

State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109



FOR OGCC USE ONLY

Project: 9024
Document #: 2211895
Date: 03/11/2016

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☒ Other (describe): Drilling pit assessment

OGCC Operator Number: 10396	Contact Name and Telephone: SEAN BURKE
Name of Operator: SWN PRODUCTION COMPANY LLC	No: (281) 618-2953
Address: 10000 ENERGY DRIVE	Fax: NA
City: SPRING State: TX Zip: 77389-4954	
API Number: 05-081-07439	County: MOFFAT
Facility Name: GAMMA STATE 14-15	Facility Number: 313399
Well Name: GAMMA STATE	Well Number: 14-15D
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWSW, SEC. 15, T7N, R93W, 6th PM Latitude: 40.552652 Longitude: -107.826573	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Potential drill cuttings from lined pit

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Cushool Fine Sandy Loam, 3 to 12% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): No potential receptors within 0.25 miles

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	160' N-S, 80' E-W, 10' bgs	Excavation soil samples
<input type="checkbox"/> Vegetation		
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface Water		

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Per COGCC request, this Form 27 is updating Remediation #9024 for pit closure and reclamation procedure approval.

Describe how source is to be removed:

The source area was excavated until soil samples from the sidewalls and floor of the excavation confirmed compliance with applicable COGCC Table 910-1 standards. All soil exhibiting concentrations exceeding COGCC cleanup standards has been removed and stockpiled above ground for disposal. All stockpiles have been bermed. See attached Site Diagram and Table 3 for laboratory analytical results and sample locations related to excavation confirmation soil samples.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Per the previous COGCC approved Form 27 (Remediation #9024), excavated soil was mechanically separated, placed on a conveyor belt, and sprayed with hydrogen peroxide to oxidize the petroleum hydrocarbon impacts. One discrete soil sample was collected which was representative of each 100 cubic yards of treated soil and submitted for laboratory analysis for TPH (DRO, GRO, and ORO). These samples are dated 11/11/2015 and 11/12/2015. Additionally, 5% of the confirmation soil samples were also submitted for BTEX and PAH's analysis. After the initial treatment was complete, sample results indicated non-compliance with the COGCC Table 910-1 standard for TPH, which is the primary cleanup goal as identified in the approved Form 27 for Remediation #9024. A second round of treatment was performed using the same treatment process and a second round of confirmation samples were collected and submitted for laboratory analysis (sample dates 11/18/15-11/20/15). Analytical results of samples collected following the second round of treatment exceeded the COGCC Table 910-1 standard for TPH. As a result, the excavated impacted soil will be disposed of at a properly licensed disposal facility. The analytical results are summarized in Table 1 for the TPH analysis and Table 2 for the BTEX and PAH analysis. Laboratory analytical reports are attached.

Rem 9024

FORM
27
Rev 6/99

State of Colorado
Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801, Denver, Colorado 80203
(303)894-2100 Fax: (303)894-2109



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REMEDIAL WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: SUN
OGCC Operator No: _____
Received Date: 3/8/16
Well Name & No: GAMMA STATE 14-15D
Facility Name & No: GAMMA STATE 14-15 313399

Page 2

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Groundwater was not encountered during excavation activities.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The site will be graded to establish pre-existing conditions. The excavation will be backfilled using clean cut material that is present on-site. Reclamation activities will be conducted in compliance with applicable COGCC Rule 1000 regulations.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

The site has been fully delineated and all impacted soil has been removed from the excavation. Impacted soil will be disposed of at a licensed disposal facility.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Impacted soil will be disposed of at a licensed disposal facility.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 4/14/2015 Date Site Investigation Completed: NA Date Remediation Plan Submitted: 12/18/2015
Remediation Start Date: NA Anticipated Completion Date: NA Actual Completion Date: NA

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: SEAN BURKE

Signed: [Signature]

Title: PRODUCTION ENGINEER

Date: 3/7/16

OGCC Approved: [Signature]

Title: EPS

Date: 3/11/16

See Attached COA'S

Form 27 Comments and Conditions of Approval (COAs)

SWN Production Company LLC

Gamma State 14-15D Drilling Pit

Location ID: 313399

REM 9024

SWN's 30-day extension is granted with the understanding that remediation will start prior to May 1, 2016. with the following COAs:

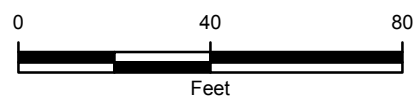
- Conditionally approved, however, additional information or activities may be required during the course of remediation.
- COGCC approval is contingent on Operator providing notice to Environmental staff Kris Neidel (kris.neidel@state.co.us) or [970-871-1963](tel:970-871-1963) a minimum of 72 hrs prior to conducting field operations.
- The Operator shall comply with Rule 907, in particular Rules 907.a.(1) and 907.a.(2).
- The E&P waste stockpiles shall be stabilized to prevent material from being tracked across and off of the Location.
- The E&P waste stockpiles shall be stabilized to prevent material from running off or into the Pit
- The Pit shall be stabilized to prevent storm water or surface run off from running into the Pit. Any accumulation of storm water or snow melt in contact with the E&P soil stockpile waste shall be treated as E&P waste and disposed of at an approved facility, unless it demonstrated that there are no exceedance of Table 910-1 constituents. NOTE: Documentation such as haul tickets or analytical results will be required.
- Discrete sample(s) shall be taken and analyzed for the **full COGCCs Table 910-1 Concentrations Levels in the vicinity of PB-02, PB-03, and EB-03 including: organic compounds in soil, inorganics in soil and metals in soil.** Detection Levels shall be for Table 910-1 and **not** the EPA Regional Screening Level Standards or the CDPHE GPV Standards for PAHs.
- Reclamation shall be in accordance to the COGCCs 1000 Series Rules.



LEGEND

- SOIL SAMPLE
- PIT BOUNDARY
- EXCAVATION EXTENT

IMAGE COURTESY OF ESRI



SITE DIAGRAM
EXCAVATION SITE MAP
GAMMA STATE 14-15D
MOFFAT COUNTY, COLORADO

SWN PRODUCTION COMPANY, LLC.



TABLE 1

**SOIL TREATMENT ANALYTICAL RESULTS
GAMMA STATE 14-15D
SOUTHWESTERN ENERGY PRODUCTION COMPANY**

Soil Sample	Date	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)
SS01	11/11/2015	<1.4	3,000	150	3,150
	11/18/2015	<1.4	2,000	82	2,082
SS02	11/11/2015	<1.4	3,000	130	3,130
	11/18/2015	<1.4	1,800	69	1,869
SS03	11/11/2015	<1.4	2,600	100	2,700
	11/18/2015	<1.4	2,800	81	2,881
SS04	11/11/2015	<1.4	3,000	120	3,120
	11/18/2015	<1.4	3,000	95	3,095
SS05	11/11/2015	<1.4	2,900	120	3,020
	11/18/2015	<1.4	3,000	120	3,120
SS06	11/11/2015	<1.4	3,500	140	3,640
	11/18/2015	<1.4	3,700	150	3,850
SS07	11/11/2015	<1.5	3,800	150	3,950
	11/18/2015	<1.4	3,900	150	4,050
SS08	11/11/2015	<1.4	2,600	100	2,700
	11/18/2015	<1.4	3,000	110	3,110
SS09	11/11/2015	<1.4	3,700	150	3,850
	11/18/2015	<1.4	1,500	65	1,565
SS10	11/11/2015	<1.4	1,400	72	1,472
	11/18/2015	<1.4	1,600	67	1,667
SS11	11/11/2015	<1.4	970	35	1,005
	11/18/2015	<1.4	1,800	72	1,872
SS12	11/11/2015	<1.4	2,100	57	2,157
	11/18/2015	<1.4	1,500	62	1,562
SS13	11/11/2015	90	1,400	66	1,556
	11/18/2015	<1.4	1,500	54	1,554
SS14	11/12/2015	<1.4	620	51	671
	11/18/2015	<1.4	2,000	75	2,075

TABLE 1 (Continued)

**SOIL TREATMENT ANALYTICAL RESULTS
GAMMA STATE 14-15D
SOUTHWESTERN ENERGY PRODUCTION COMPANY**

Soil Sample	Date	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)
SS15	11/12/2015	<1.4	650	49	699
	11/18/2015	<1.4	1,400	53	1,453
SS16	11/12/2015	<1.4	190	30	210
SS17	11/12/2015	<1.4	76	26	102
SS18	11/12/2015	<1.4	170	28	198
SS19	11/12/2015	<1.4	540	36	576
	11/18/2015	<1.4	2,700	130	2,830
SS20	11/12/2015	<1.4	700	37	737
	11/18/2015	<1.4	2,000	76	2,076
SS21	11/12/2015	<1.4	310	28	338
SS22	11/12/2015	<1.4	1,300	48	1,348
	11/18/2015	<1.5	1,600	61	1,661
SS23	11/12/2015	<1.4	210	40	250
SS24	11/12/2015	<1.4	4,000	100	4,100
	11/19/2015	92	4,500	99	4,691
SS25	11/12/2015	<1.4	4,000	100	4,100
	11/19/2015	<1.5	1,500	43	1,543
SS26	11/12/2015	<1.4	730	24	754
	11/19/2015	<1.4	3,500	74	3,574
SS27	11/12/2015	<1.5	2,300	57	2,357
	11/19/2015	<1.5	1,000	32	1,032
SS28	11/12/2015	<1.4	2,400	55	2,455
	11/19/2015	<1.5	660	25	685
SS29	11/12/2015	64	4,400	120	4,584
	11/19/2015	<1.5	740	30	770
SS30	11/12/2015	78	4,400	120	4,598
	11/20/2015	<1.4	2,300	65	2,365
SS31	11/12/2015	<1.4	2,900	71	2,971
	11/20/2015	<1.5	1,500	45	1,545

TABLE 1 (Continued)

**SOIL TREATMENT ANALYTICAL RESULTS
GAMMA STATE 14-15D
SOUTHWESTERN ENERGY PRODUCTION COMPANY**

Soil Sample	Date	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)
SS32	11/12/2015	<1.4	290	16	306
SS33	11/12/2015	<1.4	1,100	40	1,140
	11/19/2015	<1.4	740	28	768
SS34	11/20/2015	<1.4	2,100	60	2,160
SS35	11/20/2015	<1.4	1,900	52	1,952
SS36	11/20/2015	<1.4	1,900	57	1,957
SS37	11/20/2015	<1.4	1,600	46	1,646
SS38	11/20/2015	<1.4	2,100	54	2,154
SS39	11/20/2015	<1.4	1,500	48	1,548
SS40	11/20/2015	<1.4	1,300	40	1,340

NOTES:

DRO - diesel range organics analyzed by EPA Method 8015M

GRO - gasoline range organics analyzed by EPA Method 8015D

mg/kg - milligrams per kilogram

ORO - oil range organics analyzed by EPA Method 8015M

TPH - total petroleum hydrocarbons is the sum of GRO, DRO, and ORO

< - indicates result is less than the stated laboratory reporting limit

TABLE 2

SOIL TREATMENT ANALYTICAL RESULTS
GAMMA STATE 14-15D
SOUTHWESTERN ENERGY PRODUCTION COMPANY

Parameter	Units	EPA Regional Screening Level Standards	CDPHE GPV Standards	SS07 (11/11/2015)	SS21 (11/12/2015)	SS37 (11/20/2015)
ORO	mg/kg	--	--	150	28	46
Benzene	mg/kg	1.2	0.17	<0.0083	<0.0079	<0.0079
Toluene	mg/kg	4,900	50	0.020	<0.012	<0.012
Ethylbenzene	mg/kg	5.8	100	0.010	<0.0081	<0.0081
Total Xylenes	mg/kg	580	75	0.088	<0.027	<0.027
POLYCYCLIC AROMATIC HYDROCARBONS						
Acenaphthene	mg/kg	3,500	1,000	<0.0031	<0.0028	<0.0029
Anthracene	mg/kg	17,000	1,000	<0.0039	<0.0037	<0.0037
Benzo(a)anthracene	mg/kg	0.15	1,000	<0.0049	<0.0046	<0.0047
Benzo(a)pyrene	mg/kg	0.015	1,000	<0.0017	<0.0016	<0.0016
Benzo(b)fluoranthene	mg/kg	0.15	1,000	<0.0028	<0.0026	<0.0026
Benzo(k)fluoranthene	mg/kg	1.5	1,000	<0.0051	<0.0047	<0.0048
Chrysene	mg/kg	15	1,000	<0.0069	<0.0064	<0.0065
Dibenzo(a,h)anthracene	mg/kg	0.015	1,000	<0.0027	<0.0025	<0.0025
Fluoranthene	mg/kg	2,300	1,000	<0.0050	<0.0046	<0.0047
Fluorene	mg/kg	2,300	1,000	<0.0045	<0.0042	0.015
Indeno(1,2,3-cd)pyrene	mg/kg	0.15	1,000	<0.0051	<0.0047	<0.0048
Naphthalene	mg/kg	3.8	23	0.11	<0.0020	<0.0020
Pyrene	mg/kg	1,700	1,000	<0.0062	<0.0057	0.0092

NOTES:

CDPHE GPV - Colorado Department of Public Health and Environment - Groundwater Protection Values taken from the CDPHE, Hazardous Materials and Waste Management Division Groundwater Protection Values Soil Cleanup Table (March 2014)

EPA - United States Environmental Protection Agency Regional Screening Level taken from the EPA Resident Soil Table (May 2014)

mg/kg - milligrams per kilogram

ORO - oil range organics analyzed by EPA Method 8015

< - indicates result is less than the stated laboratory reporting limit

-- not applicable

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

Polycyclic aromatic hydrocarbons analyzed by EPA Method 8270D SIM

TABLE 3

**EXCAVATION ANALYTICAL RESULTS
GAMMA STATE 14-15D
SOUTHWESTERN ENERGY PRODUCTION COMPANY**

Soil Sample	Date	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)
Dump Line	11/10/2015	<1.4	1.6	7.7	9.3
PB-01	11/10/2015	<1.3	140	11	151
PB-02	11/10/2015	<1.3	1,600	36	1,636
PB-03	11/10/2015	<1.3	530	32	562
EB-01	11/11/2015	<1.6	20	8.2	28.2
EB-02	11/11/2015	<1.5	20	6.7	26.7
EB-03	11/11/2015	<1.5	1,700	17	1,717
SWALL-01	11/11/2015	<1.4	3.2	<1.6	3.2
WWALL-01	11/11/2015	<1.3	<1.5	<1.6	0.0
WWALL-02	11/11/2015	<1.3	12	5.5	17.5
WWALL-03	11/11/2015	<1.4	2.2	<1.7	2.2
Overburden *	11/12/2015	<1.4	790	23	813
WWALL-04	11/12/2015	<1.4	2.5	<1.6	2.5
NWALL-01	11/12/2015	<1.3	190	7.6	197.6
EWALL-01	11/12/2015	<1.3	3.4	<1.5	3.4
EB-04	11/13/2015	<1.3	<1.4	<1.5	0.0
EB-05	11/13/2015	<1.3	<1.5	<1.5	0.0
PB-04	11/13/2015	<1.3	2.4	<1.5	2.4
PB-05	11/13/2015	<1.3	<1.5	<1.5	0.0
EB-06	11/16/2015	<1.3	<1.5	<1.5	0.0

NOTES:

DRO - diesel range organics analyzed by EPA Method 8015M

GRO - gasoline range organics analyzed by EPA Method 8015D

mg/kg - milligrams per kilogram

ORO - oil range organics analyzed by EPA Method 8015M

TPH - total petroleum hydrocarbons is the sum of GRO, DRO, and ORO

< - indicates result is less than the stated laboratory reporting limit

* The overburden sample was collected on 11/12/15, from aboveground stockpiled soils, prior to
ex-situ treatment

Excavation and Post-Treatment Confirmation Soil Samples



13-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **1511661**

Dear Chris,

ALS Environmental received 4 samples on 12-Nov-2015 09:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 13.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511661

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1511661-01	Dump Line	Soil		11/10/2015 12:06	11/12/2015 09:00	<input type="checkbox"/>
1511661-02	PB-01	Soil		11/10/2015 12:10	11/12/2015 09:00	<input type="checkbox"/>
1511661-03	PB-02	Soil		11/10/2015 12:14	11/12/2015 09:00	<input type="checkbox"/>
1511661-04	PB-03	Soil		11/10/2015 12:15	11/12/2015 09:00	<input type="checkbox"/>

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511661

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: Dump Line
Collection Date: 11/10/2015 12:06 PM

Work Order: 1511661
Lab ID: 1511661-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	1.6	J	1.5	4.5	mg/Kg-dry	1	11/13/2015 04:19
ORO (C28-C40)	7.7		1.6	4.5	mg/Kg-dry	1	11/13/2015 04:19
Surr: 4-Terphenyl-d14	58.2			39-133	%REC	1	11/13/2015 04:19
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,800	µg/Kg-dry	1	11/13/2015 01:15
Surr: Toluene-d8	116			50-150	%REC	1	11/13/2015 01:15
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	11		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: PB-01
Collection Date: 11/10/2015 12:10 PM

Work Order: 1511661
Lab ID: 1511661-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	140		1.5	4.5	mg/Kg-dry	1	11/13/2015 05:19
ORO (C28-C40)	11		1.6	4.5	mg/Kg-dry	1	11/13/2015 05:19
Surr: 4-Terphenyl-d14	55.0			39-133	%REC	1	11/13/2015 05:19
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,800	µg/Kg-dry	1	11/13/2015 01:40
Surr: Toluene-d8	100			50-150	%REC	1	11/13/2015 01:40
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	10		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: PB-02
Collection Date: 11/10/2015 12:14 PM

Work Order: 1511661
Lab ID: 1511661-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	1,600		1.5	4.6	mg/Kg-dry	1	11/13/2015 05:49
ORO (C28-C40)	36		1.6	4.6	mg/Kg-dry	1	11/13/2015 05:49
Surr: 4-Terphenyl-d14	97.1			39-133	%REC	1	11/13/2015 05:49
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,800	µg/Kg-dry	1	11/13/2015 02:05
Surr: Toluene-d8	116			50-150	%REC	1	11/13/2015 02:05
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	10		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: PB-03
Collection Date: 11/10/2015 12:15 PM

Work Order: 1511661
Lab ID: 1511661-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	530		1.5	4.5	mg/Kg-dry	1	11/13/2015 06:19
ORO (C28-C40)	32		1.6	4.5	mg/Kg-dry	1	11/13/2015 06:19
Surr: 4-Terphenyl-d14	100			39-133	%REC	1	11/13/2015 06:19
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,800	µg/Kg-dry	1	11/13/2015 02:30
Surr: Toluene-d8	114			50-150	%REC	1	11/13/2015 02:30
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	10		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Work Order: 1511661
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78811** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-78811-78811				Units: mg/Kg		Analysis Date: 11/13/2015 02:19 A		
Client ID:		Run ID: GC8_151112B				SeqNo: 3564151		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

DRO (C10-C28)	U	5.0								
ORO (C28-C40)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.392	0	2	0	69.6	39-133	0			

LCS		Sample ID: DLCSS1-78811-78811				Units: mg/Kg		Analysis Date: 11/13/2015 02:49 A		
Client ID:		Run ID: GC8_151112B				SeqNo: 3564152		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

DRO (C10-C28)	163.7	5.0	200	0	81.9	61-109	0			
ORO (C28-C40)	139	5.0	200	0	69.5	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>	1.266	0	2	0	63.3	39-133	0			

MS		Sample ID: 1511661-01B MS				Units: mg/Kg		Analysis Date: 11/13/2015 03:19 A		
Client ID: Dump Line		Run ID: GC8_151112B				SeqNo: 3564153		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

DRO (C10-C28)	107.7	4.2	166.3	1.394	63.9	48-110	0			
ORO (C28-C40)	103.8	4.2	166.3	6.877	58.3	39-140	0			
<i>Surr: 4-Terphenyl-d14</i>	0.8764	0	1.663	0	52.7	39-133	0			

MSD		Sample ID: 1511661-01B MSD				Units: mg/Kg		Analysis Date: 11/13/2015 03:49 A		
Client ID: Dump Line		Run ID: GC8_151112B				SeqNo: 3564154		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

DRO (C10-C28)	121.9	4.2	166.6	1.394	72.3	48-110	107.7	12.4	30	
ORO (C28-C40)	120.3	4.2	166.6	6.877	68.1	39-140	103.8	14.8	30	
<i>Surr: 4-Terphenyl-d14</i>	0.9894	0	1.666	0	59.4	39-133	0.8764	12.1	30	

The following samples were analyzed in this batch:

1511661-01B	1511661-02B	1511661-03B
1511661-04B		

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

Client: LT Environmental, Inc
 Work Order: 1511661
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78795** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-78795-78795				Units: µg/Kg		Analysis Date: 11/12/2015 01:06 PM		
Client ID:		Run ID: GC9_151112A				SeqNo: 3562460		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

GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	5367	0	5000	0	107	50-150	0			

LCS		Sample ID: LCS-78795-78795				Units: µg/Kg		Analysis Date: 11/12/2015 12:41 PM		
Client ID:		Run ID: GC9_151112A				SeqNo: 3562459		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

GRO (C6-C10)	475500	2,500	500000	0	95.1	70-130	0			
Surr: Toluene-d8	4881	0	5000	0	97.6	50-150	0			

MS		Sample ID: 1511624-01A MS				Units: µg/Kg		Analysis Date: 11/12/2015 05:13 PM		
Client ID:		Run ID: GC9_151112A				SeqNo: 3564178		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

GRO (C6-C10)	641900	2,500	500000	0	128	70-130	0			
Surr: Toluene-d8	5660	0	5000	0	113	50-150	0			

MSD		Sample ID: 1511624-01A MSD				Units: µg/Kg		Analysis Date: 11/12/2015 05:38 PM		
Client ID:		Run ID: GC9_151112A				SeqNo: 3564179		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

GRO (C6-C10)	554700	2,500	500000	0	111	70-130	641900	14.6	30	
Surr: Toluene-d8	5028	0	5000	0	101	50-150	5660	11.8	30	

The following samples were analyzed in this batch:

1511661-01A	1511661-02A	1511661-03A
1511661-04A		

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

Client: LT Environmental, Inc
Work Order: 1511661
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176097** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176097				Units: % of sample		Analysis Date: 11/12/2015 04:20 PM		
Client ID:		Run ID: MOIST_151112A				SeqNo: 3564812		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R176097				Units: % of sample		Analysis Date: 11/12/2015 04:20 PM		
Client ID:		Run ID: MOIST_151112A				SeqNo: 3564811		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: 1511501-01A DUP				Units: % of sample		Analysis Date: 11/12/2015 04:20 PM		
Client ID:		Run ID: MOIST_151112A				SeqNo: 3564774		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 5.57 0.050 0 0 0 5.57 0 20

DUP		Sample ID: 1511663-02B DUP				Units: % of sample		Analysis Date: 11/12/2015 04:20 PM		
Client ID:		Run ID: MOIST_151112A				SeqNo: 3564794		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.12 0.050 0 0 0 14.03 0.639 20

The following samples were analyzed in this batch:

1511661-01B	1511661-02B	1511661-03B
1511661-04B		

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

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: 11NOV15
ACTWGT: 66.00 LB
CAD: 2284840 NET 13670
DIMS: 24x15x15 IN
BILL SENDER :

TO SAMPLE RECEIVING
ALS ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE

HOLLAND MI 49424

(616) 399-6070 REF: 111115-1
INV
PO: PARACHUTE DEPT:

539,026F5631D0

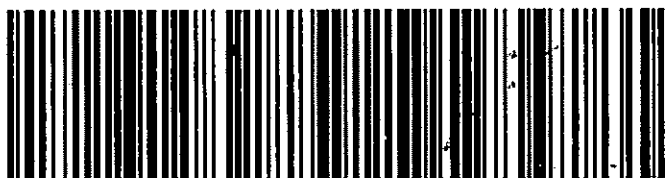


THU - 12 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 7749 5766 9508
0201

XX HLMA

49424
MI-US GRR



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or Inkjet printer.
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04c

Sample Receipt Checklist

Client Name: LTENV

Date/Time Received: 12-Nov-15 09:00

Work Order: 1511661

Received by: DS

Checklist completed by Diane Shaw 12-Nov-15
eSignature Date

Reviewed by: Chad Whelton 12-Nov-15
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>0.4/0.4 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/12/2015 11:18:22 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



13-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **1511663**

Dear Chris,

ALS Environmental received 13 samples on 12-Nov-2015 09:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 28.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511663

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1511663-01	SS01	Soil		11/11/2015 07:40	11/12/2015 09:00	<input type="checkbox"/>
1511663-02	SS02	Soil		11/11/2015 07:45	11/12/2015 09:00	<input type="checkbox"/>
1511663-03	SS03	Soil		11/11/2015 07:50	11/12/2015 09:00	<input type="checkbox"/>
1511663-04	SS04	Soil		11/11/2015 07:55	11/12/2015 09:00	<input type="checkbox"/>
1511663-05	SS05	Soil		11/11/2015 08:00	11/12/2015 09:00	<input type="checkbox"/>
1511663-06	SS06	Soil		11/11/2015 08:05	11/12/2015 09:00	<input type="checkbox"/>
1511663-07	SS07	Soil		11/11/2015 08:10	11/12/2015 09:00	<input type="checkbox"/>
1511663-08	SS08	Soil		11/11/2015 08:15	11/12/2015 09:00	<input type="checkbox"/>
1511663-09	SS09	Soil		11/11/2015 08:20	11/12/2015 09:00	<input type="checkbox"/>
1511663-10	SS10	Soil		11/11/2015 08:25	11/12/2015 09:00	<input type="checkbox"/>
1511663-11	SS11	Soil		11/11/2015 08:30	11/12/2015 09:00	<input type="checkbox"/>
1511663-12	SS12	Soil		11/11/2015 08:35	11/12/2015 09:00	<input type="checkbox"/>
1511663-13	SS13	Soil		11/11/2015 08:40	11/12/2015 09:00	<input type="checkbox"/>

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc

Project: Gamma State 14-15D

Work Order: 1511663

Case Narrative

Batch 78811, Method DRO_8015_S, Samples 1511663-05B, -06B, -07B and -09B: DRO surrogate recoveries high due to matrix interference.

