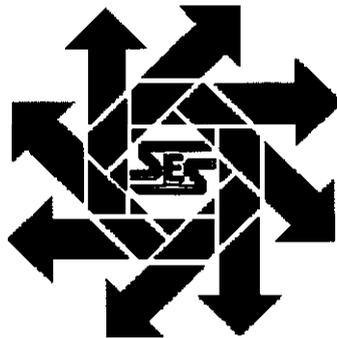


**Range Operating New Mexico, Inc.
Greenwood Battery
Section 9, Township 22S, Range 37E
Lea County, New Mexico**

Closure Report

July 27, 2009



Prepared for:

**Range Operating New Mexico, Inc.
281 North New Mexico Highway 248
PO Box 1570
Eunice, New Mexico 88231**

By:

**Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510**

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I. Company Contacts

NAME	Company	Telephone	E-mail
Steve Almager	Range Operating NM, Inc.	575-394-1485	salmager@rangeresources.com
Sergio Contreras	SESI	575-397-0510	scontreras@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Range Operating NM, Inc. to perform a site assessment at the Greenwood Battery. This is an active battery located in Section 9, Township 22 South, Range 37 East. On June 26, 2009 an over pressured flowline split releasing an unknown amount of produced fluids.

III. Surface and Ground Water

According to the database provided by the Office of State Engineer (OSE) online database, the average depth of water in this area is 94'.

IV. Work Performed

On June 26, 2009, SESI was onsite to map the affected area. The area was mapped using a Trimble Geo XM GPS. SESI observed overspray to the North of the battery with minor staining to vegetation and soil. Produced fluid ran off location and mixed with rain water on lease road. Two (2) vacuum trucks were utilized to recover 200 barrels of produced fluid, which included the standing rain water on the lease road.

SESI utilized a hand auger to attempt to delineate the spill area at the release point. Auger refusal was encountered at a depth of 3'7" below ground level (bgl) due to the hard caliche layer. Grab samples were collected and transported under chain of custody to Cardinal Laboratories of Hobbs New Mexico, for analysis. In compliance to the New Mexico Oil Conservation Division (NMOCD) set of required sampling conditions, the samples were analyzed for Chlorides (EPA Method 4500-Cl⁻B), Total Petroleum Hydrocarbons (EPA Method 418.1), and Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) (EPA Method SWA-846 8021 B).

The results are as follows:

Sample ID	Chlorides (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)
AH#1 1' BGL	272	<100	<0.050	0.063	<0.050	<0.300
AH#1 2' BGL	432	949	<0.050	<0.050	0.117	0.309
AH#1 3' BGL	384	<100	<0.050	<0.050	<0.050	<0.300
AH#1 3'7" BGL	448	-	-	-	-	-

On July 1, 2009, SESI was onsite with Environmental Plus Inc (EPI). A test trench was installed in the center of the pooling area, the release point (See Figure 2). Grab samples were collected at 1' intervals from within the trench and transported under chain of custody to Cardinal Laboratories of Hobbs, New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-Cl⁻B).

The results of the lab analysis are as follows:

Sample ID	Chlorides (mg/kg)
TT#1 4' BGL	624
TT#1 5' BGL	352
TT#1 6' BGL	336
TT#1 7' BGL	48

Based upon the analytical results, the vertical extent of TPH contamination was determined at a depth of 7'. Therefore, the entire pooling area was excavated to a depth of 7' bgl.

The overspray area surrounding the pooling area was excavated from a depth of 6" to 12" bgl. Grab samples were collected from the excavated areas and transported under chain of custody to Cardinal Laboratories for analysis. The samples were analyzed for Chlorides (EPA Method 300.0), Total Petroleum Hydrocarbons (EPA Method 418.1), and BTEX (EPA Method SWA-846 8021B).

The results of the lab analysis are as follows:

Sample ID	Chlorides (mg/kg)	TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Xylenes (mg/kg)
SP#2 1' BGL	64	<100	<0.050	<0.050	<0.050	<0.300
SP#3 1' BGL	48	155	<0.050	<0.050	<0.050	<0.300
SP#4 Surface	64	422	<0.050	<0.050	<0.050	<0.300
SP#4 6" BGL	-	<100	-	-	-	-
SP#5 Surface	<16	<100	<0.050	<0.050	<0.050	<0.300
SP#6 1' BGL	32	<100	<0.050	<0.050	<0.050	<0.300

On July 2, 2009 SESI was onsite. Composite samples were collected from each of the walls and from the bottom of the test trench. Field analysis indicated the chloride levels to be below 250 ppm. Comparative samples were collected and transported under chain of custody to Cardinal Laboratories, of Hobbs New Mexico for analysis. The samples were analyzed for Chlorides (EPA Method 4500-Cl⁻B).

The results of the lab analysis are as follows:

Sample ID	Chlorides (mg/kg)
West Wall	16
North Floor	32
Floor 7' BGL	32
South Wall	16
East Wall	192

On July 6-7, 2009, SESI was onsite with EPI. A total of 378 yards of contaminated soil was transported to Sundance Services, a New Mexico Oil Conservation Division (NMOCD) approved facility for disposal. The pooling area was then backfilled to 3' bgl with a total of 112 yards of caliche, then from 3' bgl to surface with 238 yards of topsoil. The excavated overspray areas were also backfilled with topsoil and contoured to grade.

V. Conclusion

It is requested that no further action be required.

