



01761264

FORM
27
Rev 6/99State 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

RECEIVED

JUN 23 2011

COGCC

OGCC Employee:

 Spill Complaint
 Inspection NOAV

Tracking No: 2213370

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): NFA

GENERAL INFORMATION

OGCC Operator Number: 8960		Contact Name and Telephone	
Name of Operator: Bonanza Creek Energy, Inc.		Name: Tom Peterson	
Address: 410 17th Street, Suite 1500		No: 720-440-6113	
City: Denver State: CO Zip: 80202		Fax: 720-279-2331	
API/Facility No: 05-123-20378		County: Weld	
Facility Name: Wetco Farms 23-4, Wetco Farms 24-4, Park 34-4		Facility Number:	
Well Name: Wetco Farms 23-4		Well Number:	
Location (QtrQtr, Sec, Twp, Rng, Meridian): NESW 4-T4N-R63W		Latitude: Longitude:	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Oil

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation. Groundwater < 20 ft.

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

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Fine to medium grained sand

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Surface water (canal) located approximately 600' north of the site, water well located approximately 600' west of the site.

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	26' N-S x 65' E-W x 1.5-2.5' bgs	Soil samples for laboratory analysis
<input type="checkbox"/> Vegetation		
<input type="checkbox"/> Groundwater	Not encountered	
<input type="checkbox"/> Surface water		

REMEDIATION WORKPLAN

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

A corrosion hole in the bottom of the oil tank caused approximately 93 bbls of oil to be released within the tank battery containment berm. A vacuum truck was used to recover approximately 71 bbls of oil. The petroleum hydrocarbon impacted soil was excavated.

Describe how source is to be removed:

Soil samples were collected from the excavation for field screening and laboratory analysis. Laboratory results for the confirmation soil samples indicate that TPH and BTEX concentrations are below COGCC allowable levels at the extent of the excavation. Approximately 400 cubic yards of petroleum hydrocarbon impacted soil were removed from the excavation. Groundwater was not encountered in the excavation.

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.:

The impacted soil will be transported to Waste Management's Buffalo Ridge landfill in Keenesburg, Colorado for disposal.



Tracking Number: 2213370 / 01761264
Name of Operator: Bonanza Creek Energy, Inc.
OGCC Operator No: 8960
Received Date: 6/23/11
Well Name & No: Wetco Farms 23-4
Facility Name & No.: Wetco Farms 24-4, Park 34-4

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: Axelson

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
Groundwater was not encountered in the excavation.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.
The site was restored to its pre-release grade. Bonanza Creek Energy's production facility remains at the site.

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:
No further investigation is required at this site. Groundwater was not encountered in the excavation and soil sample laboratory results confirm that TPH and BTEX concentrations are below COGCC allowable levels at the extent of the excavation.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):
The impacted soil will be transported to Waste Management's Buffalo Ridge landfill in Keenesburg, Colorado for disposal.