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511663

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS01
Collection Date: 11/11/2015 07:40 AM

Work Order: 1511663
Lab ID: 1511663-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	3,000		7.9	24	mg/Kg-dry	5	11/13/2015 14:42
ORO (C28-C40)	150		1.6	4.8	mg/Kg-dry	1	11/13/2015 06:49
Surr: 4-Terphenyl-d14	116			39-133	%REC	1	11/13/2015 06:49
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/12/2015 19:24
Surr: Toluene-d8	118			50-150	%REC	1	11/12/2015 19:24
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	13		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS02
Collection Date: 11/11/2015 07:45 AM

Work Order: 1511663
Lab ID: 1511663-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	3,000		8.0	24	mg/Kg-dry	5	11/13/2015 15:09
ORO (C28-C40)	130		1.7	4.8	mg/Kg-dry	1	11/13/2015 07:18
Surr: 4-Terphenyl-d14	104			39-133	%REC	1	11/13/2015 07:18
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/12/2015 19:49
Surr: Toluene-d8	117			50-150	%REC	1	11/12/2015 19:49
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS03
Collection Date: 11/11/2015 07:50 AM

Work Order: 1511663
Lab ID: 1511663-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	2,600		7.9	24	mg/Kg-dry	5	11/13/2015 15:36
ORO (C28-C40)	100		1.7	4.8	mg/Kg-dry	1	11/13/2015 07:48
Surr: 4-Terphenyl-d14	120			39-133	%REC	1	11/13/2015 07:48
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/12/2015 20:14
Surr: Toluene-d8	118			50-150	%REC	1	11/12/2015 20:14
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	16		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS04
Collection Date: 11/11/2015 07:55 AM

Work Order: 1511663
Lab ID: 1511663-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	3,000		8.1	25	mg/Kg-dry	5	11/13/2015 16:03
ORO (C28-C40)	120		1.7	4.9	mg/Kg-dry	1	11/13/2015 09:44
Surr: 4-Terphenyl-d14	115			39-133	%REC	1	11/13/2015 09:44
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/12/2015 20:39
Surr: Toluene-d8	119			50-150	%REC	1	11/12/2015 20:39
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	16		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS05
Collection Date: 11/11/2015 08:00 AM

Work Order: 1511663
Lab ID: 1511663-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	2,900		8.0	24	mg/Kg-dry	5	11/13/2015 16:30
ORO (C28-C40)	120		1.7	4.9	mg/Kg-dry	1	11/13/2015 10:11
Surr: 4-Terphenyl-d14	150	S		39-133	%REC	1	11/13/2015 10:11
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/12/2015 21:04
Surr: Toluene-d8	120			50-150	%REC	1	11/12/2015 21:04
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	15		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
 Project: Gamma State 14-15D
 Sample ID: SS06
 Collection Date: 11/11/2015 08:05 AM

Work Order: 1511663
 Lab ID: 1511663-06
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15	Analyst: IT	
DRO (C10-C28)	3,500		3.1	9.5	mg/Kg-dry	2	11/13/2015 10:38
ORO (C28-C40)	140		3.3	9.5	mg/Kg-dry	2	11/13/2015 10:38
Surr: 4-Terphenyl-d14	154	S		39-133	%REC	2	11/13/2015 10:38
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15	Analyst: IT	
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/12/2015 21:29
Surr: Toluene-d8	116			50-150	%REC	1	11/12/2015 21:29
MOISTURE			Method: E160.3M			Analyst: TM	
Moisture	13		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS07
Collection Date: 11/11/2015 08:10 AM

Work Order: 1511663
Lab ID: 1511663-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	3,800		3.3	10	mg/Kg-dry	2	11/13/2015 11:05
ORO (C28-C40)	150		3.5	10	mg/Kg-dry	2	11/13/2015 11:05
Surr: 4-Terphenyl-d14	182	S		39-133	%REC	2	11/13/2015 11:05
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,100	µg/Kg-dry	1	11/12/2015 21:54
Surr: Toluene-d8	116			50-150	%REC	1	11/12/2015 21:54
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3541 / 11/12/15		Analyst: RS
Acenaphthene	U		0.0031	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Anthracene	U		0.0039	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Benzo(a)anthracene	U		0.0049	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Benzo(a)pyrene	U		0.0017	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Benzo(b)fluoranthene	U		0.0028	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Benzo(k)fluoranthene	U		0.0051	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Chrysene	U		0.0069	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Dibenzo(a,h)anthracene	U		0.0027	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Fluoranthene	U		0.0050	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Fluorene	U		0.0045	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Indeno(1,2,3-cd)pyrene	U		0.0051	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Naphthalene	0.11		0.0021	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Pyrene	U		0.0062	0.0081	mg/Kg-dry	1	11/13/2015 10:03
Surr: 2-Fluorobiphenyl	50.7			12-100	%REC	1	11/13/2015 10:03
Surr: 4-Terphenyl-d14	92.4			25-137	%REC	1	11/13/2015 10:03
Surr: Nitrobenzene-d5	78.2			37-107	%REC	1	11/13/2015 10:03
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B		Prep: SW5035 / 11/12/15		Analyst: BG
Benzene	U		0.0083	0.037	mg/Kg-dry	1	11/12/2015 22:22
Ethylbenzene	0.010	J	0.0085	0.037	mg/Kg-dry	1	11/12/2015 22:22
m,p-Xylene	0.059	J	0.016	0.073	mg/Kg-dry	1	11/12/2015 22:22
o-Xylene	0.030	J	0.012	0.037	mg/Kg-dry	1	11/12/2015 22:22
Toluene	0.020	J	0.012	0.037	mg/Kg-dry	1	11/12/2015 22:22
Xylenes, Total	0.088	J	0.028	0.11	mg/Kg-dry	1	11/12/2015 22:22
Surr: 1,2-Dichloroethane-d4	99.6			70-130	%REC	1	11/12/2015 22:22
Surr: 4-Bromofluorobenzene	97.8			70-130	%REC	1	11/12/2015 22:22
Surr: Dibromofluoromethane	97.4			70-130	%REC	1	11/12/2015 22:22
Surr: Toluene-d8	97.8			70-130	%REC	1	11/12/2015 22:22
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	18		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
 Project: Gamma State 14-15D
 Sample ID: SS08
 Collection Date: 11/11/2015 08:15 AM

Work Order: 1511663
 Lab ID: 1511663-08
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	2,600		3.2	9.6	mg/Kg-dry	2	11/13/2015 11:32
ORO (C28-C40)	100		3.3	9.6	mg/Kg-dry	2	11/13/2015 11:32
Surr: 4-Terphenyl-d14	109			39-133	%REC	2	11/13/2015 11:32
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/12/2015 22:19
Surr: Toluene-d8	119			50-150	%REC	1	11/12/2015 22:19
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS09
Collection Date: 11/11/2015 08:20 AM

Work Order: 1511663
Lab ID: 1511663-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	3,700		3.1	9.4	mg/Kg-dry	2	11/13/2015 11:59
ORO (C28-C40)	150		3.3	9.4	mg/Kg-dry	2	11/13/2015 11:59
Surr: 4-Terphenyl-d14	198	S		39-133	%REC	2	11/13/2015 11:59
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/12/2015 23:10
Surr: Toluene-d8	119			50-150	%REC	1	11/12/2015 23:10
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	13		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS10
Collection Date: 11/11/2015 08:25 AM

Work Order: 1511663
Lab ID: 1511663-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	1,400		3.1	9.5	mg/Kg-dry	2	11/13/2015 12:26
ORO (C28-C40)	72		3.3	9.5	mg/Kg-dry	2	11/13/2015 12:26
Surr: 4-Terphenyl-d14	90.3			39-133	%REC	2	11/13/2015 12:26
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/12/2015 23:35
Surr: Toluene-d8	120			50-150	%REC	1	11/12/2015 23:35
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	13		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS11
Collection Date: 11/11/2015 08:30 AM

Work Order: 1511663
Lab ID: 1511663-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	970		3.1	9.4	mg/Kg-dry	2	11/13/2015 12:53
ORO (C28-C40)	35		3.2	9.4	mg/Kg-dry	2	11/13/2015 12:53
Surr: 4-Terphenyl-d14	67.6			39-133	%REC	2	11/13/2015 12:53
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/13/2015 12:00
Surr: Toluene-d8	117			50-150	%REC	1	11/13/2015 12:00
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	13		0.025	0.050	% of sample	1	11/12/2015 16:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS12
Collection Date: 11/11/2015 08:35 AM

Work Order: 1511663
Lab ID: 1511663-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	2,100		3.1	9.4	mg/Kg-dry	2	11/13/2015 13:21
ORO (C28-C40)	57		3.3	9.4	mg/Kg-dry	2	11/13/2015 13:21
Surr: 4-Terphenyl-d14	79.4			39-133	%REC	2	11/13/2015 13:21
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/13/2015 12:25
Surr: Toluene-d8	119			50-150	%REC	1	11/13/2015 12:25
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	13		0.025	0.050	% of sample	1	11/12/2015 17:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS13
Collection Date: 11/11/2015 08:40 AM

Work Order: 1511663
Lab ID: 1511663-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/12/15		Analyst: IT
DRO (C10-C28)	1,400		3.2	9.6	mg/Kg-dry	2	11/13/2015 13:48
ORO (C28-C40)	66		3.3	9.6	mg/Kg-dry	2	11/13/2015 13:48
Surr: 4-Terphenyl-d14	60.9			39-133	%REC	2	11/13/2015 13:48
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/12/15		Analyst: IT
GRO (C6-C10)	90,000		1,400	2,900	µg/Kg-dry	1	11/13/2015 12:50
Surr: Toluene-d8	110			50-150	%REC	1	11/13/2015 12:50
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/12/2015 17:20

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

ALS Group USA, Corp

Date: 13-Nov-15

Client: LT Environmental, Inc
Work Order: 1511663
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78811** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-78811-78811				Units: mg/Kg		Analysis Date: 11/13/2015 02:19 A		
Client ID:		Run ID: GC8_151112B				SeqNo: 3564151		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

DRO (C10-C28)	U	5.0								
ORO (C28-C40)	U	5.0								
Surr: 4-Terphenyl-d14	1.392	0	2	0	69.6	39-133	0			

LCS		Sample ID: DLCSS1-78811-78811				Units: mg/Kg		Analysis Date: 11/13/2015 02:49 A		
Client ID:		Run ID: GC8_151112B				SeqNo: 3564152		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

DRO (C10-C28)	163.7	5.0	200	0	81.9	61-109	0			
ORO (C28-C40)	139	5.0	200	0	69.5	61-119	0			
Surr: 4-Terphenyl-d14	1.266	0	2	0	63.3	39-133	0			

MS		Sample ID: 1511661-01B MS				Units: mg/Kg		Analysis Date: 11/13/2015 03:19 A		
Client ID:		Run ID: GC8_151112B				SeqNo: 3564153		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

DRO (C10-C28)	107.7	4.2	166.3	1.394	63.9	48-110	0			
ORO (C28-C40)	103.8	4.2	166.3	6.877	58.3	39-140	0			
Surr: 4-Terphenyl-d14	0.8764	0	1.663	0	52.7	39-133	0			

MSD		Sample ID: 1511661-01B MSD				Units: mg/Kg		Analysis Date: 11/13/2015 03:49 A		
Client ID:		Run ID: GC8_151112B				SeqNo: 3564154		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

DRO (C10-C28)	121.9	4.2	166.6	1.394	72.3	48-110	107.7	12.4	30	
ORO (C28-C40)	120.3	4.2	166.6	6.877	68.1	39-140	103.8	14.8	30	
Surr: 4-Terphenyl-d14	0.9894	0	1.666	0	59.4	39-133	0.8764	12.1	30	

The following samples were analyzed in this batch:

1511663-01B	1511663-02B	1511663-03B
1511663-04B	1511663-05B	1511663-06B
1511663-07B	1511663-08B	1511663-09B
1511663-10B	1511663-11B	1511663-12B
1511663-13B		

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

Client: LT Environmental, Inc
Work Order: 1511663
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78795** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-78795-78795				Units: µg/Kg		Analysis Date: 11/12/2015 01:06 PM		
Client ID:		Run ID: GC9_151112A				SeqNo: 3562460		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
GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	5367	0	5000	0	107	50-150	0			

LCS		Sample ID: LCS-78795-78795				Units: µg/Kg		Analysis Date: 11/12/2015 12:41 PM		
Client ID:		Run ID: GC9_151112A				SeqNo: 3562459		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
GRO (C6-C10)	475500	2,500	500000	0	95.1	70-130	0			
Surr: Toluene-d8	4881	0	5000	0	97.6	50-150	0			

MS		Sample ID: 1511624-01A MS				Units: µg/Kg		Analysis Date: 11/12/2015 05:13 PM		
Client ID:		Run ID: GC9_151112A				SeqNo: 3564178		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
GRO (C6-C10)	641900	2,500	500000	0	128	70-130	0			
Surr: Toluene-d8	5660	0	5000	0	113	50-150	0			

MSD		Sample ID: 1511624-01A MSD				Units: µg/Kg		Analysis Date: 11/12/2015 05:38 PM		
Client ID:		Run ID: GC9_151112A				SeqNo: 3564179		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
GRO (C6-C10)	554700	2,500	500000	0	111	70-130	641900	14.6	30	
Surr: Toluene-d8	5028	0	5000	0	101	50-150	5660	11.8	30	

The following samples were analyzed in this batch:

1511663-01A	1511663-02A	1511663-03A
1511663-04A	1511663-05A	1511663-06A
1511663-07A	1511663-08A	1511663-09A
1511663-10A	1511663-11A	1511663-12A
1511663-13A		

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

Client: LT Environmental, Inc
 Work Order: 1511663
 Project: Gamma State 14-15D

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	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Pyrene	U	6.7								
<i>Surr: 2-Fluorobiphenyl</i>	1594	0	1667	0	95.6	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1751	0	1667	0	105	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	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			
<i>Surr: 2-Fluorobiphenyl</i>	1488	0	1667	0	89.3	12-100	0			
<i>Surr: 4-Terphenyl-d14</i>	1593	0	1667	0	95.6	25-137	0			
<i>Surr: Nitrobenzene-d5</i>	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: 1511663
 Project: Gamma State 14-15D

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:			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:			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: 1511663-07B

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

Client: LT Environmental, Inc
 Work Order: 1511663
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78790** Instrument ID **VMS9** Method: **SW8260B**

MBLK				Sample ID: MBLK-78790-78790			Units: µg/Kg		Analysis Date: 11/12/2015 03:14 PM		
Client ID:			Run ID: VMS9_151112A			SeqNo: 3564815		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	
Benzene	U	30									
Ethylbenzene	U	30									
m,p-Xylene	U	60									
o-Xylene	U	30									
Toluene	U	30									
Xylenes, Total	U	90									
Surr: 1,2-Dichloroethane-d4	948	0	1000	0	94.8	70-130	0				
Surr: 4-Bromofluorobenzene	941	0	1000	0	94.1	70-130	0				
Surr: Dibromofluoromethane	980.5	0	1000	0	98	70-130	0				
Surr: Toluene-d8	954.5	0	1000	0	95.4	70-130	0				

LCS				Sample ID: LCS-78790-78790			Units: µg/Kg		Analysis Date: 11/12/2015 12:45 PM		
Client ID:		Run ID: VMS9_151112A			SeqNo: 3564814		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	
Benzene	1094	30	1000	0	109	75-125	0				
Ethylbenzene	949	30	1000	0	94.9	75-125	0				
m,p-Xylene	1956	60	2000	0	97.8	80-125	0				
o-Xylene	923.5	30	1000	0	92.4	75-125	0				
Toluene	1073	30	1000	0	107	70-125	0				
Xylenes, Total	2879	90	3000	0	96	75-125	0				
Surr: 1,2-Dichloroethane-d4	894	0	1000	0	89.4	70-130	0				
Surr: 4-Bromofluorobenzene	1066	0	1000	0	107	70-130	0				
Surr: Dibromofluoromethane	949	0	1000	0	94.9	70-130	0				
Surr: Toluene-d8	997.5	0	1000	0	99.8	70-130	0				

The following samples were analyzed in this batch:

1511663-07A

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

Client: LT Environmental, Inc
Work Order: 1511663
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176097** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176097				Units: % of sample		Analysis Date: 11/12/2015 04:20 PM		
Client ID:		Run ID: MOIST_151112A				SeqNo: 3564812		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS				Sample ID: LCS-R176097				Units: % of sample			Analysis Date: 11/12/2015 04:20 PM		
Client ID:				Run ID: MOIST_151112A				SeqNo: 3564811		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: 1511501-01A DUP				Units: % of sample			Analysis Date: 11/12/2015 04:20 PM			
Client ID:				Run ID: MOIST_151112A				SeqNo: 3564774			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 5.57 0.050 0 0 0 5.57 0 20

DUP				Sample ID: 1511663-02B DUP				Units: % of sample			Analysis Date: 11/12/2015 04:20 PM			
Client ID: SS02				Run ID: MOIST_151112A				SeqNo: 3564794			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 14.12 0.050 0 0 0 14.03 0.639 20

The following samples were analyzed in this batch:

1511663-01B	1511663-02B	1511663-03B
1511663-04B	1511663-05B	1511663-06B
1511663-07B	1511663-08B	1511663-09B
1511663-10B	1511663-11B	

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

Client: LT Environmental, Inc
Work Order: 1511663
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176098** Instrument ID **MOIST** Method: **E160.3M**

MBLK				Sample ID: WBLKS-R176098				Units: % of sample			Analysis Date: 11/12/2015 05:20 PM			
Client ID:				Run ID: MOIST_151112B				SeqNo: 3564839			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-R176098				Units: % of sample			Analysis Date: 11/12/2015 05:20 PM			
Client ID:				Run ID: MOIST_151112B				SeqNo: 3564838			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: 1511493-39A DUP				Units: % of sample			Analysis Date: 11/12/2015 05:20 PM			
Client ID:				Run ID: MOIST_151112B				SeqNo: 3564825			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Moisture	19.51	0.050	0	0	0		19.85	1.73	20					

DUP		Sample ID: 1511663-12B DUP					Units: % of sample		Analysis Date: 11/12/2015 05:20 PM		
Client ID: SS12			Run ID: MOIST_151112B			SeqNo: 3564836		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Moisture	12.56	0.050	0	0	0		13.08	4.06	20		

The following samples were analyzed in this batch:

1511663-12B 1511663-13B

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

1511663

ALS Laboratory Group		CHAIN OF CUSTODY				GOC number (for client tracking)	
Failure to complete all section of this form may delay analysis.		Page 1 of 2					
CLIENT CONTACT AND REPORTING INFORMATION		INVOICE ADDRESS (if other than reporting address)		ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)			
Company Name: LT Environmental		Company Name: SAME		BTEX TPH GRO/DRO/ORO 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			
Project Manager: Chris Roy		Contact Name: SAME					
Address: 4600 West 60th Ave		Address: SAME					
Arvada, CO 80003							
Phone: 303-433-8788							
Email: croy@ltenv.com, wtoews@ltenv.com		Project ID: 039815002					
Sampler Name (Print): Wesley Toews		Site: Gamma State 14-15D					
SERVICE REQUEST (Express services subject to availability)		PO No:					
<input type="checkbox"/> Regular (default) 5-day Standard TAT <input checked="" type="checkbox"/> Express (Pls specify date required 11-13-15) (express fee will apply)		ALS Quote No:					
ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	Depth (ft)	SAMPLING AND CONTAINER INFO			Matrix	CROSS THE REQUESTED ANALYSIS
			Date	Time	Tot Bottle		
1	SS01	1'	11/11/15	0740	2	S	X
2	SS02			0745	1		X
3	SS03			0750	1		X
4	SS04			0755			X
5	SS05			0800			X
6	SS06			0805			X
7	SS07			0810			X
8	SS08			0815			X
9	SS09			0820			X
10	SS10			0825			X
11	SS11			0830			X
12	SS12			0835			X
CLIENT SIGNATURES		For lab use only					
Client's Signature: <i>[Signature]</i>		Cooler Security Seal <input type="checkbox"/> sealed <input type="checkbox"/> broken <input type="checkbox"/> not available	Sample Temp <input type="checkbox"/> chilled deg °C <input type="checkbox"/> ambient	No of Cooler Received carton / cooler box	Received by (lab) <i>[Signature]</i>	Date and Time 11/12/15 0900	
Client's Date and Time of Completion: 11/11/15 1130		Courier Name ALS-Michm-		Committed by <i>[Signature]</i>	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)							

0.42

CHAIN OF CUSTODY							DOC number (for client tracking)														
ALS Laboratory Group																					
Failure to complete all section of this form may delay analysis.																					
							Page <u>2</u> of <u>2</u>														
CLIENT CONTACT AND REPORTING INFORMATION							INVOICE ADDRESS (If other than reporting address)							ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)							
Company Name: LT Environmental							Company Name: SAME							<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH-GRO/DRO/ORO</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Table 910-1 PAHs 8270 SIM</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">EC</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">SAR</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Table 910-1 Metals: As, Ba, Cd, Cr III, Cr VI, Cu, Pb, Hg, Ni, Se, Ag, Zn</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Arsenic 6020</div> </div>							
Project Manager: Chris Roy							Contact Name: SAME														
Address: 4800 West 60th Ave							Address: SAME														
Arvada, CO 80003																					
Phone: 303-433-9788																					
PROJECT INFORMATION																					
Email: croy@ltenv.com, wtoews@ltenv.com							Project ID: 039615002														
Sampler Name (Print): Wesley Toews							Site: Gamma State 14-15D														
SERVICE REQUEST (Express services subject to availability)																					
<input type="checkbox"/> Regular (default) 5-day Standard TAT							PO No:														
<input checked="" type="checkbox"/> Express (Pls specify date required <u>1/13/15</u>) (express fee will apply)							ALS Quote No:														
ALS ID #		SAMPLE IDENTIFICATION <small>(this description will appear on report)</small>			Depth (ft)		SAMPLING AND CONTAINER INFO			Matrix		GROSS THE REQUESTED ANALYSIS									
							Date	Time	Tot Bottle												
12		SS13			1'		1/11/15	0840	2	S		X									
CLIENT SIGNATURES							For lab use only														
Client's Signature: 							Cooler Security Seal <input type="checkbox"/> sealed <input type="checkbox"/> broken <input type="checkbox"/> not available		Sample Temp: <input type="checkbox"/> chilled deg °C <input type="checkbox"/> ambient		No of Cooler Received carton / cooler box		Received by (lab) 				Date and Time <u>1/12/15</u>				
													Committed by 				Date and Time				
Client's Date and Time of Completion: <u>1/11/15</u> <u>1130</u>							Courier Name <u>ALS Nick M.</u>														
Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)																					

0.42

ORIGIN ID: RLA (816) 298-1033
 NICK MARTINEZ
 ALS ENVIRONMENTAL PARACHUTE
 PARACHUTE SERVICE CENTER
 127 EAST 1ST ST
 PARACHUTE, CO 81635
 UNITED STATES US