VI. Figures & Appendices

Figure 1 – Vicinity Map

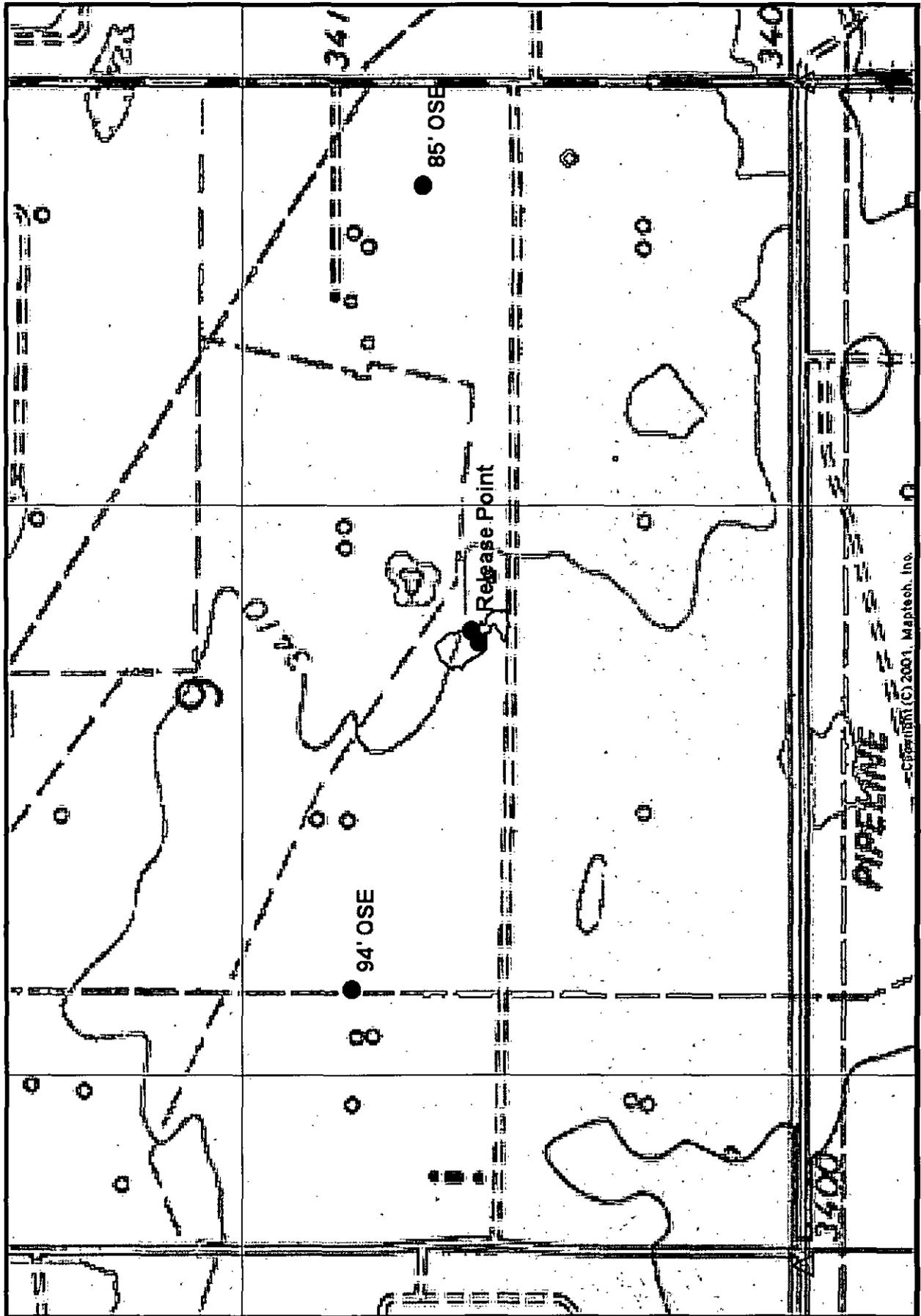
Figure 2 – Site Plan

Appendix A – Analytical Results

Appendix B – Site Photos

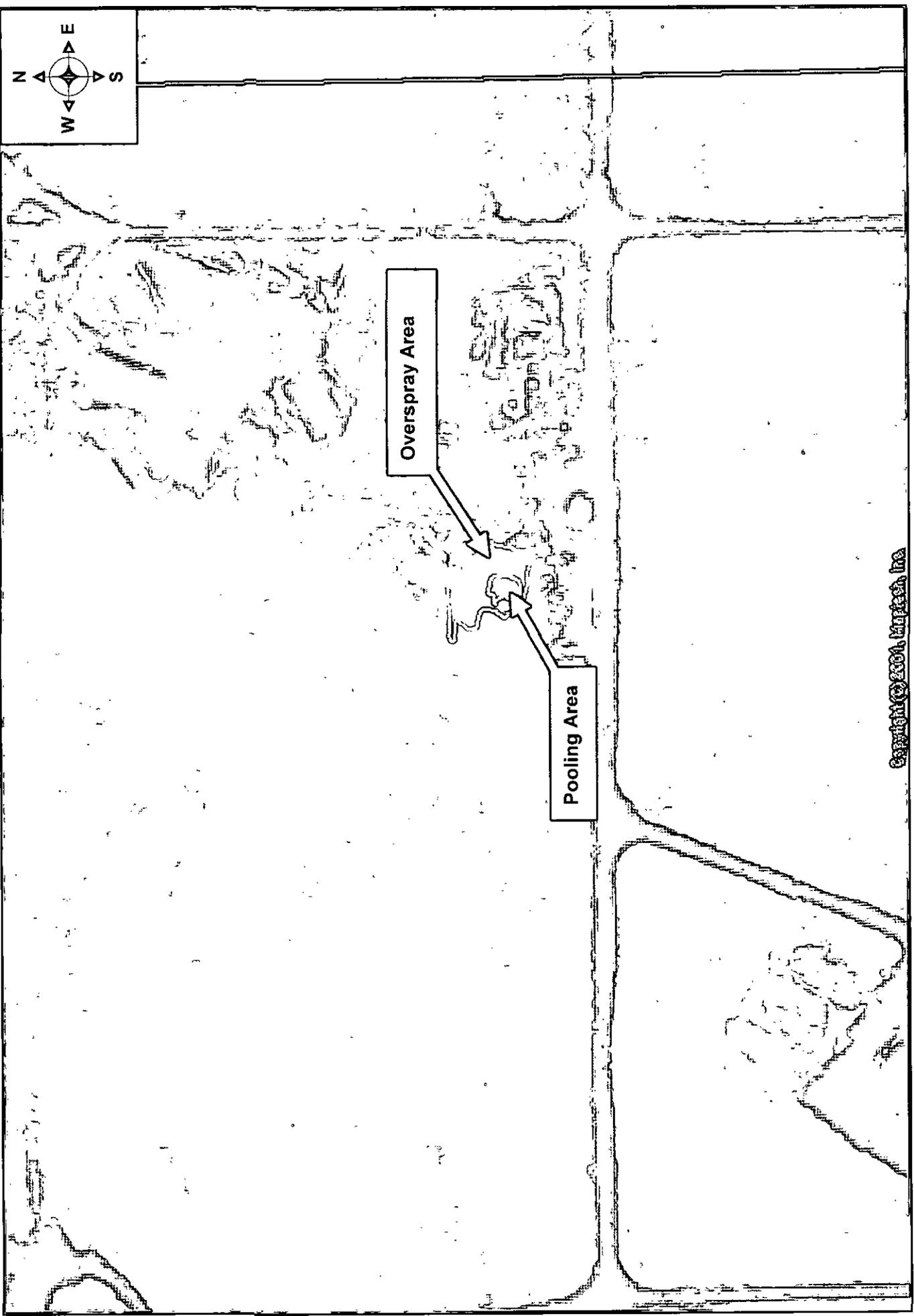
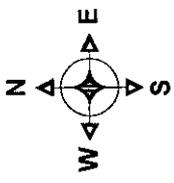
Appendix C – C-141

Figure 1
Vicinity Map



Copyright (C) 2001, Maptech, Inc.

