

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

Former AMOCO SITE

REMED 4353

OGCC Employee:

Spill Complaint

Inspection NOAV

Tracking No: 1984454

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): NFA

GENERAL INFORMATION

OGCC Operator Number: <u>47120</u>	Contact Name and Telephone
Name of Operator: <u>Kerr-McGee Oil & Gas Onshore LP</u>	Name: <u>Paul Schneider</u>
Address: <u>1099 18th Street, Suite 1800</u>	No: <u>720-929-6000</u>
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u>	Fax: <u>720-929-7726</u>
API/Facility No: <u>05-123-07924</u>	County: <u>Weld</u>
Facility Name: <u>Norgren Donald C #1</u>	Facility Number: _____
Well Name: <u>Norgren Donald C #1</u>	Well Number: _____
Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>SWNE 14-T3N-R67W 6th</u>	Latitude: _____ Longitude: _____

TECHNICAL CONDITIONS

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

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.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: See attached boring logs

Potential receptors (water wells within 1/4 mi, surface waters, etc.): South Platte River approximately 60' west of the site, water well approximately 650' south of the site and groundwater at approximately 4' bgs.

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	<u>Soil not impacted</u>	<u>Soil samples for field screening and laboratory analysis</u>
<input type="checkbox"/> Vegetation	_____	_____
<input checked="" type="checkbox"/> Groundwater	<u>Groundwater not impacted</u>	<u>Collected groundwater samples for laboratory analysis</u>
<input type="checkbox"/> Surface water	_____	_____

REMEDIATION WORKPLAN

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

Based on data collected by the previous operator of this facility (Amoco), COGCC requested that Kerr-McGee conduct additional subsurface assessment activities at this tank battery to determine the extent and magnitude of any potential historic soil and/or groundwater petroleum hydrocarbon impacts.

Describe how source is to be removed:

Assessment activities at this site included the continuous sampling of two boreholes (SB01 and SB02) at the tank battery using a truck-mounted Geoprobe. The borehole locations were selected based on where any potential impacts were most likely to be detected. One soil sample per borehole was collected above the water table from the soil interval exhibiting the highest photo-ionization detector (PID) headspace reading. Soil samples were submitted for Total Petroleum Hydrocarbons (TPH) analysis by EPA Method 8015 (Full Carbon Chain, C6-C36). Soil sample analytical results indicate that TPH concentrations are below the COGCC 1,000 milligrams per kilogram (mg/kg) sensitive area allowable level in the SB01 and SB02 soil samples. Each borehole was completed as a groundwater monitoring well (MW01 and MW02).

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.:

Not applicable

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Oil and Gas Conservation Commission

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Tracking Number:	_____
Name of Operator:	<u>Kerr-McGee Oil & Gas Onshore LP</u>
OGCC Operator No:	<u>47120</u>
Received Date:	_____
Well Name & No:	<u>Norgren Donald C #1</u>
Facility Name & No.:	<u>Norgren Donald C #1</u>

REMEDIATION WORKPLAN (CONT.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
Two monitoring wells (AMW01 and AMW02) existed at the site and two additional monitoring wells (MW01 and MW02) were installed and sampled in April 2008 for BTEX analysis by EPA Method 8260B. Monitoring well AMW02 was dry during the April 2008 sampling event and BTEX concentrations were below the CGWQS in monitoring wells AMW01, MW01 and MW02.

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.
Kerr-McGee'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 N If yes, describe:
Soil sample analytical results indicate that TPH concentrations are below the COGCC 1,000 mg/kg sensitive area allowable level in the samples collected from boreholes SB01 and SB02. Groundwater sample analytical results indicate that BTEX concentrations are below the CGWQS in monitoring wells AMW01, MW01 and MW02. Based on the analytical results, Kerr-McGee is requesting NFA status for this site.

