FORM 27 Rev 6/99

State of Colorado
Oil and Gas Conservation Commission

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

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RECEIVED 09/05/2014
REM 8643
DOC 2141728

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): Pit Closure

OGCC Operator Number: 95960
Name of Operator: Wexpro Company
Address: PO Box 458
City: Rock Springs State: WY Zip: 82902

Contact Name and Telephone:
Tammy Fredrickson
No: 307.352.7514
Fax: 307.352.7575

API Number: 05-081-05433 County: Moffat
Facility Name: Ace Unit 2 Facility Number: 100339
Well Name: Ace Unit Well Number: 2
Location: (QtrQtr, Sec, Twp, Rng, Meridian): SWSW 3, 11N, 97W, 6th Latitude: 40.935634 Longitude: -108.285018

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.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Talamantes Loam

Potential receptors (water wells within 1/4 mi, surface waters, etc.): None

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

Impacted Media (check):	Extent of Impact:	How Determined:
☑ Soils	Minimal	Soil Analysis
☐ Vegetation		
☐ Groundwater		
☐ Surface Water		

REMEDIATION WORKPLAN

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

Pit was taken out of service in 1979 and left as an emergency back up source. Pit was not needed after tanks were installed up to the time it was closed. A composite soil sample was taken from bottom and sides of pit and submitted for analysis.

Describe how source is to be removed:

Pit fence was removed and berm was knocked into pit bottom approximately 6' + deep. Pit was back filled leaving sufficient mounding to allow for subsidence.

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.:

N/A

Submit Page 2 with Page 1

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Well Name & No: _____
Facility Name & No: _____

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REMEDIATION WORKPLAN (Cont.)

OGCC Employee:

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

No indication that groundwater was impacted.

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.

Pit fence was removed. Berms were knocked into the pit area approximately 6' deep. Pit was back filled leaving sufficient mounding to allow for subsidence. Disturbed area was seeded with the following seed mix approved by the surface owner (BLM). Shadscale Saltbush, Gardner Saltbush, Four Wing Saltbush, Indian Rice Grass, Thickspike Wheat Grass, Western Wheat Grass, Great Basin Wild Rye, Slender Wheat Grass, Lewis Blue Flax and Rocky Mountain Bee Plant in November 2013. Weeds are sprayed annually as part of the Wexpro Weed Prevention Program also approved by the BLM.

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:

A composite soil sample was obtained and submitted to a third party lab for analysis. Samples were taken from the bottom and sides of the pit. 3 samples were combined as follows: One sample from directly uder the dump lines entering the pit on the sidewall, one sample from the center of the pit floor and one sample from the lowest corner of the pit.

