	3000	0	94.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	*931*	0	*1000*	0	*93.1*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1010*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*941.5*	0	*1000*	0	*94.2*	*70-130*	0			
Surr: Toluene-d8	*1034*	0	*1000*	0	*103*	*70-130*	0			

MS Sample ID: **1511515-01A MS** Units: **µg/Kg** Analysis Date: **11/14/2015 11:38 A**
Client ID: **PWN - Pit E 28-31'** Run ID: **VMS7_151113B** SeqNo: **3566283** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1090	30	1000	64	103	75-125	0			
Ethylbenzene	1032	30	1000	0	103	75-125	0			
m,p-Xylene	2033	60	2000	20	101	80-125	0			
o-Xylene	1009	30	1000	0	101	75-125	0			
Toluene	1056	30	1000	141.5	91.5	70-125	0			
Xylenes, Total	3042	90	3000	20	101	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1020*	0	*1000*	0	*102*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1044*	0	*1000*	0	*104*	*70-130*	0			
Surr: Dibromofluoromethane	*974*	0	*1000*	0	*97.4*	*70-130*	0			
Surr: Toluene-d8	*961*	0	*1000*	0	*96.1*	*70-130*	0			

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78703** Instrument ID **VMS6** Method: **SW8260B**

MSD Sample ID: **1511515-01A MSD** Units: **µg/Kg** Analysis Date: **11/14/2015 12:03 PM**
Client ID: **PWN - Pit E 28-31'** Run ID: **VMS7_151113B** SeqNo: **3566301** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1044	30	1000	64	98	75-125	1090	4.36	30	
Ethylbenzene	986.5	30	1000	0	98.6	75-125	1032	4.46	30	
m,p-Xylene	1980	60	2000	20	98	80-125	2033	2.62	30	
o-Xylene	991	30	1000	0	99.1	75-125	1009	1.8	30	
Toluene	1020	30	1000	141.5	87.8	70-125	1056	3.52	30	
Xylenes, Total	2972	90	3000	20	98.4	75-125	3042	2.34	30	
Surr: 1,2-Dichloroethane-d4	*992*	0	*1000*	0	*99.2*	*70-130*	1020	*2.78*	*30*	
Surr: 4-Bromofluorobenzene	*1034*	0	*1000*	0	*103*	*70-130*	1044	*0.915*	*30*	
Surr: Dibromofluoromethane	*969.5*	0	*1000*	0	*97*	*70-130*	974	*0.463*	*30*	
Surr: Toluene-d8	*972*	0	*1000*	0	*97.2*	*70-130*	961	*1.14*	*30*	

The following samples were analyzed in this batch:

1511515-01A	1511515-02A	1511515-03A
1511515-04A	1511515-05A	1511515-06A
1511515-07A	1511515-08A	1511515-09A
1511515-10A		

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78764** Instrument ID **WETCHEM** Method: **SW9045D**

LCS Sample ID: **LCS-78764-78764** Units: **s.u.** Analysis Date: **11/11/2015 05:50 PM**
Client ID: Run ID: **WETCHEM_151111U** SeqNo: **3560625** Prep Date: **11/11/2015** 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: **1511515-01B DUP** Units: **s.u.** Analysis Date: **11/11/2015 05:50 PM**
Client ID: **PWN - Pit E 28-31'** Run ID: **WETCHEM_151111U** SeqNo: **3560632** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.48	0	0	0	0	0-0	7.48	0	20	

DUP Sample ID: **1511515-06B DUP** Units: **s.u.** Analysis Date: **11/11/2015 05:50 PM**
Client ID: **PWN - Pit E01 4-7'** Run ID: **WETCHEM_151111U** SeqNo: **3560638** Prep Date: **11/11/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.53	0	0	0	0	0-0	7.4	1.74	20	

The following samples were analyzed in this batch:

1511515-01B	1511515-02B	1511515-03B
1511515-04B	1511515-05B	1511515-06B
1511515-07B	1511515-08B	1511515-09B
1511515-10B		

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78887** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

DUP Sample ID: **1511519-02B DUP** Units: **mmhos/cm @25°** Analysis Date: **11/16/2015 12:15 PM**