IMPLEMENTATION SCHEDULE

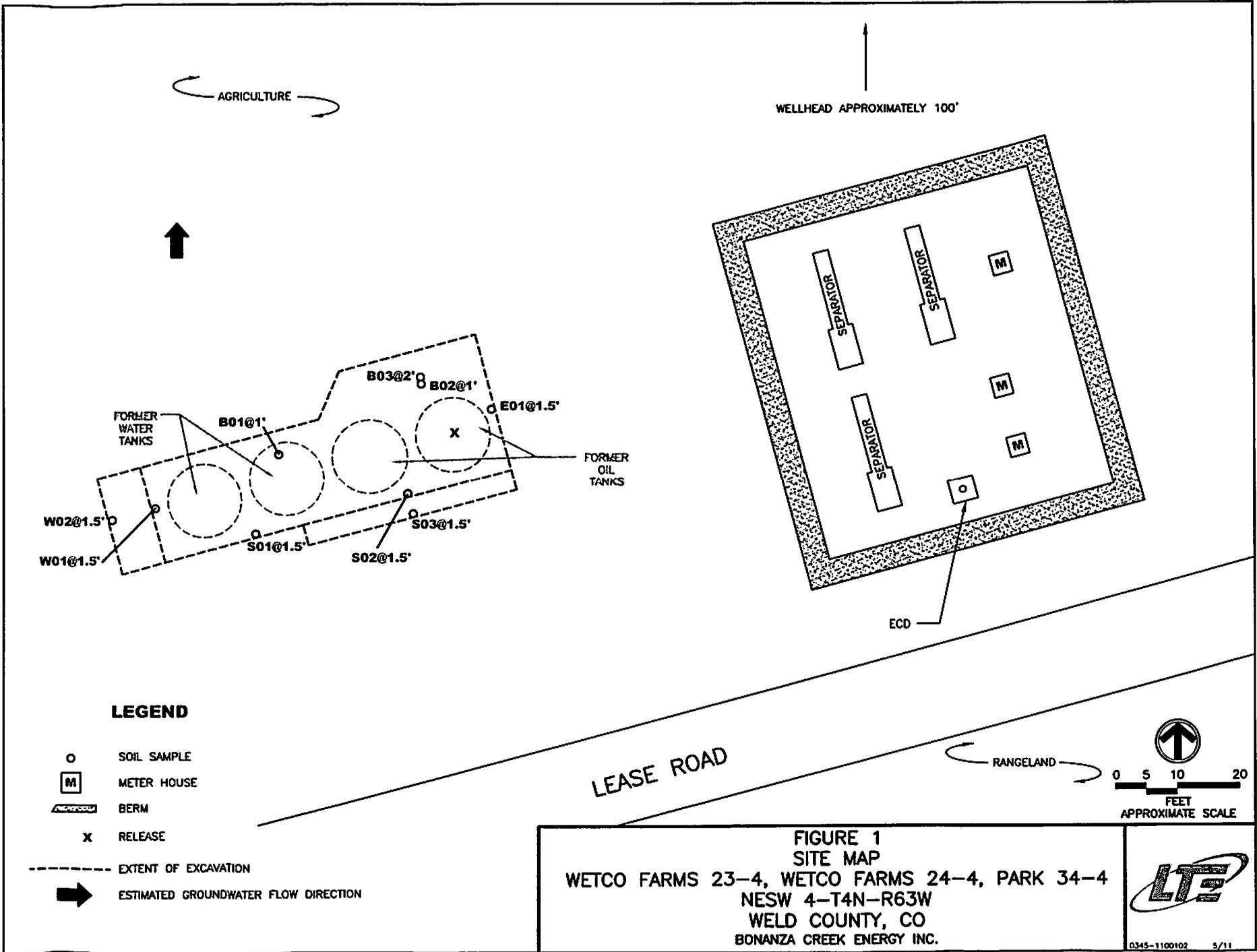
Table with 4 columns: Date Site Investigation Began, Date Site Investigation Completed, Remediation Plan Submitted, Remediation Start Date, Anticipated Completion Date, Actual Completion Date. Values include 4/18/11, 5/24/11, 6/30/11.

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

Print Name: Tom Peterson

Signed: [Signature] Title: Engineering Technician Date: 6/17/11

OGCC Approved: [Signature] Title: EPS Date: 6/23/11



LEGEND

-  SOIL SAMPLE
-  METER HOUSE
-  BERM
-  RELEASE
-  EXTENT OF EXCAVATION
-  ESTIMATED GROUNDWATER FLOW DIRECTION

FIGURE 1
SITE MAP
 WETCO FARMS 23-4, WETCO FARMS 24-4, PARK 34-4
 NESW 4-T4N-R63W
 WELD COUNTY, CO
 BONANZA CREEK ENERGY INC.

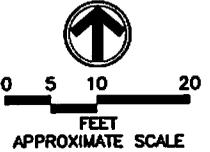


TABLE 1
SOIL SAMPLE ANALYTICAL DATA
WETCO FARMS 23-4, WETCO FARMS 24-4, PARK 34-4
Bonanza Creek Energy, Inc.

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	XYLENES (Total) (mg/kg)	TPH-GRO (mg/kg)	TEPH DRO+ORO (mg/kg)
B01@1'	5/10/2011	1	<0.005	<0.005	<0.005	<0.005	<0.5	<50
B02@1'	5/10/2011	1	0.13	16.0	8.3	100.0	3,100	8,040
S01@1.5'	5/10/2011	1.5	<0.005	<0.005	<0.005	<0.005	<0.5	<50
S02@1.5'	5/10/2011	1.5	<0.005	0.37	0.8	48.0	1,200	1,554
W01@1.5'	5/10/2011	1.5	<0.005	<0.005	<0.005	<0.005	25.0	950
E01@1.5'	5/10/2011	1.5	<0.005	<0.005	<0.005	<0.005	<0.5	<50
B03@2'	5/24/2011	2	<0.005	<0.005	<0.005	<0.005	<0.5	<50
S03@1.5'	5/24/2011	1.5	<0.005	<0.005	<0.005	0.0075	6.8	<50
W02@1.5'	5/24/2011	1.5	<0.005	<0.005	<0.005	<0.005	<0.5	<50
COGCC Allowable Level			0.17	85	100	175	500	

< - less than stated laboratory reporting limit

mg/kg - milligrams per kilogram

bgs - below ground surface

TEPH - Total Extractable Petroleum Hydrocarbons

COGCC - Colorado Oil and Gas Conservation Commission

Results noted in bold exceed COGCC allowable levels

TPH - Total Petroleum Hydrocarbons

GRO - Gasoline Range Organics

DRO - Diesel Range Organics

ORO - Oil Range Organics



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 17, 2011

John Cocroft

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: BC - Wetco Farms 23 & 24-4/Park 24-4

Enclosed are the results of analyses for samples received by Summit Scientific on 05/10/11 16:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'PS', with a long, sweeping horizontal line extending to the right.

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director

S₂

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@1'	R105058-01	Soil	05/10/11 12:16	05/10/11 16:55
B02@1'	R105058-02	Soil	05/10/11 12:18	05/10/11 16:55
S02@1.5'	R105058-03	Soil	05/10/11 12:15	05/10/11 16:55
S01@1.5'	R105058-04	Soil	05/10/11 12:13	05/10/11 16:55
W01@1.5'	R105058-05	Soil	05/10/11 12:20	05/10/11 16:55
E01@1.5'	R105058-06	Soil	05/10/11 12:22	05/10/11 16:55

Summit Scientific



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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

B01@1'
R105058-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		104 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.0 %	78.4-125		"	"	"	"	

Summit Scientific



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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

B02@1'
R105058-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	7300	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	740	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.0 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.13	0.0050	mg/kg	1	1051101	05/11/11	05/12/11	EPA 8260B	
Toluene	16	0.50	"	100	"	"	05/13/11	"	
Ethylbenzene	8.3	0.050	"	10	"	"	05/12/11	"	
Xylenes (total)	100	0.50	"	100	"	"	05/13/11	"	
Gasoline Range Hydrocarbons	3100	50	"	"	"	"	05/12/11	"	

Date Sampled: 05/10/11 12:18

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		96.6 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		109 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		121 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

S02@1.5'
R105058-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	1500	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	54	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		109 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/12/11	EPA 8260B	
Toluene	0.37	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.79	0.0050	"	"	"	"	"	"	
Xylenes (total)	48	0.50	"	100	"	"	05/13/11	"	
Gasoline Range Hydrocarbons	1200	50	"	"	"	"	05/12/11	"	

Date Sampled: 05/10/11 12:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.4 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	78.4-125		"	"	"	"	

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LT Environmental, Inc.
4500 West 60th Avenue
Arvada CO, 80003

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

S01@1.5'
R105058-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:13

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:13

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:13

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:13

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		109 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

W01@1.5'
R105058-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	840	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	110	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		110 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/12/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	25	0.50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		97.7 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		119 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

E01@1.5'
R105058-06 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/10/11 12:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1051102	05/11/11	05/12/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		105 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/10/11 12:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1051101	05/11/11	05/11/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/10/11 12:22

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		107 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	
Batch 1051102 - EPA 3550A										
Blank (1051102-BLK1)					Prepared & Analyzed: 05/11/11					
C10-C28 (TEPH-DRO)	ND	50	mg/kg							
C28-C36 (TEPH-ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.2		"	12.5		106	88.8-124			
LCS (1051102-BS1)					Prepared & Analyzed: 05/11/11					
C10-C28 (TEPH-DRO)	513	50	mg/kg	501		102	85-129		11.8	
LCS Dup (1051102-BSD1)					Prepared & Analyzed: 05/11/11					
C10-C28 (TEPH-DRO)	531	50	mg/kg	501		106	85-129	3.53	11.8	
Matrix Spike (1051102-MS1)					Source: R105052-04 Prepared & Analyzed: 05/11/11					
C10-C28 (TEPH-DRO)	486	50	mg/kg	501	ND	97.0	77.3-134		8.39	
Matrix Spike Dup (1051102-MSD1)					Source: R105052-04 Prepared & Analyzed: 05/11/11					
C10-C28 (TEPH-DRO)	522	50	mg/kg	501	ND	104	77.3-134	7.19	8.39	

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S2

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

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

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

Batch 1051101 - EPA 5030 Soil MS

Blank (1051101-BLK1)				Prepared & Analyzed: 05/11/11					
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	0.0608		"	0.0400	152	67.4-143			
Surrogate: Toluene-d8	0.0411		"	0.0400	103	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0423		"	0.0400	106	78.4-125			

LCS (1051101-BS1)				Prepared & Analyzed: 05/11/11					
Benzene	0.104	0.0050	mg/kg	0.100	104	61-139		11.1	
Toluene	0.103	0.0050	"	0.100	103	64-132		10.9	
Ethylbenzene	0.0955	0.0050	"	0.100	95.5	68.7-135		20	
m,p-Xylene	0.177	0.010	"	0.200	88.3	70.4-129		20	
o-Xylene	0.0885	0.0050	"	0.100	88.5	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0621		"	0.0400	155	67.4-143			
Surrogate: Toluene-d8	0.0423		"	0.0400	106	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0400	108	78.4-125			

LCS Dup (1051101-BSD1)				Prepared & Analyzed: 05/11/11					
Benzene	0.103	0.0050	mg/kg	0.100	103	61-139	0.406	11.1	
Toluene	0.100	0.0050	"	0.100	100	64-132	2.36	10.9	
Ethylbenzene	0.0958	0.0050	"	0.100	95.8	68.7-135	0.376	20	
m,p-Xylene	0.175	0.010	"	0.200	87.7	70.4-129	0.665	20	
o-Xylene	0.0875	0.0050	"	0.100	87.5	66.9-126	1.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.0610		"	0.0400	152	67.4-143			
Surrogate: Toluene-d8	0.0414		"	0.0400	104	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400	101	78.4-125			

Summit Scientific



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S₂

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

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

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

Batch 1051101 - EPA 5030 Soil MS

Matrix Spike (1051101-MSI)	Source: R105052-05			Prepared & Analyzed: 05/11/11					
Benzene	0.104	0.0050	mg/kg	0.100	ND	104	42.9-137		17.9
Toluene	0.102	0.0050	"	0.100	ND	102	42.6-130		11.9
Ethylbenzene	0.109	0.0050	"	0.100	ND	109	39-133		20
m,p-Xylene	0.198	0.010	"	0.200	ND	98.9	34.7-134		20
o-Xylene	0.0950	0.0050	"	0.100	ND	95.0	41.3-126		20
Surrogate: 1,2-Dichloroethane-d4	0.0417		"	0.0400		104	67.4-143		
Surrogate: Toluene-d8	0.0411		"	0.0400		103	77.3-114		
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.4	78.4-125		

Matrix Spike Dup (1051101-MSD1)	Source: R105052-05			Prepared & Analyzed: 05/11/11					
Benzene	0.103	0.0050	mg/kg	0.100	ND	103	42.9-137	0.492	17.9
Toluene	0.102	0.0050	"	0.100	ND	102	42.6-130	0.295	11.9
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	39-133	0.804	20
m,p-Xylene	0.196	0.010	"	0.200	ND	97.8	34.7-134	1.10	20
o-Xylene	0.0935	0.0050	"	0.100	ND	93.5	41.3-126	1.62	20
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0400		108	67.4-143		
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	77.3-114		
Surrogate: 4-Bromofluorobenzene	0.0378		"	0.0400		94.4	78.4-125		

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

Project: BC - Wetco Farms 23 & 24-4/Park 24-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/17/11 12:40

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

Summit Scientific

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Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 25, 2011

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

RE: BC - Wetco Farms 23, 24-4/Park 34-4

Enclosed are the results of analyses for samples received by Summit Scientific on 05/24/11 16:50. 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: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/25/11 08:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B03@2'	R105114-01	Soil	05/24/11 10:45	05/24/11 16:50
S02@1.5'	R105114-02	Soil	05/24/11 10:42	05/24/11 16:50
W02@1.5'	R105114-03	Soil	05/24/11 10:40	05/24/11 16:50

Summit Scientific



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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/25/11 08:06

B03@2'
R105114-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/24/11 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1052406	05/24/11	05/24/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		104 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/24/11 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1052405	05/24/11	05/24/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		101 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	78.4-125		"	"	"	"	

Summit Scientific

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/25/11 08:06

S02@1.5'
R105114-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/24/11 10:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1052406	05/24/11	05/24/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		105 %	88.8-124		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/24/11 10:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1052405	05/24/11	05/24/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.0075	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	6.8	0.50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:42

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		105 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/25/11 08:06

W02@1.5'
R105114-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/24/11 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	1052406	05/24/11	05/25/11	8015 Full Carbon Chain	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:40

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/24/11 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	1052405	05/24/11	05/24/11	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/24/11 10:40

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		105 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	78.4-125		"	"	"	"	

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/25/11 08:06

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	
Batch 1052406 - EPA 3550A									
Blank (1052406-BLK1)					Prepared: 05/24/11 Analyzed: 05/25/11				
C10-C28 (TEPH-DRO)	ND	50	mg/kg						
C28-C36 (TEPH-ORO)	ND	50	"						
Surrogate: o-Terphenyl	12.6		"	12.5		101	88.8-124		
LCS (1052406-BS1)					Prepared: 05/24/11 Analyzed: 05/25/11				
C10-C28 (TEPH-DRO)	562	50	mg/kg	501		112	85-129		11.8
LCS Dup (1052406-BSD1)					Prepared: 05/24/11 Analyzed: 05/25/11				
C10-C28 (TEPH-DRO)	565	50	mg/kg	501		113	85-129	0.435	11.8
Matrix Spike (1052406-MS1)					Prepared: 05/24/11 Analyzed: 05/25/11				
	Source: R105114-01								
C10-C28 (TEPH-DRO)	564	50	mg/kg	501	17.3	109	77.3-134		8.39
Matrix Spike Dup (1052406-MSD1)					Prepared: 05/24/11 Analyzed: 05/25/11				
	Source: R105114-01								
C10-C28 (TEPH-DRO)	568	50	mg/kg	501	17.3	110	77.3-134	0.842	8.39