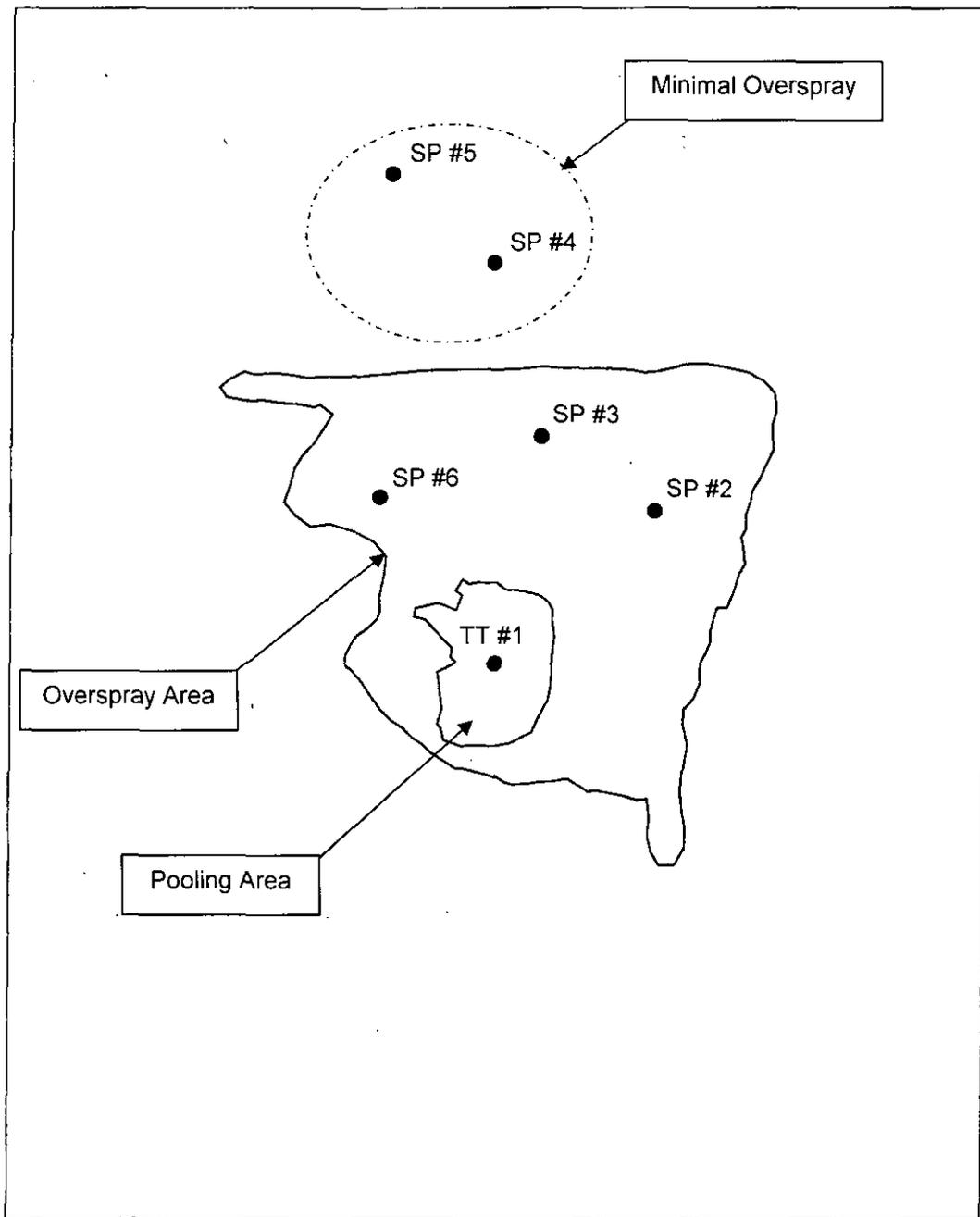
**Figure 2
Site Plan**



Overspray Area

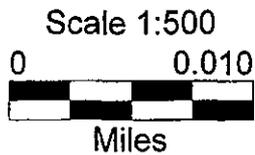
Pooling Area

Copyright © 2004 Maptech, Inc.



Greenwood Battery

Lat/Long
WGS 1984



RAN-09-001 s2.cor
8/7/2009

GPS Pathfinder® Office



Appendix A
Analytical Results



ARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88241
FAX TO: (575) 393-4388

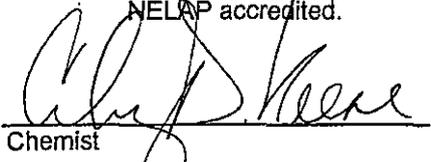
Receiving Date: 07/02/09
Reporting Date: 07/03/09
Project Number: RAN-09-001
Project Name: GREENWOOD BATTERY
Project Location: EUNICE, NM

Sampling Date: 06/26/09, 07/01/09 & 07/02/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl* (mg/kg)
ANALYSIS DATE:		07/02/09
H17747-1	AH#1. 1' BGL	272
H17747-2	AH#1. 2' BGL	432
H17747-3	AH#1. 3' BGL	384
H17747-4	AH#1. 3' 7" BGL	448
H17747-5	TT#1. 4' BGL	624
H17747-6	TT#1. 5' BGL	352
H17747-7	TT#1. 6' BGL	336
H17747-8	TT#1. 7' BGL	48
H17747-9	SP#2. 1' BGL	64
H17747-10	SP#3. 1' BGL	48
H17747-11	SP#4. SURFACE	64
H17747-12	SP#5. SURFACE	<16
H17747-13	SP#6. 1' BGL	32
H17747-14	WEST WALL	16
H17747-15	NORTH WALL	32
H17747-16	FLOOR 7' BGL	32
H17747-17	SOUTH WALL	16
H17747-18	EAST WALL	192
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		<0.1

METHODS: Cl-Std. Methods 4500-ClB

*Analyses performed on 1:4 w:v aqueous extracts. Chloride is not NELAP accredited.