SHIP DATE: 11NOV15
 ACTWGT: 88.00 LB
 CAD: 226484001NET3870
 DIMS: 24x15x15 IN
 BILL SENDER

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

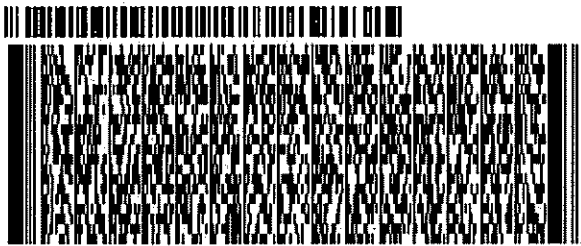
HOLLAND MI 49424

(616) 399-8070
 INV
 PO: PARACHUTE

REF: 111115-1

DEPT:

539.023F563100



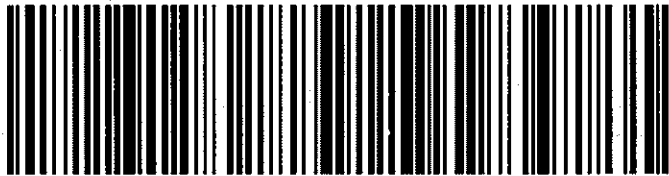
TRKW
 0201

7749 5766 9508

THU - 12 NOV 10:30A
PRIORITY OVERNIGHT

XX HLMA

49424
GRR
 MI-US



After printing this label:

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

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

04c

Sample Receipt Checklist

Client Name: **LTEHV**

Date/Time Received: **12-Nov-15 09:00**

Work Order: **1511663**

Received by: **DS**

Checklist completed by Diane Shaw 12-Nov-15
eSignature Date

Reviewed by: Chad Whelton 12-Nov-15
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>0.4/0.4 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/12/2015 11:32:13 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



16-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **1511727**

Dear Chris,

ALS Environmental received 7 samples on 13-Nov-2015 09:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 16.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511727

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1511727-01	EB-01	Soil		11/11/2015 14:57	11/13/2015 09:00	<input type="checkbox"/>
1511727-02	EB-02	Soil		11/11/2015 15:02	11/13/2015 09:00	<input type="checkbox"/>
1511727-03	EB-03	Soil		11/11/2015 15:05	11/13/2015 09:00	<input type="checkbox"/>
1511727-04	SWALL-01	Soil		11/11/2015 15:07	11/13/2015 09:00	<input type="checkbox"/>
1511727-05	WWALL-01	Soil		11/11/2015 15:12	11/13/2015 09:00	<input type="checkbox"/>
1511727-06	WWALL-02	Soil		11/11/2015 15:15	11/13/2015 09:00	<input type="checkbox"/>
1511727-07	WWALL-03	Soil		11/11/2015 15:20	11/13/2015 09:00	<input type="checkbox"/>

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511727

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: EB-01
Collection Date: 11/11/2015 02:57 PM

Work Order: 1511727
Lab ID: 1511727-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	20		1.8	5.3	mg/Kg-dry	1	11/14/2015 10:48
ORO (C28-C40)	8.2		1.8	5.3	mg/Kg-dry	1	11/14/2015 10:48
Surr: 4-Terphenyl-d14	58.4			39-133	%REC	1	11/14/2015 10:48
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,600	3,200	µg/Kg-dry	1	11/13/2015 20:27
Surr: Toluene-d8	102			50-150	%REC	1	11/13/2015 20:27
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	23		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: EB-02
Collection Date: 11/11/2015 03:02 PM

Work Order: 1511727
Lab ID: 1511727-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	20		1.6	5.0	mg/Kg-dry	1	11/14/2015 11:15
ORO (C28-C40)	6.7		1.7	5.0	mg/Kg-dry	1	11/14/2015 11:15
Surr: 4-Terphenyl-d14	64.2			39-133	%REC	1	11/14/2015 11:15
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,100	µg/Kg-dry	1	11/13/2015 20:52
Surr: Toluene-d8	104			50-150	%REC	1	11/13/2015 20:52
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	18		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: EB-03
Collection Date: 11/11/2015 03:05 PM

Work Order: 1511727
Lab ID: 1511727-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	1,700		1.6	4.9	mg/Kg-dry	1	11/14/2015 11:42
ORO (C28-C40)	17		1.7	4.9	mg/Kg-dry	1	11/14/2015 11:42
Surr: 4-Terphenyl-d14	69.9			39-133	%REC	1	11/14/2015 11:42
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	11/13/2015 21:16
Surr: Toluene-d8	104			50-150	%REC	1	11/13/2015 21:16
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	18		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
 Project: Gamma State 14-15D
 Sample ID: SWALL-01
 Collection Date: 11/11/2015 03:07 PM

Work Order: 1511727
 Lab ID: 1511727-04
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	3.2	J	1.5	4.7	mg/Kg-dry	1	11/14/2015 12:10
ORO (C28-C40)	U		1.6	4.7	mg/Kg-dry	1	11/14/2015 12:10
Surr: 4-Terphenyl-d14	60.5			39-133	%REC	1	11/14/2015 12:10
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/13/2015 21:41
Surr: Toluene-d8	105			50-150	%REC	1	11/13/2015 21:41
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	13		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: WWALL-01
Collection Date: 11/11/2015 03:12 PM

Work Order: 1511727
Lab ID: 1511727-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	U		1.5	4.6	mg/Kg-dry	1	11/14/2015 12:37
ORO (C28-C40)	U		1.6	4.6	mg/Kg-dry	1	11/14/2015 12:37
Surr: 4-Terphenyl-d14	56.9			39-133	%REC	1	11/14/2015 12:37
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,800	µg/Kg-dry	1	11/13/2015 23:19
Surr: Toluene-d8	102			50-150	%REC	1	11/13/2015 23:19
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	9.9		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: WWALL-02
Collection Date: 11/11/2015 03:15 PM

Work Order: 1511727
Lab ID: 1511727-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	12		1.5	4.6	mg/Kg-dry	1	11/14/2015 13:04
ORO (C28-C40)	5.5		1.6	4.6	mg/Kg-dry	1	11/14/2015 13:04
Surr: 4-Terphenyl-d14	58.7			39-133	%REC	1	11/14/2015 13:04
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,800	µg/Kg-dry	1	11/13/2015 23:44
Surr: Toluene-d8	100			50-150	%REC	1	11/13/2015 23:44
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	9.1		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: WWALL-03
Collection Date: 11/11/2015 03:20 PM

Work Order: 1511727
Lab ID: 1511727-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	2.2	J	1.6	4.8	mg/Kg-dry	1	11/14/2015 13:58
ORO (C28-C40)	U		1.7	4.8	mg/Kg-dry	1	11/14/2015 13:58
Surr: 4-Terphenyl-d14	58.9			39-133	%REC	1	11/14/2015 13:58
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/14/2015 12:08
Surr: Toluene-d8	102			50-150	%REC	1	11/14/2015 12:08
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	16		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Work Order: 1511727
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78865** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-78865-78865				Units: mg/Kg		Analysis Date: 11/14/2015 09:00 A		
Client ID:		Run ID: GC8_151114A				SeqNo: 3568223		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)	U	5.0								
ORO (C28-C40)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.368</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>68.4</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-78865-78865				Units: mg/Kg		Analysis Date: 11/14/2015 09:27 A		
Client ID:		Run ID: GC8_151114A				SeqNo: 3568225		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)	161	5.0	200	0	80.5	61-109	0			
ORO (C28-C40)	160.2	5.0	200	0	80.1	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.246</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>62.3</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 1511727-01B MS				Units: mg/Kg		Analysis Date: 11/14/2015 09:54 A		
Client ID: EB-01		Run ID: GC8_151114A				SeqNo: 3568227		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)	150.4	4.1	162.4	15.46	83.1	48-110	0			
ORO (C28-C40)	125.5	4.1	162.4	6.291	73.4	39-140	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.9977</i>	<i>0</i>	<i>1.624</i>	<i>0</i>	<i>61.4</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 1511727-01B MSD				Units: mg/Kg		Analysis Date: 11/14/2015 10:21 A		
Client ID: EB-01		Run ID: GC8_151114A				SeqNo: 3568229		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)	146.5	4.2	166.5	15.46	78.7	48-110	150.4	2.63	30	
ORO (C28-C40)	128.7	4.2	166.5	6.291	73.5	39-140	125.5	2.5	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>0.997</i>	<i>0</i>	<i>1.665</i>	<i>0</i>	<i>59.9</i>	<i>39-133</i>	<i>0.9977</i>	<i>0.0693</i>	<i>30</i>	

The following samples were analyzed in this batch:

1511727-01B	1511727-02B	1511727-03B
1511727-04B	1511727-05B	1511727-06B
1511727-07B		

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

Client: LT Environmental, Inc
 Work Order: 1511727
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78868** Instrument ID **GC10** Method: **SW8015D**

MBLK		Sample ID: MBLK-78868-78868				Units: µg/Kg		Analysis Date: 11/13/2015 07:38 PM		
Client ID:		Run ID: GC10_151113A				SeqNo: 3566242		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
GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	4988	0	5000	0	99.8	50-150	0			

LCS		Sample ID: LCS-78868-78868				Units: µg/Kg		Analysis Date: 11/13/2015 07:14 PM		
Client ID:		Run ID: GC10_151113A				SeqNo: 3566241		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
GRO (C6-C10)	540600	2,500	500000	0	108	70-130	0			
Surr: Toluene-d8	4975	0	5000	0	99.5	50-150	0			

MS		Sample ID: 1511730-08A MS				Units: µg/Kg		Analysis Date: 11/13/2015 10:05 PM		
Client ID:		Run ID: GC10_151113A				SeqNo: 3566248		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
GRO (C6-C10)	707300	2,500	500000	0	141	70-130	0			S
Surr: Toluene-d8	5273	0	5000	0	105	50-150	0			

MSD		Sample ID: 1511730-08A MSD				Units: µg/Kg		Analysis Date: 11/13/2015 10:30 PM		
Client ID:		Run ID: GC10_151113A				SeqNo: 3566249		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
GRO (C6-C10)	663000	2,500	500000	0	133	70-130	707300	6.47	30	S
Surr: Toluene-d8	4975	0	5000	0	99.5	50-150	5273	5.82	30	

The following samples were analyzed in this batch:

1511727-01A	1511727-02A	1511727-03A
1511727-04A	1511727-05A	1511727-06A
1511727-07A		

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

Client: LT Environmental, Inc
Work Order: 1511727
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176226** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176226				Units: % of sample		Analysis Date: 11/13/2015 01:02 PM			
Client ID:		Run ID: MOIST_151113A				SeqNo: 3567684		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture U 0.050

LCS				Sample ID: LCS-R176226				Units: % of sample			Analysis Date: 11/13/2015 01:02 PM			
Client ID:				Run ID: MOIST_151113A				SeqNo: 3567683			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: 1511677-01A DUP				Units: % of sample			Analysis Date: 11/13/2015 01:02 PM			
Client ID:				Run ID: MOIST_151113A				SeqNo: 3567647			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 33.42 0.050 0 0 0 33.63 0.626 20

DUP				Sample ID: 1511730-03B DUP				Units: % of sample			Analysis Date: 11/13/2015 01:02 PM			
Client ID:				Run ID: MOIST_151113A				SeqNo: 3567658			Prep Date:		DF: 1	
Analyte				Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.99 0.050 0 0 0 13.91 0.573 20

The following samples were analyzed in this batch:

1511727-01B	1511727-02B	1511727-03B
1511727-04B	1511727-05B	1511727-06B
1511727-07B		

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

1511727

ALS Laboratory Group		CHAIN OF CUSTODY				DOC number (for client tracking)	
		Failure to complete all section of this form may delay analysis.				Page 1 of 1	
CLIENT CONTACT AND REPORTING INFORMATION		INVOICE ADDRESS (if other than reporting address)				ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)	
Company Name: LT Environmental		Company Name: SAME				BTEX TPH GRO/DRO/ORO 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	
Project Manager: Chris Roy		Contact Name: SAME					
Address: 4600 West 60th Ave		Address: SAME					
Avada, CO 80003							
Phone: 303-433-8788							
Email: croy@ltenv.com, wtoews@ltenv.com		PROJECT INFORMATION					
Sampler Name (Print): Wesley Toews		Project ID: 039615002					
Site: Gamma State 14-150		PO No:					
SERVICE REQUEST (Express services subject to availability)		ALS Quote No:					
<input type="checkbox"/> Regular (default) 5-day Standard TAT <input checked="" type="checkbox"/> Express (Pls specify date required <u>same day</u>) (express fee will apply)							
ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	Depth (ft)	SAMPLING AND CONTAINER INFO			Matrix	CROSS THE REQUESTED ANALYSIS
			Date	Time	Test Bottle		
1	EB-01	Surface	11-11-15	1457	2	S	X
2	EB-02			1502			X
3	EB-03			1505			X
4	SW11-01			1507			X
5	WW11-01			1512			X
6	WW11-02			1515			X
7	WW11-03			1520			X
CLIENT SIGNATURES		For lab use only					
Client's Signature: <u>[Signature]</u>		Cooler Security Seal		Sample Temp: <u>3.8</u>	No of Cooler Received	Received by (lab): <u>[Signature]</u> Date and Time: <u>11/13/15 0900</u>	
Client's Date and Time of Completion: <u>11-12-15 1341</u>		<input type="checkbox"/> sealed <input type="checkbox"/> broken <input type="checkbox"/> not available		<input type="checkbox"/> chilled deg °C <input type="checkbox"/> ambient	carton / cooler box	Committed by: <u>[Signature]</u> 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)							

4.42

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: 12NOV15
 ACTWGT: 68.00 LB
 CAD: 2264840/NET3870
 DIMS: 24x15x15 IN
 BILL SENDER

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

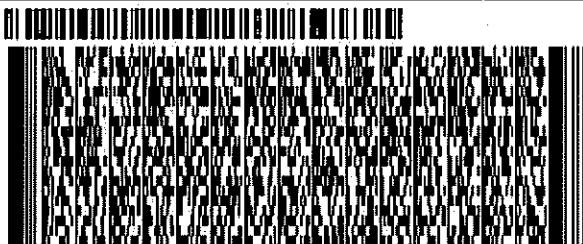
HOLLAND MI 49424

(616) 399-6070
 RV
 PO: PARACHUTE

REF: 111215-1

DEPT:

539.023F863100



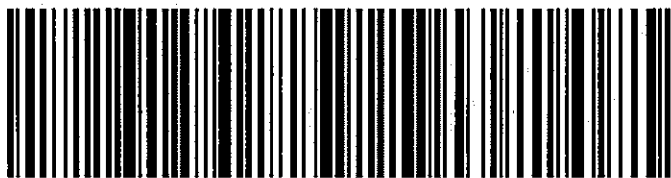
TRK#
 0201

7749 6833 2896

FRI - 13 NOV 10:30A
PRIORITY OVERNIGHT

XX HLMA

49424
MI-US GRR



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.

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Sample Receipt Checklist

Client Name: LTENV

Date/Time Received: 13-Nov-15 09:00

Work Order: 1511727

Received by: DS

Checklist completed by Diane Shaw 13-Nov-15
eSignature Date

Reviewed by: Chad Whelton 16-Nov-15
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.4/4.4 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/13/2015 11:13:37 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



16-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **1511730**

Dear Chris,

ALS Environmental received 10 samples on 13-Nov-2015 09:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 23.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511730

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1511730-01	SS14	Soil		11/12/2015 07:40	11/13/2015 09:00	<input type="checkbox"/>
1511730-02	SS15	Soil		11/12/2015 07:45	11/13/2015 09:00	<input type="checkbox"/>
1511730-03	SS16	Soil		11/12/2015 07:50	11/13/2015 09:00	<input type="checkbox"/>
1511730-04	SS17	Soil		11/12/2015 08:00	11/13/2015 09:00	<input type="checkbox"/>
1511730-05	SS18	Soil		11/12/2015 08:05	11/13/2015 09:00	<input type="checkbox"/>
1511730-06	SS19	Soil		11/12/2015 08:10	11/13/2015 09:00	<input type="checkbox"/>
1511730-07	SS20	Soil		11/12/2015 08:15	11/13/2015 09:00	<input type="checkbox"/>
1511730-08	SS21	Soil		11/12/2015 08:20	11/13/2015 09:00	<input type="checkbox"/>
1511730-09	SS22	Soil		11/12/2015 08:25	11/13/2015 09:00	<input type="checkbox"/>
1511730-10	SS23	Soil		11/12/2015 08:30	11/13/2015 09:00	<input type="checkbox"/>

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc

Project: Gamma State 14-15D

Work Order: 1511730

Case Narrative

Batch 78860, Method VOC_8260_S, Sample 1511730-08A MS/MSD: The MS and MSD recovery was above the upper control limit for GRO. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511730

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS14
Collection Date: 11/12/2015 07:40 AM

Work Order: 1511730
Lab ID: 1511730-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	620		7.9	24	mg/Kg-dry	5	11/14/2015 14:25
ORO (C28-C40)	51		8.2	24	mg/Kg-dry	5	11/14/2015 14:25
Surr: 4-Terphenyl-d14	59.8			39-133	%REC	5	11/14/2015 14:25
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/14/2015 12:33
Surr: Toluene-d8	102			50-150	%REC	1	11/14/2015 12:33
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	13		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS15
Collection Date: 11/12/2015 07:45 AM

Work Order: 1511730
Lab ID: 1511730-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	650		7.8	24	mg/Kg-dry	5	11/14/2015 14:52
ORO (C28-C40)	49		8.2	24	mg/Kg-dry	5	11/14/2015 14:52
Surr: 4-Terphenyl-d14	72.7			39-133	%REC	5	11/14/2015 14:52
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/14/2015 12:57
Surr: Toluene-d8	103			50-150	%REC	1	11/14/2015 12:57
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	12		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS16
Collection Date: 11/12/2015 07:50 AM

Work Order: 1511730
Lab ID: 1511730-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	190		8.0	24	mg/Kg-dry	5	11/14/2015 15:19
ORO (C28-C40)	30		8.3	24	mg/Kg-dry	5	11/14/2015 15:19
Surr: 4-Terphenyl-d14	62.5			39-133	%REC	5	11/14/2015 15:19
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/14/2015 01:22
Surr: Toluene-d8	101			50-150	%REC	1	11/14/2015 01:22
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS17
Collection Date: 11/12/2015 08:00 AM

Work Order: 1511730
Lab ID: 1511730-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	76		8.0	24	mg/Kg-dry	5	11/14/2015 15:47
ORO (C28-C40)	26		8.4	24	mg/Kg-dry	5	11/14/2015 15:47
Surr: 4-Terphenyl-d14	59.1			39-133	%REC	5	11/14/2015 15:47
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/14/2015 01:46
Surr: Toluene-d8	102			50-150	%REC	1	11/14/2015 01:46
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS18
Collection Date: 11/12/2015 08:05 AM

Work Order: 1511730
Lab ID: 1511730-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	170		7.8	23	mg/Kg-dry	5	11/14/2015 16:14
ORO (C28-C40)	28		8.1	23	mg/Kg-dry	5	11/14/2015 16:14
Surr: 4-Terphenyl-d14	73.2			39-133	%REC	5	11/14/2015 16:14
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/14/2015 02:11
Surr: Toluene-d8	102			50-150	%REC	1	11/14/2015 02:11
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp**Date:** 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS19
Collection Date: 11/12/2015 08:10 AM

Work Order: 1511730
Lab ID: 1511730-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	540		7.9	24	mg/Kg-dry	5	11/14/2015 16:41
ORO (C28-C40)	36		8.3	24	mg/Kg-dry	5	11/14/2015 16:41
Surr: 4-Terphenyl-d14	71.6			39-133	%REC	5	11/14/2015 16:41
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/14/2015 02:35
Surr: Toluene-d8	104			50-150	%REC	1	11/14/2015 02:35
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS20
Collection Date: 11/12/2015 08:15 AM

Work Order: 1511730
Lab ID: 1511730-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	700		8.0	24	mg/Kg-dry	5	11/14/2015 17:08
ORO (C28-C40)	37		8.3	24	mg/Kg-dry	5	11/14/2015 17:08
Surr: 4-Terphenyl-d14	80.2			39-133	%REC	5	11/14/2015 17:08
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/14/2015 03:00
Surr: Toluene-d8	100			50-150	%REC	1	11/14/2015 03:00
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	16		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS21
Collection Date: 11/12/2015 08:20 AM

Work Order: 1511730
Lab ID: 1511730-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	310		7.8	24	mg/Kg-dry	5	11/14/2015 17:35
ORO (C28-C40)	28		8.2	24	mg/Kg-dry	5	11/14/2015 17:35
Surr: 4-Terphenyl-d14	62.6			39-133	%REC	5	11/14/2015 17:35
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/13/2015 20:03
Surr: Toluene-d8	103			50-150	%REC	1	11/13/2015 20:03
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3541 / 11/13/15		Analyst: RS
Acenaphthene	U		0.0028	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Anthracene	U		0.0037	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Benzo(a)anthracene	U		0.0046	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Benzo(a)pyrene	U		0.0016	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Benzo(b)fluoranthene	U		0.0026	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Benzo(k)fluoranthene	U		0.0047	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Chrysene	U		0.0064	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Dibenzo(a,h)anthracene	U		0.0025	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Fluoranthene	U		0.0046	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Fluorene	U		0.0042	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Indeno(1,2,3-cd)pyrene	U		0.0047	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Naphthalene	U		0.0020	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Pyrene	U		0.0057	0.0076	mg/Kg-dry	1	11/14/2015 17:45
Surr: 2-Fluorobiphenyl	81.6			12-100	%REC	1	11/14/2015 17:45
Surr: 4-Terphenyl-d14	99.1			25-137	%REC	1	11/14/2015 17:45
Surr: Nitrobenzene-d5	92.5			37-107	%REC	1	11/14/2015 17:45
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B		Prep: SW5035 / 11/13/15		Analyst: DD
Benzene	U		0.0079	0.035	mg/Kg-dry	1	11/16/2015 12:54
Ethylbenzene	U		0.0081	0.035	mg/Kg-dry	1	11/16/2015 12:54
m,p-Xylene	U		0.016	0.070	mg/Kg-dry	1	11/16/2015 12:54
o-Xylene	U		0.011	0.035	mg/Kg-dry	1	11/16/2015 12:54
Toluene	U		0.012	0.035	mg/Kg-dry	1	11/16/2015 12:54
Xylenes, Total	U		0.027	0.10	mg/Kg-dry	1	11/16/2015 12:54
Surr: 1,2-Dichloroethane-d4	100			70-130	%REC	1	11/16/2015 12:54
Surr: 4-Bromofluorobenzene	103			70-130	%REC	1	11/16/2015 12:54
Surr: Dibromofluoromethane	98.4			70-130	%REC	1	11/16/2015 12:54
Surr: Toluene-d8	95.4			70-130	%REC	1	11/16/2015 12:54
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS22
Collection Date: 11/12/2015 08:25 AM

Work Order: 1511730
Lab ID: 1511730-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	1,300		7.9	24	mg/Kg-dry	5	11/14/2015 18:02
ORO (C28-C40)	48		8.3	24	mg/Kg-dry	5	11/14/2015 18:02
Surr: 4-Terphenyl-d14	65.7			39-133	%REC	5	11/14/2015 18:02
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/14/2015 10:27
Surr: Toluene-d8	107			50-150	%REC	1	11/14/2015 10:27
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS23
Collection Date: 11/12/2015 08:30 AM

Work Order: 1511730
Lab ID: 1511730-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/13/15		Analyst: IT
DRO (C10-C28)	210		7.9	24	mg/Kg-dry	5	11/14/2015 18:57
ORO (C28-C40)	40		8.3	24	mg/Kg-dry	5	11/14/2015 18:57
Surr: 4-Terphenyl-d14	69.7			39-133	%REC	5	11/14/2015 18:57
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/13/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/14/2015 10:52
Surr: Toluene-d8	109			50-150	%REC	1	11/14/2015 10:52
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/13/2015 13:02

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

ALS Group USA, Corp

Date: 16-Nov-15

Client: LT Environmental, Inc
Work Order: 1511730
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78865** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-78865-78865				Units: mg/Kg		Analysis Date: 11/14/2015 09:00 A		
Client ID:		Run ID: GC8_151114A				SeqNo: 3568223		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)	U	5.0								
ORO (C28-C40)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.368</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>68.4</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-78865-78865				Units: mg/Kg		Analysis Date: 11/14/2015 09:27 A		
Client ID:		Run ID: GC8_151114A				SeqNo: 3568225		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)	161	5.0	200	0	80.5	61-109	0			
ORO (C28-C40)	160.2	5.0	200	0	80.1	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.246</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>62.3</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 1511727-01B MS				Units: mg/Kg		Analysis Date: 11/14/2015 09:54 A		
Client ID:		Run ID: GC8_151114A				SeqNo: 3568227		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)	150.4	4.1	162.4	15.46	83.1	48-110	0			
ORO (C28-C40)	125.5	4.1	162.4	6.291	73.4	39-140	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.9977</i>	<i>0</i>	<i>1.624</i>	<i>0</i>	<i>61.4</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 1511727-01B MSD				Units: mg/Kg		Analysis Date: 11/14/2015 10:21 A		
Client ID:		Run ID: GC8_151114A				SeqNo: 3568229		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)	146.5	4.2	166.5	15.46	78.7	48-110	150.4	2.63	30	
ORO (C28-C40)	128.7	4.2	166.5	6.291	73.5	39-140	125.5	2.5	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>0.997</i>	<i>0</i>	<i>1.665</i>	<i>0</i>	<i>59.9</i>	<i>39-133</i>	<i>0.9977</i>	<i>0.0693</i>	<i>30</i>	