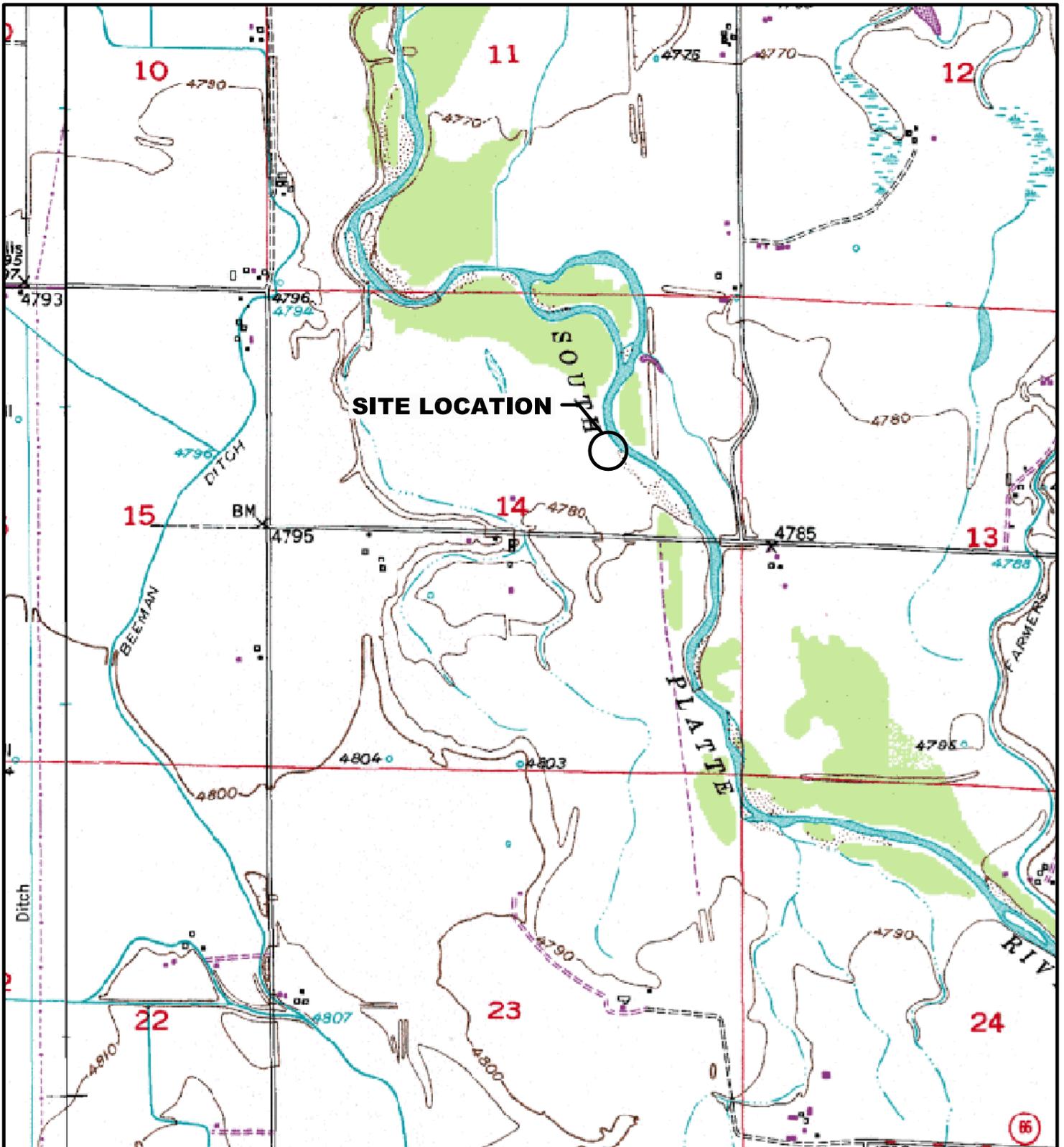
Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):
Not applicable

IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	<u>4/9/08</u>	Date Site Investigation Completed:	<u>Active</u>	Remediation Plan Submitted:	_____
Remediation Start Date:	<u>4/9/08</u>	Anticipated Completion Date:	<u>12/31/08</u>	Actual Completion Date:	_____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.
Print Name: Paul D. Schneider
Signed: _____ Title: Staff Environmental & Regulatory Analyst Date: _____

OGCC Approved: _____ Title: _____ Date: _____



LEGEND

○ SITE LOCATION

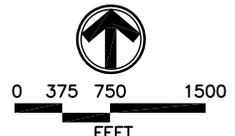
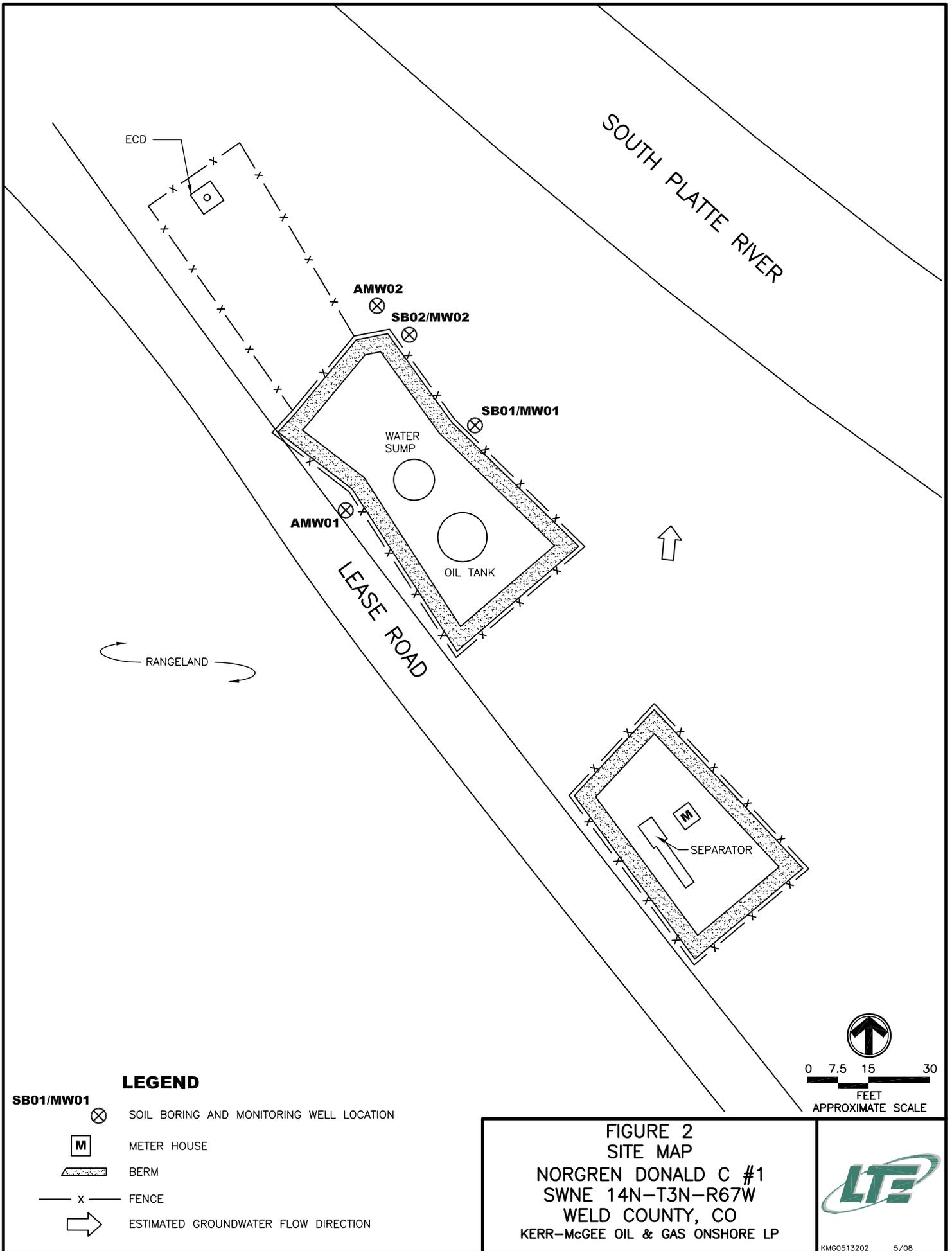


FIGURE 1
 SITE LOCATION MAP
 NORGRN DONALD C #1
 SWNE 14-T3N-R67W
 WELD COUNTY, CO
 KERR-McGEE OIL & GAS ONSHORE LP



SOURCE: TOPOZONE.COM
 USGS 7.5' QUADRANGLE
 (NAD27)



LEGEND

- SB01/MW01**  SOIL BORING AND MONITORING WELL LOCATION
-  METER HOUSE
-  BERM
-  FENCE
-  ESTIMATED GROUNDWATER FLOW DIRECTION

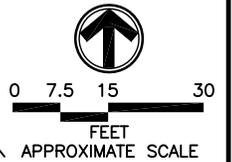


FIGURE 2
SITE MAP
 NORGREN DONALD C #1
 SWNE 14N-T3N-R67W
 WELD COUNTY, CO
 KERR-McGEE OIL & GAS ONSHORE LP



TABLE 1
SOIL BORING ANALYTICAL RESULTS
NORGREN DONALD C 1
KERR-McGEE OIL & GAS ONSHORE LP

Sample Location (Depth in feet)	Date	TEPH (mg/kg)
SB01 (4-5)	04/09/2008	490
SB02 (5-6)	04/09/2008	300

COGCC Standards

1000

Notes: TEPH - Total Extractable Petroleum Hydrocarbons
 < - less than NA - Not Analyzed/Not Available
 COGCC - Colorado Oil and Gas Conservation Commission

Bold numbers indicate result equaled or exceeded standard.
 mg/kg - milligrams per kilogram



TABLE 2
GROUNDWATER ANALYTICAL AND FIELD RESULTS
NORGREN DONALD C 1
KERR-McGEE OIL & GAS ONSHORE LP

Well Name	Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Depth Water/ (Depth Product) (ft bgs)
AMW01	04/30/2008	<1.0	<1.0	<1.0	<1.0	3.57
AMW02	04/30/2008	Dry - Not Sampled				Dry
MW01	04/30/2008	<1.0	<1.0	<1.0	<1.0	4.00
MW02	04/30/2008	<1.0	<1.0	1.1	15	3.80
Colo GW Quality Standards		5	1000	700	1400	

Notes: < - less than
ug/L - micrograms per Liter
NA - Not Analyzed/Not Available

GW - Groundwater
Bold numbers indicate result equaled or exceeded standard.
ND - Not Detected NM - Not Measured ft bgs - feet below ground surface



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

April 14, 2008

Mike Unger

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: KMG - Norgren Donald C #1

Enclosed are the results of analyses for samples received by Summit Scientific on 04/10/08 07:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Ben Shrewsbury

Vice President / Laboratory Director



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

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
Project Manager: Mike Unger

Reported:
04/14/08 15:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@4-5'	R804059-01	Soil	04/09/08 12:15	04/10/08 07:30
SB02@5-6'	R804059-02	Soil	04/09/08 12:40	04/10/08 07:30

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

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
Project Manager: Mike Unger

Reported:
04/14/08 15:33

SB01@4-5'
R804059-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/08 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	290	50	mg/kg	1	8041106	04/11/08	04/12/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	200	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/09/08 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		85.2 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		85.2 %	70-130		"	"	"	"	

Date Sampled: **04/09/08 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C36 Total TEPH	490		"	"	[CALC]	"	"	EPA 8015	

Summit Scientific

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

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
 Project Manager: Mike Unger

Reported:
 04/14/08 15:33

SB02@5-6'
R804059-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/09/08 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	160	50	mg/kg	1	8041106	04/11/08	04/12/08	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	140	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/09/08 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		84.8 %	70-130		"	"	"	"	
Surrogate: Trifluorotoluene		82.9 %	70-130		"	"	"	"	

Date Sampled: **04/09/08 12:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C36 Total TEPH	300		"	"	[CALC]	"	"	EPA 8015	

Summit Scientific

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

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
Project Manager: Mike Unger

Reported:
04/14/08 15:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

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

Batch 8041106 - EPA 3550A

Blank (8041106-BLK1)

Prepared: 04/11/08 Analyzed: 04/12/08

C6-C10 (TEPH-GRO)	ND	50	mg/kg							
C10-C28 (TEPH-DRO)	ND	50	"							
C28-C36 (TEPH-ORO)	ND	50	"							

Surrogate: *o*-Terphenyl

55.3 " 50.0 111 70-130

Surrogate: Trifluorotoluene

104 " 100 104 70-130

LCS (8041106-BS1)

Prepared: 04/11/08 Analyzed: 04/12/08

C10-C28 (TEPH-DRO)	567	50	mg/kg	500		113	65.3-142			
Surrogate: <i>o</i> -Terphenyl	51.2		"	0.470		NR	70-130			
Surrogate: Trifluorotoluene	98.8		"	0.940		NR	70-130			

LCS Dup (8041106-BSD1)

Prepared: 04/11/08 Analyzed: 04/12/08

C10-C28 (TEPH-DRO)	586	50	mg/kg	500		117	65.3-142	3.30	19.7	
Surrogate: <i>o</i> -Terphenyl	49.4		"	0.470		NR	70-130			
Surrogate: Trifluorotoluene	96.1		"	0.940		NR	70-130			

Matrix Spike (8041106-MS1)

Source: R804059-01

Prepared: 04/11/08 Analyzed: 04/12/08

C10-C28 (TEPH-DRO)	744	50	mg/kg	500	200	109	55.2-139			
Surrogate: <i>o</i> -Terphenyl	48.1		"	0.470		NR	70-130			
Surrogate: Trifluorotoluene	97.0		"	0.940		NR	70-130			

Matrix Spike Dup (8041106-MSD1)

Source: R804059-01

Prepared: 04/11/08 Analyzed: 04/12/08

C10-C28 (TEPH-DRO)	999	50	mg/kg	500	200	160	55.2-139	29.3	16.7	
Surrogate: <i>o</i> -Terphenyl	56.9		"	0.470		NR	70-130			
Surrogate: Trifluorotoluene	112		"	0.940		NR	70-130			

Summit Scientific

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

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
Project Manager: Mike Unger

Reported:
04/14/08 15:33

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 07, 2008

Mike Unger

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: KMG - Norgren Donald C #1

Enclosed are the results of analyses for samples received by Summit Scientific on 04/30/08 17:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Ben Shrewsbury

Vice President / Laboratory Director



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

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
Project Manager: Mike Unger

Reported:
05/07/08 16:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AMW01	R805002-01	Water	04/30/08 14:20	04/30/08 17:40
MW01	R805002-02	Water	04/30/08 14:40	04/30/08 17:40
MW02	R805002-03	Water	04/30/08 14:50	04/30/08 17:40

Summit Scientific

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

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
 Project Manager: Mike Unger

Reported:
 05/07/08 16:13

AMW01
R805002-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/30/08 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	8050204	05/02/08	05/05/08	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/30/08 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		<i>118 %</i>	<i>90.2-124</i>		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		<i>100 %</i>	<i>92.1-106</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>102 %</i>	<i>84.5-110</i>		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
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 Arvada CO, 80003

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
 Project Manager: Mike Unger

Reported:
 05/07/08 16:13

MW01
R805002-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/30/08 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	8050204	05/02/08	05/05/08	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	

Date Sampled: **04/30/08 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		72.4 %	90.2-124		"	"	"	"	S-04
<i>Surrogate: Toluene-d8</i>		101 %	92.1-106		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.7 %	84.5-110		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
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 Arvada CO, 80003

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
 Project Manager: Mike Unger

Reported:
 05/07/08 16:13

MW02
R805002-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/30/08 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	8050204	05/02/08	05/05/08	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	1.1	1.0	"	"	"	"	"	"	
Xylenes (total)	15	1.0	"	"	"	"	"	"	

Date Sampled: **04/30/08 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		69.0 %	90.2-124		"	"	"	"	S-04
<i>Surrogate: Toluene-d8</i>		95.5 %	92.1-106		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.2 %	84.5-110		"	"	"	"	

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

Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
Project Manager: Mike Unger

Reported:
05/07/08 16:13

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 8050204 - EPA 5030 Water MS

Blank (8050204-BLK1)

Prepared: 05/02/08 Analyzed: 05/05/08

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	9.02		"	13.3	67.8	90.2-124				
Surrogate: Toluene-d8	12.0		"	13.3	90.2	92.1-106				
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3	88.7	84.5-110				

LCS (8050204-BS1)

Prepared: 05/02/08 Analyzed: 05/05/08

Benzene	22.2	1.0	ug/l	33.3	66.7	61.4-110				
Toluene	26.7	1.0	"	33.3	80.2	54.2-116				
Surrogate: 1,2-Dichloroethane-d4	9.30		"	13.3	69.9	90.2-124				
Surrogate: Toluene-d8	12.6		"	13.3	94.7	92.1-106				
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3	94.0	84.5-110				

LCS Dup (8050204-BSD1)

Prepared: 05/02/08 Analyzed: 05/05/08

Benzene	21.7	1.0	ug/l	33.3	65.2	61.4-110	2.28	11.8		
Toluene	26.6	1.0	"	33.3	79.9	54.2-116	0.375	12.2		
Surrogate: 1,2-Dichloroethane-d4	8.23		"	13.3	61.9	90.2-124				
Surrogate: Toluene-d8	12.1		"	13.3	91.0	92.1-106				
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3	94.0	84.5-110				

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Project: KMG - Norgren Donald C #1

Project Number: KMG 05132
Project Manager: Mike Unger

Reported:
05/07/08 16:13

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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