Client ID: Run ID: **WETCHEM_151116J** SeqNo: **3568724** Prep Date: **11/16/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	5.34	0.050	0	0	0		5.38	0.746	50	

The following samples were analyzed in this batch:

1511515-01B	1511515-02B	1511515-03B
1511515-04B	1511515-05B	1511515-06B
1511515-07B	1511515-08B	1511515-09B
1511515-10B		

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **78973** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-78973-78973** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: Run ID: **WETCHEM_151116N** SeqNo: **3569214** Prep Date: **11/15/2015** DF: **1**

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

LCS Sample ID: **LCS-78973-78973** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: Run ID: **WETCHEM_151116N** SeqNo: **3569213** Prep Date: **11/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.92	1.0	5	0	98.4	80-120	0			

MS Sample ID: **1511515-06B MS** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: **PWN - Pit E01 4-7'** Run ID: **WETCHEM_151116N** SeqNo: **3569201** Prep Date: **11/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.375	0.96	4.808	0.4615	81.4	75-125	0			

MS Sample ID: **1511515-06B MSI** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: **PWN - Pit E01 4-7'** Run ID: **WETCHEM_151116N** SeqNo: **3569203** Prep Date: **11/15/2015** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	2732	99	2836	0.4615	96.3	75-125	0			

MSD Sample ID: **1511515-06B MSD** Units: **mg/Kg** Analysis Date: **11/16/2015 02:00 PM**
Client ID: **PWN - Pit E01 4-7'** Run ID: **WETCHEM_151116N** SeqNo: **3569202** Prep Date: **11/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	3.971	0.98	4.902	0.4615	71.6	75-125	4.375	9.69	20	S

The following samples were analyzed in this batch:

1511515-01B	1511515-02B	1511515-03B
1511515-04B	1511515-05B	1511515-06B
1511515-07B	1511515-08B	1511515-09B
1511515-10B		

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **R176011** Instrument ID **MOIST** Method: **E160.3M**

MBLK	Sample ID: **WBLKS-R176011**				Units: **% of sample**			Analysis Date: **11/11/2015 01:40 PM**		
Client ID:	Run ID: **MOIST_151111B**				SeqNo: **3562725**		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-R176011**				Units: **% of sample**			Analysis Date: **11/11/2015 01:40 PM**		
Client ID:	Run ID: **MOIST_151111B**				SeqNo: **3562724**		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: **1511433-02B DUP**				Units: **% of sample**			Analysis Date: **11/11/2015 01:40 PM**		
Client ID:	Run ID: **MOIST_151111B**				SeqNo: **3562696**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.55	0.050	0	0	0		17.58	6.04	20	

DUP	Sample ID: **1511513-01B DUP**				Units: **% of sample**			Analysis Date: **11/11/2015 01:40 PM**		
Client ID:	Run ID: **MOIST_151111B**				SeqNo: **3562714**		Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.07	0.050	0	0	0		15.47	3.8	20	

The following samples were analyzed in this batch:

1511515-01B	1511515-02B	1511515-03B
1511515-04B	1511515-05B	1511515-06B

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

Client: LT Environmental, Inc
Work Order: 1511515
Project: Powder Wash North

QC BATCH REPORT

Batch ID: **R176025** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R176025** Units: **% of sample** Analysis Date: **11/11/2015 04:41 PM**
Client ID: Run ID: **MOIST_151111F** SeqNo: **3562996** 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-R176025** Units: **% of sample** Analysis Date: **11/11/2015 04:41 PM**
Client ID: Run ID: **MOIST_151111F** SeqNo: **3562983** 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: **1511519-03B DUP** Units: **% of sample** Analysis Date: **11/11/2015 04:41 PM**
Client ID: Run ID: **MOIST_151111F** SeqNo: **3562979** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.63	0.050	0	0	0		14.94	2.1	20	

DUP Sample ID: **1511519-04B DUP** Units: **% of sample** Analysis Date: **11/11/2015 04:41 PM**
Client ID: Run ID: **MOIST_151111F** SeqNo: **3562981** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.94	0.050	0	0	0		10.76	1.66	20	

The following samples were analyzed in this batch: 1511515-07B 1511515-08B 1511515-09B 1511515-10B