Chemist

07/03/09
Date

H17747 CL SESI

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 ATTN: BOB ALLEN
 703 E. CLINTON, #102
 HOBBS, NM 88240
 FAX TO: (575) 393-4388

Receiving Date: 07/02/09
 Reporting Date: 07/06/09
 Project Number: RAN-09-001
 Project Name: GREENWOOD BATTERY
 Project Location: EUNICE, NM

Sampling Date: 06/26/09, 07/01/09 & 07/02/09
 Sample Type: SOIL
 Sample Condition: COOL & INTACT @ 5 °C
 Sample Received By: AB
 Analyzed By: ZL

LAB NO.	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE:		07/03/09	07/03/09	07/03/09	07/03/09
H17747-1	AH#1. 1' BGL	<0.050	0.063	<0.050	<0.300
H17747-2	AH#1. 2' BGL	<0.050	<0.050	0.117	0.309
H17747-9	SP#2. 1' BGL	<0.050	<0.050	<0.050	<0.300
H17747-10	SP#3. 1' BGL	<0.050	<0.050	<0.050	<0.300
H17747-11	SP#4. SURFACE	<0.050	<0.050	<0.050	<0.300
H17747-12	SP#5. SURFACE	<0.050	<0.050	<0.050	<0.300
H17747-13	SP#6. 1' BGL	<0.050	<0.050	<0.050	<0.300
Quality Control		0.054	0.054	0.057	0.163
True Value QC		0.050	0.050	0.050	0.150
% Recovery		108	108	114	109
Relative Percent Difference		3.6	3.7	1.7	3.7

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight.

Cheryl Keene

 Chemist

07/06/09

 Date

H17747 BTEX SESI

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ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

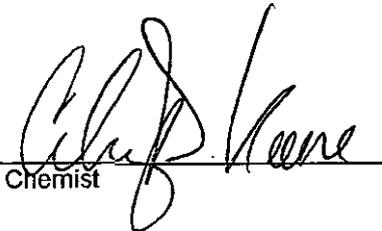
Receiving Date: 07/02/09
Reporting Date: 07/06/09
Project Number: RAN-09-001
Project Name: GREENWOOD BATTERY
Project Location: EUNICE, NM

Analysis Date: 07/06/09
Sampling Date: 06/26/09, 07/01/09, & 07/02/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: AB
Analyzed By: AB

LAB NUMBER SAMPLE ID 418.1
TPH
(mg/kg)

H17747-1	AH#1. 1' BGL	<100
H17747-2	AH#1. 2' BGL	949
H17747-9	SP#2. 1' BGL	<100
H17747-10	SP#3. 1' BGL	155
H17747-11	SP#4. SURFACE	422
H17747-12	SP#5. SURFACE	<100
H17747-13	SP#6. 1' BGL	<100
Quality Control		326
True Value QC		300
% Recovery		109
Relative Percent Difference		3.7

METHOD: EPA 418.1. Reported on wet weight. Not accredited through NELAP for TPH 418.1


Chemist


Date



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ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

Receiving Date: 07/02/09
Reporting Date: 07/10/09
Project Number: RAN-09-001
Project Name: GREENWOOD BATTERY
Project Location: EUNICE, NM

Analysis Date: 07/09/09
Sampling Date: 06/26/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5°C
Sample Received By: ML
Analyzed By: AB

LAB NUMBER SAMPLE ID 418.1
TPH
(mg/kg)

LAB NUMBER	SAMPLE ID	418.1 TPH (mg/kg)
H17747-3	AH#1. 3' BGL	<100
Quality Control		320
True Value QC		300
% Recovery		107
Relative Percent Difference		6.5

METHOD: EPA 418.1. Reported on wet weight. Not NELAP accredited for 418.1 TPH.

Clay Kene
Chemist

07/13/09
Date

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2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SAFETY & ENVIRONMENTAL SOLUTIONS
Project Manager: **BILL TO**

Address: 703 E. CLINTON, #102 State: NM Zip: 88240
City: HOBBS
Phone #: (505) 397-0510 Fax #: (505) 393-4388
Project #: RAN-09-001 Project Owner: Range Ops.
Project Name: Greenwood Battery
Project Location: Eunice, NM
Sampler Name: Brian Cuellar

Company: SAME
Attn:
Address:
City:
State:
Phone #:
Fax #:

Lab I.D.	Sample I.D.	MATRIX			PRESERV.	DATE	TIME	ANALYSIS REQUEST						
		GROUNDWATER	WASTEWATER	SLUDGE OR SOIL				OTHER: (GRAB OR COMP. # CONTAINERS)	ACIDBASE: (ICE/COOL)	OTHER:	CLORID	TRIT 418	BTEX	
H17147-1	AH#1. 1'bg	✓			✓	6-26-09	1248	✓	✓	✓	✓	✓		
-2	AH#1. 2'bg	✓			✓	6-26-09	1300	✓	✓	✓	✓	✓	✓	✓
-3	AH#1. 3'bg	✓			✓	6-26-09	1305	✓	✓	✓	✓	✓	✓	✓
-4	AH#1. 3.7'bg	✓			✓	6-26-09	1315	✓	✓	✓	✓	✓	✓	✓
-5	IT#1. 4'bg	✓			✓	7-1-09	0810	✓	✓	✓	✓	✓	✓	✓
-6	IT#1. 5'bg	✓			✓	7-1-09	0822	✓	✓	✓	✓	✓	✓	✓
-7	IT#1. 6'bg	✓			✓	7-1-09	0844	✓	✓	✓	✓	✓	✓	✓
-8	IT#1. 7'bg	✓			✓	7-1-09	0856	✓	✓	✓	✓	✓	✓	✓
-9	Sp#2. 1'bg	✓			✓	7-1-09	0930	✓	✓	✓	✓	✓	✓	✓
-10	Sp#3. 1'bg	✓			✓	7-1-09	0947	✓	✓	✓	✓	✓	✓	✓

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Sampler Requisitioned: B - Cuellar
Date: 7/2/09
Time: 4:20p
Received By: (Lab Staff) **CSJ**
Date:
Time:
Remarks: Rush Cl

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Sample Condition Temp. °C 50
Intact?
By:
Checked (Initials)
#26
Added BTEX 4/18.1 to #3. 7/9/09 cl

Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.



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ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, #102
HOBBS, NM 88240
FAX TO: (575) 393-4388

Receiving Date: 07/13/09
Reporting Date: 07/13/09
Project Owner: RANGE OPERATING (RAN-09-001)
Project Name: GREENWOOD BATTERY
Project Location: EUNICE, NM

Analysis Date: 07/13/09
Sampling Date: 07/13/09
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 5.5°C
Sample Received By: ML
Analyzed By: AB

LAB NUMBER SAMPLE ID 418.1
TPH
(mg/kg)

H17794-1	SP#4. 6" BGL	<100
H17794-2	SP#5. 1' BGL	<100
Quality Control		326
True Value QC		300
% Recovery		109
Relative Percent Difference		3.6

METHOD: EPA 418.1. Reported on wet weight.