The following samples were analyzed in this batch:

1511730-01B	1511730-02B	1511730-03B
1511730-04B	1511730-05B	1511730-06B
1511730-07B	1511730-08B	1511730-09B
1511730-10B		

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

Client: LT Environmental, Inc
 Work Order: 1511730
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78868** Instrument ID **GC10** Method: **SW8015D**

MBLK		Sample ID: MBLK-78868-78868				Units: µg/Kg		Analysis Date: 11/13/2015 07:38 PM		
Client ID:		Run ID: GC10_151113A				SeqNo: 3566242		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
GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	4988	0	5000	0	99.8	50-150	0			

LCS		Sample ID: LCS-78868-78868				Units: µg/Kg		Analysis Date: 11/13/2015 07:14 PM		
Client ID:		Run ID: GC10_151113A				SeqNo: 3566241		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
GRO (C6-C10)	540600	2,500	500000	0	108	70-130	0			
Surr: Toluene-d8	4975	0	5000	0	99.5	50-150	0			

MS		Sample ID: 1511730-08A MS				Units: µg/Kg		Analysis Date: 11/13/2015 10:05 PM		
Client ID: SS21		Run ID: GC10_151113A				SeqNo: 3566248		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
GRO (C6-C10)	707300	2,500	500000	0	141	70-130	0			S
Surr: Toluene-d8	5273	0	5000	0	105	50-150	0			

MSD		Sample ID: 1511730-08A MSD				Units: µg/Kg		Analysis Date: 11/13/2015 10:30 PM		
Client ID: SS21		Run ID: GC10_151113A				SeqNo: 3566249		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
GRO (C6-C10)	663000	2,500	500000	0	133	70-130	707300	6.47	30	S
Surr: Toluene-d8	4975	0	5000	0	99.5	50-150	5273	5.82	30	

The following samples were analyzed in this batch:

1511730-01A	1511730-02A	1511730-03A
1511730-04A	1511730-05A	1511730-06A
1511730-07A	1511730-08A	1511730-09A
1511730-10A		

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

Client: LT Environmental, Inc
 Work Order: 1511730
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78858** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-78858-78858				Units: µg/Kg		Analysis Date: 11/13/2015 06:34 PM		
Client ID:		Run ID: SVMS4_151113A				SeqNo: 3567024		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	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	1626	0	1667	0	97.6	12-100	0			
Surr: 4-Terphenyl-d14	1811	0	1667	0	109	25-137	0			
Surr: Nitrobenzene-d5	1593	0	1667	0	95.6	37-107	0			

LCS		Sample ID: SLCSS1-78858-78858				Units: µg/Kg		Analysis Date: 11/13/2015 07:00 PM		
Client ID:		Run ID: SVMS4_151113A				SeqNo: 3567025		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	613	6.7	666.7	0	91.9	45-110	0			
Anthracene	686.7	6.7	666.7	0	103	55-105	0			
Benzo(a)anthracene	691	6.7	666.7	0	104	50-110	0			
Benzo(a)pyrene	668	6.7	666.7	0	100	50-110	0			
Benzo(b)fluoranthene	683	6.7	666.7	0	102	45-115	0			
Benzo(k)fluoranthene	674.7	6.7	666.7	0	101	45-115	0			
Chrysene	686.7	6.7	666.7	0	103	55-110	0			
Dibenzo(a,h)anthracene	721	6.7	666.7	0	108	40-125	0			
Fluoranthene	681	6.7	666.7	0	102	55-115	0			
Fluorene	640.3	6.7	666.7	0	96	50-110	0			
Indeno(1,2,3-cd)pyrene	734	6.7	666.7	0	110	40-120	0			
Naphthalene	572	6.7	666.7	0	85.8	40-105	0			
Pyrene	764.7	6.7	666.7	0	115	45-125	0			
Surr: 2-Fluorobiphenyl	1469	0	1667	0	88.1	12-100	0			
Surr: 4-Terphenyl-d14	1681	0	1667	0	101	25-137	0			
Surr: Nitrobenzene-d5	1507	0	1667	0	90.4	37-107	0			

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

Client: LT Environmental, Inc
 Work Order: 1511730
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78858** Instrument ID **SVMS4** Method: **SW846 8270D**

MS				Sample ID: 1511641-04A MS			Units: µg/Kg		Analysis Date: 11/13/2015 11:03 PM	
Client ID:				Run ID: SVMS4_151113A			SeqNo: 3567029		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	583.9	6.5	651	1.989	89.4	45-110	0			
Anthracene	606.1	6.5	651	10.61	91.5	55-105	0			
Benzo(a)anthracene	607.7	6.5	651	60.66	84	50-110	0			
Benzo(a)pyrene	584.3	6.5	651	50.39	82	50-110	0			
Benzo(b)fluoranthene	603.2	6.5	651	66.63	82.4	45-115	0			
Benzo(k)fluoranthene	576.5	6.5	651	25.52	84.6	45-115	0			
Chrysene	598.6	6.5	651	54.7	83.5	55-110	0			
Dibenzo(a,h)anthracene	551.1	6.5	651	7.624	83.5	40-125	0			
Fluoranthene	602.2	6.5	651	92.49	78.3	55-115	0			
Fluorene	602.2	6.5	651	4.309	91.8	50-110	0			
Indeno(1,2,3-cd)pyrene	564.1	6.5	651	36.8	81	40-120	0			
Naphthalene	541.6	6.5	651	5.635	82.3	40-105	0			
Pyrene	669.9	6.5	651	79.89	90.6	45-125	0			
Surr: 2-Fluorobiphenyl	1338	0	1628	0	82.2	12-100	0			
Surr: 4-Terphenyl-d14	1340	0	1628	0	82.3	25-137	0			
Surr: Nitrobenzene-d5	1345	0	1628	0	82.7	37-107	0			

MSD				Sample ID: 1511641-04A MSD			Units: µg/Kg		Analysis Date: 11/13/2015 11:29 PM	
Client ID:				Run ID: SVMS4_151113A			SeqNo: 3567030		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	549.6	6.5	649.3	1.989	84.3	45-110	583.9	6.05	30	
Anthracene	616.8	6.5	649.3	10.61	93.4	55-105	606.1	1.76	30	
Benzo(a)anthracene	659.4	6.5	649.3	60.66	92.2	50-110	607.7	8.15	30	
Benzo(a)pyrene	611.3	6.5	649.3	50.39	86.4	50-110	584.3	4.53	30	
Benzo(b)fluoranthene	651.3	6.5	649.3	66.63	90	45-115	603.2	7.67	30	
Benzo(k)fluoranthene	619.8	6.5	649.3	25.52	91.5	45-115	576.5	7.24	30	
Chrysene	657.1	6.5	649.3	54.7	92.8	55-110	598.6	9.32	30	
Dibenzo(a,h)anthracene	573	6.5	649.3	7.624	87.1	40-125	551.1	3.9	30	
Fluoranthene	649.6	6.5	649.3	92.49	85.8	55-115	602.2	7.58	30	
Fluorene	575	6.5	649.3	4.309	87.9	50-110	602.2	4.62	30	
Indeno(1,2,3-cd)pyrene	594.4	6.5	649.3	36.8	85.9	40-120	564.1	5.24	30	
Naphthalene	438.6	6.5	649.3	5.635	66.7	40-105	541.6	21	30	
Pyrene	698	6.5	649.3	79.89	95.2	45-125	669.9	4.11	30	
Surr: 2-Fluorobiphenyl	1214	0	1623	0	74.8	12-100	1338	9.69	40	
Surr: 4-Terphenyl-d14	1320	0	1623	0	81.3	25-137	1340	1.51	40	
Surr: Nitrobenzene-d5	1142	0	1623	0	70.3	37-107	1345	16.4	40	

The following samples were analyzed in this batch: 1511730-08B

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

Client: LT Environmental, Inc
 Work Order: 1511730
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78860** Instrument ID **VMS7** Method: **SW8260B**

MS				Sample ID: 1511730-08A MS			Units: µg/Kg		Analysis Date: 11/16/2015 02:09 A		
Client ID: SS21				Run ID: VMS7_151115A			SeqNo: 3567841		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	
Benzene	1096	30	1000	0	110	75-125	0				
Ethylbenzene	1064	30	1000	0	106	75-125	0				
m,p-Xylene	2072	60	2000	8	103	80-125	0				
o-Xylene	1060	30	1000	0	106	75-125	0				
Toluene	1070	30	1000	7	106	70-125	0				
Xylenes, Total	3132	90	3000	0	104	75-125	0				
Surr: 1,2-Dichloroethane-d4	976	0	1000	0	97.6	70-130	0				
Surr: 4-Bromofluorobenzene	1050	0	1000	0	105	70-130	0				
Surr: Dibromofluoromethane	967	0	1000	0	96.7	70-130	0				
Surr: Toluene-d8	952.5	0	1000	0	95.2	70-130	0				

MSD				Sample ID: 1511730-08A MSD			Units: µg/Kg		Analysis Date: 11/16/2015 02:35 A		
Client ID: SS21				Run ID: VMS7_151115A			SeqNo: 3567842		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	
Benzene	1198	30	1000	0	120	75-125	1096	8.93	30		
Ethylbenzene	1160	30	1000	0	116	75-125	1064	8.59	30		
m,p-Xylene	2243	60	2000	8	112	80-125	2072	7.9	30		
o-Xylene	1122	30	1000	0	112	75-125	1060	5.77	30		
Toluene	1141	30	1000	7	113	70-125	1070	6.38	30		
Xylenes, Total	3366	90	3000	0	112	75-125	3132	7.19	30		
Surr: 1,2-Dichloroethane-d4	1008	0	1000	0	101	70-130	976	3.23	30		
Surr: 4-Bromofluorobenzene	1047	0	1000	0	105	70-130	1050	0.286	30		
Surr: Dibromofluoromethane	966.5	0	1000	0	96.6	70-130	967	0.0517	30		
Surr: Toluene-d8	959.5	0	1000	0	96	70-130	952.5	0.732	30		

The following samples were analyzed in this batch:

1511730-08A

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

Client: LT Environmental, Inc
Work Order: 1511730
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176226** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176226				Units: % of sample		Analysis Date: 11/13/2015 01:02 PM		
Client ID:		Run ID: MOIST_151113A				SeqNo: 3567684		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R176226				Units: % of sample		Analysis Date: 11/13/2015 01:02 PM		
Client ID:		Run ID: MOIST_151113A				SeqNo: 3567683		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: 1511677-01A DUP				Units: % of sample		Analysis Date: 11/13/2015 01:02 PM		
Client ID:		Run ID: MOIST_151113A				SeqNo: 3567647		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 33.42 0.050 0 0 0 33.63 0.626 20

DUP		Sample ID: 1511730-03B DUP				Units: % of sample		Analysis Date: 11/13/2015 01:02 PM		
Client ID: SS16		Run ID: MOIST_151113A				SeqNo: 3567658		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.99 0.050 0 0 0 13.91 0.573 20

The following samples were analyzed in this batch:

1511730-01B	1511730-02B	1511730-03B
1511730-04B	1511730-05B	1511730-06B
1511730-07B	1511730-08B	1511730-09B
1511730-10B		

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

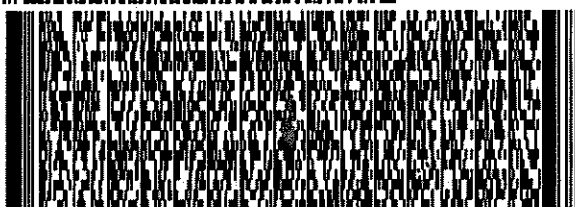
SHIP DATE: 12NOV15
ACTWGT: 88.00 LB
CAD: 22048401NET3670
DIMS: 24x15x15 IN
BILL SENDER

HOLLAND MI 49424

REF: 111215-1

PO: PARACHUTE

DEPT:



539 128553100

FRI - 13 NOV 10:30A
PRIORITY OVERNIGHT

TRK# 7749 6833 2896
0201

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Sample Receipt Checklist

Client Name: **LTENV**

Date/Time Received: **13-Nov-15 09:00**

Work Order: **1511730**

Received by: **DS**

Checklist completed by Diane Shaw 13-Nov-15
eSignature Date

Reviewed by: Chad Whelton 16-Nov-15
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.4/4.4 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/13/2015 11:09:39 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



17-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **1511827**

Dear Chris,

ALS Environmental received 10 samples on 14-Nov-2015 09:45 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 20.

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

Sincerely,

Chad Whelton

Electronically approved by: Joseph Ribar

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511827

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1511827-01	SS25	Soil		11/12/2015 14:35	11/14/2015 09:45	<input type="checkbox"/>
1511827-02	SS26	Soil		11/12/2015 14:40	11/14/2015 09:45	<input type="checkbox"/>
1511827-03	SS27	Soil		11/12/2015 14:45	11/14/2015 09:45	<input type="checkbox"/>
1511827-04	SS28	Soil		11/12/2015 14:50	11/14/2015 09:45	<input type="checkbox"/>
1511827-05	SS29	Soil		11/12/2015 14:55	11/14/2015 09:45	<input type="checkbox"/>
1511827-06	SS30	Soil		11/12/2015 15:00	11/14/2015 09:45	<input type="checkbox"/>
1511827-07	SS31	Soil		11/12/2015 15:05	11/14/2015 09:45	<input type="checkbox"/>
1511827-08	SS32	Soil		11/12/2015 15:20	11/14/2015 09:45	<input type="checkbox"/>
1511827-09	SS33	Soil		11/12/2015 15:25	11/14/2015 09:45	<input type="checkbox"/>
1511827-10	SS24	Soil		11/12/2015 14:30	11/14/2015 09:45	<input type="checkbox"/>

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511827

Case Narrative**QC Summary**

Batch 78892, Method DRO 8015, Sample 1511827-01B MS: The MS/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: DRO (C10-C28)

Batch 78900, Method GRO 8015, Sample 1511828-01A MS: The MS recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary.

ALS Group USA, Corp

Date: 17-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS25
Collection Date: 11/12/2015 02:35 PM

Work Order: 1511827
Lab ID: 1511827-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	4,000		7.9	24	mg/Kg-dry	5	11/16/2015 19:50
ORO (C28-C40)	100		1.7	4.8	mg/Kg-dry	1	11/16/2015 14:21
Surr: 4-Terphenyl-d14	55.0			39-133	%REC	1	11/16/2015 14:21
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/16/2015 12:14
Surr: Toluene-d8	126			50-150	%REC	1	11/16/2015 12:14
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	14		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: SS26
Collection Date: 11/12/2015 02:40 PM

Work Order: 1511827
Lab ID: 1511827-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	730		1.6	4.9	mg/Kg-dry	1	11/16/2015 15:46
ORO (C28-C40)	24		1.7	4.9	mg/Kg-dry	1	11/16/2015 15:46
Surr: 4-Terphenyl-d14	56.9			39-133	%REC	1	11/16/2015 15:46
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/16/2015 12:39
Surr: Toluene-d8	115			50-150	%REC	1	11/16/2015 12:39
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	15		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
 Sample ID: SS27
 Collection Date: 11/12/2015 02:45 PM

Work Order: 1511827
 Lab ID: 1511827-03
 Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	2,300		8.2	25	mg/Kg-dry	5	11/16/2015 20:45
ORO (C28-C40)	57		1.7	5.0	mg/Kg-dry	1	11/16/2015 16:13
Surr: 4-Terphenyl-d14	61.2			39-133	%REC	1	11/16/2015 16:13
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,100	µg/Kg-dry	1	11/16/2015 13:04
Surr: Toluene-d8	114			50-150	%REC	1	11/16/2015 13:04
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	19		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: SS28
Collection Date: 11/12/2015 02:50 PM

Work Order: 1511827
Lab ID: 1511827-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	2,400		7.9	24	mg/Kg-dry	5	11/16/2015 21:12
ORO (C28-C40)	55		1.7	4.8	mg/Kg-dry	1	11/16/2015 16:40
Surr: 4-Terphenyl-d14	73.4			39-133	%REC	1	11/16/2015 16:40
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/16/2015 13:29
Surr: Toluene-d8	120			50-150	%REC	1	11/16/2015 13:29
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	15		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: SS29
Collection Date: 11/12/2015 02:55 PM

Work Order: 1511827
Lab ID: 1511827-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	4,400		7.7	23	mg/Kg-dry	5	11/17/2015 09:21
ORO (C28-C40)	120		1.6	4.7	mg/Kg-dry	1	11/16/2015 17:07
Surr: 4-Terphenyl-d14	63.4			39-133	%REC	1	11/16/2015 17:07
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	64,000		1,400	2,900	µg/Kg-dry	1	11/16/2015 13:54
Surr: Toluene-d8	126			50-150	%REC	1	11/16/2015 13:54
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	13		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: SS30
Collection Date: 11/12/2015 03:00 PM

Work Order: 1511827
Lab ID: 1511827-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	4,400		7.8	24	mg/Kg-dry	5	11/17/2015 09:48
ORO (C28-C40)	120		1.6	4.7	mg/Kg-dry	1	11/16/2015 17:34
Surr: 4-Terphenyl-d14	70.1			39-133	%REC	1	11/16/2015 17:34
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	78,000		1,400	2,900	µg/Kg-dry	1	11/16/2015 16:02
Surr: Toluene-d8	116			50-150	%REC	1	11/16/2015 16:02
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	14		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: SS31
Collection Date: 11/12/2015 03:05 PM

Work Order: 1511827
Lab ID: 1511827-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	2,900		7.8	24	mg/Kg-dry	5	11/17/2015 10:15
ORO (C28-C40)	71		1.6	4.7	mg/Kg-dry	1	11/16/2015 18:02
Surr: 4-Terphenyl-d14	61.6			39-133	%REC	1	11/16/2015 18:02
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/16/2015 16:27
Surr: Toluene-d8	119			50-150	%REC	1	11/16/2015 16:27
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	13		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: SS32
Collection Date: 11/12/2015 03:20 PM

Work Order: 1511827
Lab ID: 1511827-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	290		1.6	4.7	mg/Kg-dry	1	11/16/2015 18:29
ORO (C28-C40)	16		1.6	4.7	mg/Kg-dry	1	11/16/2015 18:29
Surr: 4-Terphenyl-d14	50.9			39-133	%REC	1	11/16/2015 18:29
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/16/2015 16:52
Surr: Toluene-d8	113			50-150	%REC	1	11/16/2015 16:52
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	12		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: SS33
Collection Date: 11/12/2015 03:25 PM

Work Order: 1511827
Lab ID: 1511827-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	1,100		1.6	4.9	mg/Kg-dry	1	11/16/2015 18:56
ORO (C28-C40)	40		1.7	4.9	mg/Kg-dry	1	11/16/2015 18:56
Surr: 4-Terphenyl-d14	62.9			39-133	%REC	1	11/16/2015 18:56
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/16/2015 17:17
Surr: Toluene-d8	117			50-150	%REC	1	11/16/2015 17:17
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	15		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: SS24
Collection Date: 11/12/2015 02:30 PM

Work Order: 1511827
Lab ID: 1511827-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	4,000		7.7	23	mg/Kg-dry	5	11/17/2015 10:43
ORO (C28-C40)	100		1.6	4.6	mg/Kg-dry	1	11/16/2015 19:23
Surr: 4-Terphenyl-d14	61.0			39-133	%REC	1	11/16/2015 19:23
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/16/2015 17:42
Surr: Toluene-d8	112			50-150	%REC	1	11/16/2015 17:42
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	14		0.025	0.050	% of sample	1	11/15/2015 20:30

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

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511827

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 17-Nov-15

Client: LT Environmental, Inc
Work Order: 1511827
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78892** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-78892-78892				Units: mg/Kg		Analysis Date: 11/16/2015 12:32 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570111		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	5.0								
ORO (C28-C40)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>		<i>1.266</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>63.3</i>	<i>39-133</i>	<i>0</i>		

LCS		Sample ID: DLCSS1-78892-78892				Units: mg/Kg		Analysis Date: 11/16/2015 12:59 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570112		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	164.2	5.0	200	0	82.1	61-109	0			
ORO (C28-C40)	162.1	5.0	200	0	81	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>		<i>1.131</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>56.6</i>	<i>39-133</i>	<i>0</i>		

MS		Sample ID: 1511827-01B MS				Units: mg/Kg		Analysis Date: 11/16/2015 01:27 PM		
Client ID: SS25		Run ID: GC8_151116A				SeqNo: 3570114		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	3890	4.1	164.4	3680	128	48-110	0			SEO
ORO (C28-C40)	204	4.1	164.4	88.98	70	39-140	0			
<i>Surr: 4-Terphenyl-d14</i>		<i>0.964</i>	<i>0</i>	<i>1.644</i>	<i>0</i>	<i>58.6</i>	<i>39-133</i>	<i>0</i>		

MSD		Sample ID: 1511827-01B MSD				Units: mg/Kg		Analysis Date: 11/16/2015 01:54 PM		
Client ID: SS25		Run ID: GC8_151116A				SeqNo: 3570116		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	2907	4.2	166.1	3680	-465	48-110	3890	28.9	30	SEO
ORO (C28-C40)	182	4.2	166.1	88.98	56	39-140	204	11.4	30	
<i>Surr: 4-Terphenyl-d14</i>		<i>1.045</i>	<i>0</i>	<i>1.661</i>	<i>0</i>	<i>62.9</i>	<i>39-133</i>	<i>0.964</i>	<i>8.08</i>	<i>30</i>

The following samples were analyzed in this batch:

1511827-01B	1511827-02B	1511827-03B
1511827-04B	1511827-05B	1511827-06B
1511827-07B	1511827-08B	1511827-09B
1511827-10B		

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

Client: LT Environmental, Inc
 Work Order: 1511827
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78900** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-78900-78900				Units: µg/Kg		Analysis Date: 11/16/2015 11:24 A		
Client ID:		Run ID: GC9_151116A				SeqNo: 3570750		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	5084	0	5000	0	102	50-150	0			

LCS		Sample ID: LCS-78900-78900				Units: µg/Kg		Analysis Date: 11/16/2015 10:58 A		
Client ID:		Run ID: GC9_151116A				SeqNo: 3570749		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	524300	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	4932	0	5000	0	98.6	50-150	0			

MS		Sample ID: 1511828-01A MS				Units: µg/Kg		Analysis Date: 11/16/2015 02:47 PM		
Client ID:		Run ID: GC9_151116A				SeqNo: 3570757		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	683800	2,500	500000	0	137	70-130	0			S
Surr: Toluene-d8	5782	0	5000	0	116	50-150	0			

MSD		Sample ID: 1511828-01A MSD				Units: µg/Kg		Analysis Date: 11/16/2015 03:12 PM		
Client ID:		Run ID: GC9_151116A				SeqNo: 3570758		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	648300	2,500	500000	0	130	70-130	683800	5.33	30	
Surr: Toluene-d8	5664	0	5000	0	113	50-150	5782	2.06	30	

The following samples were analyzed in this batch:

1511827-01A	1511827-02A	1511827-03A
1511827-04A	1511827-05A	1511827-06A
1511827-07A	1511827-08A	1511827-09A
1511827-10A		

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

Client: LT Environmental, Inc
Work Order: 1511827
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176256** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176256				Units: % of sample		Analysis Date: 11/15/2015 08:30 PM		
Client ID:		Run ID: MOIST_151115A				SeqNo: 3568307		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS				Sample ID: LCS-R176256				Units: % of sample				Analysis Date: 11/15/2015 08:30 PM											
Client ID:				Run ID: MOIST_151115A				SeqNo: 3568305				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: 1511827-01B DUP				Units: % of sample			Analysis Date: 11/15/2015 08:30 PM			
Client ID: SS25				Run ID: MOIST_151115A				SeqNo: 3568249			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 13.96 0.050 0 0 0 14.03 0.5 20

DUP				Sample ID: 1511827-10B DUP				Units: % of sample			Analysis Date: 11/15/2015 08:30 PM			
Client ID: SS24				Run ID: MOIST_151115A				SeqNo: 3568279			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 13.34 0.050 0 0 0 13.54 1.49 20

The following samples were analyzed in this batch:

1511827-01B	1511827-02B	1511827-03B
1511827-04B	1511827-05B	1511827-06B
1511827-07B	1511827-08B	1511827-09B
1511827-10B		

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

1511827

ALS Laboratory Group		CHAIN OF CUSTODY				GOC number (for client tracking)	
Failure to complete all section of this form may delay analysis.		Page 1 of 2					
CLIENT CONTACT AND REPORTING INFORMATION		INVOICE ADDRESS (if other than reporting address)		ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)			
Company Name: LT Environmental		Company Name: SAME		BTEX TPH GRO/DRO/ORO 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			
Project Manager: Chris Roy		Contact Name: SAME					
Address: 4600 West 60th Ave		Address: SAME					
Arvada, CO 80003							
Phone: 303-433-9788							
Email: croy@ltenv.com, wtoews@ltenv.com		Project ID: 039615002					
Sampler Name (Print): Wesley Toews		Site: Gamma State 14-15D					
SERVICE REQUEST (Express services subject to availability)		PO No:					
<input type="checkbox"/> Regular (default) 5-day Standard TAT		ALS Quote No:					
<input checked="" type="checkbox"/> Express (Please specify date required <u>same day</u>) (express fee will apply)							
ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	Depth (ft)	SAMPLING AND CONTAINER INFO			Matrix	CROSS THE REQUESTED ANALYSIS
			Date	Time	Lot/Bottle		
1	SS25	1'	11-12-15	1435	2	S	X
2	SS26	↓	↓	1440	↓	↓	X
3	SS27	↓	↓	1445	↓	↓	X
4	SS28	↓	↓	1450	↓	↓	X
5	SS29	↓	↓	1455	↓	↓	X
6	SS30	↓	↓	1500	↓	↓	X
7	SS31	↓	↓	1505	↓	↓	X
8	SS32	↓	↓	1520	↓	↓	X
9	SS33	↓	↓	1525	↓	↓	X
CLIENT SIGNATURES		For lab use only					
Client's Signature: <u>[Signature]</u>		Cooler Security Seal <input type="checkbox"/> sealed	Sample Temp: <input type="checkbox"/> chilled deg °C <input type="checkbox"/> broken <input type="checkbox"/> ambient <input type="checkbox"/> not available	No of Cooler Received carton / cooler box	Received by (lab) <u>[Signature]</u>	Date and Time 11/14/15 0945	
Client's Date and Time of Completion: <u>11-13-15 1330</u>				Courier Name <u>[Signature]</u>	Committed by <u>[Signature]</u>	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)							

4.2°C

ORIGIN ID: RILA (816) 288-1033
 NICK MARTINEZ
 ALS ENVIRONMENTAL PARACHUTE
 PARACHUTE SERVICE CENTER
 127 EAST 1ST ST
 PARACHUTE, CO 81635
 UNITED STATES US

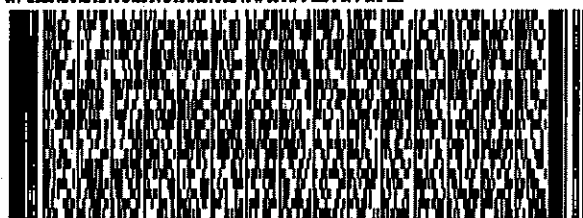
SHIP DATE: 13NOV15
 ACTWGT: 52.00 LB
 CAD: 22848401 NET 13670
 DIMS: 14x26x15 IN
 BILL SENDER

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

539.12AF56G1D0

HOLLAND MI 49424

(816) 399-6070 REF: 111315-1
 INV. PO: PARACHUTE DEPT:



FedEx
 Express



REL#
 3785348

1 of 2
 TRK# 7749 7836 3495
 0201
 ## MASTER ##

SATURDAY 12:00P
PRIORITY OVERNIGHT

X0 HLMA

49424
 MI-US **GRR**



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.