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/25/11 08:06

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

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

Batch 1052405 - EPA 5030 Soil MS

Blank (1052405-BLK1)				Prepared: 05/24/11 Analyzed: 05/25/11						
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	0.0442		"	0.0400	110	67.4-143				
Surrogate: Toluene-d8	0.0420		"	0.0400	105	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0449		"	0.0400	112	78.4-125				

LCS (1052405-BS1)				Prepared: 05/24/11 Analyzed: 05/25/11						
Benzene	0.107	0.0050	mg/kg	0.100	107	61-139			11.1	
Toluene	0.107	0.0050	"	0.100	107	64-132			10.9	
Ethylbenzene	0.0930	0.0050	"	0.100	93.0	68.7-135			20	
m,p-Xylene	0.152	0.010	"	0.200	76.0	70.4-129			20	
o-Xylene	0.0860	0.0050	"	0.100	86.0	66.9-126			20	
Surrogate: 1,2-Dichloroethane-d4	0.0454		"	0.0400	113	67.4-143				
Surrogate: Toluene-d8	0.0434		"	0.0400	108	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400	109	78.4-125				

LCS Dup (1052405-BS1)				Prepared: 05/24/11 Analyzed: 05/25/11						
Benzene	0.111	0.0050	mg/kg	0.100	111	61-139	3.25		11.1	
Toluene	0.110	0.0050	"	0.100	110	64-132	3.49		10.9	
Ethylbenzene	0.0960	0.0050	"	0.100	96.0	68.7-135	3.24		20	
m,p-Xylene	0.158	0.010	"	0.200	79.0	70.4-129	3.89		20	
o-Xylene	0.0880	0.0050	"	0.100	88.0	66.9-126	2.21		20	
Surrogate: 1,2-Dichloroethane-d4	0.0473		"	0.0400	118	67.4-143				
Surrogate: Toluene-d8	0.0428		"	0.0400	107	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0427		"	0.0400	107	78.4-125				

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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/25/11 08:06

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

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

Batch 1052405 - EPA 5030 Soil MS

Matrix Spike (1052405-MS1)	Source: R105114-01			Prepared: 05/24/11	Analyzed: 05/25/11					
Benzene	0.110	0.0050	mg/kg	0.100	ND	110	42.9-137		17.9	
Toluene	0.109	0.0050	"	0.100	ND	109	42.6-130		11.9	
Ethylbenzene	0.0939	0.0050	"	0.100	ND	93.9	39-133		20	
m,p-Xylene	0.153	0.010	"	0.200	ND	76.7	34.7-134		20	
o-Xylene	0.0873	0.0050	"	0.100	ND	87.3	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0465		"	0.0400		116	67.4-143			
Surrogate: Toluene-d8	0.0426		"	0.0400		107	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0433		"	0.0400		108	78.4-125			

Matrix Spike Dup (1052405-MSD1)	Source: R105114-01			Prepared: 05/24/11	Analyzed: 05/25/11					
Benzene	0.110	0.0050	mg/kg	0.100	ND	110	42.9-137	0.0820	17.9	
Toluene	0.109	0.0050	"	0.100	ND	109	42.6-130	0.166	11.9	
Ethylbenzene	0.0944	0.0050	"	0.100	ND	94.4	39-133	0.478	20	
m,p-Xylene	0.154	0.010	"	0.200	ND	77.2	34.7-134	0.682	20	
o-Xylene	0.0876	0.0050	"	0.100	ND	87.6	41.3-126	0.343	20	
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	67.4-143			
Surrogate: Toluene-d8	0.0424		"	0.0400		106	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	78.4-125			

Summit Scientific



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

Project: BC - Wetco Farms 23, 24-4/Park 34-4

Project Number: 0345-11001
Project Manager: John Cocroft

Reported:
05/25/11 08:06

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

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.