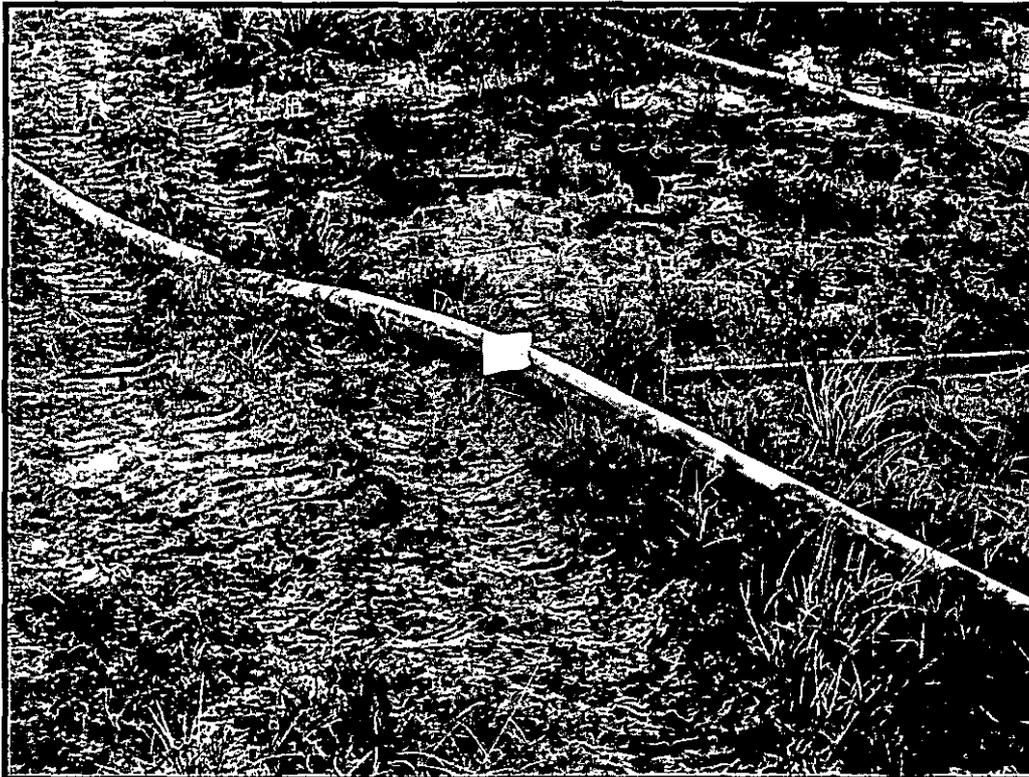


Chemist



Date

**Appendix B
Site Photos**



Auger Hole #1 Facing West



Impacted Area Facing NW



Impacted Area Facing North



Impacted Area Facing North



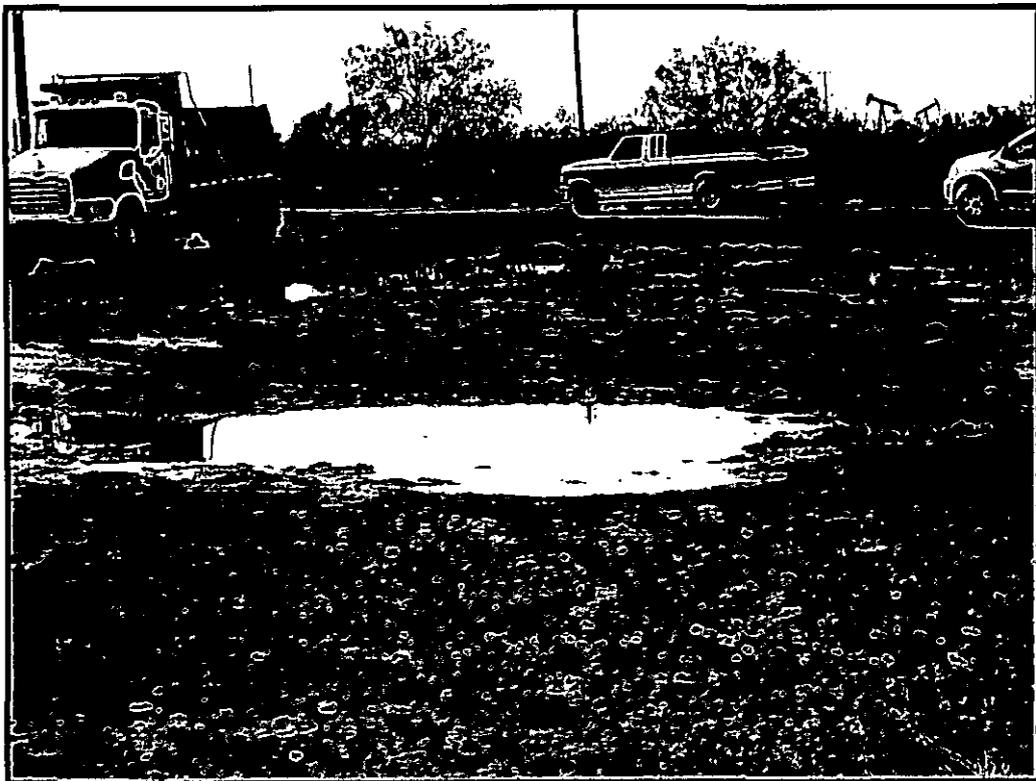