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Sample Receipt Checklist

Client Name: LTEV

Date/Time Received: 14-Nov-15 09:45

Work Order: 1511827

Received by: DS

Checklist completed by Diane Shaw 14-Nov-15
eSignature Date

Reviewed by: Chad Whelton 16-Nov-15
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2/4.2 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/14/2015 11:22:16 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



17-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **1511828**

Dear Chris,

ALS Environmental received 4 samples on 14-Nov-2015 09:45 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 14.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511828

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1511828-01	Overburden-01	Soil		11/12/2015 15:35	11/14/2015 09:45	<input type="checkbox"/>
1511828-02	WWall-04	Soil		11/12/2015 15:55	11/14/2015 09:45	<input type="checkbox"/>
1511828-03	NWall-01	Soil		11/12/2015 16:00	11/14/2015 09:45	<input type="checkbox"/>
1511828-04	EWall-01	Soil		11/12/2015 16:05	11/14/2015 09:45	<input type="checkbox"/>

ALS Group USA, Corp

Date: 17-Nov-15

Client: LT Environmental, Inc

Project: Gamma State 14-15D

Work Order: 1511828

Case Narrative

Batch 78900, Method GRO_8015_S, Sample 1511828-01A MS: The MS recovery was above the upper control limit for GRO. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511828

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 17-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: Overburden-01
Collection Date: 11/12/2015 03:35 PM

Work Order: 1511828
Lab ID: 1511828-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	790		1.5	4.7	mg/Kg-dry	1	11/16/2015 21:40
ORO (C28-C40)	23		1.6	4.7	mg/Kg-dry	1	11/16/2015 21:40
Surr: 4-Terphenyl-d14	60.6			39-133	%REC	1	11/16/2015 21:40
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,800	µg/Kg-dry	1	11/16/2015 11:49
Surr: Toluene-d8	110			50-150	%REC	1	11/16/2015 11:49
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	12		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: WWall-04
Collection Date: 11/12/2015 03:55 PM

Work Order: 1511828
Lab ID: 1511828-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	2.5	J	1.6	4.8	mg/Kg-dry	1	11/16/2015 22:07
ORO (C28-C40)	U		1.6	4.8	mg/Kg-dry	1	11/16/2015 22:07
Surr: 4-Terphenyl-d14	57.2			39-133	%REC	1	11/16/2015 22:07
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/16/2015 18:07
Surr: Toluene-d8	106			50-150	%REC	1	11/16/2015 18:07
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	14		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: NWall-01
Collection Date: 11/12/2015 04:00 PM

Work Order: 1511828
Lab ID: 1511828-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	190		1.5	4.5	mg/Kg-dry	1	11/16/2015 22:35
ORO (C28-C40)	7.6		1.6	4.5	mg/Kg-dry	1	11/16/2015 22:35
Surr: 4-Terphenyl-d14	54.8			39-133	%REC	1	11/16/2015 22:35
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,700	µg/Kg-dry	1	11/16/2015 18:32
Surr: Toluene-d8	107			50-150	%REC	1	11/16/2015 18:32
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	8.6		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: EWall-01
Collection Date: 11/12/2015 04:05 PM

Work Order: 1511828
Lab ID: 1511828-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	3.4	J	1.5	4.5	mg/Kg-dry	1	11/16/2015 23:02
ORO (C28-C40)	U		1.5	4.5	mg/Kg-dry	1	11/16/2015 23:02
Surr: 4-Terphenyl-d14	60.2			39-133	%REC	1	11/16/2015 23:02
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,700	µg/Kg-dry	1	11/16/2015 18:57
Surr: Toluene-d8	106			50-150	%REC	1	11/16/2015 18:57
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	7.6		0.025	0.050	% of sample	1	11/15/2015 20:30

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

ALS Group USA, Corp

Date: 17-Nov-15

Client: LT Environmental, Inc
Work Order: 1511828
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78892** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-78892-78892				Units: mg/Kg		Analysis Date: 11/16/2015 12:32 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570111		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	U	5.0								
ORO (C28-C40)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.266</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>63.3</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-78892-78892				Units: mg/Kg		Analysis Date: 11/16/2015 12:59 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570112		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	164.2	5.0	200	0	82.1	61-109	0			
ORO (C28-C40)	162.1	5.0	200	0	81	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.131</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>56.6</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 1511827-01B MS				Units: mg/Kg		Analysis Date: 11/16/2015 01:27 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570114		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	3890	4.1	164.4	3680	128	48-110	0			SEO
ORO (C28-C40)	204	4.1	164.4	88.98	70	39-140	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>0.964</i>	<i>0</i>	<i>1.644</i>	<i>0</i>	<i>58.6</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 1511827-01B MSD				Units: mg/Kg		Analysis Date: 11/16/2015 01:54 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570116		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	2907	4.2	166.1	3680	-465	48-110	3890	28.9	30	SEO
ORO (C28-C40)	182	4.2	166.1	88.98	56	39-140	204	11.4	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>1.045</i>	<i>0</i>	<i>1.661</i>	<i>0</i>	<i>62.9</i>	<i>39-133</i>	<i>0.964</i>	<i>8.08</i>	<i>30</i>	

The following samples were analyzed in this batch:

1511828-01B	1511828-02B	1511828-03B
1511828-04B		

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

Client: LT Environmental, Inc
 Work Order: 1511828
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78900** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-78900-78900				Units: µg/Kg		Analysis Date: 11/16/2015 11:24 A		
Client ID:		Run ID: GC9_151116A				SeqNo: 3570750		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	5084	0	5000	0	102	50-150	0			

LCS		Sample ID: LCS-78900-78900				Units: µg/Kg		Analysis Date: 11/16/2015 10:58 A		
Client ID:		Run ID: GC9_151116A				SeqNo: 3570749		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	524300	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	4932	0	5000	0	98.6	50-150	0			

MS		Sample ID: 1511828-01A MS				Units: µg/Kg		Analysis Date: 11/16/2015 02:47 PM		
Client ID: Overburden-01		Run ID: GC9_151116A				SeqNo: 3570757		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	683800	2,500	500000	0	137	70-130	0			S
Surr: Toluene-d8	5782	0	5000	0	116	50-150	0			

MSD		Sample ID: 1511828-01A MSD				Units: µg/Kg		Analysis Date: 11/16/2015 03:12 PM		
Client ID: Overburden-01		Run ID: GC9_151116A				SeqNo: 3570758		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	648300	2,500	500000	0	130	70-130	683800	5.33	30	
Surr: Toluene-d8	5664	0	5000	0	113	50-150	5782	2.06	30	

The following samples were analyzed in this batch:

1511828-01A	1511828-02A	1511828-03A
1511828-04A		

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

Client: LT Environmental, Inc
Work Order: 1511828
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176256** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176256				Units: % of sample		Analysis Date: 11/15/2015 08:30 PM		
Client ID:		Run ID: MOIST_151115A				SeqNo: 3568307		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS				Sample ID: LCS-R176256				Units: % of sample				Analysis Date: 11/15/2015 08:30 PM											
Client ID:				Run ID: MOIST_151115A				SeqNo: 3568305				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: 1511827-01B DUP				Units: % of sample			Analysis Date: 11/15/2015 08:30 PM			
Client ID:				Run ID: MOIST_151115A				SeqNo: 3568249			Prep Date:		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 13.96 0.050 0 0 0 14.03 0.5 20

DUP				Sample ID: 1511827-10B DUP				Units: % of sample			Analysis Date: 11/15/2015 08:30 PM			
Client ID:				Run ID: MOIST_151115A				SeqNo: 3568279			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 13.34 0.050 0 0 0 13.54 1.49 20

The following samples were analyzed in this batch:

1511828-01B	1511828-02B	1511828-03B
1511828-04B		

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

[illegible]

4.2-c

ORIGIN ID: RILA (816) 298-1033
NICK MARTINEZ
ALS ENVIRONMENTAL PARACHUTE
PARACHUTE SERVICE CENTER
127 EAST 1ST ST
PARACHUTE, CO 81835
UNITED STATES US

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

HOLLAND MI 49424

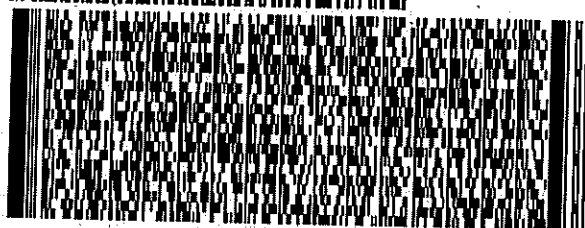
(816) 399-8070

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3785346

1 of 2

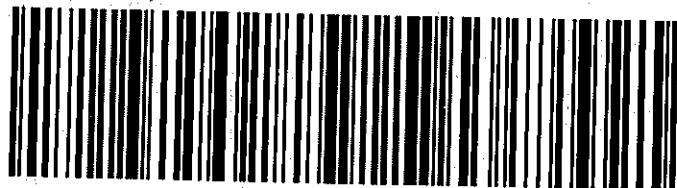
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Sample Receipt Checklist

Client Name: **LTEHV**

Date/Time Received: **14-Nov-15 09:45**

Work Order: **1511828**

Received by: **DS**

Checklist completed by Diane Shaw 14-Nov-15
eSignature Date

Reviewed by: Chad Whelton 16-Nov-15
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2/4.2 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/14/2015 11:26:23 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



17-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **1511829**

Dear Chris,

ALS 1 received 4 samples on 14-Nov-2015 09:45 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 14.

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

Sincerely,

Chad Whelton

Electronically approved by: Joseph Ribar

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511829

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1511829-01	EB-04	Soil		11/13/2015 12:40	11/14/2015 09:45	<input type="checkbox"/>
1511829-02	EB-05	Soil		11/13/2015 12:45	11/14/2015 09:45	<input type="checkbox"/>
1511829-03	PB-04	Soil		11/13/2015 12:10	11/14/2015 09:45	<input type="checkbox"/>
1511829-04	PB-05	Soil		11/13/2015 12:30	11/14/2015 09:45	<input type="checkbox"/>

ALS Group USA, Corp

Date: 17-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: EB-04
Collection Date: 11/13/2015 12:40 PM

Work Order: 1511829
Lab ID: 1511829-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/17/15		Analyst: IT
DRO (C10-C28)	U		1.4	4.3	mg/Kg-dry	1	11/17/2015 17:14
ORO (C28-C40)	U		1.5	4.3	mg/Kg-dry	1	11/17/2015 17:14
Surr: 4-Terphenyl-d14	71.5			39-133	%REC	1	11/17/2015 17:14
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,700	µg/Kg-dry	1	11/16/2015 19:22
Surr: Toluene-d8	106			50-150	%REC	1	11/16/2015 19:22
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	6.4		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: EB-05
Collection Date: 11/13/2015 12:45 PM

Work Order: 1511829
Lab ID: 1511829-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	U		1.5	4.5	mg/Kg-dry	1	11/16/2015 23:57
ORO (C28-C40)	U		1.5	4.5	mg/Kg-dry	1	11/16/2015 23:57
Surr: 4-Terphenyl-d14	64.1			39-133	%REC	1	11/16/2015 23:57
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,700	µg/Kg-dry	1	11/16/2015 19:47
Surr: Toluene-d8	110			50-150	%REC	1	11/16/2015 19:47
MOISTURE							
			Method: E160.3M				Analyst: LR
Moisture	6.8		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: PB-04
Collection Date: 11/13/2015 12:10 PM

Work Order: 1511829
Lab ID: 1511829-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	2.4	J	1.4	4.3	mg/Kg-dry	1	11/17/2015 12:24
ORO (C28-C40)	U		1.5	4.3	mg/Kg-dry	1	11/17/2015 12:24
Surr: 4-Terphenyl-d14	62.2			39-133	%REC	1	11/17/2015 12:24
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,600	µg/Kg-dry	1	11/16/2015 20:37
Surr: Toluene-d8	115			50-150	%REC	1	11/16/2015 20:37
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	5.2		0.025	0.050	% of sample	1	11/15/2015 20:30

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: Gamma State 14-15D
Sample ID: PB-05
Collection Date: 11/13/2015 12:30 PM

Work Order: 1511829
Lab ID: 1511829-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/14/15		Analyst: IT
DRO (C10-C28)	U		1.5	4.5	mg/Kg-dry	1	11/17/2015 12:51
ORO (C28-C40)	U		1.5	4.5	mg/Kg-dry	1	11/17/2015 12:51
Surr: 4-Terphenyl-d14	62.4			39-133	%REC	1	11/17/2015 12:51
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/14/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,700	µg/Kg-dry	1	11/16/2015 21:02
Surr: Toluene-d8	108			50-150	%REC	1	11/16/2015 21:02
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LR
Moisture	7.8		0.025	0.050	% of sample	1	11/15/2015 20:30

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

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511829

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

Client: LT Environmental, Inc
Work Order: 1511829
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78892** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-78892-78892				Units: mg/Kg		Analysis Date: 11/16/2015 12:32 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570111		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	U	5.0								
ORO (C28-C40)	U	5.0								
Surr: 4-Terphenyl-d14	1.266	0	2	0	63.3	39-133		0		

LCS		Sample ID: DLCSS1-78892-78892				Units: mg/Kg		Analysis Date: 11/16/2015 12:59 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570112		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	164.2	5.0	200	0	82.1	61-109		0		
ORO (C28-C40)	162.1	5.0	200	0	81	61-119		0		
Surr: 4-Terphenyl-d14	1.131	0	2	0	56.6	39-133		0		

MS		Sample ID: 1511827-01B MS				Units: mg/Kg		Analysis Date: 11/16/2015 01:27 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570114		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	3890	4.1	164.4	3680	128	48-110		0		SEO
ORO (C28-C40)	204	4.1	164.4	88.98	70	39-140		0		
Surr: 4-Terphenyl-d14	0.964	0	1.644	0	58.6	39-133		0		

MSD		Sample ID: 1511827-01B MSD				Units: mg/Kg		Analysis Date: 11/16/2015 01:54 PM		
Client ID:		Run ID: GC8_151116A				SeqNo: 3570116		Prep Date: 11/14/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	2907	4.2	166.1	3680	-465	48-110	3890	28.9	30	SEO
ORO (C28-C40)	182	4.2	166.1	88.98	56	39-140	204	11.4	30	
Surr: 4-Terphenyl-d14	1.045	0	1.661	0	62.9	39-133	0.964	8.08	30	

The following samples were analyzed in this batch:

1511829-01B	1511829-02B	1511829-03B
1511829-04B		

Client: LT Environmental, Inc
Work Order: 1511829
Project: Gamma State 14-15D

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)	U	5.0								
ORO (C28-C40)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>		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			
ORO (C28-C40)	158.9	5.0	200	0	79.5	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>		1.249	0	2	0	62.5	39-133	0		

The following samples were analyzed in this batch:

1511829-01B

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

Client: LT Environmental, Inc
 Work Order: 1511829
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **78900** Instrument ID **GC9** Method: **SW8015D**

MBLK	Sample ID: MBLK-78900-78900					Units: µg/Kg		Analysis Date: 11/16/2015 11:24 A		
Client ID:	Run ID: GC9_151116A				SeqNo: 3570750		Prep Date: 11/14/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	5084	0	5000	0	102	50-150	0			

LCS	Sample ID: LCS-78900-78900					Units: µg/Kg		Analysis Date: 11/16/2015 10:58 A		
Client ID:	Run ID: GC9_151116A				SeqNo: 3570749		Prep Date: 11/14/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	524300	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	4932	0	5000	0	98.6	50-150	0			

MS	Sample ID: 1511828-01A MS					Units: µg/Kg		Analysis Date: 11/16/2015 02:47 PM		
Client ID:	Run ID: GC9_151116A				SeqNo: 3570757		Prep Date: 11/14/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	683800	2,500	500000	0	137	70-130	0			S
Surr: Toluene-d8	5782	0	5000	0	116	50-150	0			

MSD	Sample ID: 1511828-01A MSD					Units: µg/Kg		Analysis Date: 11/16/2015 03:12 PM		
Client ID:	Run ID: GC9_151116A				SeqNo: 3570758		Prep Date: 11/14/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	648300	2,500	500000	0	130	70-130	683800	5.33	30	
Surr: Toluene-d8	5664	0	5000	0	113	50-150	5782	2.06	30	

The following samples were analyzed in this batch:

1511829-01A	1511829-02A	1511829-03A
1511829-04A		

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

Client: LT Environmental, Inc
Work Order: 1511829
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176256** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176256				Units: % of sample		Analysis Date: 11/15/2015 08:30 PM		
Client ID:		Run ID: MOIST_151115A				SeqNo: 3568307		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R176256				Units: % of sample		Analysis Date: 11/15/2015 08:30 PM		
Client ID:		Run ID: MOIST_151115A				SeqNo: 3568305		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: 1511827-01B DUP				Units: % of sample		Analysis Date: 11/15/2015 08:30 PM		
Client ID:		Run ID: MOIST_151115A				SeqNo: 3568249		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.96 0.050 0 0 0 14.03 0.5 20

DUP		Sample ID: 1511827-10B DUP				Units: % of sample		Analysis Date: 11/15/2015 08:30 PM		
Client ID:		Run ID: MOIST_151115A				SeqNo: 3568279		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 13.34 0.050 0 0 0 13.54 1.49 20

The following samples were analyzed in this batch:

1511829-01B	1511829-02B	1511829-03B
1511829-04B		

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



CHAIN OF CUSTODY

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

GOC number (for client tracking)

Page: 1 of 1

[illegible]

4.2'0

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 NICK MARTINEZ
 ALS ENVIRONMENTAL PARACHUTE
 PARACHUTE SERVICE CENTER
 127 EAST 1ST ST
 PARACHUTE, CO 81835
 UNITED STATES US

SHIP DATE: 13 NOV 15
 ACTWGT: 52.00 LB
 CAD: 22848401 NET 3870
 DIMS: 14x26x15 IN

BILL SENDER

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

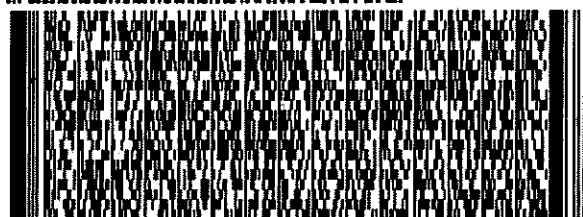
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1 of 2
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 0201 **7749 7836 3495**
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SATURDAY 12:00P
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Sample Receipt Checklist

Client Name: LTENV

Date/Time Received: 14-Nov-15 09:45

Work Order: 1511829

Received by: DS

Checklist completed by Diane Shaw 14-Nov-15
eSignature Date

Reviewed by: Chad Whelton 16-Nov-15
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.2/4.2 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/14/2015 11:42:25 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



19-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **1511980**

Dear Chris,

ALS Environmental received 1 sample on 18-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 10.

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

Sincerely,

A handwritten signature in black ink that reads "Les Arnold".