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

N/A

IMPLEMENTATION SCHEDULE

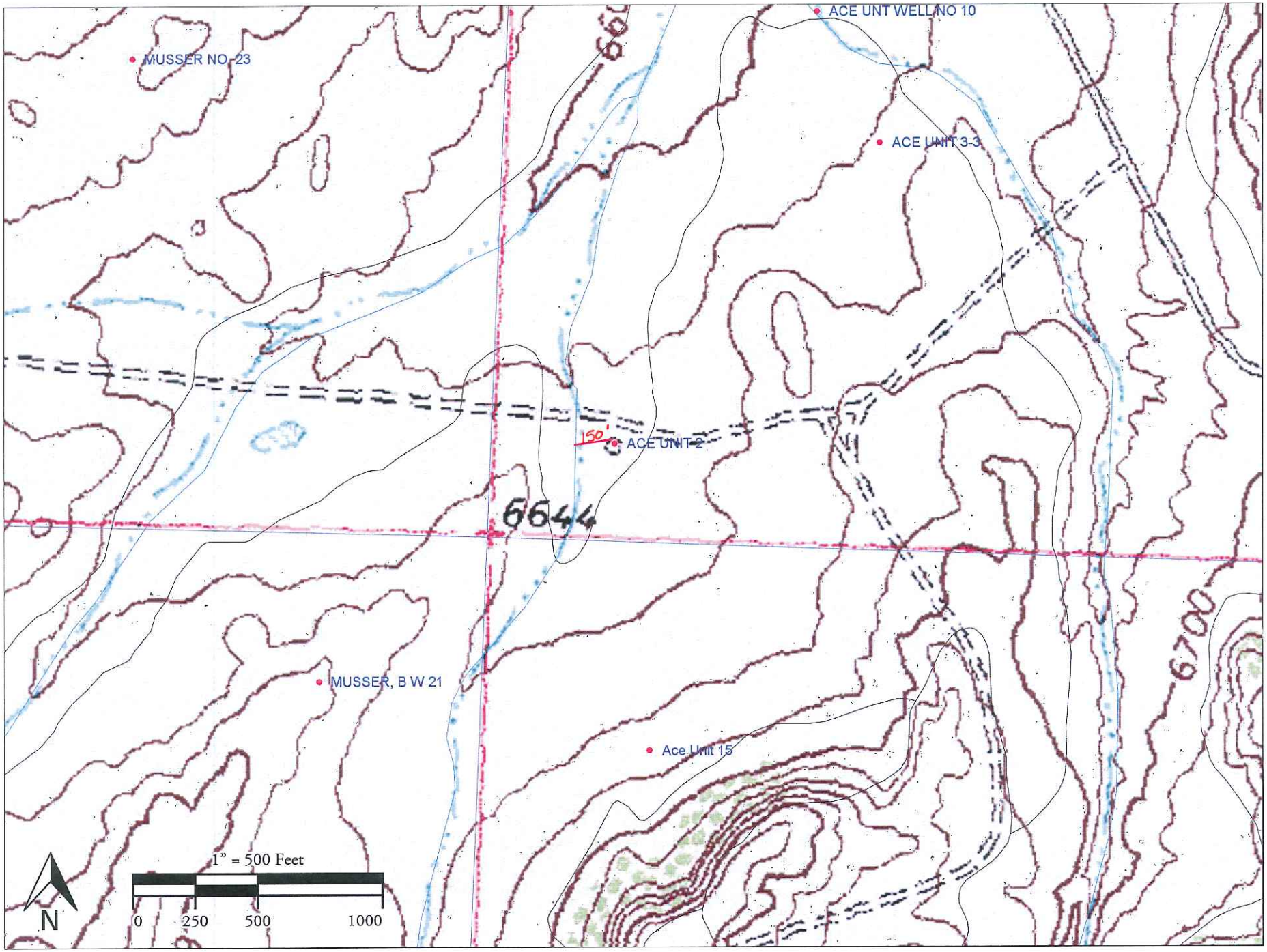
Date Site Investigation Began: 9/6/12	Date Site Investigation Completed: 9/11/12	Date Remediation Plan Submitted: 9/27/12
Remediation Start Date:	Anticipated Completion Date: 11/2013	Actual Completion Date: 11/2013

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

Print Name: Tammy Fredrickson Signed: Tammy Fredrickson

Title: Senior Permit Agent Date: September 5, 2014

OGCC Approved: Kris Neidel Title: EPS I Date: 9/23/14


ACE UNT WELL NO 10
MUSSER NO. 23
ACE UNIT 3-3
150'
ACE UNIT 2
6644
MUSSER, B W 21
Ace Unit 15
1" = 500 Feet
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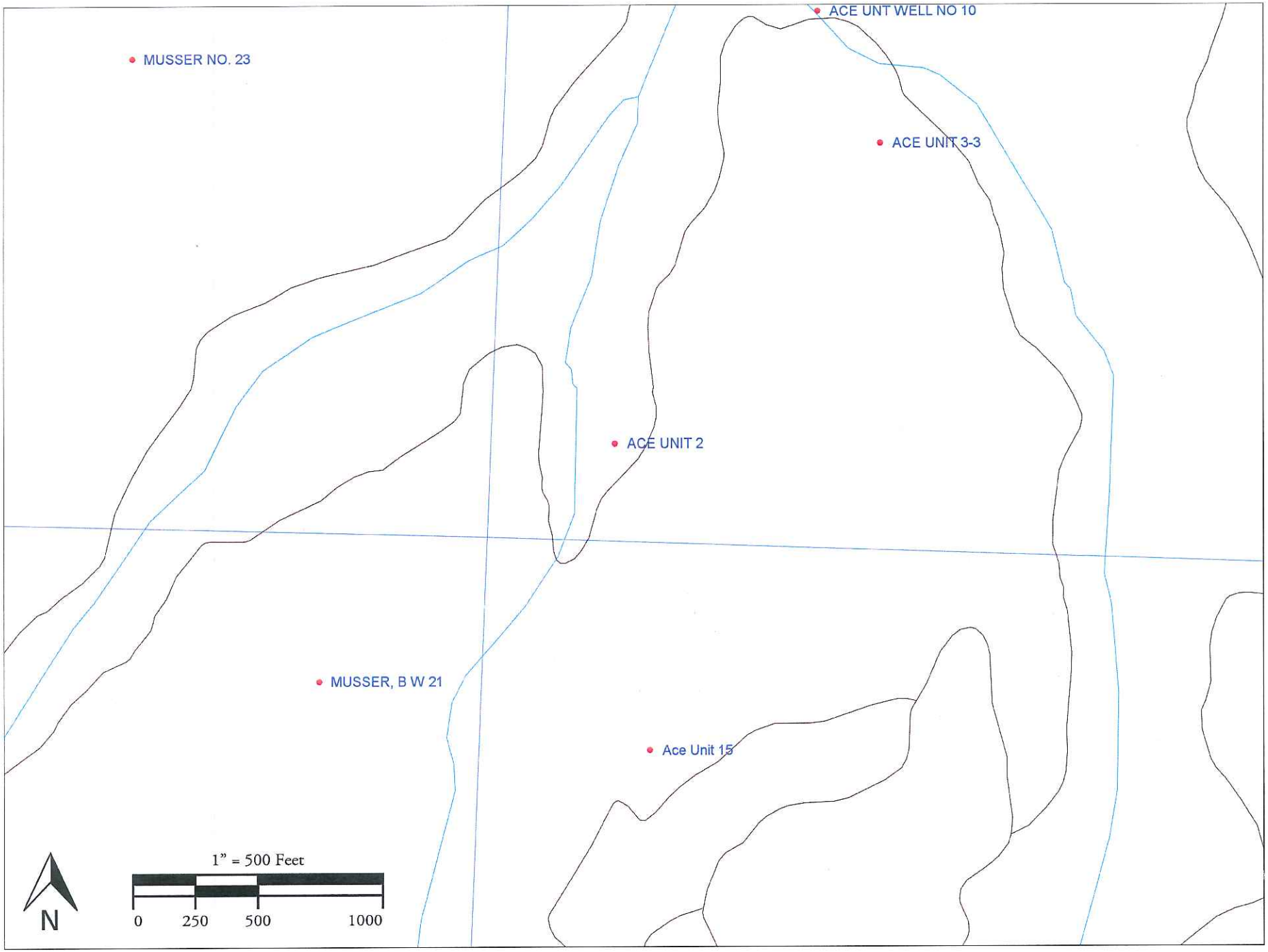
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0
250
500
1000

Google earth

feet 500
meters 100

Tammy Fredrickson
Wexpro
P.O. Box 458
Rock Springs, WY 82901

Date: September 25, 2012
Request Number: 30872
Date Received: 9-11-12
Matrix: Soil
Method: EPA 8270C

REPORT OF ANALYSIS

Lab Number: N5153
Sample ID: Ace #2 9-6-12

PAH Compound	Result, mg/kg	Reporting Limit, mg/kg	Date Analyzed
Acenaphthene	< 0.030	0.030	9/13/2012
Acenaphthylene	< 0.030	0.030	9/13/2012
Anthracene	< 0.030	0.030	9/13/2012
Benzo(a) anthracene	< 0.030	0.030	9/13/2012
Benzo(b) fluoranthene	< 0.030	0.030	9/13/2012
Benzo(k) fluoranthene	< 0.030	0.030	9/13/2012
Benzo(a) pyrene	< 0.030	0.030	9/13/2012
Benzo(g,h,i) perylene	< 0.030	0.030	9/13/2012
Chrysene	< 0.030	0.030	9/13/2012
Dibenzo(a,h)Anthracene	< 0.030	0.030	9/13/2012
Fluoranthene	< 0.030	0.030	9/13/2012
Fluorene	< 0.030	0.030	9/13/2012
Indeno (1,2,3-cd) pyrene	< 0.030	0.030	9/13/2012
2-Methylnaphthalene	< 0.030	0.030	9/13/2012
Naphthalene	< 0.030	0.030	9/13/2012
Phenanthrene	< 0.030	0.030	9/13/2012
Pyrene	< 0.030	0.030	9/13/2012

Surrogate Recoveries

Compound	% Recovery	% Recovery Limits
2-Fluorobiphenyl	54	25-105
Nitrobenzene-d_5	57	20-105
Terphenyl-d_{14}	63	30-125

Note: PAH analyzed by TestAmerica Lab in Cedar Falls IA.
TestAmerica lab number: CVF1923-01

Monte L. Ellis
Laboratory Manager

WYOMING ANALYTICAL LABORATORIES, INC.
1660 Harrison St. Wallaramie@wal-lab.com (307) 742-7995
Laramie, WY 82070 Fax: (307) 721-8956

Tammy Fredrickson
Wexpro
P.O. Box 458
Rock Springs, WY 82901

Date: September 25, 2012
Request Number: 30872
Date Received: 9-11-12
Matrix: Soil

REPORT OF ANALYSIS

BTEX/Method: 8260 **Date Analyzed: /Analyst: DL 9-20-12**

Lab Number	Sample ID	Benzene mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	m,p-xylenes mg/kg	o-xylenes mg/kg
N5151	Carl Allen #9 9-6-12	< 0.01	0.07	0.09	1.77	0.59
N5152	Carl Allen #17 9-6-12	< 0.01	< 0.01	< 0.01	0.15	0.04
N5153	Ace #2 9-6-12	< 0.01	< 0.01	0.04	0.34	0.08

Gasoline Range Organics/Method: 8260

Lab Number	Sample ID	TPH-GRO mg/kg	Date Analyzed	Analyst
N5151	Carl Allen #9 9-6-12	134	9-20-12	DL
N5152	Carl Allen #17 9-6-12	13.3	9-20-12	DL
N5153	Ace #2 9-6-12	0.52	9-20-12	DL

Diesel Range Organics/Method: 8015C

Lab Number	Sample ID	TPH-DRO mg/kg	Date Analyzed	Analyst
N5151	Carl Allen #9 9-6-12	2932	9-19-12	KS
N5152	Carl Allen #17 9-6-12	131	9-19-12	KS
N5153	Ace #2 9-6-12	25	9-19-12	KS

BTEX/GRO Quality Control/MS/MSD RECOVERIES

Compound	Spike, % Rec	Duplicate % Rec	QC Limits	RPD	RPD Limits%
Benzene	85	92	76-127	8	11
Toluene	94	102	76-127	9	13

DRO QUALITY CONTROL-LCS/LCS DUPLICATE

	% Recovery	Dup. % Recovery	RPD %	RPD Limit
DRO	51	58	12.8	50

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Date: September 25, 2012
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Date Received: 9-11-12
Matrix: Soil

REPORT OF ANALYSIS

Lab Number	N5153			
Sample ID	**Ace #2 9-6-12**	Method	Date Analyzed	Analyst
Arsenic, mg/kg	0.39	EPA 3052/6020	9/14/2012	FP
Selenium, mg/kg	2.44	EPA 3052/6020	9/14/2012	FP
Silver, mg/kg	< 0.001	EPA 3052/6020	9/14/2012	FP
Cadmium, mg/kg	0.02	EPA 3052/6020	9/14/2012	FP
Barium, mg/kg	1,087	EPA 3052/6020	9/14/2012	FP
Mercury, mg/kg	0.03	EPA 3052/6020	9/14/2012	FP
Lead, mg/kg	< 0.01	EPA 3052/6020	9/14/2012	FP
Chromium, mg/kg	0.32	EPA 3052/6020	9/14/2012	FP
Chromium (III), mg/kg	0.02	Calculated (ttl.Cr-Cr6)		FP
Chromium (VI), mg/kg	0.30	EPA 7196A	9/12/2012	CB
Soluble, Boron, mg/kg	< 0.01	EPA 3052/6020	9/14/2012	FP
Copper, mg/kg	3.38	EPA 3052/6020	9/14/2012	FP
Nickel, mg/kg	0.23	EPA 3052/6020	9/14/2012	FP
Zinc, mg/kg	0.09	EPA 3052/6020	9/14/2012	FP
Conductivity, umhos/cm	2,260	EPA 120.1	9/12/2012	CB
Calcium, mg/kg	1,049	EPA 3052/6020	9/13/2012	FP
Magniesium, mg/kg	144	EPA 3052/6020	9/13/2012	FP
Sodium, mg/kg	1,194	EPA 3052/6020	9/13/2012	FP
Sodium Absorption Ratio	9.17	Calculated	9/13/2012	FP
pH, std. units	7.65	EPA 150.1	9/12/2012	CB

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