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): 1511515

Page 1 of 1

CLIENT CONTACT AND REPORTING INFORMATION	INVOICE ADDRESS (if other than reporting address)
Company Name: LT Environmental	Company Name: SAME
Project Manager: Rob Rebel	Contact Name: SAME
Address: 820 Megan Ave Unit B	Address: SAME
Rifle, CO 81650	
Phone: 970.285.9985	**PROJECT INFORMATION**
Email: rrebel@ltenv.com, cmclisson@ltenv.com, wloewe@ltenv.com	Project ID: 044715005
Sampler Name (Print): Wesley Toews	Site: Powder Wash North
SERVICE REQUEST (Express services subject to availability)	PO No:
☒ Regular (default) 5-day Standard TAT	ALS Quote No:
☐ Express (Pls specify date required _____) (express fee will apply)	

ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	Depth (ft)	SAMPLING AND CONTAINER INFO Date	Time	Tot Bottle	Matrix	BTEX	TPH GRO/DRO	Table 910-1 PAHs 8270 SIM	EC	PH	SAR	Table 910-1 Metals: As, Ba, Cd, Cr III, Cr VI, Cu, Pb, Hg, Ni, Se, Ag, Zn	Total Arsenic 6020
1	PWN-Pit E	28-31'	11-5-15	1300	2	Soil	X	X	X	X	X	X	X	X
2	PWN-Pit N	16-16.5'	11-5-15	0945	2	Soil	X	X	X	X	X	X	X	X
3	PWN-Pit W	16-16.5'	11-5-15	1000	2	Soil	X	X	X	X	X	X	X	X
4	PWN-Pit S	28-31.6'	11-5-15	1140	2	Soil	X	X	X	X	X	X	X	X
5	PWN-Pit SE	28-32.0'	11-5-15	1425	2	Soil	X	X	X	X	X	X	X	X
6	PWN-Pit E01	4-7'	11-5-15	1453	2	Soil	X	X	X	X	X	X	X	X
7	PWN-Pit N01	4-6'	11-5-15	1520	2	Soil	X	X	X	X	X	X	X	X
8	PWN-Pit W01	4-8'	11-5-15	1540	2	Soil	X	X	X	X	X	X	X	X
9	PWN-Pit W01	8-9.5'	11-5-15	1545	2	Soil	X	X	X	X	X	X	X	X
10	PWN-Pit S01	4-7'	11-5-15	1605	2	Soil	X	X	X	X	X	X	X	X

CLIENT SIGNATURES

Client's Signature: Wesley Toews

Client's Date and Time of Completion: 11-9-15

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		11/10/15 0930
☐ broken	☐ ambient	Courier Name: DHL	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)

0.8°C

FedEx Ship Manager - Print Your Label(s)

11/9/2015

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: 09NOV15
ACTWGT: 53.00 LB
CAD: 2264840/INET3670
DIMS: 24x15x15 IN

BILL SENDER

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

HOLLAND MI 49424
(616) 399-6070 REF: 110915-1
INV:
PO: PARACHUTE DEPT:

539.0/F553/100

FedEx Express

REL# 3785346

2 of 2

TUE - 10 NOV 10:30A
PRIORITY OVERNIGHT

MPS# 0263 **7749 3743 5535**
Mstr# 7749 3743 5410

0201

49424
MI-US **GRR**

XX HLMA

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.

-0.80

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **LTENV** Date/Time Received: **10-Nov-15 09:30**

Work Order: **1511515** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 10-Nov-15 (Date) Reviewed by: Chad Whelton (eSignature) 10-Nov-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):	0.8/0.8 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/10/2015 1:52:26 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:

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

LABORATORY REPORT

June 9, 2016

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

RE: Powder Wash North / 044715005

Dear Rob:

Enclosed are the results of the samples submitted to our laboratory on May 25, 2016. For your reference, these analyses have been assigned our service request number P1602666.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Sue Anderson at 9:29 am, Jun 09, 2016

Sue Anderson
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: LT Environmental, Inc. Service Request No: P1602666
Project: Powder Wash North / 044715005

CASE NARRATIVE

The samples were received intact under chain of custody on May 25, 2016 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Total Petroleum Hydrocarbons as Gasoline Analysis

The samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline per modified EPA Method TO-3 using a gas chromatograph equipped with a flame ionization detector (FID). This procedure is described in laboratory SOP VOA-TPHG_TO3. This method is included on the laboratory's DoD-ELAP scope of accreditation, however it is not part of the NELAP or AIHA-LAP accreditation.