Excavating Test Trench Facing West



Impacted Area Facing West



Impacted Area Facing NW



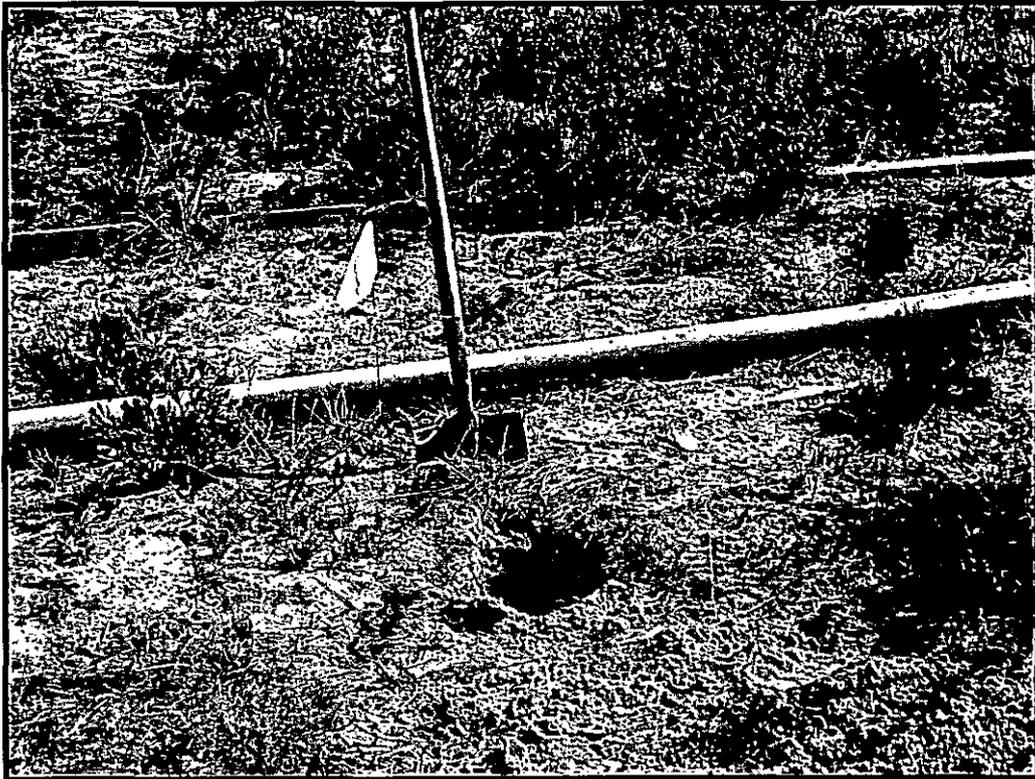
Run Off Area on Location Pad



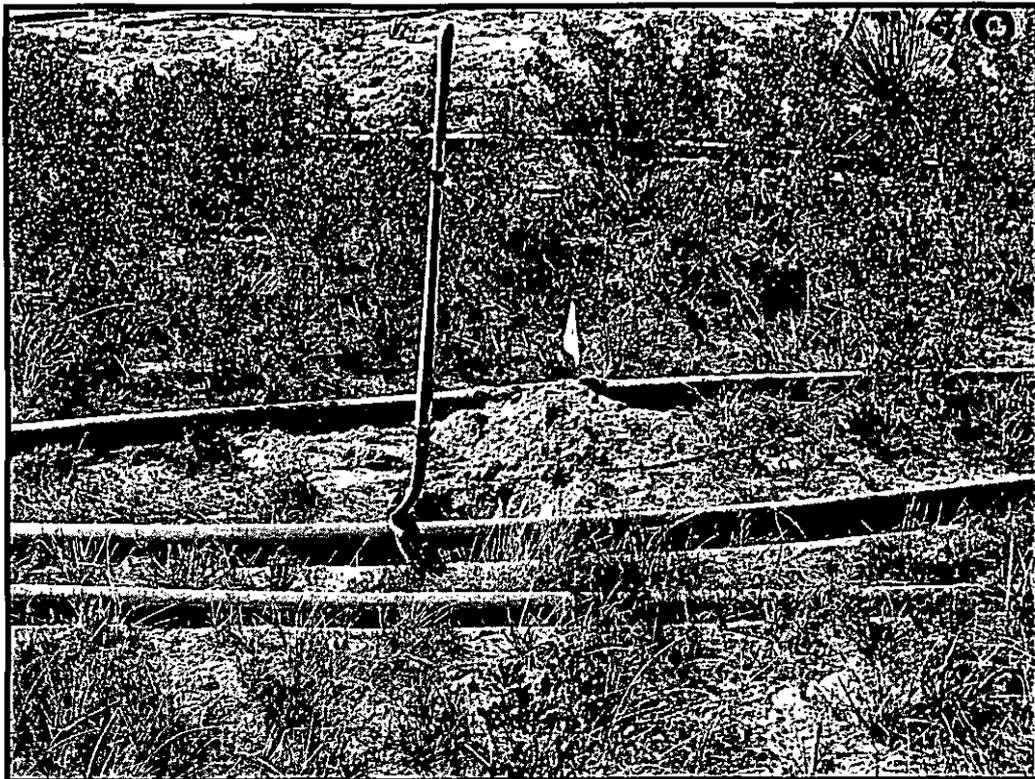
Run Off Area on Location Pad and Edge of Road