Electronically approved by: Chad Whelton

Les Arnold
Senior Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 1511980

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1511980-01	EB-06	Soil		11/16/2015 15:30	11/18/2015 09:30	<input type="checkbox"/>

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511980

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 19-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: EB-06
Collection Date: 11/16/2015 03:30 PM

Work Order: 1511980
Lab ID: 1511980-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3541 / 11/18/15		Analyst: IT
DRO (C10-C28)	U		1.5	4.4	mg/Kg-dry	1	11/18/2015 21:29
ORO (C28-C40)	U		1.5	4.4	mg/Kg-dry	1	11/18/2015 21:29
Surr: 4-Terphenyl-d14	60.6			39-133	%REC	1	11/18/2015 21:29
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/18/15		Analyst: IT
GRO (C6-C10)	U		1,300	2,700	µg/Kg-dry	1	11/18/2015 17:41
Surr: Toluene-d8	99.5			50-150	%REC	1	11/18/2015 17:41
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	7.3		0.025	0.050	% of sample	1	11/18/2015 14:41

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

ALS Group USA, Corp

Date: 19-Nov-15

Client: LT Environmental, Inc
Work Order: 1511980
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79093** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-79093-79093				Units: mg/Kg		Analysis Date: 11/18/2015 06:59 PM		
Client ID:		Run ID: GC8_151118A				SeqNo: 3575436		Prep Date: 11/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	5.0								
ORO (C28-C40)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.105</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>55.3</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-79093-79093				Units: mg/Kg		Analysis Date: 11/18/2015 07:29 PM		
Client ID:		Run ID: GC8_151118A				SeqNo: 3575438		Prep Date: 11/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	162.1	5.0	200	0	81.1	61-109	0			
ORO (C28-C40)	161.7	5.0	200	0	80.8	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.049</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>52.5</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 1511976-03B MS				Units: mg/Kg		Analysis Date: 11/18/2015 08:00 PM		
Client ID:		Run ID: GC8_151118A				SeqNo: 3575440		Prep Date: 11/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	126.2	4.1	165.4	354.6	-138	48-110	0			S
ORO (C28-C40)	74.54	4.1	165.4	24.67	30.1	39-140	0			S
<i>Surr: 4-Terphenyl-d14</i>	<i>0.7172</i>	<i>0</i>	<i>1.654</i>	<i>0</i>	<i>43.4</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 1511976-03B MSD				Units: mg/Kg		Analysis Date: 11/18/2015 08:29 PM		
Client ID:		Run ID: GC8_151118A				SeqNo: 3575442		Prep Date: 11/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	324.7	4.1	165.3	354.6	-18.1	48-110	126.2	88.1	30	SR
ORO (C28-C40)	124.8	4.1	165.3	24.67	60.6	39-140	74.54	50.4	30	R
<i>Surr: 4-Terphenyl-d14</i>	<i>1.209</i>	<i>0</i>	<i>1.653</i>	<i>0</i>	<i>73.1</i>	<i>39-133</i>	<i>0.7172</i>	<i>51.1</i>	<i>30</i>	<i>R</i>

The following samples were analyzed in this batch: 1511980-01B

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

Client: LT Environmental, Inc
 Work Order: 1511980
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79079** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-79079-79079				Units: µg/Kg		Analysis Date: 11/18/2015 12:40 PM		
Client ID:		Run ID: GC9_151118A				SeqNo: 3574771		Prep Date: 11/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	4600	0	5000	0	92	50-150	0			

LCS		Sample ID: LCS-79079-79079				Units: µg/Kg		Analysis Date: 11/18/2015 12:15 PM		
Client ID:		Run ID: GC9_151118A				SeqNo: 3574770		Prep Date: 11/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	536900	2,500	500000	0	107	70-130	0			
Surr: Toluene-d8	5001	0	5000	0	100	50-150	0			

MS		Sample ID: 1511943-10A MS				Units: µg/Kg		Analysis Date: 11/18/2015 03:36 PM		
Client ID:		Run ID: GC9_151118A				SeqNo: 3574778		Prep Date: 11/18/2015		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	5098	0	5000	0	102	50-150	0			

MSD		Sample ID: 1511943-10A MSD				Units: µg/Kg		Analysis Date: 11/18/2015 04:01 PM		
Client ID:		Run ID: GC9_151118A				SeqNo: 3574972		Prep Date: 11/18/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

GRO (C6-C10)	550000	2,500	500000	0	110	70-130	541200	1.62	30	
Surr: Toluene-d8	5200	0	5000	0	104	50-150	5098	1.98	30	

The following samples were analyzed in this batch: 1511980-01A

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

Client: LT Environmental, Inc
Work Order: 1511980
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176563** Instrument ID **MOIST** Method: **E160.3M**

MBLK				Sample ID: WBLKS-R176563				Units: % of sample			Analysis Date: 11/18/2015 02:41 PM			
Client ID:				Run ID: MOIST_151118C				SeqNo: 3576359			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-R176563				Units: % of sample			Analysis Date: 11/18/2015 02:41 PM			
Client ID:				Run ID: MOIST_151118C				SeqNo: 3576355			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: 1511759-01A DUP				Units: % of sample			Analysis Date: 11/18/2015 02:41 PM			
Client ID:				Run ID: MOIST_151118C				SeqNo: 3576307			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Moisture	14.74	0.050	0	0	0		14.98	1.62	20					

DUP		Sample ID: 1511973-01B DUP				Units: % of sample		Analysis Date: 11/18/2015 02:41 PM		
Client ID:		Run ID: MOIST_151118C				SeqNo: 3576332		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	19.52	0.050	0	0	0		20.07	2.78	20	

The following samples were analyzed in this batch:

1511980-01B

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

[illegible]

5.6°C

FedEx NEW Package
Express[®] US Airbill

Tracking Number 8054 6786 8805

1-17-15

Nesley Toews

Phone 303 433-9788

Company LT Environmental

Address 4600 West 60th Ave

City Arvada

State CO

ZIP 80003

2 Your Internal Billing Reference

039615002

3 To

Recipient's Name Sample Receiving

Company ALS Laboratory

Address 3352 128th Ave

Address

Use this line for the HOLD location address or for continuation of your shipping address

City Holland

HOLD Weekday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

HOLD Saturday
FedEx location address
Available ONLY for
dry Overnight and
in select areas.

FedEx

TRK# 8054 6786

8054 6786 8805

NIGHT

XX HLMA



FD 375328 17NOV15 S8SA 639C2/3F56/31D0



4 Express Package Service

NOTE: Service order has changed. Please select carefully.

Packages up to 750 lbs.
For packages over 750 lbs., see the new
FedEx Express Freight US Airbill

Next Business Day

☐ FedEx First Overnight
Earliest next business morning delivery to select
locations. Friday shipments will be delivered on
Monday unless SATURDAY Delivery is selected.

☒ FedEx Priority Overnight
Next business morning. Friday shipments will be
delivered on Monday unless SATURDAY Delivery
is selected.

☐ FedEx Standard Overnight
Next business morning.
Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M.
Second business morning.
Saturday Delivery NOT available.

☐ FedEx 2Day
Second business afternoon. Thursday shipments
will be delivered on Monday unless SATURDAY
Delivery is selected.

☐ FedEx Express Saver
Third business day.
Saturday Delivery NOT available.

5 Packaging

☐ FedEx Envelope

☐ FedEx Pak

☐ FedEx Box

☐ FedEx Tube

☒ Other

6 Special Handling and Delivery Signature Options

☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☒ No Signature Required
No signature required for delivery.

☐ Direct Signature
Business at recipient's address
may sign for delivery. Fee applies.

☐ Indirect Signature
If no one is available at recipient's
address, someone at a neighboring
address may sign for delivery. Fee
applies.

Does this shipment contain dangerous goods?

☒ No
One box must be checked.

☐ Yes
As per attached
Shipper's Declaration.

☐ Yes
Shipper's Declaration
not required.

☐ Dry Ice
Dry Ice, 9.1 kg (20 lbs) or less

☐ Cargo Aircraft Only

Recipient ☐ Third Party

☐ Credit Card

☐ Cash/Check

644

5.60c

Sample Receipt Checklist

Client Name: LTENV

Date/Time Received: 18-Nov-15 09:30

Work Order: 1511980

Received by: DS

Checklist completed by *Diane Shaw* 18-Nov-15
eSignature Date

Reviewed by: *Lee Arnold* 18-Nov-15
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>5.6/5.6 c</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/18/2015 10:57:32 AM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



23-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **15111126**

Dear Chris,

ALS Environmental received 18 samples on 19-Nov-2015 through 20-Nov-2015 for the analyses presented in the following report.

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

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

The total number of pages in this report is 32.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 15111126

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
15111126-01	SS01	Soil		11/18/2015 09:35	11/20/2015 10:30	<input type="checkbox"/>
15111126-02	SS02	Soil		11/18/2015 09:40	11/19/2015 15:15	<input type="checkbox"/>
15111126-03	SS03	Soil		11/18/2015 09:45	11/19/2015 15:15	<input type="checkbox"/>
15111126-04	SS04	Soil		11/18/2015 09:50	11/19/2015 15:15	<input type="checkbox"/>
15111126-05	SS05	Soil		11/18/2015 09:55	11/20/2015 10:30	<input type="checkbox"/>
15111126-06	SS06	Soil		11/18/2015 10:00	11/20/2015 10:30	<input type="checkbox"/>
15111126-07	SS07	Soil		11/18/2015 10:05	11/19/2015 15:15	<input type="checkbox"/>
15111126-08	SS08	Soil		11/18/2015 10:10	11/19/2015 15:15	<input type="checkbox"/>
15111126-09	SS09	Soil		11/18/2015 10:15	11/20/2015 10:30	<input type="checkbox"/>
15111126-10	SS10	Soil		11/18/2015 10:20	11/20/2015 10:30	<input type="checkbox"/>
15111126-11	SS11	Soil		11/18/2015 10:25	11/20/2015 10:30	<input type="checkbox"/>
15111126-12	SS12	Soil		11/18/2015 10:30	11/19/2015 15:15	<input type="checkbox"/>
15111126-13	SS13	Soil		11/18/2015 10:35	11/19/2015 15:15	<input type="checkbox"/>
15111126-14	SS14	Soil		11/18/2015 10:40	11/19/2015 15:15	<input type="checkbox"/>
15111126-15	SS15	Soil		11/18/2015 10:45	11/19/2015 15:15	<input type="checkbox"/>
15111126-16	SS19	Soil		11/18/2015 10:50	11/19/2015 15:15	<input type="checkbox"/>
15111126-17	SS20	Soil		11/18/2015 10:55	11/19/2015 15:15	<input type="checkbox"/>
15111126-18	SS22	Soil		11/18/2015 11:00	11/19/2015 15:15	<input type="checkbox"/>

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 15111126

Case Narrative

Batch 79172, Method GRO_8015_S, Sample 15111126-03A MS/MSD: The MS and MSD recovery was above the upper control limit for GRO. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Batch 79219, Method GRO_8015_S, Sample 15111126-01A MS/MSD: The MS and MSD recovery was above the upper control limit for GRO. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Batch 79212, Method DRO_8015_S, Sample 15111126-11B MS/MSD: The MS and MSD recovery was outside of the control limit for DRO; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required.

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 1511126

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS01
Collection Date: 11/18/2015 09:35 AM

Work Order: 15111126
Lab ID: 15111126-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	2,000		8.0	24	mg/Kg-dry	5	11/20/2015 20:24
ORO (C28-C40)	82		1.7	4.9	mg/Kg-dry	1	11/20/2015 16:48
Surr: 4-Terphenyl-d14	93.1			39-133	%REC	1	11/20/2015 16:48
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/20/2015 13:38
Surr: Toluene-d8	113			50-150	%REC	1	11/20/2015 13:38
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LW
Moisture	15		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS02
Collection Date: 11/18/2015 09:40 AM

Work Order: 15111126
Lab ID: 15111126-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	1,800		1.6	4.8	mg/Kg-dry	1	11/19/2015 18:36
ORO (C28-C40)	69		1.7	4.8	mg/Kg-dry	1	11/19/2015 18:36
Surr: 4-Terphenyl-d14	79.1			39-133	%REC	1	11/19/2015 18:36
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/19/2015 18:59
Surr: Toluene-d8	123			50-150	%REC	1	11/19/2015 18:59
MOISTURE							
			Method: E160.3M				Analyst: EVB
Moisture	14		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS03
Collection Date: 11/18/2015 09:45 AM

Work Order: 15111126
Lab ID: 15111126-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	2,800		8.1	24	mg/Kg-dry	5	11/20/2015 09:39
ORO (C28-C40)	81		1.7	4.9	mg/Kg-dry	1	11/19/2015 19:06
Surr: 4-Terphenyl-d14	89.6			39-133	%REC	1	11/19/2015 19:06
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/19/2015 19:49
Surr: Toluene-d8	124			50-150	%REC	1	11/19/2015 19:49
<hr/>							
MOISTURE			Method: E160.3M				Analyst: EVB
Moisture	16		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS04
Collection Date: 11/18/2015 09:50 AM

Work Order: 15111126
Lab ID: 15111126-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	3,000		8.1	24	mg/Kg-dry	5	11/20/2015 10:06
ORO (C28-C40)	95		1.7	4.9	mg/Kg-dry	1	11/19/2015 19:37
Surr: 4-Terphenyl-d14	95.8			39-133	%REC	1	11/19/2015 19:37
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/19/2015 21:04
Surr: Toluene-d8	118			50-150	%REC	1	11/19/2015 21:04
MOISTURE							
			Method: E160.3M				Analyst: EVB
Moisture	15		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS05
Collection Date: 11/18/2015 09:55 AM

Work Order: 15111126
Lab ID: 15111126-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	3,000		8.0	24	mg/Kg-dry	5	11/20/2015 20:51
ORO (C28-C40)	120		1.7	4.8	mg/Kg-dry	1	11/20/2015 17:15
Surr: 4-Terphenyl-d14	98.9			39-133	%REC	1	11/20/2015 17:15
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/20/2015 14:03
Surr: Toluene-d8	127			50-150	%REC	1	11/20/2015 14:03
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	14		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS06
Collection Date: 11/18/2015 10:00 AM

Work Order: 15111126
Lab ID: 15111126-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	3,700		7.8	24	mg/Kg-dry	5	11/20/2015 21:18
ORO (C28-C40)	150		1.6	4.7	mg/Kg-dry	1	11/20/2015 17:41
Surr: 4-Terphenyl-d14	108			39-133	%REC	1	11/20/2015 17:41
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/20/2015 14:28
Surr: Toluene-d8	117			50-150	%REC	1	11/20/2015 14:28
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	14		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS07
Collection Date: 11/18/2015 10:05 AM

Work Order: 15111126
Lab ID: 15111126-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	3,900		7.9	24	mg/Kg-dry	5	11/20/2015 10:33
ORO (C28-C40)	150		1.7	4.8	mg/Kg-dry	1	11/19/2015 20:06
Surr: 4-Terphenyl-d14	130			39-133	%REC	1	11/19/2015 20:06
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/19/2015 21:29
Surr: Toluene-d8	115			50-150	%REC	1	11/19/2015 21:29
MOISTURE							
			Method: E160.3M				Analyst: EVB
Moisture	14		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS08
Collection Date: 11/18/2015 10:10 AM

Work Order: 15111126
Lab ID: 15111126-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	3,000		7.9	24	mg/Kg-dry	5	11/20/2015 11:00
ORO (C28-C40)	110		1.7	4.8	mg/Kg-dry	1	11/19/2015 20:36
Surr: 4-Terphenyl-d14	104			39-133	%REC	1	11/19/2015 20:36
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/19/2015 21:54
Surr: Toluene-d8	114			50-150	%REC	1	11/19/2015 21:54
<hr/>							
MOISTURE			Method: E160.3M				Analyst: EVB
Moisture	15		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS09
Collection Date: 11/18/2015 10:15 AM

Work Order: 15111126
Lab ID: 15111126-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	1,500		1.6	4.8	mg/Kg-dry	1	11/20/2015 18:09
ORO (C28-C40)	65		1.7	4.8	mg/Kg-dry	1	11/20/2015 18:09
Surr: 4-Terphenyl-d14	72.3			39-133	%REC	1	11/20/2015 18:09
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/20/2015 14:53
Surr: Toluene-d8	112			50-150	%REC	1	11/20/2015 14:53
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LW
Moisture	16		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS10
Collection Date: 11/18/2015 10:20 AM

Work Order: 15111126
Lab ID: 15111126-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	1,600		1.6	4.9	mg/Kg-dry	1	11/20/2015 18:36
ORO (C28-C40)	67		1.7	4.9	mg/Kg-dry	1	11/20/2015 18:36
Surr: 4-Terphenyl-d14	73.9			39-133	%REC	1	11/20/2015 18:36
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/20/2015 15:17
Surr: Toluene-d8	118			50-150	%REC	1	11/20/2015 15:17
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	16		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS11
Collection Date: 11/18/2015 10:25 AM

Work Order: 15111126
Lab ID: 15111126-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	1,800		1.6	4.8	mg/Kg-dry	1	11/20/2015 16:20
ORO (C28-C40)	72		1.7	4.8	mg/Kg-dry	1	11/20/2015 16:20
Surr: 4-Terphenyl-d14	77.1			39-133	%REC	1	11/20/2015 16:20
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/20/2015 15:42
Surr: Toluene-d8	122			50-150	%REC	1	11/20/2015 15:42
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LW
Moisture	14		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS12
Collection Date: 11/18/2015 10:30 AM

Work Order: 15111126
Lab ID: 15111126-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	1,500		1.6	4.9	mg/Kg-dry	1	11/19/2015 21:06
ORO (C28-C40)	62		1.7	4.9	mg/Kg-dry	1	11/19/2015 21:06
Surr: 4-Terphenyl-d14	72.1			39-133	%REC	1	11/19/2015 21:06
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/19/2015 22:19
Surr: Toluene-d8	116			50-150	%REC	1	11/19/2015 22:19
<hr/>							
MOISTURE			Method: E160.3M				Analyst: EVB
Moisture	15		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS13
Collection Date: 11/18/2015 10:35 AM

Work Order: 15111126
Lab ID: 15111126-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	1,500		1.6	4.9	mg/Kg-dry	1	11/19/2015 21:36
ORO (C28-C40)	54		1.7	4.9	mg/Kg-dry	1	11/19/2015 21:36
Surr: 4-Terphenyl-d14	66.4			39-133	%REC	1	11/19/2015 21:36
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/19/2015 22:44
Surr: Toluene-d8	124			50-150	%REC	1	11/19/2015 22:44
MOISTURE							
			Method: E160.3M				Analyst: EVB
Moisture	16		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS14
Collection Date: 11/18/2015 10:40 AM

Work Order: 15111126
Lab ID: 15111126-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	2,000		7.8	24	mg/Kg-dry	5	11/20/2015 11:27
ORO (C28-C40)	75		1.6	4.8	mg/Kg-dry	1	11/19/2015 22:06
Surr: 4-Terphenyl-d14	86.7			39-133	%REC	1	11/19/2015 22:06
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/19/2015 23:09
Surr: Toluene-d8	121			50-150	%REC	1	11/19/2015 23:09
MOISTURE							
			Method: E160.3M				Analyst: EVB
Moisture	15		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS15
Collection Date: 11/18/2015 10:45 AM

Work Order: 15111126
Lab ID: 15111126-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	1,400		1.6	4.9	mg/Kg-dry	1	11/19/2015 22:36
ORO (C28-C40)	53		1.7	4.9	mg/Kg-dry	1	11/19/2015 22:36
Surr: 4-Terphenyl-d14	77.5			39-133	%REC	1	11/19/2015 22:36
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/19/2015 23:34
Surr: Toluene-d8	122			50-150	%REC	1	11/19/2015 23:34
<hr/>							
MOISTURE			Method: E160.3M				Analyst: EVB
Moisture	16		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS19
Collection Date: 11/18/2015 10:50 AM

Work Order: 15111126
Lab ID: 15111126-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	2,700		8.0	24	mg/Kg-dry	5	11/20/2015 11:54
ORO (C28-C40)	130		1.7	4.8	mg/Kg-dry	1	11/19/2015 23:06
Surr: 4-Terphenyl-d14	95.4			39-133	%REC	1	11/19/2015 23:06
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/20/2015 12:24
Surr: Toluene-d8	125			50-150	%REC	1	11/20/2015 12:24
MOISTURE							
			Method: E160.3M				Analyst: EVB
Moisture	15		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS20
Collection Date: 11/18/2015 10:55 AM

Work Order: 15111126
Lab ID: 15111126-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	2,000		8.0	24	mg/Kg-dry	5	11/20/2015 12:21
ORO (C28-C40)	76		1.7	4.8	mg/Kg-dry	1	11/20/2015 12:06
Surr: 4-Terphenyl-d14	82.7			39-133	%REC	1	11/20/2015 12:06
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/20/2015 12:49
Surr: Toluene-d8	120			50-150	%REC	1	11/20/2015 12:49
<hr/>							
MOISTURE			Method: E160.3M				Analyst: EVB
Moisture	14		0.025	0.050	% of sample	1	11/19/2015 20:08

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS22
Collection Date: 11/18/2015 11:00 AM

Work Order: 15111126
Lab ID: 15111126-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/19/15		Analyst: IT
DRO (C10-C28)	1,600		1.6	4.9	mg/Kg-dry	1	11/20/2015 12:36
ORO (C28-C40)	61		1.7	4.9	mg/Kg-dry	1	11/20/2015 12:36
Surr: 4-Terphenyl-d14	75.0			39-133	%REC	1	11/20/2015 12:36
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/19/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	11/20/2015 01:14
Surr: Toluene-d8	116			50-150	%REC	1	11/20/2015 01:14
MOISTURE							
			Method: E160.3M				Analyst: EVB
Moisture	17		0.025	0.050	% of sample	1	11/19/2015 20:08

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

Client: LT Environmental, Inc
Work Order: 15111126
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79140** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-79140-79140				Units: mg/Kg		Analysis Date: 11/19/2015 12:34 PM		
Client ID:		Run ID: GC8_151119A				SeqNo: 3576894		Prep Date: 11/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	U	5.0								
Surr: 4-Terphenyl-d14	1.434	0	2	0	71.7	39-133	0			

LCS		Sample ID: DLCSS1-79140-79140				Units: mg/Kg		Analysis Date: 11/19/2015 01:04 PM		
Client ID:		Run ID: GC8_151119A				SeqNo: 3576895		Prep Date: 11/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	146	5.0	200	0	73	61-109	0			
Surr: 4-Terphenyl-d14	1.189	0	2	0	59.5	39-133	0			

MS		Sample ID: 1511976-01B MS				Units: mg/Kg		Analysis Date: 11/19/2015 02:34 PM		
Client ID:		Run ID: GC8_151119A				SeqNo: 3578440		Prep Date: 11/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	107.8	4.1	165.1	3.691	63	48-110	0			
ORO (C28-C40)	111.8	4.1	165.1	0	67.7	39-140	0			
Surr: 4-Terphenyl-d14	0.9454	0	1.651	0	57.3	39-133	0			

MSD		Sample ID: 1511976-01B MSD				Units: mg/Kg		Analysis Date: 11/19/2015 03:04 PM		
Client ID:		Run ID: GC8_151119A				SeqNo: 3578441		Prep Date: 11/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	104	4.2	166.1	3.691	60.4	48-110	107.8	3.52	30	
ORO (C28-C40)	107.4	4.2	166.1	0	64.7	39-140	111.8	3.97	30	
Surr: 4-Terphenyl-d14	0.9035	0	1.661	0	54.4	39-133	0.9454	4.53	30	

The following samples were analyzed in this batch:

15111126-02B	15111126-03B	15111126-04B
15111126-07B	15111126-08B	15111126-12B
15111126-13B	15111126-14B	15111126-15B
15111126-16B	15111126-17B	15111126-18B

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

Client: LT Environmental, Inc
 Work Order: 15111126
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79212** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-79212-79212				Units: mg/Kg		Analysis Date: 11/20/2015 03:27 PM		
Client ID:		Run ID: GC8_151120A				SeqNo: 3582011		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	5.0	0	0	0		0			
ORO (C28-C40)	U	5.0	0	0	0		0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.243</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>62.1</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-79212-79212				Units: mg/Kg		Analysis Date: 11/20/2015 03:54 PM		
Client ID:		Run ID: GC8_151120A				SeqNo: 3582014		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	149.2	5.0	200	0	74.6	61-109	0			
ORO (C28-C40)	152.5	5.0	200	0	76.3	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.178</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>58.9</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 15111126-11B MS				Units: mg/Kg		Analysis Date: 11/20/2015 07:03 PM		
Client ID: SS11		Run ID: GC8_151120A				SeqNo: 3582037		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1502	4.1	165.5	1585	-50.1	48-110	0			SO
ORO (C28-C40)	176.5	4.1	165.5	61.6	69.4	39-140	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.165</i>	<i>0</i>	<i>1.655</i>	<i>0</i>	<i>70.4</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 15111126-11B MSD				Units: mg/Kg		Analysis Date: 11/20/2015 07:30 PM		
Client ID: SS11		Run ID: GC8_151120A				SeqNo: 3582040		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1472	4.1	162.8	1585	-69.2	48-110	1502	2	30	SO
ORO (C28-C40)	168.8	4.1	162.8	61.6	65.8	39-140	176.5	4.48	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>1.212</i>	<i>0</i>	<i>1.628</i>	<i>0</i>	<i>74.5</i>	<i>39-133</i>	<i>1.165</i>	<i>3.95</i>	<i>30</i>	

The following samples were analyzed in this batch:

15111126-01B	15111126-05B	15111126-06B
15111126-09B	15111126-10B	15111126-11B

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

Client: LT Environmental, Inc
 Work Order: 15111126
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79172** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-79172-79172				Units: µg/Kg		Analysis Date: 11/19/2015 06:35 PM		
Client ID:		Run ID: GC9_151119A				SeqNo: 3578582		Prep Date: 11/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	5288	0	5000	0	106	50-150	0			

LCS		Sample ID: LCS-79172-79172				Units: µg/Kg		Analysis Date: 11/19/2015 06:10 PM		
Client ID:		Run ID: GC9_151119A				SeqNo: 3578581		Prep Date: 11/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	524600	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	4958	0	5000	0	99.2	50-150	0			

MS		Sample ID: 15111126-03A MS				Units: µg/Kg		Analysis Date: 11/19/2015 08:14 PM		
Client ID: SS03		Run ID: GC9_151119A				SeqNo: 3578585		Prep Date: 11/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	748700	2,500	500000	0	150	70-130	0			S
Surr: Toluene-d8	5736	0	5000	0	115	50-150	0			

MSD		Sample ID: 15111126-03A MSD				Units: µg/Kg		Analysis Date: 11/19/2015 08:39 PM		
Client ID: SS03		Run ID: GC9_151119A				SeqNo: 3578586		Prep Date: 11/19/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	730100	2,500	500000	0	146	70-130	748700	2.52	30	S
Surr: Toluene-d8	5683	0	5000	0	114	50-150	5736	0.928	30	

The following samples were analyzed in this batch:

15111126-02A	15111126-03A	15111126-04A
15111126-07A	15111126-08A	15111126-12A
15111126-13A	15111126-14A	15111126-15A
15111126-16A	15111126-17A	15111126-18A

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

Client: LT Environmental, Inc
 Work Order: 15111126
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79219** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-79219-79219				Units: µg/Kg		Analysis Date: 11/20/2015 11:38 A		
Client ID:		Run ID: GC9_151120A				SeqNo: 3579811		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2,500	0	0	0		0			
Surr: Toluene-d8	4833	0	5000	0	96.7	50-150	0			

LCS		Sample ID: LCS-79219-79219				Units: µg/Kg		Analysis Date: 11/20/2015 11:13 A		
Client ID:		Run ID: GC9_151120A				SeqNo: 3579810		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	483200	2,500	500000	0	96.6	70-130	0			
Surr: Toluene-d8	4553	0	5000	0	91.1	50-150	0			

MS		Sample ID: 15111126-01A MS				Units: µg/Kg		Analysis Date: 11/20/2015 04:07 PM		
Client ID: SS01		Run ID: GC9_151120A				SeqNo: 3582186		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	782100	2,500	500000	0	156	70-130	0			S
Surr: Toluene-d8	5968	0	5000	0	119	50-150	0			

MSD		Sample ID: 15111126-01A MSD				Units: µg/Kg		Analysis Date: 11/20/2015 04:32 PM		
Client ID: SS01		Run ID: GC9_151120A				SeqNo: 3582188		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	785700	2,500	500000	0	157	70-130	782100	0.454	30	S
Surr: Toluene-d8	5950	0	5000	0	119	50-150	5968	0.302	30	

The following samples were analyzed in this batch:

15111126-01A	15111126-05A	15111126-06A
15111126-09A	15111126-10A	15111126-11A

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

Client: LT Environmental, Inc
Work Order: 15111126
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176661** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176661				Units: % of sample		Analysis Date: 11/19/2015 08:08 PM		
Client ID:		Run ID: MOIST_151119C				SeqNo: 3579083		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS				Sample ID: LCS-R176661				Units: % of sample			Analysis Date: 11/19/2015 08:08 PM		
Client ID:				Run ID: MOIST_151119C				SeqNo: 3579082		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: 15111126-15B DUP				Units: % of sample			Analysis Date: 11/19/2015 08:08 PM			
Client ID: SS15				Run ID: MOIST_151119C				SeqNo: 3579074			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 16.3 0.050 0 0 0 16.07 1.42 20

DUP				Sample ID: 1511894-01A DUP				Units: % of sample			Analysis Date: 11/19/2015 08:08 PM			
Client ID:				Run ID: MOIST_151119C				SeqNo: 3579080			Prep Date:		DF: 1	
Analyte				Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 6.87 0.050 0 0 0 7.18 4.41 20

The following samples were analyzed in this batch:

15111126-02B	15111126-03B	15111126-04B
15111126-07B	15111126-08B	15111126-12B
15111126-13B	15111126-14B	15111126-15B
15111126-16B	15111126-17B	15111126-18B

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

Client: LT Environmental, Inc
Work Order: 15111126
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176775** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176775				Units: % of sample		Analysis Date: 11/20/2015 02:40 PM			
Client ID:		Run ID: MOIST_151120D				SeqNo: 3582038		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture U 0.050

LCS				Sample ID: LCS-R176775				Units: % of sample				Analysis Date: 11/20/2015 02:40 PM											
Client ID:				Run ID: MOIST_151120D				SeqNo: 3582035				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: 15111126-01B DUP				Units: % of sample			Analysis Date: 11/20/2015 02:40 PM			
Client ID: SS01				Run ID: MOIST_151120D				SeqNo: 3581995			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 14.82 0.050 0 0 0 15.31 3.25 20

DUP				Sample ID: 15111214-05B DUP				Units: % of sample			Analysis Date: 11/20/2015 02:40 PM			
Client ID:				Run ID: MOIST_151120D				SeqNo: 3582008			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				

Moisture 17.46 0.050 0 0 0 17.06 2.32 20

The following samples were analyzed in this batch:

15111126-01B	15111126-05B	15111126-06B
15111126-09B	15111126-10B	15111126-11B

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

15111126

ALS Laboratory Group		CHAIN OF CUSTODY				DOC number (for client tracking)		
		Failure to complete all section of this form may delay analysis.				Page 1 of 2		
CLIENT CONTACT AND REPORTING INFORMATION		INVOICE ADDRESS (If other than reporting address)		ANALYSIS REQUIRED (For codes must be listed to attach site prices)				
Company Name: LT Environmental	Company Name: SAME			BTEX TPH GRO/DRO/ORO 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				
Project Manager: Chris Roy	Contact Name: SAME							
Address: 4800 West 60th Ave	Address: SAME							
Arvada, CO 80003								
Phone: 303-433-9788								
Email: croy@ltenv.com, wtoews@ltenv.com	Project ID: 039815002	PROJECT INFORMATION						
Sampler Name (Print): Wesley Toews	Site: Gamma State 14-15D							
SERVICE REQUEST (Is this sample submission available?)		PO No:						
<input type="checkbox"/> Regular (default) 5-day Standard TAT		ALS Quote No:						
<input checked="" type="checkbox"/> Express (Pls specify date required <u>Same day</u>) (express fee will apply)								
ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	Depth (ft)	SAMPLING AND CONTAINER INFO			Matrix	CROSS THE REQUESTED ANALYSIS	
			Date	Time	Iron Bottle			
1	SS01	1'	11-18-15	1000	0438	2	S	X
2	SS02				0440			X
3	SS03				0445			X
4	SS04				0450			X
5	SS05				0455			X
6	SS06				1000			X
7	SS07				1005			X
8	SS08				1010			X
9	SS09				1015			X
10	SS10				1020			X
11	SS11				1025			X
12	SS12				1030			X
CLIENT SIGNATURES		For lab use only						
Client's Signature: <u>Wesley Toews</u>		Cooler Security Seal	Sample Temp	No of Cooler Received	Received by (lab)	Date and Time		
Client's Date and Time of Completion: <u>11-18-15 1400</u>		<input type="checkbox"/> sealed <input type="checkbox"/> broken <input type="checkbox"/> not available	<input type="checkbox"/> chilled deg 'C <input type="checkbox"/> ambient	carton / cooler box Courier Name: <u>DLB</u>	<u>[Signature]</u> Committed by	<u>11/19/15 1515</u> Date and Time		
Note: (s) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)								

1.80



GOC number (for client tracking)

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

Page 2 of 2

[illegible]

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: 18NOV15
 ACTWGT: 55.00 LB
 CAD: 22848407 NET3870
 DIMS: 24x15x15 IN
 BILL SENDER

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

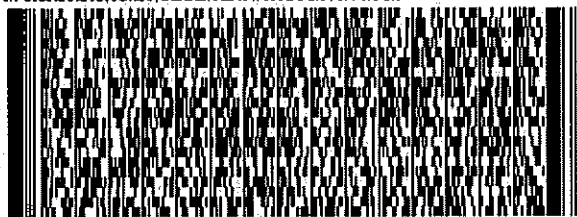
HOLLAND MI 49424

(616) 399-6070
 INV
 PO: PARACHUTE

REF: 111815-1

DEPT:

539.123F563100



FedEx
 Express



REL#
 3785346

1 of 2

TRK#

0201

7750 1124 2246

MASTER

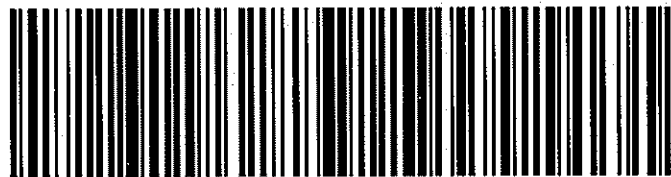
XX HLMA

THU - 19 NOV 10:30A
PRIORITY OVERNIGHT

49424

MI-US

GRR



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
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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.

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Sample Receipt Checklist

Client Name: LTENV
Work Order: 15111126

Date/Time Received: 19-Nov-15 15:15
Received by: KRW

Checklist completed by Keith Wurenga 19-Nov-15
eSignature Date
Reviewed by: Chad Whelton 19-Nov-15
eSignature Date

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>1.8/1.8 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/19/2015 3:25:56 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:
Contacted By: Regarding:

Comments:

CorrectiveAction:



23-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **15111214**

Dear Chris,

ALS Environmental received 7 samples on 20-Nov-2015 12:00 PM 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 16.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 15111214

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
15111214-01	SS24	Soil		11/19/2015 09:30	11/20/2015 12:00	<input type="checkbox"/>
15111214-02	SS25	Soil		11/19/2015 09:35	11/20/2015 12:00	<input type="checkbox"/>
15111214-03	SS26	Soil		11/19/2015 09:40	11/20/2015 12:00	<input type="checkbox"/>
15111214-04	SS27	Soil		11/19/2015 09:45	11/20/2015 12:00	<input type="checkbox"/>
15111214-05	SS28	Soil		11/19/2015 09:50	11/20/2015 12:00	<input type="checkbox"/>
15111214-06	SS29	Soil		11/19/2015 09:55	11/20/2015 12:00	<input type="checkbox"/>
15111214-07	SS33	Soil		11/19/2015 10:00	11/20/2015 12:00	<input type="checkbox"/>

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 15111214

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS24
Collection Date: 11/19/2015 09:30 AM

Work Order: 15111214
Lab ID: 15111214-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	4,500		8.1	24	mg/Kg-dry	5	11/23/2015 11:38
ORO (C28-C40)	99		1.7	4.9	mg/Kg-dry	1	11/20/2015 21:45
Surr: 4-Terphenyl-d14	73.1			39-133	%REC	1	11/20/2015 21:45
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	92,000		1,500	3,000	µg/Kg-dry	1	11/20/2015 17:22
Surr: Toluene-d8	114			50-150	%REC	1	11/20/2015 17:22
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	17		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS25
Collection Date: 11/19/2015 09:35 AM

Work Order: 15111214
Lab ID: 15111214-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	1,500		1.6	4.9	mg/Kg-dry	1	11/20/2015 22:12
ORO (C28-C40)	43		1.7	4.9	mg/Kg-dry	1	11/20/2015 22:12
Surr: 4-Terphenyl-d14	68.3			39-133	%REC	1	11/20/2015 22:12
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	11/20/2015 17:47
Surr: Toluene-d8	118			50-150	%REC	1	11/20/2015 17:47
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	17		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS26
Collection Date: 11/19/2015 09:40 AM

Work Order: 15111214
Lab ID: 15111214-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	3,500		8.0	24	mg/Kg-dry	5	11/23/2015 12:06
ORO (C28-C40)	74		1.7	4.9	mg/Kg-dry	1	11/20/2015 22:39
Surr: 4-Terphenyl-d14	79.1			39-133	%REC	1	11/20/2015 22:39
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/20/2015 18:12
Surr: Toluene-d8	118			50-150	%REC	1	11/20/2015 18:12
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	16		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS27
Collection Date: 11/19/2015 09:45 AM

Work Order: 15111214
Lab ID: 15111214-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	1,000		1.6	4.9	mg/Kg-dry	1	11/20/2015 23:06
ORO (C28-C40)	32		1.7	4.9	mg/Kg-dry	1	11/20/2015 23:06
Surr: 4-Terphenyl-d14	64.8			39-133	%REC	1	11/20/2015 23:06
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	11/20/2015 18:37
Surr: Toluene-d8	118			50-150	%REC	1	11/20/2015 18:37
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	17		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp**Date:** 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS28
Collection Date: 11/19/2015 09:50 AM

Work Order: 15111214
Lab ID: 15111214-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	660		1.6	5.0	mg/Kg-dry	1	11/20/2015 23:33
ORO (C28-C40)	25		1.7	5.0	mg/Kg-dry	1	11/20/2015 23:33
Surr: 4-Terphenyl-d14	55.9			39-133	%REC	1	11/20/2015 23:33
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	11/20/2015 19:02
Surr: Toluene-d8	121			50-150	%REC	1	11/20/2015 19:02
<hr/>							
MOISTURE			Method: E160.3M				Analyst: LW
Moisture	17		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS29
Collection Date: 11/19/2015 09:55 AM

Work Order: 15111214
Lab ID: 15111214-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	740		1.6	5.0	mg/Kg-dry	1	11/21/2015 12:00
ORO (C28-C40)	30		1.7	5.0	mg/Kg-dry	1	11/21/2015 12:00
Surr: 4-Terphenyl-d14	65.2			39-133	%REC	1	11/21/2015 12:00
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	11/20/2015 19:27
Surr: Toluene-d8	121			50-150	%REC	1	11/20/2015 19:27
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	17		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS33
Collection Date: 11/19/2015 10:00 AM

Work Order: 15111214
Lab ID: 15111214-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/20/15		Analyst: IT
DRO (C10-C28)	740		1.6	4.9	mg/Kg-dry	1	11/21/2015 12:27
ORO (C28-C40)	28		1.7	4.9	mg/Kg-dry	1	11/21/2015 12:27
Surr: 4-Terphenyl-d14	63.9			39-133	%REC	1	11/21/2015 12:27
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/20/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/20/2015 19:52
Surr: Toluene-d8	122			50-150	%REC	1	11/20/2015 19:52
MOISTURE							
			Method: E160.3M				Analyst: LW
Moisture	16		0.025	0.050	% of sample	1	11/20/2015 14:40

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

ALS Group USA, Corp

Date: 23-Nov-15

Client: LT Environmental, Inc
Work Order: 15111214
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79212** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-79212-79212				Units: mg/Kg		Analysis Date: 11/20/2015 03:27 PM		
Client ID:		Run ID: GC8_151120A				SeqNo: 3582011		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	U	5.0	0	0	0		0			
ORO (C28-C40)	U	5.0	0	0	0		0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.243</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>62.1</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-79212-79212				Units: mg/Kg		Analysis Date: 11/20/2015 03:54 PM		
Client ID:		Run ID: GC8_151120A				SeqNo: 3582014		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	149.2	5.0	200	0	74.6	61-109	0			
ORO (C28-C40)	152.5	5.0	200	0	76.3	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.178</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>58.9</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 15111126-11B MS				Units: mg/Kg		Analysis Date: 11/20/2015 07:03 PM		
Client ID:		Run ID: GC8_151120A				SeqNo: 3582037		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1502	4.1	165.5	1585	-50.1	48-110	0			SO
ORO (C28-C40)	176.5	4.1	165.5	61.6	69.4	39-140	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.165</i>	<i>0</i>	<i>1.655</i>	<i>0</i>	<i>70.4</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 15111126-11B MSD				Units: mg/Kg		Analysis Date: 11/20/2015 07:30 PM		
Client ID:		Run ID: GC8_151120A				SeqNo: 3582040		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	1472	4.1	162.8	1585	-69.2	48-110	1502	2	30	SO
ORO (C28-C40)	168.8	4.1	162.8	61.6	65.8	39-140	176.5	4.48	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>1.212</i>	<i>0</i>	<i>1.628</i>	<i>0</i>	<i>74.5</i>	<i>39-133</i>	<i>1.165</i>	<i>3.95</i>	<i>30</i>	

The following samples were analyzed in this batch:

15111214-01B	15111214-02B	15111214-03B
15111214-04B	15111214-05B	15111214-06B
15111214-07B		

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

Client: LT Environmental, Inc
 Work Order: 15111214
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79219** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-79219-79219				Units: µg/Kg		Analysis Date: 11/20/2015 11:38 A		
Client ID:		Run ID: GC9_151120A				SeqNo: 3579811		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2,500	0	0	0		0			
Surr: Toluene-d8	4833	0	5000	0	96.7	50-150	0			

LCS		Sample ID: LCS-79219-79219				Units: µg/Kg		Analysis Date: 11/20/2015 11:13 A		
Client ID:		Run ID: GC9_151120A				SeqNo: 3579810		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	483200	2,500	500000	0	96.6	70-130	0			
Surr: Toluene-d8	4553	0	5000	0	91.1	50-150	0			

MS		Sample ID: 15111126-01A MS				Units: µg/Kg		Analysis Date: 11/20/2015 04:07 PM		
Client ID:		Run ID: GC9_151120A				SeqNo: 3582186		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	782100	2,500	500000	0	156	70-130	0			S
Surr: Toluene-d8	5968	0	5000	0	119	50-150	0			

MSD		Sample ID: 15111126-01A MSD				Units: µg/Kg		Analysis Date: 11/20/2015 04:32 PM		
Client ID:		Run ID: GC9_151120A				SeqNo: 3582188		Prep Date: 11/20/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	785700	2,500	500000	0	157	70-130	782100	0.454	30	S
Surr: Toluene-d8	5950	0	5000	0	119	50-150	5968	0.302	30	

The following samples were analyzed in this batch:

15111214-01A	15111214-02A	15111214-03A
15111214-04A	15111214-05A	15111214-06A
15111214-07A		

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

Client: LT Environmental, Inc
Work Order: 15111214
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176775** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176775				Units: % of sample			Analysis Date: 11/20/2015 02:40 PM		
Client ID:		Run ID: MOIST_151120D				SeqNo: 3582038		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture U 0.050

LCS		Sample ID: LCS-R176775				Units: % of sample			Analysis Date: 11/20/2015 02:40 PM		
Client ID:		Run ID: MOIST_151120D				SeqNo: 3582035		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: 15111126-01B DUP				Units: % of sample			Analysis Date: 11/20/2015 02:40 PM		
Client ID:		Run ID: MOIST_151120D				SeqNo: 3581995		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 14.82 0.050 0 0 0 15.31 3.25 20

DUP		Sample ID: 15111214-05B DUP				Units: % of sample			Analysis Date: 11/20/2015 02:40 PM		
Client ID: SS28		Run ID: MOIST_151120D				SeqNo: 3582008		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 17.46 0.050 0 0 0 17.06 2.32 20

The following samples were analyzed in this batch:

15111214-01B	15111214-02B	15111214-03B
15111214-04B	15111214-05B	15111214-06B
15111214-07B		

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

GOC number (for client tracking)



CHAIN OF CUSTODY

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

Page 1 of 1

4.6'

ORIGIN ID: RILA (616) 288-1033
 NICK MARTINEZ
 ALS ENVIRONMENTAL PARACHUTE
 PARACHUTE SERVICE CENTER
 127 EAST 1ST ST
 PARACHUTE, CO 81635
 UNITED STATES US

SHIP DATE: 19 NOV 15
 ACTWGT: 48.00 LB
 CAD: 2264840/NET3870
 DIMS: 24x15x15 IN
 BILL SENDER

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

539J23F563100

HOLLAND MI 49424

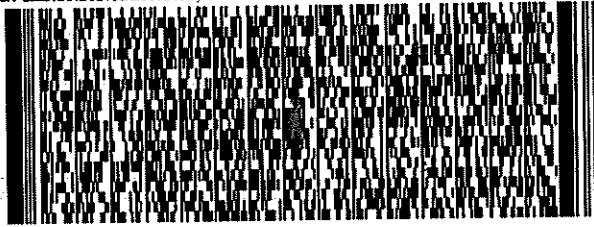
(616) 388-8070

REF: 111915-1

INV:

PO: PARACHUTE

DEPT:



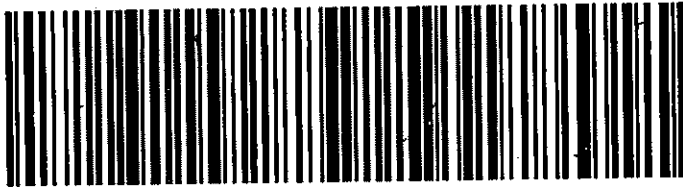
REL#
3785348

1 of 2
 TRK#
 0201 **7750 2208 3498**
 ## MASTER ##

FRI - 20 NOV 10:30A
PRIORITY OVERNIGHT

XX HLMA

49424
GRR
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Sample Receipt Checklist

Client Name: LTENV

Date/Time Received: 20-Nov-15 12:00

Work Order: 15111214

Received by: DS

Checklist completed by Diane Shaw 20-Nov-15
eSignature Date

Reviewed by: Chad Whelton 20-Nov-15
eSignature Date

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.6/4.6 c</u> <u>SR2</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>11/20/2015 1:04:11 PM</u>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<u>-</u>		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



24-Nov-2015

Chris Roy
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Gamma State 14-15D**

Work Order: **15111270**

Dear Chris,

ALS Environmental received 9 samples on 21-Nov-2015 10:00 AM for the analyses presented in the following report.

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

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

The total number of pages in this report is 23.

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

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

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

Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 15111270

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
15111270-01	SS30	Soil		11/20/2015 09:00	11/21/2015 10:00	<input type="checkbox"/>
15111270-02	SS31	Soil		11/20/2015 09:05	11/21/2015 10:00	<input type="checkbox"/>
15111270-03	SS34	Soil		11/20/2015 09:10	11/21/2015 10:00	<input type="checkbox"/>
15111270-04	SS35	Soil		11/20/2015 09:15	11/21/2015 10:00	<input type="checkbox"/>
15111270-05	SS36	Soil		11/20/2015 09:20	11/21/2015 10:00	<input type="checkbox"/>
15111270-06	SS37	Soil		11/20/2015 09:25	11/21/2015 10:00	<input type="checkbox"/>
15111270-07	SS38	Soil		11/20/2015 09:30	11/21/2015 10:00	<input type="checkbox"/>
15111270-08	SS39	Soil		11/20/2015 09:35	11/21/2015 10:00	<input type="checkbox"/>
15111270-09	SS40	Soil		11/20/2015 09:40	11/21/2015 10:00	<input type="checkbox"/>

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Work Order: 15111270

Case Narrative

Batch 79287, Method SVO_8270_S, Sample 15111270-06B: PNA surrogate recovery high due to matrix interference.

Batch 79298, Method GRO_8015_S, Sample 15111270-06A MS/MSD: The MS and MSD recovery was above the upper control limit for GRO. The corresponding result in the parent sample was non-detect, therefore no qualification is required.