Volatile Organic Compound Analysis

The samples were analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph/mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. According to the method, the use of Tedlar bags is considered a method modification. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation, however it is not part of the AIHA-LAP accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
AIHA	http://www.aihaaccreditedlabs.org	101661
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0694
DoD ELAP	http://www.pjlabs.com/search-accredited-labs	L15-398
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2014025
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	977273
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-003
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-15-6
Utah DOH (NELAP)	http://www.health.utah.gov/lab/labimp/certification/index.html	CA016272015-5
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: LT Environmental, Inc. Service Request: P1602666

Project ID: Powder Wash North / 044715005

Date Received: 5/25/2016

Time Received: 09:35

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	TO-3 Modified - TPHG Bag	TO-15 Modified - VOC Bags
SVE-PT04	P1602666-001	Air	5/23/2016	15:30	X	X
SVE-PT02	P1602666-002	Air	5/23/2016	16:45	X	X

Columbia Analytical Services

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

Page 1 of 1

Requested Turnaround Time In Business Days (Surcharges) please circle
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) (10 Day-Standard)

CAS Project No. P1602666

CAS Contact:

Company Name & Address (Reporting Information)	Project Name	Project Number	P.O. # / Billing Information
LT Environmental Inc 870 Megan Ave, Unit B Erie, CO 80516	Powder Wash North	044719005	Accounts Payable - apeltenv.com

Project Manager	Phone	Fax	Email Address for Result Reporting	Sampler (Print & Sign)
Rob Rebel	(303)-962-5558		rrebel@ltenv.com, jhuld@ltenv.com, cmckissen@ltenv.com	D. Hall / Dustin Hall

Analysis Method/Analytes

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/ Solid)	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller (Bar code - FC #)	Sample Volume	BTEX	TVPH		Comments e.g. Actual Preservative or specific instructions
SVE-PT04	1	5/23/16	1530	Air			1L	X	X		
SVE-PT02	2	5/23/16	1645	Air			1L	X	X		

5 of 13

Report Tier Levels - please select

Tier I - (Results/Default if not specified) ____
Tier II (Results + QC) X
Tier III (Data Validation Package) 10% Surcharge ____
Tier V (client specified) ____

EDD required Yes / No
Type: ____ EDD Units: ____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
D. Hall	5/24/16	1514		5-24-16	1514
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	5-24-16	1700		5/25/16	0935
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Cooler / Blank Temperature ____ °C

ALS Environmental
Sample Acceptance Check Form

Client: LT Environmental, Inc. Work order: P1602666

Project: Powder Wash North / 044715005

Sample(s) received on: 5/25/16 Date opened: 5/25/16 by: KKELPE

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☒	☐	☐
	Location of seal(s)? sealing box Sealing Lid?	☒	☐	☐
	Were signature and date included?	☒	☐	☐
	Were seals intact?	☒	☐	☐
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1602666-001.01	1.0 L Tedlar Bag					
P1602666-002.01	1.0 L Tedlar Bag					

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **LT Environmental, Inc.**
Client Project ID: **Powder Wash North / 044715005** ALS Project ID: P1602666

Total Petroleum Hydrocarbons (TPH) as Gasoline

Test Code: EPA TO-3 Modified
Instrument ID: HP 5890 II/GC19/FID Date(s) Collected: 5/23/16
Analyst: Adam McAfee Date Received: 5/25/16
Sampling Media: 1.0 L Tedlar Bag(s) Date Analyzed: 5/25/16
Test Notes:

Client Sample ID	ALS Sample ID	Injection Volume ml(s)	Result mg/m³	MRL mg/m³	Result ppmV	MRL ppmV	Data Qualifier
SVE-PT04	P1602666-001	1.0	**4,600**	18	**1,300**	5.1	
SVE-PT02	P1602666-002	1.0	**1,100**	18	**320**	5.1	
Method Blank	P160525-MB	1.0	ND	18	ND	5.1	

Parts Per Million results are based on a Molecular Weight of 86.18.
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **LT Environmental, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1602666
Client Project ID: **Powder Wash North / 044715005** ALS Sample ID: P160525-LCS

Test Code: EPA TO-3 Modified Date Collected: NA
Instrument ID: HP 5890 II/GC19/FID Date Received: NA
Analyst: Adam McAfee Date Analyzed: 5/25/16
Sampling Media: 1.0 L Tedlar Bag Volume(s) Analyzed: NA ml(s)
Test Notes:

Compound	Spike Amount mg/m³	**Result mg/m³**	**% Recovery**	ALS Acceptance Limits	Data Qualifier
TPH as Gasoline	7,310	**7,210**	**99**	77-136	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **LT Environmental, Inc.**
Client Sample ID: **SVE-PT04** ALS Project ID: P1602666
Client Project ID: **Powder Wash North / 044715005** ALS Sample ID: P1602666-001

Test Code: EPA TO-15 Modified Date Collected: 5/23/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/25/16
Analyst: Wida Ang Date Analyzed: 5/25/16
Sample Type: 1.0 L Tedlar Bag Volume(s) Analyzed: 0.00030 Liter(s)
Test Notes:

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	**260,000**	1,700	**82,000**	520	
108-88-3	Toluene	**200,000**	1,700	**53,000**	440	
100-41-4	Ethylbenzene	**2,500**	1,700	**580**	380	
179601-23-1	m,p-Xylenes	**7,300**	3,300	**1,700**	770	
95-47-6	o-Xylene	ND	1,700	ND	380	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **LT Environmental, Inc.**
Client Sample ID: **SVE-PT02** ALS Project ID: P1602666
Client Project ID: **Powder Wash North / 044715005** ALS Sample ID: P1602666-002

Test Code: EPA TO-15 Modified Date Collected: 5/23/16
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: 5/25/16
Analyst: Wida Ang Date Analyzed: 5/25/16
Sample Type: 1.0 L Tedlar Bag Volume(s) Analyzed: 0.00060 Liter(s)
Test Notes:

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	**61,000**	830	**19,000**	260	
108-88-3	Toluene	**57,000**	830	**15,000**	220	
100-41-4	Ethylbenzene	**1,500**	830	**340**	190	
179601-23-1	m,p-Xylenes	**4,200**	1,700	**980**	380	
95-47-6	o-Xylene	ND	830	ND	190	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **LT Environmental, Inc.**

Client Sample ID: **Method Blank**
Client Project ID: **Powder Wash North / 044715005**

ALS Project ID: P1602666
ALS Sample ID: P160525-MB

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Wida Ang
Sample Type: 1.0 L Tedlar Bag
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 5/25/16
Volume(s) Analyzed: 1.00 Liter(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
71-43-2	Benzene	ND	0.50	ND	0.16	
108-88-3	Toluene	ND	0.50	ND	0.13	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	1.0	ND	0.23	
95-47-6	o-Xylene	ND	0.50	ND	0.12	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Client: **LT Environmental, Inc.**
Client Project ID: **Powder Wash North / 044715005** ALS Project ID: P1602666

Test Code: EPA TO-15 Modified
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date(s) Collected: 5/23/16
Analyst: Wida Ang Date(s) Received: 5/25/16
Sample Type: 1.0 L Tedlar Bag(s) Date(s) Analyzed: 5/25/16
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P160525-MB	**100**	**100**	**109**	70-130	
Lab Control Sample	P160525-LCS	**98**	**99**	**113**	70-130	
SVE-PT04	P1602666-001	**97**	**99**	**112**	70-130	
SVE-PT02	P1602666-002	**97**	**100**	**113**	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **LT Environmental, Inc.**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1602666
Client Project ID: **Powder Wash North / 044715005** ALS Sample ID: P160525-LCS

Test Code: EPA TO-15 Modified Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/25/16
Sample Type: 1.0 L Tedlar Bag Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
71-43-2	Benzene	226	**164**	**73**	61-110	
108-88-3	Toluene	218	**178**	**82**	67-117	
100-41-4	Ethylbenzene	218	**191**	**88**	69-123	
179601-23-1	m,p-Xylenes	428	**378**	**88**	67-125	
95-47-6	o-Xylene	210	**184**	**88**	67-124	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
Reported results are shown in concentration units and as a result of the calculation, may vary slightly.