Test Trench #1



Sample Point #2



Sample Point #3



Sample Point #4



Sample Point #5



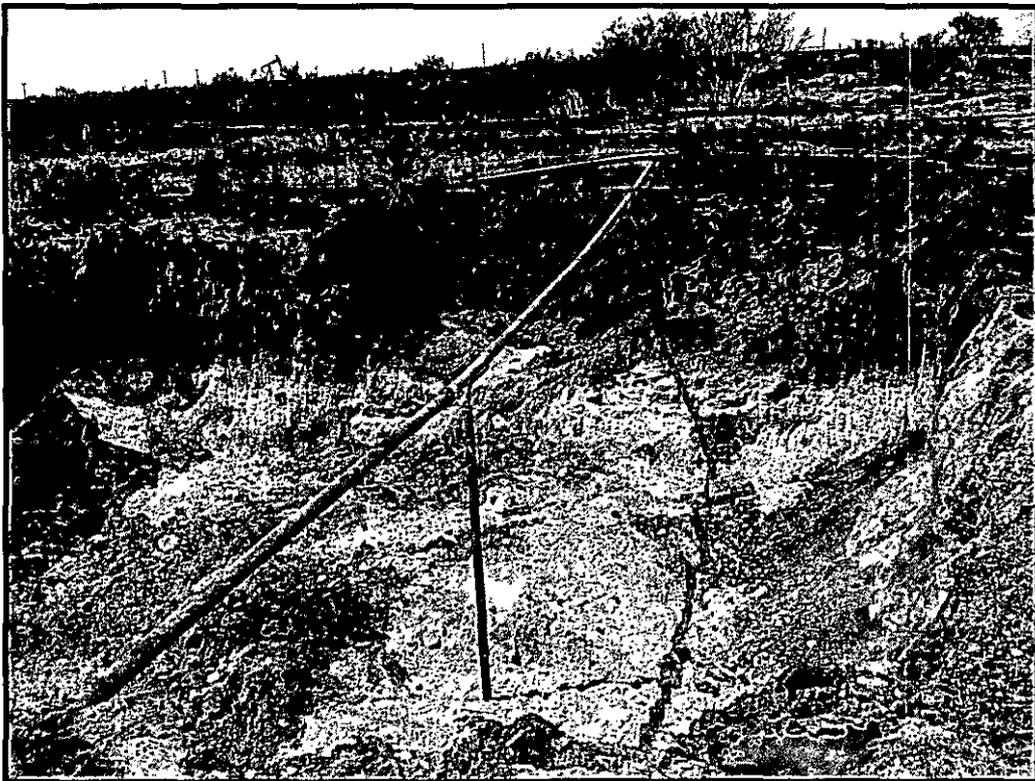
Excavating "Pooling Area" Facing West



Excavating "Pooling Area" Facing East



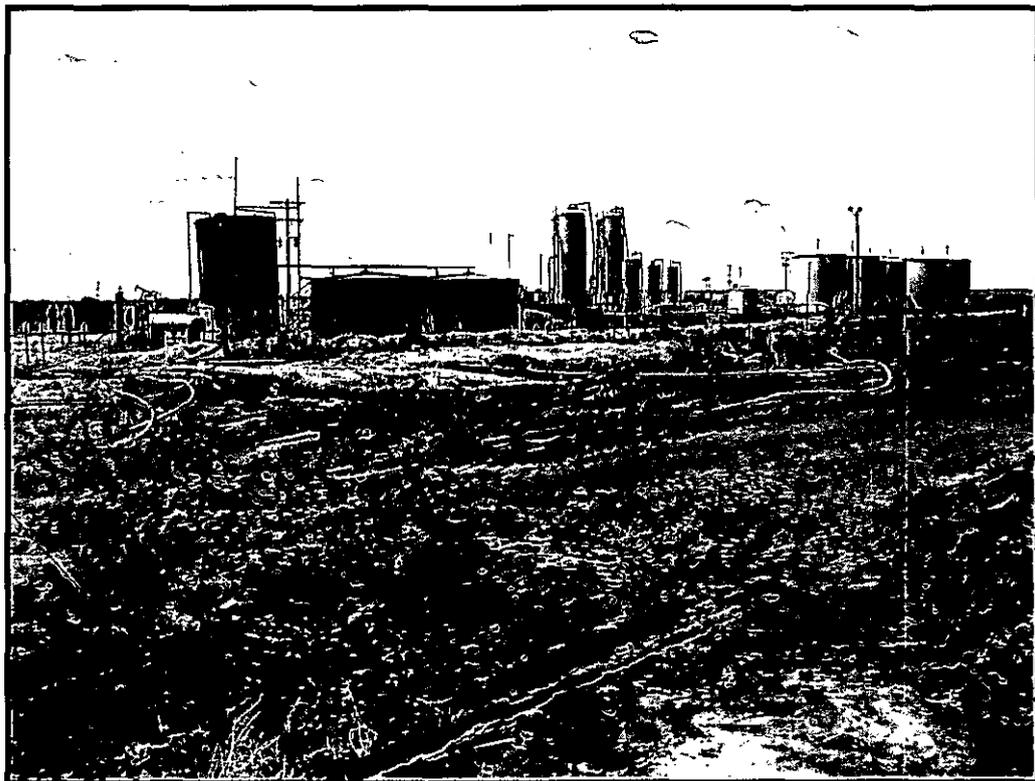
"Pooling Area" Excavated to 7' bgl Facing North



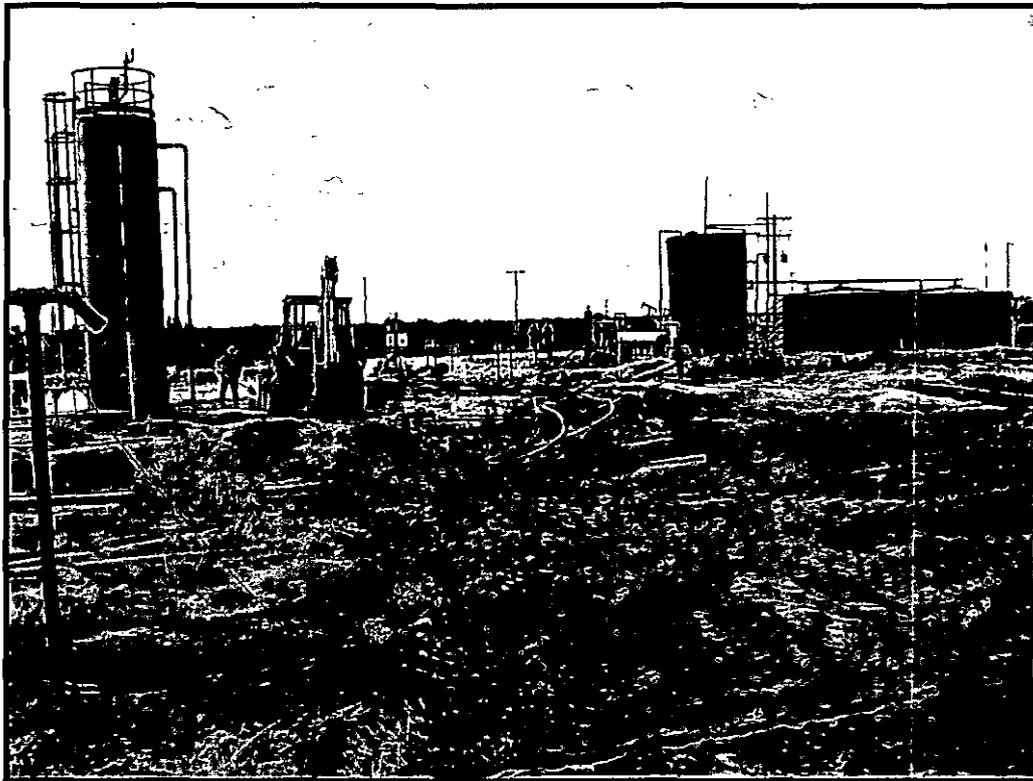
"Pooling Area" Excavated to 7' bgl Facing North



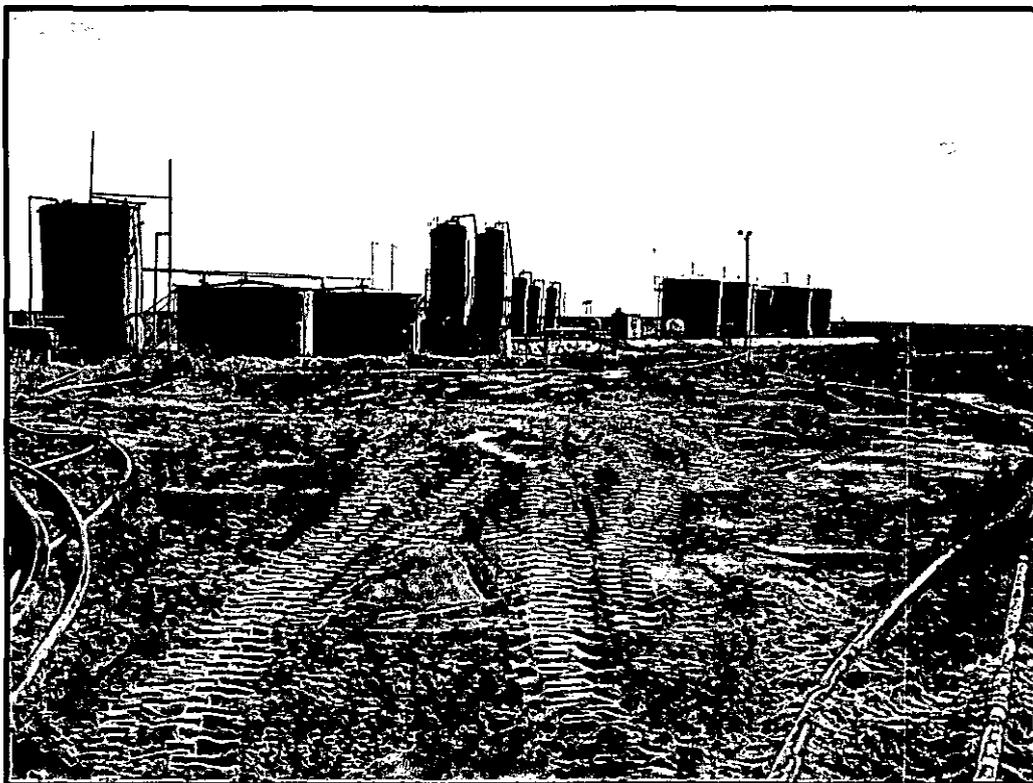
Excavated Area Facing West



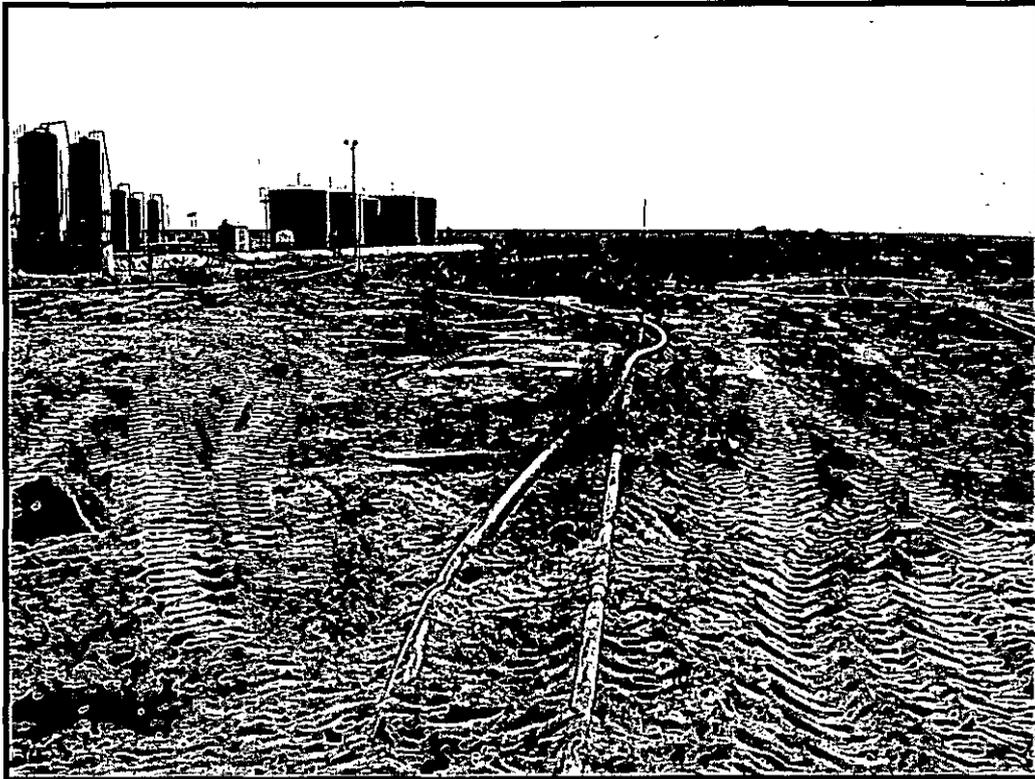
Excavated Area Facing SW



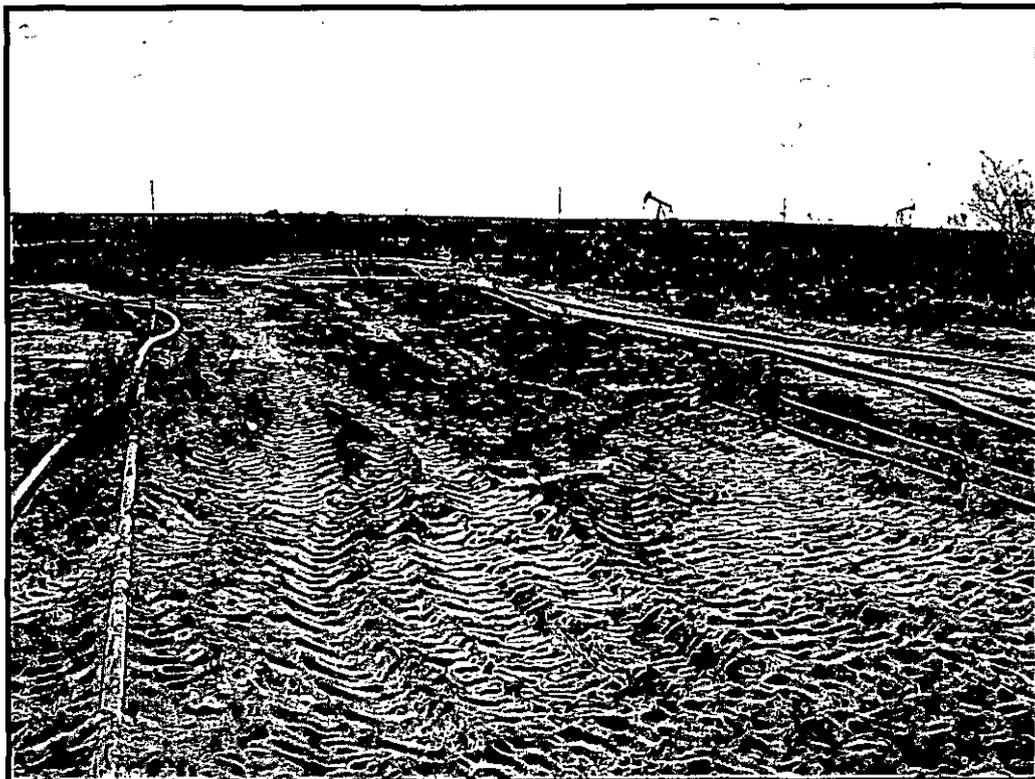
Excavated Area Facing South



Backfilled Excavation Facing SW



Backfilled Excavation Facing West



Backfilled Excavation Facing NW

Appendix C
C-141