

804 Grand Ave.
Platteville, CO 80651

Tel: 970.785.5000
After Hours: 303.939.8585
Fax: 970.785.5099
www.nobleenergyinc.com



North America Division

January 8, 2013

Mr. John Axelson
Department Of Natural Resources
Oil & Gas Conservation Commission
1120 Lincoln St., Suite 801
Denver CO 80203-2136

RE: Form 27 and closure request letter
Malo 8, 9-20
API 05-123-19715
NE/SE Sec. 20, T8N R59W
Weld County, Colorado

Dear Mr. Axelson:

Please find attached a completed Form 27, laboratory analytical results from confirmation soil composite samples taken from the bottom of the pit and a site diagram showing sample locations for the Malo 8, 9-20. Based on the site remedial activities and the attached laboratory analytical results, Noble Energy Inc. is requesting that the COGCC consider this location closed, requiring no further action.

Noble Energy Inc. would like to claim business confidentiality protection for the information submitted in this letter, the supporting materials attached and all previous and subsequent correspondence related to this matter. Please contact the Noble Energy Environmental Department at (720) 587-2026 if you have any questions or require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jacob Evans', with a long horizontal flourish extending to the right.

Jacob Evans
Senior Environmental Specialist

Attachments



01761378

#7513

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

RECEIVED
FOR OGCC USE ONLY

JAN 08 2013

COGCC

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

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 ☒ Site/Facility Closure ☐ Other (describe): _____

OGCC Operator Number: 100322		Contact Name and Telephone:	
Name of Operator: Noble Energy, Inc.		Todd Cullum	
Address: 804 Grand Avenue		No: 970-785-5000	
City: Platteville State: CO Zip: 80651		Fax: 970-785-5099	
API Number: 05-123-19715		County: Weld	
Facility Name: Malo 8, 9-20 Pits		Facility Number: 119048	
Well Name: Malo		Well Number: 8, 9-20	
Location: (QtrQtr, Sec, Twp, Rng, Meridian): NESE 20 BN 59W		Latitude: 40.64312 Longitude: -103.9935	

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 ☐ N If yes, attach evaluation.

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Olney fine sandy loam, 0% to 6%

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Wild Horse Creek approximately 1,900 feet north, unnamed lake 3,890 feet northeast, two water wells 2,425 feet and 2,955 feet south.

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	See Attached	
<input type="checkbox"/> Vegetation		
<input type="checkbox"/> Groundwater		
<input type="checkbox"/> Surface Water		

REMEDIALTION WORKPLAN

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

A site assessment to evaluate potential soil impact was conducted from the historic production pits. A hand auger was advanced to 5 feet below ground surface at two pit locations. One composite soil sample was collected from borings in each pit. The soil samples were submitted for laboratory analysis of BTEX, TPH, EC, SAR, and pH. A site map and analytical table are attached.

Describe how source is to be removed:

Analytical results indicate there are elevated EC, pH, and SAR concentrations in Pit #2 and elevated pH concentrations are in Pit #1. The pits are each graded to an elevation of greater than 3 feet below ground surface grade per frequently asked question # 31 from the COGCC website, inorganic impact greater than 3 feet below surface grade is allowed because it will not affect the vegetative root zone.

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.:

There is no organic impact.



REMEDIATION WORKPLAN (Cont.)

Tracking Number: 1761378
Name of Operator: Noble Energy
OGCC Operator No: 100322
Received Date: 1/8/13
Well Name & No: Malo 8, 9-20
Facility Name & No: Malo 8, 9-20 Pits 119048

Page 2

John Axelsson

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

Groundwater was not encountered during sampling 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 pits will be filled and graded to match adjacent topography and the sites will be reseeded with native grasses.

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:

No further investigation is required at these sites. Groundwater was not encountered, and the pits will be backfilled to comply with the COGCC standards. A figure and table are included detailing sampling locations and results.

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

There will be no waste.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 6/7/2011 Date Site Investigation Completed: 6/14/2011 Date Remediation Plan Submitted: 7/22/2011
Remediation Start Date: 6/14/2011 Anticipated Completion Date: --- Actual Completion Date: TBD

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

Print Name: Todd Cullum

Signed: Todd Cullum

Title: Environmental Specialist

Date: 7/22/2011

OGCC Approved: John Axelsson

Title: EPS

Date: 1/17/13

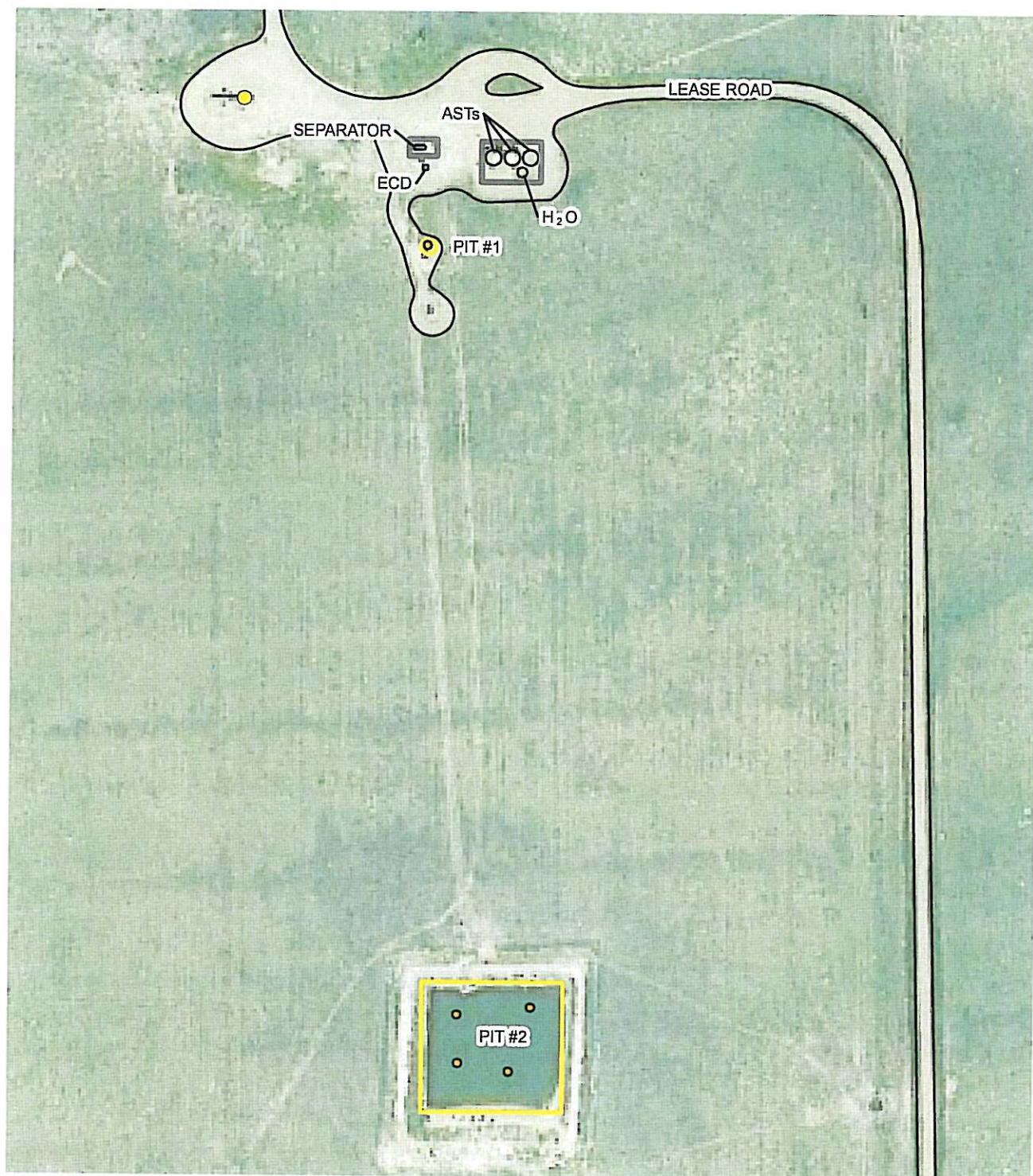


IMAGE COURTESY OF USDA/NRCS, 2009

LEGEND

- COMPOSITE SOIL SAMPLE
- PRODUCTION WELL
- ✕✕ FENCE
- CURRENT INFRASTRUCTURE
- BERM
- PIT BOUNDARY
- AST: ABOVEGROUND STORAGE TANK
- ECD: EMISSIONS CONTROL DEVICE
- H₂O: WATER TANK

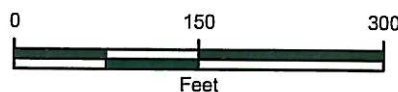


FIGURE 1
SITE MAP
MALO 8, 9-20
NESE & SESE SEC 20 T8N R59W
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.



TABLE 1
SOIL ANALYTICAL DATA
LILLI EVAPORATION PITS
WELD COUNTY, COLORADO
NOBLE ENERGY, INC.

Sample Location	Date Sampled	Pit Number	Sample Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	TPH (mg/kg)	EC (mmhos/cm)	SAR	pH
Mato 8, 9-20	6/7/2011	2	4	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	<100.5	4.74	68.3	10
Mato 8, 9-20	6/7/2011	1	4	<0.0050	<0.0050	<0.0050	<0.0050	<0.50	<50	<50	<100.5	0.65	8	9.5
COGCC Table 910-1				0.17	85	100	175	Combined 500			500	>4	>12	6 to 9

NOTES:

- SAR - sodium adsorption ratio
- EC - electrical conductivity
- mg/kg - milligrams per kilogram
- mmhos/cm - millimhos per centimeter
- GRO - gasoline range organics analyzed by EPA Method 8260B
- DRO - diesel range organics analyzed by EPA Modified Method 8015
- ORO - oil range organics analyzed by EPA Modified Method 8015
- <- indicates result is less than the stated laboratory reporting limit
- BOLD** - indicates result exceeds the applicable standard
- COGCC - Colorado Oil and Gas Conservation Commission
- Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

June 14, 2011

Rob Rebel

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: NEP - Malo 8,9-20

Enclosed are the results of analyses for samples received by Summit Scientific on 06/08/11 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director

S₂

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

Project: NEP - Malo 8,9-20

Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pit #1	R106083-01	Soil	06/07/11 13:20	06/08/11 16:55
Pit #2	R106083-02	Soil	06/07/11 14:30	06/08/11 16:55

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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

Project: NEP - Malo 8,9-20

Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

R106083

Summit Scientific

741 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page 1 of 1

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788

Sampler Name: Danny Rums (303.9622)

206-5025

Project Manager- Rob Rebel

E-Mail: rebel@lthrv.com dbr

Project Name: M-16 9 0 20

Project Name: MALO 8, 9-20

Project Number: 008311037

[illegible]

www.s2scientific.com

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

Project: NEP - Malo 8,9-20
Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

Pit #1
R106083-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1060902	06/09/11	06/10/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		99.9 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1060901	06/09/11	06/10/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Malo 8,9-20
Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

Pit #1
R106083-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	0.650	0.00100 mmhos/cm	1	1061003	06/10/11	06/10/11	SM 2510B
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Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.5		pH Units	"	1061004	06/10/11	06/10/11	EPA 9045B	

Colorado Analytical Laboratories

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1.8	0.1	meq/L	1	1061407	06/13/11	06/14/11	USDA60 6 (20b)	

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	2	0.1	"	"	"	"	"	"	

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	11	0.1	"	"	"	"	"	"	

Colorado Analytical Laboratories - Calculated Analytes

Date Sampled: 06/07/11 13:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8	0.1	units	1	1061407	"	06/14/11	Calculation	

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

Project: NEP - Malo 8,9-20
Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

Pit #2
R106083-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1060902	06/09/11	06/10/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1060901	06/09/11	06/10/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		99.4 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: NEP - Malo 8,9-20
Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

Pit #2
R106083-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Specific Conductance (EC)	4.74	0.00100 mmhos/cm	1	1061003	06/10/11	06/10/11	SM 2510B
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Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	10		pH Units	"	1061004	06/10/11	06/10/11	EPA 9045B	

Colorado Analytical Laboratories

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	0.9	0.1	meq/L	1	1061407	06/13/11	06/14/11	USDA60 6 (20b)	

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Magnesium	1.4	0.1	"	"	"	"	"	"	

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium	73.3	0.1	"	"	"	"	"	"	

Colorado Analytical Laboratories - Calculated Analytes

Date Sampled: 06/07/11 14:30

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	68.3	0.1	units	1	1061407	"	06/14/11	Calculation	

Summit Scientific

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

Project: NEP - Malo 8,9-20
Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

Batch 1060902 - EPA 3550A

Blank (1060902-BLK1)

Prepared & Analyzed: 06/09/11

C10-C28 (TEPH-DRO) ND 50 mg/kg
C28-C36 (TEPH-ORO) ND 50 "

Surrogate: o-Terphenyl 12.9 " 12.5 104 88.8-124

LCS (1060902-BS1)

Prepared & Analyzed: 06/09/11

C10-C28 (TEPH-DRO) 540 50 mg/kg 501 108 85-129 11.8

LCS Dup (1060902-BSD1)

Prepared & Analyzed: 06/09/11

C10-C28 (TEPH-DRO) 539 50 mg/kg 501 108 85-129 0.300 11.8

Matrix Spike (1060902-MS1)

Source: R106079-01

Prepared & Analyzed: 06/09/11

C10-C28 (TEPH-DRO) 562 50 mg/kg 501 38.2 105 77.3-134 8.39

Matrix Spike Dup (1060902-MSD1)

Source: R106079-01

Prepared & Analyzed: 06/09/11

C10-C28 (TEPH-DRO) 536 50 mg/kg 501 38.2 99.3 77.3-134 4.82 8.39

Summit Scientific

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

Project: NEP - Malo 8,9-20
Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit	Units			%REC	Limits	RPD	Limit	

Batch 1060901 - EPA 5030 Soil MS

Blank (1060901-BLK1)

Prepared & Analyzed: 06/09/11

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400	102	67.4-143				
Surrogate: Toluene-d8	0.0393		"	0.0400	98.3	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400	93.1	78.4-125				

LCS (1060901-BS1)

Prepared & Analyzed: 06/09/11

Benzene	0.0949	0.0050	mg/kg	0.100	94.9	61-139			11.1	
Toluene	0.0924	0.0050	"	0.100	92.4	64-132			10.9	
Ethylbenzene	0.104	0.0050	"	0.100	104	68.7-135			20	
m,p-Xylene	0.200	0.010	"	0.200	100	70.4-129			20	
o-Xylene	0.0977	0.0050	"	0.100	97.7	66.9-126			20	
Surrogate: 1,2-Dichloroethane-d4	0.0420		"	0.0400	105	67.4-143				
Surrogate: Toluene-d8	0.0396		"	0.0400	98.9	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400	93.8	78.4-125				

LCS Dup (1060901-BSD1)

Prepared & Analyzed: 06/09/11

Benzene	0.0939	0.0050	mg/kg	0.100	93.9	61-139	1.08		11.1	
Toluene	0.0922	0.0050	"	0.100	92.2	64-132	0.293		10.9	
Ethylbenzene	0.105	0.0050	"	0.100	105	68.7-135	1.26		20	
m,p-Xylene	0.203	0.010	"	0.200	101	70.4-129	1.33		20	
o-Xylene	0.0991	0.0050	"	0.100	99.1	66.9-126	1.43		20	
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400	102	67.4-143				
Surrogate: Toluene-d8	0.0393		"	0.0400	98.2	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400	95.0	78.4-125				

Summit Scientific

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

Project: NEP - Malo 8,9-20
Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1060901 - EPA 5030 Soil MS

Matrix Spike (1060901-MS1)		Source: R106079-01			Prepared & Analyzed: 06/09/11					
Benzene	0.0949	0.0050	mg/kg	0.100	ND	94.9	42.9-137		17.9	
Toluene	0.0922	0.0050	"	0.100	ND	92.2	42.6-130		11.9	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	39-133		20	
m,p-Xylene	0.198	0.010	"	0.200	ND	99.2	34.7-134		20	
o-Xylene	0.0968	0.0050	"	0.100	ND	96.8	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0453		"	0.0400		113	67.4-143			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.7	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	78.4-125			
Matrix Spike Dup (1060901-MSD1)		Source: R106079-01			Prepared & Analyzed: 06/09/11					
Benzene	0.0933	0.0050	mg/kg	0.100	ND	93.3	42.9-137	1.72	17.9	
Toluene	0.0904	0.0050	"	0.100	ND	90.4	42.6-130	1.97	11.9	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	39-133	0.801	20	
m,p-Xylene	0.196	0.010	"	0.200	ND	97.8	34.7-134	1.40	20	
o-Xylene	0.0956	0.0050	"	0.100	ND	95.6	41.3-126	1.25	20	
Surrogate: 1,2-Dichloroethane-d4	0.0438		"	0.0400		109	67.4-143			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400		95.2	78.4-125			

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



S₂

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

Project: NEP - Malo 8,9-20
Project Number: 0083-11037
Project Manager: Rob Rebel

Reported:
06/14/11 18:32

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1061003 - General Preparation

Duplicate (1061003-DUP1) **Source: R106079-01** **Prepared & Analyzed: 06/10/11**

Specific Conductance (EC)	0.560	0.00100	mmhos/cm	0.566	0.977	20
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Batch 1061004 - General Preparation

Duplicate (1061004-DUP1) **Source: R106079-01** **Prepared & Analyzed: 06/10/11**

pH	9.2		pH Units	9.1	0.438	20
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Reported:
06/14/11 18:32

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