Client: LT Environmental, Inc
Project: Gamma State 14-15D
WorkOrder: 15111270

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp**Date:** 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS30
Collection Date: 11/20/2015 09:00 AM

Work Order: 15111270
Lab ID: 15111270-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	2,300		7.8	24	mg/Kg-dry	5	11/24/2015 10:00
ORO (C28-C40)	65		1.6	4.8	mg/Kg-dry	1	11/23/2015 23:22
Surr: 4-Terphenyl-d14	81.0			39-133	%REC	1	11/23/2015 23:22
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/23/2015 18:34
Surr: Toluene-d8	129			50-150	%REC	1	11/23/2015 18:34
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	15		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp**Date:** 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS31
Collection Date: 11/20/2015 09:05 AM

Work Order: 15111270
Lab ID: 15111270-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	1,500		1.6	4.9	mg/Kg-dry	1	11/23/2015 23:49
ORO (C28-C40)	45		1.7	4.9	mg/Kg-dry	1	11/23/2015 23:49
Surr: 4-Terphenyl-d14	65.5			39-133	%REC	1	11/23/2015 23:49
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,500	3,000	µg/Kg-dry	1	11/23/2015 18:59
Surr: Toluene-d8	116			50-150	%REC	1	11/23/2015 18:59
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	18		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp

Date: 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS34
Collection Date: 11/20/2015 09:10 AM

Work Order: 15111270
Lab ID: 15111270-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	2,100		7.9	24	mg/Kg-dry	5	11/24/2015 10:30
ORO (C28-C40)	60		1.6	4.8	mg/Kg-dry	1	11/24/2015 12:16
Surr: 4-Terphenyl-d14	75.0			39-133	%REC	1	11/24/2015 12:16
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/23/2015 19:24
Surr: Toluene-d8	122			50-150	%REC	1	11/23/2015 19:24
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	15		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp**Date:** 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS35
Collection Date: 11/20/2015 09:15 AM

Work Order: 15111270
Lab ID: 15111270-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	1,900		1.6	4.8	mg/Kg-dry	1	11/24/2015 12:43
ORO (C28-C40)	52		1.7	4.8	mg/Kg-dry	1	11/24/2015 12:43
Surr: 4-Terphenyl-d14	70.1			39-133	%REC	1	11/24/2015 12:43
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,400	3,000	µg/Kg-dry	1	11/23/2015 19:49
Surr: Toluene-d8	116			50-150	%REC	1	11/23/2015 19:49
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	16		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp

Date: 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS36
Collection Date: 11/20/2015 09:20 AM

Work Order: 15111270
Lab ID: 15111270-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	1,900		7.9	24	mg/Kg-dry	5	11/24/2015 11:01
ORO (C28-C40)	57		1.7	4.8	mg/Kg-dry	1	11/24/2015 01:10
Surr: 4-Terphenyl-d14	70.4			39-133	%REC	1	11/24/2015 01:10
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/23/2015 20:14
Surr: Toluene-d8	116			50-150	%REC	1	11/23/2015 20:14
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp

Date: 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS37
Collection Date: 11/20/2015 09:25 AM

Work Order: 15111270
Lab ID: 15111270-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	1,600		1.6	4.8	mg/Kg-dry	1	11/23/2015 22:55
ORO (C28-C40)	46		1.7	4.8	mg/Kg-dry	1	11/23/2015 22:55
Surr: 4-Terphenyl-d14	74.4			39-133	%REC	1	11/23/2015 22:55
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/23/2015 20:38
Surr: Toluene-d8	118			50-150	%REC	1	11/23/2015 20:38
SEMI-VOLATILE ORGANIC COMPOUNDS							
			Method: SW846 8270D		Prep: SW3550 / 11/23/15		Analyst: RM
Acenaphthene	U		0.0029	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Anthracene	U		0.0037	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Benzo(a)anthracene	U		0.0047	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Benzo(a)pyrene	U		0.0016	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Benzo(b)fluoranthene	U		0.0026	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Benzo(k)fluoranthene	U		0.0048	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Chrysene	U		0.0065	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Dibenzo(a,h)anthracene	U		0.0025	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Fluoranthene	U		0.0047	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Fluorene	0.015		0.0043	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Indeno(1,2,3-cd)pyrene	U		0.0048	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Naphthalene	U		0.0020	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Pyrene	0.0092		0.0058	0.0077	mg/Kg-dry	1	11/24/2015 12:03
Surr: 2-Fluorobiphenyl	130	S		12-100	%REC	1	11/24/2015 12:03
Surr: 4-Terphenyl-d14	94.0			25-137	%REC	1	11/24/2015 12:03
Surr: Nitrobenzene-d5	72.5			37-107	%REC	1	11/24/2015 12:03
VOLATILE ORGANIC COMPOUNDS							
			Method: SW8260B		Prep: SW5035 / 11/23/15		Analyst: BG
Benzene	U		0.0079	0.035	mg/Kg-dry	1	11/23/2015 14:28
Ethylbenzene	U		0.0081	0.035	mg/Kg-dry	1	11/23/2015 14:28
m,p-Xylene	U		0.016	0.070	mg/Kg-dry	1	11/23/2015 14:28
o-Xylene	U		0.011	0.035	mg/Kg-dry	1	11/23/2015 14:28
Toluene	U		0.012	0.035	mg/Kg-dry	1	11/23/2015 14:28
Xylenes, Total	U		0.027	0.10	mg/Kg-dry	1	11/23/2015 14:28
Surr: 1,2-Dichloroethane-d4	103			70-130	%REC	1	11/23/2015 14:28
Surr: 4-Bromofluorobenzene	96.8			70-130	%REC	1	11/23/2015 14:28
Surr: Dibromofluoromethane	97.1			70-130	%REC	1	11/23/2015 14:28
Surr: Toluene-d8	99.2			70-130	%REC	1	11/23/2015 14:28
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp**Date:** 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS38
Collection Date: 11/20/2015 09:30 AM

Work Order: 15111270
Lab ID: 15111270-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	2,100		8.0	24	mg/Kg-dry	5	11/24/2015 13:02
ORO (C28-C40)	54		1.7	4.8	mg/Kg-dry	1	11/24/2015 01:38
Surr: 4-Terphenyl-d14	87.7			39-133	%REC	1	11/24/2015 01:38
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/23/2015 22:18
Surr: Toluene-d8	119			50-150	%REC	1	11/23/2015 22:18
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp

Date: 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS39
Collection Date: 11/20/2015 09:35 AM

Work Order: 15111270
Lab ID: 15111270-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID							
			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	1,500		1.6	4.8	mg/Kg-dry	1	11/24/2015 02:32
ORO (C28-C40)	48		1.7	4.8	mg/Kg-dry	1	11/24/2015 02:32
Surr: 4-Terphenyl-d14	80.5			39-133	%REC	1	11/24/2015 02:32
GASOLINE RANGE ORGANICS BY GC-FID							
			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/23/2015 22:43
Surr: Toluene-d8	123			50-150	%REC	1	11/23/2015 22:43
MOISTURE							
			Method: E160.3M				Analyst: TM
Moisture	13		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp**Date:** 24-Nov-15

Client: LT Environmental, Inc
Project: Gamma State 14-15D
Sample ID: SS40
Collection Date: 11/20/2015 09:40 AM

Work Order: 15111270
Lab ID: 15111270-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
<hr/>							
DIESEL RANGE ORGANICS BY GC-FID			Method: SW8015M		Prep: SW3550 / 11/23/15		Analyst: IT
DRO (C10-C28)	1,300		1.6	4.8	mg/Kg-dry	1	11/24/2015 02:59
ORO (C28-C40)	40		1.7	4.8	mg/Kg-dry	1	11/24/2015 02:59
Surr: 4-Terphenyl-d14	74.3			39-133	%REC	1	11/24/2015 02:59
<hr/>							
GASOLINE RANGE ORGANICS BY GC-FID			Method: SW8015D		Prep: SW5035 / 11/23/15		Analyst: IT
GRO (C6-C10)	U		1,400	2,900	µg/Kg-dry	1	11/23/2015 23:08
Surr: Toluene-d8	120			50-150	%REC	1	11/23/2015 23:08
<hr/>							
MOISTURE			Method: E160.3M				Analyst: TM
Moisture	14		0.025	0.050	% of sample	1	11/23/2015 11:06

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

ALS Group USA, Corp

Date: 24-Nov-15

Client: LT Environmental, Inc
Work Order: 15111270
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79286** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-79286-79286				Units: mg/Kg		Analysis Date: 11/23/2015 08:40 PM		
Client ID:		Run ID: GC8_151123A				SeqNo: 3585566		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	U	5.0								
ORO (C28-C40)	U	5.0								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.732</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>86.6</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-79286-79286				Units: mg/Kg		Analysis Date: 11/23/2015 09:34 PM		
Client ID:		Run ID: GC8_151123A				SeqNo: 3585568		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	205.4	5.0	200	0	103	61-109	0			
ORO (C28-C40)	188.3	5.0	200	0	94.2	61-119	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.344</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>67.2</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 15111270-06B MS				Units: mg/Kg		Analysis Date: 11/23/2015 10:01 PM		
Client ID: SS37		Run ID: GC8_151123A				SeqNo: 3585570		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	1443	4.1	163.9	1345	59.6	48-110	0			O
ORO (C28-C40)	166.8	4.1	163.9	39.38	77.7	39-140	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.192</i>	<i>0</i>	<i>1.639</i>	<i>0</i>	<i>72.7</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 15111270-06B MSD				Units: mg/Kg		Analysis Date: 11/23/2015 10:28 PM		
Client ID: SS37		Run ID: GC8_151123A				SeqNo: 3585572		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

DRO (C10-C28)	1464	4.1	162.8	1345	73.1	48-110	1443	1.47	30	O
ORO (C28-C40)	165.8	4.1	162.8	39.38	77.7	39-140	166.8	0.55	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>1.18</i>	<i>0</i>	<i>1.628</i>	<i>0</i>	<i>72.5</i>	<i>39-133</i>	<i>1.192</i>	<i>0.997</i>	<i>30</i>	

The following samples were analyzed in this batch:

15111270-01B	15111270-02B	15111270-03B
15111270-04B	15111270-05B	15111270-06B
15111270-07B	15111270-08B	15111270-09B

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

Client: LT Environmental, Inc
 Work Order: 15111270
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79298** Instrument ID **GC9** Method: **SW8015D**

MBLK		Sample ID: MBLK-79298-79298				Units: µg/Kg		Analysis Date: 11/23/2015 06:09 PM		
Client ID:		Run ID: GC9_151123A				SeqNo: 3586008		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	U	2,500								
Surr: Toluene-d8	4840	0	5000	0	96.8	50-150	0			

LCS		Sample ID: LCS-79298-79298				Units: µg/Kg		Analysis Date: 11/23/2015 05:44 PM		
Client ID:		Run ID: GC9_151123A				SeqNo: 3586006		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	494500	2,500	500000	0	98.9	70-130	0			
Surr: Toluene-d8	5340	0	5000	0	107	50-150	0			

MS		Sample ID: 15111270-06A MS				Units: µg/Kg		Analysis Date: 11/23/2015 09:04 PM		
Client ID: SS37		Run ID: GC9_151123A				SeqNo: 3586026		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	734900	2,500	500000	0	147	70-130	0			S
Surr: Toluene-d8	6084	0	5000	0	122	50-150	0			

MSD		Sample ID: 15111270-06A MSD				Units: µg/Kg		Analysis Date: 11/23/2015 09:28 PM		
Client ID: SS37		Run ID: GC9_151123A				SeqNo: 3586029		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	710300	2,500	500000	0	142	70-130	734900	3.42	30	S
Surr: Toluene-d8	5993	0	5000	0	120	50-150	6084	1.52	30	

The following samples were analyzed in this batch:

15111270-01A	15111270-02A	15111270-03A
15111270-04A	15111270-05A	15111270-06A
15111270-07A	15111270-08A	15111270-09A

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

Client: LT Environmental, Inc
 Work Order: 15111270
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79287** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-79287-79287				Units: µg/Kg		Analysis Date: 11/24/2015 02:04 A		
Client ID:		Run ID: SVMS8_151123A				SeqNo: 3587496		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	1363	0	1667	0	81.8	12-100	0			
Surr: 4-Terphenyl-d14	1840	0	1667	0	110	25-137	0			
Surr: Nitrobenzene-d5	1322	0	1667	0	79.3	37-107	0			

LCS		Sample ID: SLCSS1-79287-79287				Units: µg/Kg		Analysis Date: 11/24/2015 02:24 A		
Client ID:		Run ID: SVMS8_151123A				SeqNo: 3587497		Prep Date: 11/23/2015		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	483.3	6.7	666.7	0	72.5	45-110	0			
Anthracene	540.3	6.7	666.7	0	81	55-105	0			
Benzo(a)anthracene	537.3	6.7	666.7	0	80.6	50-110	0			
Benzo(a)pyrene	574	6.7	666.7	0	86.1	50-110	0			
Benzo(b)fluoranthene	604.3	6.7	666.7	0	90.6	45-115	0			
Benzo(k)fluoranthene	615	6.7	666.7	0	92.2	45-115	0			
Chrysene	591.3	6.7	666.7	0	88.7	55-110	0			
Dibenzo(a,h)anthracene	568.3	6.7	666.7	0	85.2	40-125	0			
Fluoranthene	519.3	6.7	666.7	0	77.9	55-115	0			
Fluorene	510.7	6.7	666.7	0	76.6	50-110	0			
Indeno(1,2,3-cd)pyrene	548	6.7	666.7	0	82.2	40-120	0			
Naphthalene	497.7	6.7	666.7	0	74.6	40-105	0			
Pyrene	630	6.7	666.7	0	94.5	45-125	0			
Surr: 2-Fluorobiphenyl	1411	0	1667	0	84.6	12-100	0			
Surr: 4-Terphenyl-d14	1696	0	1667	0	102	25-137	0			
Surr: Nitrobenzene-d5	1349	0	1667	0	80.9	37-107	0			

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

Client: LT Environmental, Inc
 Work Order: 15111270
 Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79287** Instrument ID **SVMS8** Method: **SW846 8270D**

MS				Sample ID: 15111249-01C MS			Units: µg/Kg		Analysis Date: 11/24/2015 05:49 A	
Client ID:				Run ID: SVMS8_151123A			SeqNo: 3587501		Prep Date: 11/23/2015	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	409.5	6.6	663.1	6.632	60.7	45-110	0			
Anthracene	469.1	6.6	663.1	5.637	69.9	55-105	0			
Benzo(a)anthracene	481.1	6.6	663.1	10.28	71	50-110	0			
Benzo(a)pyrene	488.7	6.6	663.1	11.27	72	50-110	0			
Benzo(b)fluoranthene	479.4	6.6	663.1	9.947	70.8	45-115	0			
Benzo(k)fluoranthene	475.4	6.6	663.1	6.632	70.7	45-115	0			
Chrysene	506	6.6	663.1	8.289	75	55-110	0			
Dibenzo(a,h)anthracene	513.6	6.6	663.1	0	77.4	40-125	0			
Fluoranthene	425.7	6.6	663.1	16.25	61.7	55-115	0			
Fluorene	421.7	6.6	663.1	6.963	62.5	50-110	0			
Indeno(1,2,3-cd)pyrene	524.2	6.6	663.1	8.621	77.7	40-120	0			
Naphthalene	443.3	6.6	663.1	45.76	59.9	40-105	0			
Pyrene	578.2	6.6	663.1	23.54	83.6	45-125	0			
Surr: 2-Fluorobiphenyl	1049	0	1658	0	63.3	12-100	0			
Surr: 4-Terphenyl-d14	1406	0	1658	0	84.8	25-137	0			
Surr: Nitrobenzene-d5	920.7	0	1658	0	55.5	37-107	0			

MSD				Sample ID: 15111249-01C MSD			Units: µg/Kg		Analysis Date: 11/24/2015 06:09 A	
Client ID:				Run ID: SVMS8_151123A			SeqNo: 3587502		Prep Date: 11/23/2015	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	456.4	6.5	647.9	6.632	69.4	45-110	409.5	10.8	30	
Anthracene	527.4	6.5	647.9	5.637	80.5	55-105	469.1	11.7	30	
Benzo(a)anthracene	527.1	6.5	647.9	10.28	79.8	50-110	481.1	9.12	30	
Benzo(a)pyrene	536.8	6.5	647.9	11.27	81.1	50-110	488.7	9.38	30	
Benzo(b)fluoranthene	530.3	6.5	647.9	9.947	80.3	45-115	479.4	10.1	30	
Benzo(k)fluoranthene	531.6	6.5	647.9	6.632	81	45-115	475.4	11.2	30	
Chrysene	561.1	6.5	647.9	8.289	85.3	55-110	506	10.3	30	
Dibenzo(a,h)anthracene	576.3	6.5	647.9	0	88.9	40-125	513.6	11.5	30	
Fluoranthene	487.5	6.5	647.9	16.25	72.7	55-115	425.7	13.5	30	
Fluorene	488.5	6.5	647.9	6.963	74.3	50-110	421.7	14.7	30	
Indeno(1,2,3-cd)pyrene	605.1	6.5	647.9	8.621	92.1	40-120	524.2	14.3	30	
Naphthalene	568.9	6.5	647.9	45.76	80.7	40-105	443.3	24.8	30	
Pyrene	654.1	6.5	647.9	23.54	97.3	45-125	578.2	12.3	30	
Surr: 2-Fluorobiphenyl	1160	0	1620	0	71.6	12-100	1049	10.1	40	
Surr: 4-Terphenyl-d14	1516	0	1620	0	93.6	25-137	1406	7.55	40	
Surr: Nitrobenzene-d5	1185	0	1620	0	73.2	37-107	920.7	25.1	40	

The following samples were analyzed in this batch:

15111270-06B

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

Client: LT Environmental, Inc
Work Order: 15111270
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79300** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-79300-79300			Units: µg/Kg		Analysis Date: 11/23/2015 11:52 A	
Client ID:		Run ID: VMS5_151123A			SeqNo: 3585333		Prep Date: 11/23/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	30								
Ethylbenzene	U	30								
m,p-Xylene	U	60								
o-Xylene	U	30								
Toluene	U	30								
Xylenes, Total	U	90								
Surr: 1,2-Dichloroethane-d4	1018	0	1000	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	974	0	1000	0	97.4	70-130	0			
Surr: Dibromofluoromethane	976	0	1000	0	97.6	70-130	0			
Surr: Toluene-d8	986.5	0	1000	0	98.6	70-130	0			

LCS				Sample ID: LCS-79300-79300			Units: µg/Kg		Analysis Date: 11/23/2015 10:34 A	
Client ID:		Run ID: VMS5_151123A			SeqNo: 3585332		Prep Date: 11/23/2015		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1030	30	1000	0	103	75-125	0			
Ethylbenzene	988.5	30	1000	0	98.8	75-125	0			
m,p-Xylene	1983	60	2000	0	99.2	80-125	0			
o-Xylene	977	30	1000	0	97.7	75-125	0			
Toluene	1022	30	1000	0	102	70-125	0			
Xylenes, Total	2960	90	3000	0	98.7	75-125	0			
Surr: 1,2-Dichloroethane-d4	996.5	0	1000	0	99.6	70-130	0			
Surr: 4-Bromofluorobenzene	1008	0	1000	0	101	70-130	0			
Surr: Dibromofluoromethane	1006	0	1000	0	101	70-130	0			
Surr: Toluene-d8	995	0	1000	0	99.5	70-130	0			

MS				Sample ID: 15111203-02A MS			Units: µg/Kg		Analysis Date: 11/23/2015 07:40 PM	
Client ID:		Run ID: VMS5_151123A			SeqNo: 3585358		Prep Date: 11/23/2015		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	5580	150	5000	0	112	75-125	0			
Ethylbenzene	5512	150	5000	169	107	75-125	0			
m,p-Xylene	11150	300	10000	395	108	80-125	0			
o-Xylene	5332	150	5000	140	104	75-125	0			
Toluene	5565	150	5000	0	111	70-125	0			
Xylenes, Total	16480	450	15000	540	106	75-125	0			
Surr: 1,2-Dichloroethane-d4	4988	0	5000	0	99.8	70-130	0			
Surr: 4-Bromofluorobenzene	4910	0	5000	0	98.2	70-130	0			
Surr: Dibromofluoromethane	4910	0	5000	0	98.2	70-130	0			
Surr: Toluene-d8	4945	0	5000	0	98.9	70-130	0			

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

Client: LT Environmental, Inc
Work Order: 15111270
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **79300** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 15111203-02A MSD			Units: µg/Kg		Analysis Date: 11/23/2015 08:06 PM		
Client ID:			Run ID: VMS5_151123A			SeqNo: 3585361		Prep Date: 11/23/2015		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	5825	150	5000	0	116	75-125	5580	4.3	30		
Ethylbenzene	5772	150	5000	169	112	75-125	5512	4.61	30		
m,p-Xylene	11550	300	10000	395	112	80-125	11150	3.52	30		
o-Xylene	5575	150	5000	140	109	75-125	5332	4.45	30		
Toluene	5745	150	5000	0	115	70-125	5565	3.18	30		
Xylenes, Total	17130	450	15000	540	111	75-125	16480	3.82	30		
Surr: 1,2-Dichloroethane-d4	4990	0	5000	0	99.8	70-130	4988	0.0501	30		
Surr: 4-Bromofluorobenzene	4958	0	5000	0	99.2	70-130	4910	0.963	30		
Surr: Dibromofluoromethane	4990	0	5000	0	99.8	70-130	4910	1.62	30		
Surr: Toluene-d8	4900	0	5000	0	98	70-130	4945	0.914	30		

The following samples were analyzed in this batch:

15111270-06A

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

Client: LT Environmental, Inc
Work Order: 15111270
Project: Gamma State 14-15D

QC BATCH REPORT

Batch ID: **R176911** Instrument ID **MOIST** Method: **E160.3M**

MBLK		Sample ID: WBLKS-R176911				Units: % of sample		Analysis Date: 11/23/2015 11:06 A		
Client ID:		Run ID: MOIST_151123A				SeqNo: 3585864		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture U 0.050

LCS		Sample ID: LCS-R176911				Units: % of sample		Analysis Date: 11/23/2015 11:06 A		
Client ID:		Run ID: MOIST_151123A				SeqNo: 3585862		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: 15111270-01B DUP				Units: % of sample		Analysis Date: 11/23/2015 11:06 A		
Client ID: SS30		Run ID: MOIST_151123A				SeqNo: 3585811		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.37 0.050 0 0 0 14.64 1.86 20

DUP		Sample ID: 1511947-08A DUP				Units: % of sample		Analysis Date: 11/23/2015 11:06 A		
Client ID:		Run ID: MOIST_151123A				SeqNo: 3585840		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual


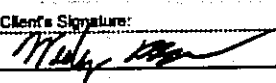
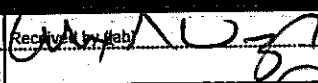
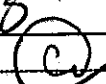
Moisture 8.37 0.050 0 0 0 8.52 1.78 20

The following samples were analyzed in this batch:

15111270-01B	15111270-02B	15111270-03B
15111270-04B	15111270-05B	15111270-06B
15111270-07B	15111270-08B	15111270-09B

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

15111270

 ALS Laboratory Group		CHAIN OF CUSTODY <small>Failure to complete all section of this form may delay analysis.</small>				<small>GOC number (for client tracking)</small> Page 1 of 1	
CLIENT CONTACT AND REPORTING INFORMATION		INVOICE ADDRESS (if not client reporting address)			ANALYSIS REQUIRED (units and codes must be listed to allow quote prices)		
Company Name: LT Environmental Project Manager: Chris Roy Address: 4800 West 60th Ave Arvada, CO 80003 Phone: 303-433-9788 Email: croy@ltenv.com, wtoews@ltenv.com		Company Name: SAME Contact Name: SAME Address: SAME			BTEX TPH GRO/DRO/ORO Table 810-1 PAHs 8270 SIM EC PH SAR Table 810-1 Metals: As, Ba, Cd, Cr III, Cr VI, Cu, Pb, Hg, Ni, Se, Ag, Zn Total Arsenic 6020		
		PROJECT INFORMATION					
Sampler Name (Print): Wesley Toews Service Request (if these services subject to availability)		Project ID: 038815002 Site: Gamma State 14-15D PO No:					
<input type="checkbox"/> Regular (default) 5-day Standard TAT <input checked="" type="checkbox"/> Express (Please specify date required <u>same day</u>) (express fee will apply)		ALB Quote No:					
ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	Depth (ft)	SAMPLING AND CONTAINER INFO			Matrix	CROSS THE REQUESTED ANALYSIS
			Date	Time	Total Bottle		
1	SS3D	1'	11-20-15	0900	2	S	X
2	SS31	↓	↓	0905	↓	↓	X
3	SS34			0910			X
4	SS35			0915			X
5	SS36			0920			X
6	SS37			0925			X
7	SS38			0930			X
8	SS39			0935			X
9	SS40			0940			X
CLIENT SIGNATURES		For lab use only					
Client's Signature: 		Cooler Security Seal <input type="checkbox"/> sealed <input type="checkbox"/> broken <input type="checkbox"/> not available		Sample Temp: _____ deg °C <input type="checkbox"/> chilled <input type="checkbox"/> ambient		No of Cooler Received: _____ carton / cooler box Courier Name: <u>ALS-</u>	
Client's Date and Time of Completion: <u>11-20-15 1400</u>				Received by Lab: 		Date and Time: <u>11/20/15 1000</u>	
				Committed by: 		Date and Time: <u>4.2.01</u>	
<small>Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)</small>							

ORIGIN ID: RILA (010) 298-1033
 NICK MARTINEZ
 ALS ENVIRONMENTAL PARACHUTE
 PARACHUTE SERVICE CENTER
 127 EAST 1ST ST
 PARACHUTE, CO 81635
 UNITED STATES US

SHIP DATE: 20NOV15
 ACTWGT: 55.00 LB
 CAD: 2284840/NET3870
 DIMS: 14x28x15 IN
 BILL SENDER

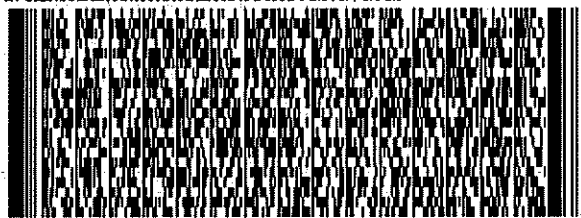
TO **SAMPLE RECEIVING**
ALS ENVIRONMENTAL HOLLAND LAB
3352 128TH AVE

HOLLAND MI 49424

(010) 399-0070
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 PO: PARACHUTE

REF: 112015-1

DEPT:



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 Express



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 3785346

1 of 2

TRK#
 0201 **7750 3223 8940**

MASTER

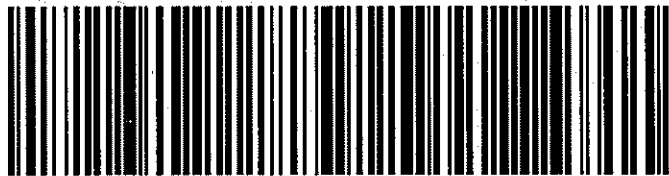
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2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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.

Sample Receipt Checklist

Client Name: **LTENV**

Date/Time Received: **21-Nov-15 10:00**

Work Order: **15111270**

Received by: **AC**

Checklist completed by Alex Coaszar

21-Nov-15

Reviewed by:

eSignature

Date

eSignature

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):

4.2 / 4.2

SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

11/21/2015 10:45:35

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: