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 894-2109

FOR OGCC USE ONLY
#8096

RECEIVED
11/21/2013

OGCC Employee:

[X] Spill [ ] Complaint
[ ] Inspection [ ] NOAV

Tracking No: 2147066

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.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

[ ] Spill or Release [ ] Plug & Abandon [ ] Central Facility Closure [X] Site/Facility Closure [ ] Other (describe):

GENERAL INFORMATION

OGCC Operator Number: 100322
Name of Operator: Noble Energy, Inc.
Address: 1625 Broadway, Suite 2200
City: Denver State: CO Zip: 80202

Contact Name and Telephone
Name: Asher Weinberg
No: (303) 228-4000
Fax:

API/Facility No: 05-045-14894
Facility Name: SGV 7N Pad
Well Name: M Dutton
Location (QtrQtr, Sec, Twp, Rng, Meridian): SWSW, 7, 8S, 95W, 6TH

County: Garfield
Facility Number: 334127
Well Number: 7-24C
Latitude: 39.373135 Longitude: -108.044009

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Produced Water
Site Conditions: Is location within a sensitive area (according to Rule 901e)? [ ] Y [X] N If yes, attach evaluation.
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Non-irrigated rangeland
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Ildefonso stony loam, 25-45 percent slopes
Potential receptors (water wells within 1/4 mi, surface waters, etc.): A surface water is located 116' north. A water well is located 2,995' west. Depth to groundwater is estimated to be between 40-60' below ground surface.

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

Impacted Media (check):	Extent of Impact:	How Determined:
[X] Soils	Excavation 38' N-S x 5' E-W x 5' deep	Soil samples were submitted for laboratory analysis
[ ] Vegetation		
[ ] Groundwater		
[ ] Surface water		

REMEDIATION WORKPLAN

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

Describe how source is to be removed:
See attached

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.:
See attached

Submit Page 2 with Page 1.

FORM 27 Rev 6/99 Page 2

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

Received Date:

OGCC Employeee:

REMEDIATION WORKPLAN (CONT.)

Tracking Number:
Name of Operator: Noble Energy
OGCC Operator No: 100322
Well Name & No:
Facility Name & No.: SGV 7N Pad (334127)

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

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.
See attached

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 [X] N If yes, describe:
See attached

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

IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	12/7/2012	Date Site Investigation Completed:	4/30/2013	Remediation Plan Submitted:	11/11/2013
Remediation Start Date:	12/7/2012	Anticipated Completion Date:	Spring 2013	Actual Completion Date:	4/30/2013

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

Print Name: Asher Weinberg

Signed: Asher Weinberg Digitally signed by Asher Weinberg DN: c=US, cn=Asher Weinberg, o=Noble Energy, ou=EHSR Date: 2013.11.21 11:42:28 -07'00'

Title: Sr Env Specialist Date: 11/21/2013

OGCC Approved: Carlos Lujan, Ph.D. Digitally signed by Carlos Lujan, Ph.D. DN: cn=Carlos Lujan, Ph.D., o=COGCC, ou=EPS NW Region, email=carlos.lujan@state.co.us, c=US Date: 2013.11.21 17:02:40 -07'00'

Title: Date:

1625 Broadway
Suite 2200.
Denver, CO 80202

Tel: 303.228.4000
Fax: 303.228.4286
www.nobleenergyinc.com

SGV 7N Pad (Facility #334127)
Form 27 (Site Investigation and Remediation Workplan)
Narrative Attachment
Document Date – 11/21/2013

This Form 27 (Site Investigation and Remediation Workplan) was prepared for the purpose of requesting No Further Action (NFA) for a release at the SGV 7N Pad (Facility #334127) in Noble Energy's (Noble) Piceance area of operations. This document presents analytical evidence that impacts have been remediated and closure has been achieved. A site location map is included as an attachment to this form.

REMEDIATION WORKPLAN

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

A Form 19 was submitted on 11/30/2012.

Describe how source is to be removed:

Soil surrounding the release point was excavated. After excavation activities were completed, confirmation soil samples were collected and submitted for laboratory analysis electrical conductivity (EC), pH, sodium adsorption ratio (SAR), and total petroleum hydrocarbons (TPH). This reduced list of analytes was approved by the COGCC via email on 11/26/12. A topographic site location map is provided as Figure 1 and a site map is provided as Figure 2.

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.:

Soil was excavated and landfarmed within a lined bermed containment on site. Once analytical reports indicated that removed soil was compliant with COGCC Table 910-1 concentration levels, it was used to backfill the excavation.

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

Groundwater was not encountered during remedial activities. Based on state records, groundwater is believed to be approximately 40 to 60 feet below ground surface (bgs).

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 excavation was backfilled to match original grade. The site is an active oil and gas location.

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? If yes, describe:

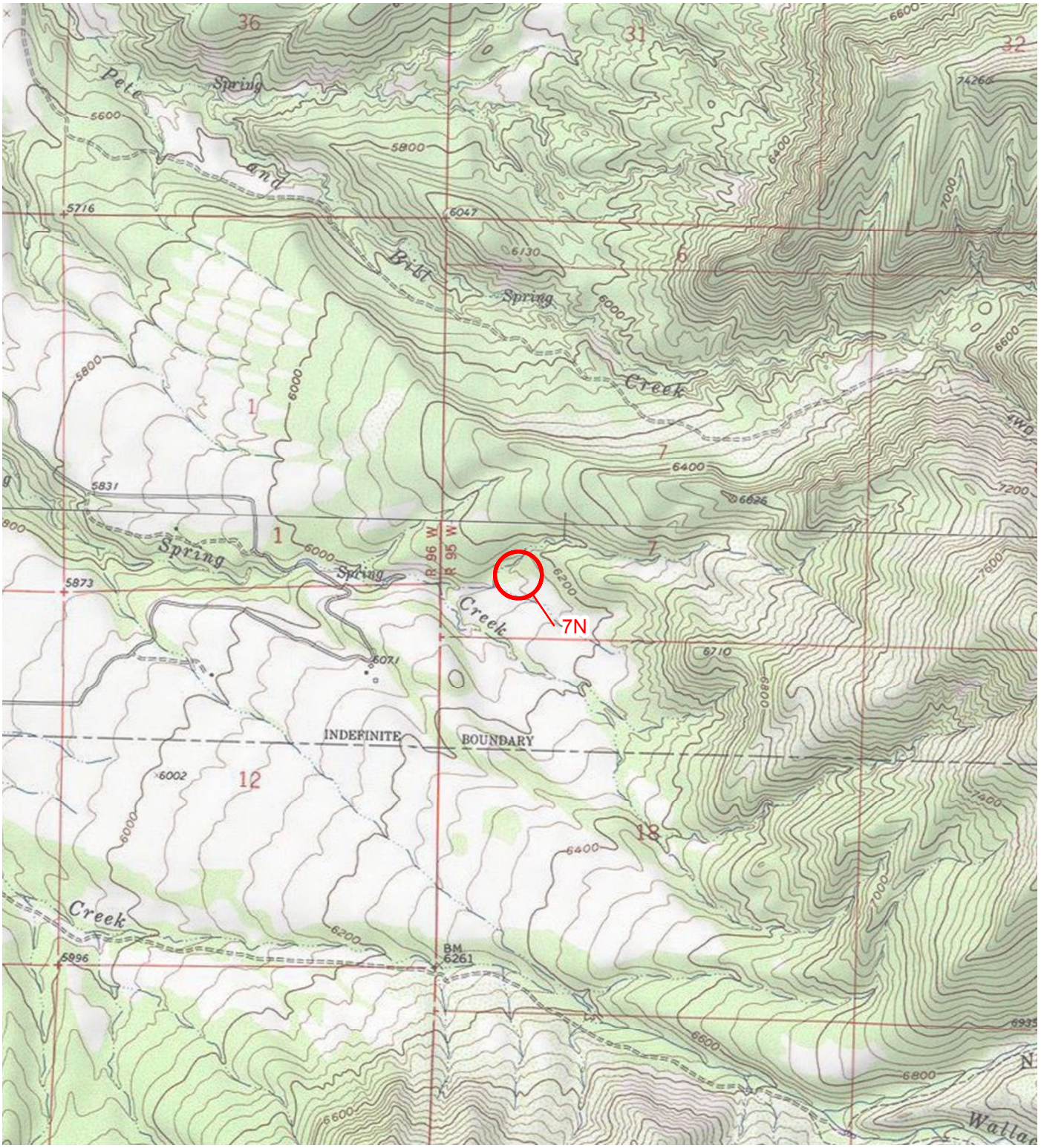
On 12/7/2012, confirmation soil samples were collected from two sidewalls and the bottom of the excavated area (N01@3.5', S01@3.5', and B01@5.5'). Soil samples were submitted for laboratory analysis of EC, pH, SAR, and TPH. Laboratory analytical results indicated soil samples N01@3.5', S01@3.5', and B01@5.5' were in compliance with COGCC Table 910-1 concentration levels for TPH and pH. Each of the soil samples (except B01@5.5') had exceedances of either EC or SAR. However, the samples were collected at depths between 3.5 feet and 5.5 feet bgs and Frequently Asked Question Number 32 on the COGCC website explains that the COGCC will apply the Table 910-1 concentration levels for EC, pH, and SAR only to soils that are within 3 feet of the ground surface. As such, the COGCC requires that materials with elevated EC, pH, or SAR concentrations be buried under a minimum of 3 feet of cover and the impacted soil is located at least 3.5 feet bgs. Sample locations are depicted on Figure 2 and laboratory analytical results are provided in Table 1. Laboratory analytical reports are included as an attachment.

A soil stockpile sample (C01) was collected on 12/31/2012 from the soil removed while uncovering the failed dump line. Soil sample C01 was submitted for laboratory analysis of EC, pH, SAR, and TPH. Laboratory analytical results indicated that soil sample C01 was in compliance with COGCC Table 910-1 concentration levels of pH and TPH. C01 exceeded the COGCC Table 910-1 levels for EC and SAR. The soil stockpile represented by C01 was re-sampled on 4/30/2013 and was submitted for laboratory analysis of EC and SAR. Laboratory analytical results indicated that soil sample C01 was in compliance with COGCC Table 910-1 concentration levels of EC and SAR.

Based on these recent analytical results, Noble is requesting a NFA designation for this release. If the information provided is satisfactory, please provide a letter of No Further Action and closure documentation for this project.

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

Once analytical reports indicated that removed soil was compliant with COGCC Table 910-1 concentration levels, it was used to backfill the excavation.



LEGEND

SITE LOCATION

IMAGE COURTESY OF ESRI/BING MAPS

0 2,000 4,000

Feet

N

FIGURE 1
SITE LOCATION MAP
7N
GARFIELD COUNTY, COLORADO

NOBLE ENERGY, INC.

P:\Noble Energy Inc\GIS\MXDs\008312060_7N\008312060_FIG01_SL.mxd

IMAGE COURTESY OF ESRI/BING MAPS

LEGEND

- SOIL SAMPLE
- COMPOSITE SAMPLE
- BACKGROUND SOIL SAMPLE
- EXCAVATION EXTENT
- STOCKPILE

0 60 120

Feet

N

FIGURE 2
SITE MAP
7N
GARFIELD COUNTY, COLORADO

NOBLE ENERGY, INC.

P:\Noble Energy Inc\GIS\MXDs\008312060_7N\008312060_FIG02_SITE.mxd

TABLE 1

SOIL ANALYTICAL RESULTS
SGV 7N
GARFIELD COUNTY, COLORADO
NOBLE ENERGY

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	B01 @ 5.5'	N01 @ 3.5'	S01 @ 3.5'
Sample Date			12/7/2012	12/7/2012	12/7/2012
Sample Type			Confirmation	Confirmation	Confirmation
Arsenic	0.39	mg/kg	NA	NA	NA
Barium	15,000	mg/kg	NA	NA	NA
Cadmium	70	mg/kg	NA	NA	NA
Chromium (III)	120,000	mg/kg	NA	NA	NA
Chromium (VI)	23	mg/kg	NA	NA	NA
Copper	3,100	mg/kg	NA	NA	NA
Lead	400	mg/kg	NA	NA	NA
Mercury	23	mg/kg	NA	NA	NA
Nickel	1,600	mg/kg	NA	NA	NA
Selenium	390	mg/kg	NA	NA	NA
Silver	390	mg/kg	NA	NA	NA
Zinc	23,000	mg/kg	NA	NA	NA
EC	4.0	mmhos/cm	7.12	**9.04**	**10.1**
pH	6 - 9	SU	8.04	7.9	8.25
SAR	12	unitless	NA	6.82	**14.1**
TPH-GRO		mg/kg	<0.050	<0.050	38
TPH-DRO		mg/kg	<1.7	<1.7	38
TPH	500	mg/kg	<1.750	<1.750	76
Benzene	0.17	mg/kg	NA	NA	NA
Toluene	85	mg/kg	NA	NA	NA
Ethylbenzene	100	mg/kg	NA	NA	NA
Total Xylenes	175	mg/kg	NA	NA	NA
Acenaphthene	1000	mg/kg	NA	NA	NA
Anthracene	1000	mg/kg	NA	NA	NA
Benzo(A)anthracene	0.22	mg/kg	NA	NA	NA
Benzo(B)fluoranthene	0.22	mg/kg	NA	NA	NA
Benzo(K)fluoranthene	2.2	mg/kg	NA	NA	NA
Benzo(A)pyrene	0.022	mg/kg	NA	NA	NA
Chrysene	22	mg/kg	NA	NA	NA
Dibenzo(A,H)anthracene	0.022	mg/kg	NA	NA	NA
Fluoranthene	1000	mg/kg	NA	NA	NA
Fluorene	1000	mg/kg	NA	NA	NA
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	NA	NA	NA
Naphthalene	23	mg/kg	NA	NA	NA
Pyrene	1000	mg/kg	NA	NA	NA

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

TABLE 1

SOIL ANALYTICAL RESULTS
SGV 7N
GARFIELD COUNTY, COLORADO
NOBLE ENERGY

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	C01	C01
Sample Date			12/31/2012	4/30/2013
Sample Type			Stockpile	Stockpile
Arsenic	0.39	mg/kg	NA	NA
Barium	15,000	mg/kg	NA	NA
Cadmium	70	mg/kg	NA	NA
Chromium (III)	120,000	mg/kg	NA	NA
Chromium (VI)	23	mg/kg	NA	NA
Copper	3,100	mg/kg	NA	NA
Lead	400	mg/kg	NA	NA
Mercury	23	mg/kg	NA	NA
Nickel	1,600	mg/kg	NA	NA
Selenium	390	mg/kg	NA	NA
Silver	390	mg/kg	NA	NA
Zinc	23,000	mg/kg	NA	NA
EC	4.0	mmhos/cm	**8.39**	3.67
pH	6 - 9	SU	8.31	NA
SAR	12	unitless	**14.8**	2.10
TPH-GRO		mg/kg	0.89	NA
TPH-DRO		mg/kg	4.1	NA
TPH	500	mg/kg	4.99	NA
Benzene	0.17	mg/kg	NA	NA
Toluene	85	mg/kg	NA	NA
Ethylbenzene	100	mg/kg	NA	NA
Total Xylenes	175	mg/kg	NA	NA
Acenaphthene	1000	mg/kg	NA	NA
Anthracene	1000	mg/kg	NA	NA
Benzo(A)anthracene	0.22	mg/kg	NA	NA
Benzo(B)fluoranthene	0.22	mg/kg	NA	NA
Benzo(K)fluoranthene	2.2	mg/kg	NA	NA
Benzo(A)pyrene	0.022	mg/kg	NA	NA
Chrysene	22	mg/kg	NA	NA
Dibenzo(A,H)anthracene	0.022	mg/kg	NA	NA
Fluoranthene	1000	mg/kg	NA	NA
Fluorene	1000	mg/kg	NA	NA
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	NA	NA
Naphthalene	23	mg/kg	NA	NA
Pyrene	1000	mg/kg	NA	NA

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

TABLE 1

SOIL ANALYTICAL RESULTS
SGV 7N
GARFIELD COUNTY, COLORADO
NOBLE ENERGY

PARAMETER	COGCC CONCENTRATION LEVELS	UNITS	BG-01	BG-02
Sample Date			12/7/2012	12/7/2012
Sample Type			Background	Background
Arsenic	0.39	mg/kg	NA	NA
Barium	15,000	mg/kg	NA	NA
Cadmium	70	mg/kg	NA	NA
Chromium (III)	120,000	mg/kg	NA	NA
Chromium (VI)	23	mg/kg	NA	NA
Copper	3,100	mg/kg	NA	NA
Lead	400	mg/kg	NA	NA
Mercury	23	mg/kg	NA	NA
Nickel	1,600	mg/kg	NA	NA
Selenium	390	mg/kg	NA	NA
Silver	390	mg/kg	NA	NA
Zinc	23,000	mg/kg	NA	NA
EC	4.0	mmhos/cm	**4.12**	2.47
pH	6 - 9	SU	8.26	7.43
SAR	12	unitless	2.84	0.589
TPH-GRO		mg/kg	NA	NA
TPH-DRO		mg/kg	NA	NA
TPH	500	mg/kg	NA	NA
Benzene	0.17	mg/kg	NA	NA
Toluene	85	mg/kg	NA	NA
Ethylbenzene	100	mg/kg	NA	NA
Total Xylenes	175	mg/kg	NA	NA
Acenaphthene	1000	mg/kg	NA	NA
Anthracene	1000	mg/kg	NA	NA
Benzo(A)anthracene	0.22	mg/kg	NA	NA
Benzo(B)fluoranthene	0.22	mg/kg	NA	NA
Benzo(K)fluoranthene	2.2	mg/kg	NA	NA
Benzo(A)pyrene	0.022	mg/kg	NA	NA
Chrysene	22	mg/kg	NA	NA
Dibenzo(A,H)anthracene	0.022	mg/kg	NA	NA
Fluoranthene	1000	mg/kg	NA	NA
Fluorene	1000	mg/kg	NA	NA
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	NA	NA
Naphthalene	23	mg/kg	NA	NA
Pyrene	1000	mg/kg	NA	NA

NOTES:
< - less than the stated reporting limit
BOLD - indicates result exceeds the COGCC concentration level
COGCC - Colorado Oil and Gas Conservation Commission
EC- electrical conductivity
mg/kg - milligrams per kilogram
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TPH-GRO - total petroleum hydrocarbons-gasoline range organics
TPH-DRO - total petroleum hydrocarbons-diesel range organics
TPH - combination of TPH-GRO and TPH-DRO

28-Dec-2012

Jake Janicek
LT Environmental, Inc.
820 Megan Avenue, Unit B
Rifle, Colorado 81650

Tel: (970) 285-9985
Fax:

Re: 7N Work Order: **1212284**

Dear Jake,

ALS Environmental received 7 samples on 08-Dec-2012 09:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is ZZ.

Regards,

Patricia L. Lynch

Electronically approved by: Bernadette A. Fini

Patricia L. Lynch
Project Manager

Certificate No: T104704231-09A-TX

ALS Environmental

Date: 28-Dec-12

Client: LT Environmental, Inc.
Project: 7N
Work Order: 1212284

Case Narrative

Report revised on December 28, 2012 per clients email received on December 28, 2012 change sample ID's " E01@3.5"' to " N01@3.5"' and "W01@3.5"' to "S01@3.5"'.

Batch R139674, Gasoline Range Organics - SW8015C, Sample 1212284-03A: Surrogate failure for 1212284-03A; confirmed by reanalysis at dilution.

ALS Environmental

Date: *28-Dec-12*

Client: LT Environmental, Inc.
Project: 7N
Work Order: 1212284
Sample ID: B01@5.5'
Lab ID: 1212284-01
Collection Date: 12/7/2012 02:27 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO - 8015C			**SW8015M**		Prep Date: **12/13/2012**	Analyst: **KMB**
TPH (Diesel Range)	U		1.7	mg/Kg	1	12/13/2012 10:42 PM
Surr: 2-Fluorobiphenyl	*63.5*		*60-135*	*%REC*	1	12/13/2012 10:42 PM
GASOLINE RANGE ORGANICS - SW8015C			**SW8015**			Analyst: **KKP**
Gasoline Range Organics	U		0.050	mg/Kg	1	12/10/2012 05:12 PM
Surr: 4-Bromofluorobenzene	*95.0*		*70-130*	*%REC*	1	12/10/2012 05:12 PM
LA29B ELECTRICAL CONDUCTIVITY			**LADNR-29B EC**			Analyst: **VAN**
Electrical Conductivity @ saturation	**7.12**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Electrical Conductivity, 1:1 aqueous	**4.47**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Saturation % as decimal	**0.627**			**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
LA29B SATURATION POINT			**LADNR-29B SP**			Analyst: **KAH**
Saturation Point	**0.627**		**0.100**	**% Saturation as Decimal**	1	12/14/2012 03:50 PM
PH - SOIL - SW9045D			**SW9045B**			Analyst: **KL**
pH	**8.04**		**0.100**	**pH Units**	1	12/11/2012 01:00 PM

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

ALS Environmental

Date: *28-Dec-12*

Client: LT Environmental, Inc.
Project: 7N
Work Order: 1212284
Sample ID: N01@3.5'
Lab ID: 1212284-02
Collection Date: 12/7/2012 02:34 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO - 8015C			**SW8015M**		Prep Date: **12/13/2012**	Analyst: **KMB**
TPH (Diesel Range)	U		1.7	mg/Kg	1	12/13/2012 11:05 PM
Surr: 2-Fluorobiphenyl	*70.9*		*60-135*	*%REC*	1	12/13/2012 11:05 PM
GASOLINE RANGE ORGANICS - SW8015C			**SW8015**			Analyst: **KKP**
Gasoline Range Organics	U		0.050	mg/Kg	1	12/10/2012 05:31 PM
Surr: 4-Bromofluorobenzene	*91.8*		*70-130*	*%REC*	1	12/10/2012 05:31 PM
LA29B SODIUM ADSORPTION RATIO			**LA29B SAR**		Prep Date: **12/19/2012**	Analyst: **ALR**
Sodium Adsorption Ratio	**6.82**		**0.0100**	**meq/meq**	1	12/19/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR			**LA29B-6020**		Prep Date: **12/19/2012**	Analyst: **SKS**
Calcium	**267**		**5.00**	**mg/L**	10	12/20/2012 07:30 PM
Magnesium	**217**		**5.00**	**mg/L**	10	12/20/2012 07:30 PM
Sodium	**619**		**5.00**	**mg/L**	10	12/20/2012 07:30 PM
LA29B ELECTRICAL CONDUCTIVITY			**LADNR-29B EC**			Analyst: **VAN**
Electrical Conductivity @ saturation	**9.04**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Electrical Conductivity, 1:1 aqueous	**5.82**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Saturation % as decimal	**0.644**			**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
LA29B SATURATION POINT			**LADNR-29B SP**			Analyst: **KAH**
Saturation Point	**0.644**		**0.100**	**% Saturation as Decimal**	1	12/14/2012 03:50 PM
PH - SOIL - SW9045D			**SW9045B**			Analyst: **KL**
pH	**7.90**		**0.100**	**pH Units**	1	12/11/2012 01:00 PM

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

ALS Environmental

Date: *28-Dec-12*

Client: LT Environmental, Inc.
Project: 7N
Work Order: 1212284
Sample ID: S01@3.5'
Lab ID: 1212284-03
Collection Date: 12/7/2012 02:41 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO - 8015C			**SW8015M**		Prep Date: **12/13/2012**	Analyst: **KMB**
TPH (Diesel Range)	**38**		**1.7**	**mg/Kg**	1	12/13/2012 11:28 PM
Surr: 2-Fluorobiphenyl	*91.2*		*60-135*	*%REC*	1	12/13/2012 11:28 PM
GASOLINE RANGE ORGANICS - SW8015C			**SW8015**			Analyst: **KKP**
Gasoline Range Organics	**38**		**0.25**	**mg/Kg**	5	12/11/2012 06:06 PM
Surr: 4-Bromofluorobenzene	*243*	S	*70-130*	*%REC*	5	12/11/2012 06:06 PM
LA29B SODIUM ADSORPTION RATIO			**LA29B SAR**		Prep Date: **12/19/2012**	Analyst: **ALR**
Sodium Adsorption Ratio	**14.1**		**0.0100**	**meq/meq**	1	12/19/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR			**LA29B-6020**		Prep Date: **12/19/2012**	Analyst: **SKS**
Calcium	**156**		**5.00**	**mg/L**	10	12/20/2012 07:32 PM
Magnesium	**126**		**5.00**	**mg/L**	10	12/20/2012 07:32 PM
Sodium	**977**		**5.00**	**mg/L**	10	12/20/2012 07:32 PM
LA29B ELECTRICAL CONDUCTIVITY			**LADNR-29B EC**			Analyst: **VAN**
Electrical Conductivity @ saturation	**10.1**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Electrical Conductivity, 1:1 aqueous	**6.70**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Saturation % as decimal	**0.666**			**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
LA29B SATURATION POINT			**LADNR-29B SP**			Analyst: **KAH**
Saturation Point	**0.666**		**0.100**	**% Saturation as Decimal**	1	12/14/2012 03:50 PM
PH - SOIL - SW9045D			**SW9045B**			Analyst: **KL**
pH	**8.25**		**0.100**	**pH Units**	1	12/11/2012 01:00 PM

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

ALS Environmental

Date: *28-Dec-12*

Client: LT Environmental, Inc.
Project: 7N
Work Order: 1212284
Sample ID: BG-01
Lab ID: 1212284-04
Collection Date: 12/7/2012 03:31 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LA29B SODIUM ADSORPTION RATIO			**LA29B SAR**		Prep Date: **12/13/2012**	Analyst: **ALR**
Sodium Adsorption Ratio	**2.84**		**0.0100**	**meq/meq**	1	12/19/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR			**LA29B-6020**		Prep Date: **12/13/2012**	Analyst: **ALR**
Calcium	**148**		**5.00**	**mg/L**	10	12/17/2012 06:25 PM
Magnesium	**21.9**		**5.00**	**mg/L**	10	12/17/2012 06:25 PM
Sodium	**140**		**5.00**	**mg/L**	10	12/17/2012 06:25 PM
LA29B ELECTRICAL CONDUCTIVITY			**LADNR-29B EC**			Analyst: **VAN**
Electrical Conductivity @ saturation	**4.12**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Electrical Conductivity, 1:1 aqueous	**1.38**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Saturation % as decimal	**0.335**			**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
LA29B SATURATION POINT			**LADNR-29B SP**			Analyst: **KAH**
Saturation Point	**0.335**		**0.100**	**% Saturation as Decimal**	1	12/14/2012 03:50 PM
PH - SOIL - SW9045D			**SW9045B**			Analyst: **KL**
pH	**8.26**		**0.100**	**pH Units**	1	12/12/2012 02:15 PM

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

ALS Environmental

Date: *28-Dec-12*

Client: LT Environmental, Inc.
Project: 7N
Work Order: 1212284
Sample ID: BG02
Lab ID: 1212284-05
Collection Date: 12/7/2012 03:36 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LA29B SODIUM ADSORPTION RATIO			**LA29B SAR**		Prep Date: **12/13/2012**	Analyst: **ALR**
Sodium Adsorption Ratio	**0.589**		**0.0100**	**meq/meq**	1	12/19/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR			**LA29B-6020**		Prep Date: **12/13/2012**	Analyst: **ALR**
Calcium	**174**		**4.99**	**mg/L**	10	12/17/2012 06:30 PM
Magnesium	**28.6**		**4.99**	**mg/L**	10	12/17/2012 06:30 PM
Sodium	**31.8**		**4.99**	**mg/L**	10	12/17/2012 06:30 PM
LA29B ELECTRICAL CONDUCTIVITY			**LADNR-29B EC**			Analyst: **VAN**
Electrical Conductivity @ saturation	**2.47**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Electrical Conductivity, 1:1 aqueous	**1.12**		**0.0100**	**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
Saturation % as decimal	**0.453**			**mmhos/cm @25°C**	1	12/14/2012 03:50 PM
LA29B SATURATION POINT			**LADNR-29B SP**			Analyst: **KAH**
Saturation Point	**0.453**		**0.100**	**% Saturation as Decimal**	1	12/14/2012 03:50 PM
PH - SOIL - SW9045D			**SW9045B**			Analyst: **KL**
pH	**7.43**		**0.100**	**pH Units**	1	12/12/2012 02:15 PM

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

ALS Environmental

Date: 28-Dec-12

Client: LT Environmental, Inc.

Work Order: 1212284

Project: 7N

QC BATCH REPORT

Batch ID: **66501a** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-121213-66501a** Units: **mg/Kg** Analysis Date: **12/13/2012 09:57 PM**

Client ID: Run ID: **FID-7_121213A** SeqNo: **3054885** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	U	1.7								
Surr: 2-Fluorobiphenyl	2.632	0.10	*3.33*	0	*79*	*60-135*	0			

LCS Sample ID: **FLCSS1-121213-66501a** Units: **mg/Kg** Analysis Date: **12/13/2012 10:19 PM**

Client ID: Run ID: **FID-7_121213A** SeqNo: **3054886** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	36.11	1.7	33.33	0	108	70-130	0			
Surr: 2-Fluorobiphenyl	3.426	0.10	*3.33*	0	*103*	*60-135*	0			

MS Sample ID: **1212295-01AMS** Units: **mg/Kg** Analysis Date: **12/14/2012 12:12 A**

Client ID: Run ID: **FID-7_121213A** SeqNo: **3054891** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	46.1	1.7	33.3	5.55	122	70-130	0			
Surr: 2-Fluorobiphenyl	3.41	0.10	*3.327*	0	*103*	*60-135*	0			

MSD Sample ID: **1212295-01AMSD** Units: **mg/Kg** Analysis Date: **12/14/2012 12:35 A**

Client ID: Run ID: **FID-7_121213A** SeqNo: **3054892** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	45.26	1.7	33.31	5.55	119	70-130	46.1	1.83	30	
Surr: 2-Fluorobiphenyl	2.959	0.10	*3.328*	0	*88.9*	*60-135*	3.41	*14.2*	*30*	

The following samples were analyzed in this batch: 1212284-01C 1212284-02C 1212284-03C

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **R139577** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-121210-R139577** Units: **mg/Kg** Analysis Date: **12/10/2012 12:33 PM**
Client ID: Run ID: **FID-9_121210A** SeqNo: **3047277** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	0.09105	0.0050	*0.1*	0	*91.1*	*70-130*	0			

LCS Sample ID: **GLCSS-121210-R139577** Units: **mg/Kg** Analysis Date: **12/10/2012 11:56 A**
Client ID: Run ID: **FID-9_121210A** SeqNo: **3047275** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9853	0.050	1	0	98.5	70-130	0			
Surr: 4-Bromofluorobenzene	0.1009	0.0050	*0.1*	0	*101*	*70-130*	0			

LCSD Sample ID: **GLCSDS-121210-R139577** Units: **mg/Kg** Analysis Date: **12/10/2012 12:15 PM**
Client ID: Run ID: **FID-9_121210A** SeqNo: **3047276** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.066	0.050	1	0	107	70-130	0.9853	7.86	30	
Surr: 4-Bromofluorobenzene	0.1003	0.0050	*0.1*	0	*100*	*70-130*	0.1009	*0.626*	*30*	

MS Sample ID: **1212232-03AMS** Units: **mg/Kg** Analysis Date: **12/10/2012 02:41 PM**
Client ID: Run ID: **FID-9_121210A** SeqNo: **3047279** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.964	0.050	1	0	96.4	70-130	0			
Surr: 4-Bromofluorobenzene	0.09359	0.0050	*0.1*	0	*93.6*	*70-130*	0			

MSD Sample ID: **1212232-03AMSD** Units: **mg/Kg** Analysis Date: **12/10/2012 03:00 PM**
Client ID: Run ID: **FID-9_121210A** SeqNo: **3047280** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.014	0.050	1	0	101	70-130	0.964	5.04	30	
Surr: 4-Bromofluorobenzene	0.09395	0.0050	*0.1*	0	*94*	*70-130*	0.09359	*0.385*	*30*	

The following samples were analyzed in this batch: 1212284-01A 1212284-02A

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **R139674** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-121211-R139674** Units: **mg/Kg** Analysis Date: **12/11/2012 11:23 A**
Client ID: Run ID: **FID-9_121211C** SeqNo: **3049498** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	0.08454	0.0050	*0.1*	0	*84.5*	*70-130*	0			

LCS Sample ID: **GLCSS-121211-R139674** Units: **mg/Kg** Analysis Date: **12/11/2012 10:45 A**
Client ID: Run ID: **FID-9_121211C** SeqNo: **3049496** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.928	0.050	1	0	92.8	70-130	0			
Surr: 4-Bromofluorobenzene	0.08828	0.0050	*0.1*	0	*88.3*	*70-130*	0			

LCSD Sample ID: **GLCSDS-121211-R139674** Units: **mg/Kg** Analysis Date: **12/11/2012 11:04 A**
Client ID: Run ID: **FID-9_121211C** SeqNo: **3049497** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9966	0.050	1	0	99.7	70-130	0.928	7.12	30	
Surr: 4-Bromofluorobenzene	0.09073	0.0050	*0.1*	0	*90.7*	*70-130*	0.08828	*2.73*	*30*	

MS Sample ID: **1212224-10ZMS** Units: **mg/Kg** Analysis Date: **12/11/2012 04:45 PM**
Client ID: Run ID: **FID-9_121211C** SeqNo: **3049503** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9624	0.050	0.99	0	97.2	70-130	0			
Surr: 4-Bromofluorobenzene	0.08799	0.0050	*0.099*	0	*88.9*	*70-130*	0			

MSD Sample ID: **1212224-10ZMSD** Units: **mg/Kg** Analysis Date: **12/11/2012 05:04 PM**
Client ID: Run ID: **FID-9_121211C** SeqNo: **3049505** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.027	0.050	1	0	103	70-130	0.9624	6.5	30	
Surr: 4-Bromofluorobenzene	0.08796	0.0050	*0.1*	0	*88*	*70-130*	0.08799	*0.0332*	*30*	

The following samples were analyzed in this batch: 1212284-03A

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **66514** Instrument ID **ICP7500** Method: **La29B-6020**

MBLK Sample ID: **BLK-121412-SAR-66514** Units: **mg/L** Analysis Date: **12/17/2012 06:15 PM**
Client ID: Run ID: **ICP7500_121217A** SeqNo: **3056156** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	0.50								
Magnesium	U	0.50								
Sodium	U	0.50								

LCS Sample ID: **LCS-121412-SAR-66514** Units: **mg/L** Analysis Date: **12/17/2012 06:20 PM**
Client ID: Run ID: **ICP7500_121217A** SeqNo: **3056157** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	10.28	0.50	10	0	103	80-120	0			
Magnesium	10.55	0.50	10	0	106	80-120	0			
Sodium	10.76	0.50	10	0	108	80-120	0			

DUP Sample ID: **1212393-02DDUP** Units: **mg/L** Analysis Date: **12/17/2012 07:40 PM**
Client ID: Run ID: **ICP7500_121217A** SeqNo: **3056173** Prep Date: **12/13/2012** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	6.751	5.0	0	0	0		6.691	0.892	30	
Magnesium	3.964	2.0	0	0	0		4.364	9.6	30	
Sodium	239.3	5.0	0	0	0		235.8	1.47	30	

The following samples were analyzed in this batch: 1212284-04A 1212284-05A

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **66514A** Instrument ID **MISC-Metals** Method: **La29B SAR**

DUP Sample ID: **1212393-02DDUP** Units: **meq/meq** Analysis Date: **12/19/2012**
Client ID: Run ID: **MISC-METALS_121219** SeqNo: **3058503** Prep Date: **12/13/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	18.06	0.010	0	0	0		17.45	3.44	30	

The following samples were analyzed in this batch: 1212284-04A 1212284-05A

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **66674** Instrument ID **ICPMS05** Method: **La29B-6020**

LCS Sample ID: **LCS-121912-SAR-66674** Units: **mg/L** Analysis Date: **12/21/2012 01:04 PM**

Client ID: Run ID: **ICPMS05_121221A** SeqNo: **3063064** Prep Date: **12/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	10.17	0.50	10	0	102	80-120	0			
Magnesium	10.37	0.50	10	0	104	80-120	0			
Sodium	10.7	0.50	10	0	107	80-120	0			

DUP Sample ID: **1212284-03CDUP** Units: **mg/L** Analysis Date: **12/20/2012 07:34 PM**

Client ID: **S01@3.5'** Run ID: **ICPMS05_121220A** SeqNo: **3062439** Prep Date: **12/19/2012** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	158.9	5.0	0	0	0		155.8	1.94	30	
Magnesium	127.7	5.0	0	0	0		126.2	1.23	30	
Sodium	1009	5.0	0	0	0		977.5	3.18	30	

The following samples were analyzed in this batch: 1212284-02C 1212284-03C

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **66674A** Instrument ID **MISC-Metals** Method: **La29B SAR**

DUP Sample ID: **1212284-03CDUP** Units: **meq/meq** Analysis Date: **12/19/2012**

Client ID: **S01@3.5'** Run ID: **MISC-METALS_121219** SeqNo: **3063123** Prep Date: **12/19/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	14.46	0.010	0	0	0		14.11	2.45	30	

The following samples were analyzed in this batch: 1212284-02C 1212284-03C

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **R139587** Instrument ID **WetChem** Method: **SW9045B** **(Dissolve)**

LCS Sample ID: **WLCSS1-121211-R139587** Units: **pH Units** Analysis Date: **12/11/2012 01:00 PM**

Client ID: Run ID: **WETCHEM_121211A** SeqNo: **3047452** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.02	0.10	6	0	100	90-110	0			

DUP Sample ID: **1212233-01ADUP** Units: **pH Units** Analysis Date: **12/11/2012 01:00 PM**

Client ID: Run ID: **WETCHEM_121211A** SeqNo: **3047473** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.67	0.10	0	0	0	0-0	7.65	0.261	20	

The following samples were analyzed in this batch: 1212284-01B 1212284-02B 1212284-03B

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **R139732** Instrument ID **WetChem** Method: **SW9045B** **(Dissolve)**

LCS Sample ID: **WLCSS1-121212-R139732** Units: **pH Units** Analysis Date: **12/12/2012 02:15 PM**

Client ID: Run ID: **WETCHEM_121212I** SeqNo: **3050431** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.02	0.10	6	0	100	90-110	0			

DUP Sample ID: **1212284-04ADUP** Units: **pH Units** Analysis Date: **12/12/2012 02:15 PM**

Client ID: **BG-01** Run ID: **WETCHEM_121212I** SeqNo: **3050435** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.28	0.10	0	0	0	0-0	8.26	0.242	20	

The following samples were analyzed in this batch: 1212284-04A 1212284-05A

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **R139929** Instrument ID **Balance1** Method: **LaDNR-29B SP** **(Dissolve)**

DUP Sample ID: **1212284-04ADUP** Units: **% Saturation as D** Analysis Date: **12/14/2012 03:50 PM**

Client ID: **BG-01** Run ID: **BALANCE1_121214D** SeqNo: **3055049** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.323	0.10	0	0	0		0.335	3.65	30	

The following samples were analyzed in this batch:

1212284-01C	1212284-02C	1212284-03C
1212284-04A	1212284-05A	

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

Client: LT Environmental, Inc.
Work Order: 1212284
Project: 7N

QC BATCH REPORT

Batch ID: **R139958** Instrument ID **Balance1** Method: **LaDNR-29B EC (Dissolve)**

MBLK Sample ID: **WBLKW-121512-R139958** Units: **mmhos/cm @25°** Analysis Date: **12/14/2012 03:50 PM**

Client ID: Run ID: **BALANCE1_121214F** SeqNo: **3055684** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	U	0.010								
Electrical Conductivity, 1:1 aqueous	U	0.010								
Saturation % as decimal	U	0								

LCS Sample ID: **WLCSW-121512-R139958** Units: **mmhos/cm @25°** Analysis Date: **12/14/2012 03:50 PM**

Client ID: Run ID: **BALANCE1_121214F** SeqNo: **3055685** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	2	0.010	2	0	100	90-110	0			
Electrical Conductivity, 1:1 aqueous	2	0.010	2	0	100	90-110	0			

DUP Sample ID: **1212284-04ADUP** Units: **mmhos/cm @25°** Analysis Date: **12/14/2012 03:50 PM**

Client ID: **BG-01** Run ID: **BALANCE1_121214F** SeqNo: **3055701** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	4.277	0.010	0	0	0		4.122	3.69	20	
Electrical Conductivity, 1:1 aqueous	1.38	0.010	0	0	0		1.38	0	20	
Saturation % as decimal	0.323	0	0	0	0		0.335	3.65		

The following samples were analyzed in this batch:

1212284-01C	1212284-02C	1212284-03C
1212284-04A	1212284-05A	

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

ALS Environmental

Date: 28-Dec-12

Client: LT Environmental, Inc.
Project: 7N
WorkOrder: **1212284**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
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

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
% Saturation as Decimal	
meq/meq	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
mmhos/cm @25°C	
pH Units	

ALS Environmental

Sample Receipt Checklist

Client Name: **LT E - RIFLE, CO** Date/Time Received: **08-Dec-12 09:30**

Work Order: **1212284** Received by: **RDH**

Checklist completed by Rachel D. Naran eSignature 10-Dec-12 Date Reviewed by: Patricia L. Lynch eSignature 11-Dec-12 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 ☐	
Temperature(s)/Thermometer(s):	2.6C U/C	005	
Cooler(s)/Kit(s):	4103		
Date/Time sample(s) sent to storage:	12/10/12 09:07		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

☐ ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Fo

1212284

LT E - RIFLE, CO: LT Environmental, Inc.

Project: CO Table 910 Analyses

Page 1 of 1

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	7N	A	TPH GRO/DRO
Work Order		Project Number	00831206O	B	EC
Company Name	LT Environmental	Bill To Company	Noble Energy	C	pH
Send Report To	Jacob Janicek	Invoice Attn	Asher Weinberg	D	
Address	820 Megan Ave, Unit B	Address	1625 Broadway Suite 2200	E	
				F	
City/State/Zip	Rifle CO 81650	City/State/Zip	Denver CO 80202	G	
Phone	970-778-2314	Phone	720-587-2198	H	
Fax		Fax		I	
e-Mail Address	jjanicek@ltenv.com	e-Mail Address	AWeinberg@nobleenergyinc.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	B01 @5.5'	12-7-12	1427	So	—	3	X	X	X								
2	E01 @3.5'	12-7-12	1434	So	—	3	X	X	X								
3	W01 @3.5'	12-7-12	1441	So	—	3	X	X	X								
4	BG01	12-7-12	1531	So	—	1		X	X								
5	BG02	12-7-12	1536	So	—	1		X	X								
6	C01	12-7-12	1507	So	—	4											
7																	
8	↳ Hold C01 for analysis instructions																
9																	
10																	

1) Please direct bill Asher
2) Please send copy of report to Asher

Sampler(s) Please Print & Sign: Jacob Janicek

Shipment Method: Lab Hub

Required Turnaround Time: (Check Box) ☐ Other ____ ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Jacob Janicek	12-7-12	1630	ACKM, Lab Hub
Relinquished by:	Date:	Time:	Received by (Laboratory): 12/8/12 0930
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 1) If TPH > 500 mg/kg, analyze for BTEX
2) If EC > 4 mmhos/cm, analyze for SAR

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☒ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

121224

From: (970) 424-4749
Lab Hub, LLC

127 E First Street

PARACHUTE, CO 81635

Origin ID: RILA

FedEx Express

J12201209200325

Ship Date: 07DEC12
ActWgt: 54.0 LB
CAD: 103923490/INET3300

Dims: 25 X 14 X 15 IN

Delivery Address Bar Code

Ref # 1001-120712-2
Invoice #
PO #
Dept #

SHIP TO: (281) 530-5656

BILL RECIPIENT

Sample Receiving
ALS Environmental - Texas
10450 STANCLIFF RD
STE 210
HOUSTON, TX 77099

TRK# 0201 7942 5285 6695

SATURDAY ### A1
PRIORITY OVERNIGHT

X0 SGRA

77099
TX-US
IAH

515G1/B2B3/AA44

Lab Hub LLC

Date: 12-0

Time: 16

Custody seal

12/8/12

10-Jan-2013

Jake Janicek
LT Environmental, Inc.
820 Megan Avenue, Unit B
Rifle, Colorado 81650

Tel: (970) 285-9985
Fax:

Re: 7N

Work Order: **1301083**

Dear Jake,

ALS Environmental received 2 samples on 03-Jan-2013 09:35 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. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

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

Sincerely,

Electronically approved by: Luke F. Hernandez

Patricia L. Lynch
Project Manager

Certificate No: T104704231-09A-TX

ALS Environmental

Date: 10-Jan-13

Client: LT Environmental, Inc.
Project: 7N
Work Order: **1301083**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1301083-01	C01	Soil		12/31/2012 08:45	1/3/2013 09:35	☐
1301083-02	Trip Blank	Water		12/31/2012	1/3/2013 09:35	☐

Client: LT Environmental, Inc.
Project: 7N
Work Order: 1301083

Case Narrative

No exceptions.

ALS Environmental

Date: *10-Jan-13*

Client: LT Environmental, Inc.
Project: 7N
Work Order: 1301083
Sample ID: C01
Lab ID: 1301083-01
Collection Date: 12/31/2012 08:45 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH DRO/ORO - 8015C			**SW8015M**		Prep Date: **1/4/2013**	Analyst: **KMB**
TPH (Diesel Range)	**4.1**		**1.7**	**mg/Kg**	1	1/4/2013 03:14 PM
Surr: 2-Fluorobiphenyl	*62.6*		*60-135*	*%REC*	1	1/4/2013 03:14 PM
GASOLINE RANGE ORGANICS - SW8015C			**SW8015**			Analyst: **KKP**
Gasoline Range Organics	**0.89**		**0.050**	**mg/Kg**	1	1/7/2013 06:48 PM
Surr: 4-Bromofluorobenzene	*125*		*70-130*	*%REC*	1	1/7/2013 06:48 PM
LA29B SODIUM ADSORPTION RATIO			**LA29B SAR**		Prep Date: **1/8/2013**	Analyst: **ALR**
Sodium Adsorption Ratio	**14.8**		**0.0100**	**meq/meq**	1	1/10/2013
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR			**LA29B-6020**		Prep Date: **1/8/2013**	Analyst: **SKS**
Calcium	**154**		**5.00**	**mg/L**	10	1/9/2013 06:31 PM
Magnesium	**118**		**5.00**	**mg/L**	10	1/9/2013 06:31 PM
Sodium	**1,000**		**5.00**	**mg/L**	10	1/9/2013 06:31 PM
LA29B ELECTRICAL CONDUCTIVITY			**LADNR-29B EC**			Analyst: **KL**
Electrical Conductivity @ saturation	**8.39**		**0.0100**	**mmhos/cm @25°C**	1	1/8/2013 03:00 PM
Electrical Conductivity, 1:1 aqueous	**6.22**		**0.0100**	**mmhos/cm @25°C**	1	1/8/2013 03:00 PM
Saturation % as decimal	**0.742**			**mmhos/cm @25°C**	1	1/8/2013 03:00 PM
LA29B SATURATION POINT			**LADNR-29B SP**			Analyst: **KAH**
Saturation Point	**0.742**		**0.100**	**% Saturation as Decimal**	1	1/7/2013 12:50 PM
PH - SOIL - SW9045D			**SW9045B**			Analyst: **KL**
pH	**8.31**		**0.100**	**pH Units**	1	1/5/2013 11:00 AM

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

Batch ID: **66951** Instrument ID **FID-7** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-130104-66951** Units: **mg/Kg** Analysis Date: **1/4/2013 02:29 PM**

Client ID: Run ID: **FID-7_130104A** SeqNo: **3075648** Prep Date: **1/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	U	1.7								
Surr: 2-Fluorobiphenyl	2.167	0.10	*3.33*	0	*65.1*	*60-135*	0			

LCS Sample ID: **FLCSS1-130104-66951** Units: **mg/Kg** Analysis Date: **1/4/2013 02:51 PM**

Client ID: Run ID: **FID-7_130104A** SeqNo: **3075649** Prep Date: **1/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	38.89	1.7	33.33	0	117	70-130	0			
Surr: 2-Fluorobiphenyl	3.211	0.10	*3.33*	0	*96.4*	*60-135*	0			

MS Sample ID: **1301083-01BMS** Units: **mg/Kg** Analysis Date: **1/4/2013 02:51 PM**

Client ID: **C01** Run ID: **FID-7_130104A** SeqNo: **3075651** Prep Date: **1/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	37.7	1.7	33.21	4.138	101	70-130	0			
Surr: 2-Fluorobiphenyl	2.679	0.10	*3.318*	0	*80.7*	*60-135*	0			

MSD Sample ID: **1301083-01BMSD** Units: **mg/Kg** Analysis Date: **1/4/2013 03:14 PM**

Client ID: **C01** Run ID: **FID-7_130104A** SeqNo: **3075652** Prep Date: **1/4/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	34.49	1.7	33.2	4.138	91.4	70-130	37.7	8.89	30	
Surr: 2-Fluorobiphenyl	2.247	0.10	*3.317*	0	*67.7*	*60-135*	2.679	*17.5*	*30*	

The following samples were analyzed in this batch: 1301083-01B

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

Client: LT Environmental, Inc.
Work Order: 1301083
Project: 7N

QC BATCH REPORT

Batch ID: **R140876** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS-130107-R140876** Units: **mg/Kg** Analysis Date: **1/7/2013 06:10 PM**
Client ID: Run ID: **FID-9_130107A** SeqNo: **3076249** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	0.1112	0.0050	*0.1*	0	*111*	*70-130*	0			

LCS Sample ID: **GLCSS-130107-R140876** Units: **mg/Kg** Analysis Date: **1/7/2013 05:51 PM**
Client ID: Run ID: **FID-9_130107A** SeqNo: **3076248** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.05	0.050	1	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	0.1178	0.0050	*0.1*	0	*118*	*70-130*	0			

MS Sample ID: **1212959-01ZMS** Units: **mg/Kg** Analysis Date: **1/7/2013 07:07 PM**
Client ID: Run ID: **FID-9_130107A** SeqNo: **3076251** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.019	0.050	1	0	102	70-130	0			
Surr: 4-Bromofluorobenzene	0.111	0.0050	*0.1*	0	*111*	*70-130*	0			

MSD Sample ID: **1212959-01ZMSD** Units: **mg/Kg** Analysis Date: **1/7/2013 07:26 PM**
Client ID: Run ID: **FID-9_130107A** SeqNo: **3076252** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.061	0.050	1	0	106	70-130	1.019	3.98	30	
Surr: 4-Bromofluorobenzene	0.1113	0.0050	*0.1*	0	*111*	*70-130*	0.111	*0.31*	*30*	

The following samples were analyzed in this batch: 1301083-01A

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

Client: LT Environmental, Inc.
Work Order: 1301083
Project: 7N

QC BATCH REPORT

Batch ID: **67019** Instrument ID **ICPMS05** Method: **La29B-6020**

MBLK Sample ID: **BLK-010913-SAR-67019** Units: **mg/L** Analysis Date: **1/9/2013 06:27 PM**
Client ID: Run ID: **ICPMS05_130109A** SeqNo: **3078872** Prep Date: **1/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	0.50								
Magnesium	U	0.50								
Sodium	U	0.50								

LCS Sample ID: **LCS-010913-SAR-67019** Units: **mg/L** Analysis Date: **1/9/2013 06:29 PM**
Client ID: Run ID: **ICPMS05_130109A** SeqNo: **3078873** Prep Date: **1/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	10.48	0.50	10	0	105	80-120	0			
Magnesium	10.32	0.50	10	0	103	80-120	0			
Sodium	10	0.50	10	0	100	80-120	0			

DUP Sample ID: **1301083-01CDUP** Units: **mg/L** Analysis Date: **1/9/2013 06:34 PM**
Client ID: **C01** Run ID: **ICPMS05_130109A** SeqNo: **3078875** Prep Date: **1/8/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	153.9	5.0	0	0	0		154.1	0.0835	30	
Magnesium	118.8	5.0	0	0	0		117.8	0.835	30	
Sodium	986.1	5.0	0	0	0		1002	1.62	30	

The following samples were analyzed in this batch: 1301083-01C

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

Client: LT Environmental, Inc.
Work Order: 1301083
Project: 7N

QC BATCH REPORT

Batch ID: **67019A** Instrument ID **MISC-Metals** Method: **La29B SAR**

DUP Sample ID: **1301083-01CDUP** Units: **meq/meq** Analysis Date: **1/10/2013**
Client ID: **C01** Run ID: **MISC-METALS_130110** SeqNo: **3079389** Prep Date: **1/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	14.51	0.010	0	0	0		0			

The following samples were analyzed in this batch: 1301083-01C

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

Client: LT Environmental, Inc.
Work Order: 1301083
Project: 7N

QC BATCH REPORT

Batch ID: **R140821** Instrument ID **WetChem** Method: **SW9045B** **(Dissolve)**

LCS Sample ID: **WLCSS1-130105-R140821** Units: **pH Units** Analysis Date: **1/5/2013 11:00 AM**
Client ID: Run ID: **WETCHEM_130105C** SeqNo: **3075173** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.05	0.10	6	0	101	90-110	0			

DUP Sample ID: **1301117-02ADUP** Units: **pH Units** Analysis Date: **1/5/2013 11:00 AM**
Client ID: Run ID: **WETCHEM_130105C** SeqNo: **3075185** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	2.2	0.10	0	0	0	0-0	2.18	0.913	20	

The following samples were analyzed in this batch: 1301083-01C

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

Client: LT Environmental, Inc.
Work Order: 1301083
Project: 7N

QC BATCH REPORT

Batch ID: **R140874** Instrument ID **Balance1** Method: **LaDNR-29B SP (Dissolve)**

DUP Sample ID: **1301083-01CDUP** Units: **% Saturation as D** Analysis Date: **1/7/2013 12:50 PM**

Client ID: **C01** Run ID: **BALANCE1_130107B** SeqNo: **3076209** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.748	0.10	0	0	0		0.742	0.805	30	

The following samples were analyzed in this batch: 1301083-01C

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

Client: LT Environmental, Inc.
Work Order: 1301083
Project: 7N

QC BATCH REPORT

Batch ID: **R140909** Instrument ID **Balance1** Method: **LaDNR-29B EC (Dissolve)**

MBLK Sample ID: **WBLKW1-010813-R140909** Units: **mmhos/cm @25°** Analysis Date: **1/8/2013 03:00 PM**
Client ID: Run ID: **BALANCE1_130108D** SeqNo: **3076830** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	U	0.010								
Electrical Conductivity, 1:1 aqueous	U	0.010								
Saturation % as decimal	U	0								

LCS Sample ID: **WLCSW1-010813-R140909** Units: **mmhos/cm @25°** Analysis Date: **1/8/2013 03:00 PM**
Client ID: Run ID: **BALANCE1_130108D** SeqNo: **3076831** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	1.48	0.010	1.412	0	105	90-110	0			
Electrical Conductivity, 1:1 aqueous	1.48	0.010	1.412	0	105	90-110	0			

DUP Sample ID: **1301083-01CDUP** Units: **mmhos/cm @25°** Analysis Date: **1/8/2013 03:00 PM**
Client ID: **C01** Run ID: **BALANCE1_130108D** SeqNo: **3076833** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	8.355	0.010	0	0	0		8.388	0.394	20	
Electrical Conductivity, 1:1 aqueous	6.25	0.010	0	0	0		6.22	0.481	20	
Saturation % as decimal	0.748	0	0	0	0		0.742	0.805		

The following samples were analyzed in this batch: 1301083-01C

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

Client: LT Environmental, Inc.
Project: 7N
WorkOrder: **1301083**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
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

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
% Saturation as Decimal	
meq/meq	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
mmhos/cm @25°C	
pH Units	

ALS Environmental

Sample Receipt Checklist

Client Name: **LT E - RIFLE, CO** Date/Time Received: **03-Jan-13 09:35**

Work Order: **1301083** Received by: **PMG**

Checklist completed by Lahnnie B. Allen (eSignature) 03-Jan-13 (Date) Reviewed by: Patricia L. Lynch (eSignature) 11-Jan-13 (Date)

Matrices: soil/water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.6 C/uc	005	
Cooler(s)/Kit(s):	Medium Blue		
Date/Time sample(s) sent to storage:	1/3/12 17:10		
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: Contingency for BTEX if TPH > 500 mg/kg ; SAR if EC > 4 mmhos/cm

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

Chain of Custody Form

ALS Environmental

Page 1 of 1

COC ID: 38456

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511

1301083

LT E - RIFLE, CO: LT Environmental, Inc.

Project: 7N

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	7N	A	TPH GRO/DRO (see note in middle of coc
Work Order		Project Number	00831200	B	EC (see note in middle of coc)
Company Name	LT Environmental	Bill To Company	ALS	C	pH
Send Report To	Jacob Janicek	Invoice Attn.	Bruce Schlatter	D	
Address	820 Megan Ave, Unit B	Address	10450 Stancliff Rd Suite 120	E	
				F	
City/State/Zip	Rifle co 81650	City/State/Zip	Houston TX 77099	G	
Phone	970-285-9985	Phone	281-761-1258	H	
Fax		Fax		I	
e-Mail Address	jjanicek@ltenv.com	e-Mail Address	bruce.schlatter@alsglobal.com		

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	COI	12-31-12	0845	Soil	—	4	X	X	X								
2																	
3																	
4																	
5	- if TPH > 500 mg/kg, please analyze for BTEX																
6	- if EC > 4 mmhos/cm, please analyze for SAR																
7																	
8	- Please send a copy of Report to Asher Weinberg																
9	and Rob Fishburn.																
10																	

Sampler(s): Please Print & Sign: Jacob Janicek

Shipment Method: Lab Hub

Required Turnaround Time: ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date: RUSH

Relinquished by:	Date:	Time:	Received by:
Jacob Janicek	12-31-12	1130	
Relinquished by:	Date: 1/2/13	Time:	Received by (Laboratory): 1-02-13
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory): 1.3.12. 0935

Notes: This is a re-sample that ALS is paying for, per Bruce Schlatter

Cooler Temp: 1.9

QC Package: (Check Box Below)

- ☐ Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- ☐ Other: _____

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

From: (970) 424-4749
Colby Koerner
Lab Hub, LLC
562 huntington point lane

Clifton, CO 81520

Origin ID: GJTA

FedEx Express

J12201209200325

Ship Date: 02JAN13
ActWgt: 30.0 LB
CAD: 103923490/INET3300

Dims: 19 X 14 X 11 IN

Delivery Address Bar Code

Ref # 1001-010213-2
Invoice #
PO #
Dept #

SHIP TO: (281) 530-5656

BILL RECIPIENT

Sample Receiving
ALS Environmental - Texas
10450 STANCLIFF RD
STE 210
HOUSTON, TX 77099

THU - 03 JAN A1
STANDARD OVERNIGHT

TRK# 0201 7944 2866 2939

77099
TX-US
IAH

XH SGRA

515G1/DD8A/AA44

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

Warning: Use only the printed original label for shipping. Using a phot is label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your F ount number.
Use of this system constitutes your agreement to the service conditic current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $ package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guid our right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attor s, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $ the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is 00, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed n strict time limits, see current FedEx Service Guide.

Lab Hub LLC.
Date: 1-02
Time:

Custody seal
1-3 13.13
1430

14-May-2013

Rob Fishburn
LT Environmental, Inc.
820 Megan Avenue, Unit B
Rifle, Colorado 81650

Tel: (970) 285-9985
Fax:

Re: 7N 008312060

Work Order: **1305155**
Revision: **1**

Dear Rob,

ALS Environmental received 1 sample on 02-May-2013 09:20 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 13.

Regards,

Electronically approved by: Luke F. Hernandez

Bernadette A. Fini
Project Manager

Certificate No: T104704231-12-10

ALS Environmental

Date: 14-May-13

Client: LT Environmental, Inc.
Project: 7N 008312060
Work Order: **1305155**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1305155-01	CO1	Soil		4/30/2013 13:25	5/2/2013 09:20	☐

Revision: 1

Client: LT Environmental, Inc.
Project: 7N 008312060
Work Order: 1305155

Case Narrative

Per client email received on May 14, 2013 sample ID was changed to CO1.

ALS Environmental

Date: *14-May-13*

Client: LT Environmental, Inc.
Project: 7N 008312060 **Work Order:** 1305155
Sample ID: CO1 **Lab ID:** 1305155-01
Collection Date: 4/30/2013 01:25 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LA29B SODIUM ADSORPTION RATIO			**LA29B SAR**		Prep Date: **5/8/2013**	Analyst: **JCJ**
Sodium Adsorption Ratio	**2.10**		**0.0100**	**meq/meq**	1	5/9/2013
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR			**LA29B-6020**		Prep Date: **5/8/2013**	Analyst: **ALR**
Calcium	**10.0**		**0.499**	**mg/L**	1	5/9/2013 04:25 PM
Magnesium	**7.55**		**0.499**	**mg/L**	1	5/9/2013 04:25 PM
Sodium	**36.1**		**0.499**	**mg/L**	1	5/9/2013 04:25 PM
LA29B ELECTRICAL CONDUCTIVITY			**LADNR-29B EC**			Analyst: **VAN**
Electrical Conductivity @ saturation	**3.67**		**0.0100**	**mmhos/cm @25°C**	1	5/8/2013 05:00 PM
Electrical Conductivity, 1:1 aqueous	**2.44**		**0.0100**	**mmhos/cm @25°C**	1	5/8/2013 05:00 PM
Saturation % as decimal	**0.664**			**mmhos/cm @25°C**	1	5/8/2013 05:00 PM
LA29B SATURATION POINT (AS FRACTION)			**LADNR-29B SP**			Analyst: **KAH**
Saturation Point	**0.664**		**0.100**	**SP as fraction**	1	5/7/2013 10:50 AM
MOISTURE			**SW3550**			Analyst: **KAH**
Percent Moisture	**17.1**		**0.0100**	**wt%**	1	5/7/2013 03:30 PM

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

Revision: 1

AR Page 1 of 1

Batch ID: **69750** Instrument ID **ICP7500** Method: **La29B-6020**

MBLK Sample ID: **BLK-SAR-050913-69750** Units: **mg/L** Analysis Date: **5/9/2013 03:55 PM**

Client ID: Run ID: **ICP7500_130509A** SeqNo: **3210048** Prep Date: **5/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	ND	0.50								
Magnesium	ND	0.50								
Sodium	ND	0.50								

LCS Sample ID: **LCS-SAR-050913-69750** Units: **mg/L** Analysis Date: **5/9/2013 04:00 PM**

Client ID: Run ID: **ICP7500_130509A** SeqNo: **3210049** Prep Date: **5/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	9.686	0.50	10	0	96.9	80-120	0			
Magnesium	9.957	0.50	10	0	99.6	80-120	0			
Sodium	10.14	0.50	10	0	101	80-120	0			

DUP Sample ID: **1305157-04ADUP** Units: **mg/L** Analysis Date: **5/9/2013 04:33 PM**

Client ID: Run ID: **ICPMS04_130509A** SeqNo: **3210061** Prep Date: **5/8/2013** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	590.8	5.0	0	0	0		591.6	0.145	30	
Magnesium	94.43	5.0	0	0	0		93.72	0.755	30	
Sodium	1115	5.0	0	0	0		1100	1.35	30	

The following samples were analyzed in this batch: 1305155-01A

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

Revision: 1

Client: LT Environmental, Inc.
Work Order: 1305155
Project: 7N 008312060

QC BATCH REPORT

Batch ID: **69750A** Instrument ID **MISC-Metals** Method: **La29B SAR**

DUP Sample ID: **1305157-04ADUP** Units: **meq/meq** Analysis Date: **5/9/2013**
Client ID: Run ID: **MISC-METALS_130509** SeqNo: **3210075** Prep Date: **5/8/2013** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	11.2	0.010	0	0	0		11.1	0.897	30	

The following samples were analyzed in this batch: 1305155-01A

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

Revision: 1

Client: LT Environmental, Inc.
Work Order: 1305155
Project: 7N 008312060

QC BATCH REPORT

Batch ID: **R147036** Instrument ID **Balance1** Method: **SW3550** **(Dissolve)**

DUP Sample ID: **1305157-04ADUP** Units: **wt%** Analysis Date: **5/7/2013 03:30 PM**

Client ID: Run ID: **BALANCE1_130507C** SeqNo: **3208468** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	15.72	0.010	0	0	0	0-0	15.8	0.456	20	

The following samples were analyzed in this batch: 1305155-01A

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

Revision: 1

Client: LT Environmental, Inc.
Work Order: 1305155
Project: 7N 008312060

QC BATCH REPORT

Batch ID: **R147060** Instrument ID **Balance1** Method: **LaDNR-29B SP (Dissolve)**

DUP Sample ID: **1305151-02ADUP** Units: **SP as fraction** Analysis Date: **5/7/2013 10:50 AM**
Client ID: Run ID: **BALANCE1_130507D** SeqNo: **3208822** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.31	0.10	0	0	0		0.315	1.6	30	

DUP Sample ID: **1305157-04ADUP** Units: **SP as fraction** Analysis Date: **5/7/2013 10:50 AM**
Client ID: Run ID: **BALANCE1_130507D** SeqNo: **3208823** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.47	0.10	0	0	0		0.48	2.11	30	

The following samples were analyzed in this batch: 1305155-01A

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

Revision: 1

Client: LT Environmental, Inc.
Work Order: 1305155
Project: 7N 008312060

QC BATCH REPORT

Batch ID: **R147061** Instrument ID **Balance1** Method: **LaDNR-29B EC (Dissolve)**

MBLK Sample ID: **WBLKW1-050813-R147061** Units: **mmhos/cm @25°** Analysis Date: **5/8/2013 05:00 PM**
Client ID: Run ID: **BALANCE1_130508B** SeqNo: **3208840** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity, 1:1 aqueous	ND	0.010								

LCS Sample ID: **WLCSW1-050813-R147061** Units: **mmhos/cm @25°** Analysis Date: **5/8/2013 05:00 PM**
Client ID: Run ID: **BALANCE1_130508B** SeqNo: **3208841** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity, 1:1 aqueous	1.4	0.010	1.412	0	99.2	90-110	0			

DUP Sample ID: **1305151-02ADUP** Units: **mmhos/cm @25°** Analysis Date: **5/8/2013 05:00 PM**
Client ID: Run ID: **BALANCE1_130508B** SeqNo: **3208859** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	2.623	0.010	0	0	0		2.571	2	20	
Electrical Conductivity, 1:1 aqueous	0.812	0.010	0	0	0		0.809	0.37	20	
Saturation % as decimal	0.31	0	0	0	0		0.315	1.6		

DUP Sample ID: **1305157-04ADUP** Units: **mmhos/cm @25°** Analysis Date: **5/8/2013 05:00 PM**
Client ID: Run ID: **BALANCE1_130508B** SeqNo: **3208860** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ saturation	14.67	0.010	0	0	0		14.2	3.26	20	
Electrical Conductivity, 1:1 aqueous	6.89	0.010	0	0	0		6.82	1.02	20	
Saturation % as decimal	0.47	0	0	0	0		0.48	2.11		

The following samples were analyzed in this batch: 1305155-01A

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

Revision: 1

Client: LT Environmental, Inc.
Project: 7N 008312060
WorkOrder: **1305155**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
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

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
meq/meq	
mg/L	Milligrams per Liter
mmhos/cm @25°C	
SP as fraction	
wt%	

ALS Environmental

Sample Receipt Checklist

Client Name: **LT E - RIFLE, CO** Date/Time Received: **02-May-13 09:20**

Work Order: **1305155** Received by: **RDH**

Checklist completed by Rachel D. Naran (eSignature) 03-May-13 (Date) Reviewed by: John M. Cady (eSignature) 03-May-13 (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 ☐	
Temperature(s)/Thermometer(s):	3.4C/3.4C/U	IR1	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/2/13 08:26		
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:

Revision: 1

SRC Page 1 of 1

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 40832

☐ Cincin... +1 51...
☐ Everet... +1 42...
☐ Fort C... +1 97...

1305155

LT E - RIFLE, CO: LT Environmental, Inc.

Project: 7N 008312060

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	7N	A	SAR, EC
Work Order		Project Number	008312060	B	
Company Name	LT Environmental	Bill To Company	Noble Energy	C	
Send Report To	Rob Fishburn & Jake Janicek	Invoice Attn.	Ken Domas	D	
Address	820 Megan Ave Unit B	Address	1625 Broadway Suite 2200	E / F	
City/State/Zip	Rifle CO 81650	City/State/Zip	Denver CO 80202	G	
Phone	970-285-9985	Phone	720-587-2150	H	
Fax		Fax		I	
e-Mail Address	rfishburn@ltenv.com; jjanicek@ltenv.com	e-Mail Address	kdomas@nobleenergyinc.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CS-01	4/30/13	1325	Soil	NA	1	X										
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Dustin Hero / [signature]

Shipment Method:

Required Turnaround Time: ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other ____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	4/30/13	1420	[signature]
[signature]	4-30	1500	Received by (Laboratory): [signature] 5/2/13 0920

Logged by (Laboratory): Date: Time: Checked by (Laboratory):

Notes:

Cooler Temp.

QC Package: (Check Box Below)
- ☐ Level II: Standard QC
- ☐ Level III: Std QC + Raw Data
- ☐ Level IV: SW846 CLP-Like
- Other: ____

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

1305155

From: (970) 424-4749
Colby Koerner
Lab Hub, LLC
562 huntington point lane

Clifton, CO 81520

Origin ID: GJTA

FedEx. Express

E

J131113021200326

SHIP TO: (281) 530-5656 BILL RECIPIENT
Sample Receiving
ALS Environmental - Texas
10450 STANCLIFF RD
STE 210
HOUSTON, TX 77099

Ship Date: 30APR13
ActWgt: 55.0 LB
CAD: 103923490/INET3370
Dims: 25 X 14 X 15 IN

Delivery Address Bar Code

Ref # 1001-043013-6
Invoice #
PO #
Dept #

WED - 01 MAY 3:00P
STANDARD OVERNIGHT

TRK# 7996 5181 4592
0201

XH SGRA

77099
TX-US
IAH

518G1/6683/03AB

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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