

District I

P.O. Box 1980, Hobbs, NM

District II

P.O. Drawer DD, Artesia, NM 88211

District III

1000 Rio Brazos Rd. Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO

APPROPRIATE

DISTRICT OFFICE

AND 1 COPY TO

SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORTOperator: Synergy Operating, LLC Telephone: (505) 325-5449Address: P.O. Box 5513 Farmington, NM 87499Facility Or: Papers Wash Unit # 4 H

Well Name

Location: Unit or Qtr/Qtr Sec L Sec 15 T 12N R 5W County McKinleyPit Type: Separator _____ Dehydrator _____ Other Lined ReserveLand Type: BLM _____, State _____, Fee _____, Other Navajo Allotted

Pit Location: Pit dimensions: Length 85 ft, width 90 ft, depth 6 ft
(Attach diagram)

Reference: wellhead X other _____

Footage from reference: 30 ft

Direction from reference: _____ Degrees _____ East North _____
_____ West South X

Depth to Ground Water: >100 feet _____ Less than 50 feet (20 points)
(vertical distance from _____ 50 ft to 99 feet (10 points)
contaminants to seasonal X Greater than 100 feet (0 points) 0
highwater elevation of
ground water)

Wellhead Protection Area: _____ Yes (20 points)
(less than 200 feet from a private X No (0 points) 0
domestic water source, or: less than
1000 feet from all other water sources).

Distance to Surface Water: _____ Less than 200 feet (20 points)
(Horizontal distance to perennial _____ 200 feet to 1000 feet (10 points)
lakes, ponds, rivers, streams, creeks, X Greater than 1000 feet (0 points) 0
irrigation canals and ditches.)

Distance to nearest ephemeral stream _____ Less than 50 feet (20 points)
Greater than 10 feet in width _____ Less than 100 feet (10 points)
X Greater than 100 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 7/11/00 Date Completed: 7/11/00
Excavation X Approx. cubic yards 0
Landfirmed _____ Insitu Bioremediation _____
Other N/A

Remediation Method: Onsite X Offsite _____
(Check all appropriate sections)

General Description of Remedial Action Integrity of the liner was inspected. The liner was determined To be intact with minor tears along the top area of the pit. Soil samples were extracted From areas where tears occurred and directly below the liner at the bottom of the pit. All samples provided results exceeding Navajo EPA, NMOCD, and BLM Guidelines.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit:
Closure Sampling
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)

Sample location Center Bottom

Sample depth 6 feet

Sample date 7/11/00

Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 3

TPH <40

Ground Water Sample: Yes _____ No X (if yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETED TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 9/4/2000 PRINTED NAME Frank McDonald

SIGNATURE [Signature] and TITLE Environmental Specialist

Client: Synergy Operating, LLC

Date Began: 7/11/2000 Date End: 7/11/2000

Location: <u>Papers Wash Unit # 4 H</u>		Site Diagram:																																		
Unit Letter: <u>"L"</u> Sec. <u>15</u> Twn. <u>19N</u> Rng. <u>5W</u> Lease # <u>NOOC-14-20-5377</u> ; McKinley County, NM Pit Reference from <u>Wellhead:</u> <u>30 ft South</u> Pit: <u>Lined Reserve</u>																																				
Initial size: <u>85' x 90' x 6' deep</u>																																				
Final Size: <u>85' x 90' x 6' deep</u>																																				
Total Cubic Yards: <u>0</u>																																				
Distances from (ft): <u>0</u>																																				
Groundwater: <u>>100 ft</u>																																				
Wellhead Protection Area: <u>>1000 ft</u>																																				
Nearest Surface Water: <u>>1000 ft</u>																																				
Distance to ephemeral stream: <u>>1000 ft</u>																																				
Ranking Score (points): <u>0</u>																																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Sample Depth (ft)</th> <th>OVM Reading</th> </tr> </thead> <tbody> <tr><td>1</td><td>ctr botm @ 6'</td><td>3 ppm</td></tr> <tr><td>2</td><td>SW corner @ 6'</td><td>non-detect</td></tr> <tr><td>3</td><td>SE corner @ 6'</td><td>non-detect</td></tr> <tr><td>4</td><td>E wall @ 6'</td><td>non-detect</td></tr> <tr><td>5</td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td></tr> </tbody> </table>				Sample ID	Sample Depth (ft)	OVM Reading	1	ctr botm @ 6'	3 ppm	2	SW corner @ 6'	non-detect	3	SE corner @ 6'	non-detect	4	E wall @ 6'	non-detect	5			6			7			8			9			10		
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7																																				
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9																																				
10																																				
Comments: Topography is flat. Soil is a brown sand with some clay loam. Sample # 1 was extracted from below the liner. Samples 2, 3, & 4 were extracted from areas where the liner was not intact on the top, all other areas liner was intact. Sample from center bottom @ 6 ft sent to IML for 8015																																				

Environmental Specialist: FM



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Synergy Operating, LLC

Project: Papers Wash #4 Pit

Sample ID: Center Bottom @6ft

Lab ID: 0300S02774

Matrix: Soil

Condition: Cool/Intact

Date Reported: 07/24/00

Date Sampled: 07/11/00

Date Received: 07/12/00

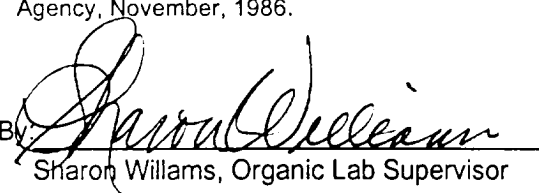
Date Analyzed: 07/18/00

Parameter	Analytical Result	PQL	Units
DRO - Method 8015AZ			
Diesel Range Organics (C10 - C22)	<20	20	mg/Kg
Diesel Range Organics as Diesel	<20	20	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
o-Terphenyl(SUR-8015)	99	70 - 130

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:


Sharon Williams, Organic Lab Supervisor



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Matrix: Soil

Condition: Cool/Intact

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Date Sampled: 07/11/00

Date Received: 07/12/00

Date Analyzed: 07/18/00

Parameter	Analytical Result	PQL	Units
GRO - METHOD 8015AZ			
Gasoline Range Organics(C6-C10)	<20	20	mg/L
Gasoline Range Organics as Gasoline	<20	20	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015B)	73	70 - 130

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:


Sharon Williams, Organic Lab Supervisor



Inter-Mountain
Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name			Project Location		ANALYSES / PARAMETERS							
Sampler: (Signature)			Chain of Custody Tape No.		Remarks							
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers							
2000-000000	11/10/00	1500	2774	Soil	1	8015						
<div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div> <div>Relinquished by: (Signature) _____</div>												
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Inter-Mountain Laboratories, Inc.

555 Absaraka
Sheridan, Wyoming 82801
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1633 Terra Avenue
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Farmington, NM 87401
Telephone (505) 326-4737

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College Station, TX 77845
Telephone (979) 776-8945



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Synergy Operating, LLC
Project: Papers Wash Navajo Remediation
Sample ID: Navajo Remediation
Lab ID: 0300W02993
Matrix: Soil
Condition: Cool/Intact

Date Reported: 08/08/00
Date Sampled: 07/22/00
Date Received: 07/24/00

Parameter	Analytical Result	PQL	Units
DRO-Method 8015AZ			
Diesel Range Organics (C10 - C22)	440	20	mg/Kg
Diesel Range Organics as Diesel	440	20	mg/Kg
Quality Control - Surrogate Recovery			
o-Terphenyl(SUR-8015)	82	70 - 130	

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By: 

William Lipps



Inter-Mountain Laboratories, Inc.

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2506 West Main Street, Farmington, NM 87401

Client: Synergy Operating, LLC
Project: Papers Wash Navajo Remediation
Sample ID: Navajo Remediation
Lab ID: 0300W02993
Matrix: Soil
Condition: Cool/Intact

Date Reported: 08/08/00
Date Sampled: 07/22/00
Date Received: 07/24/00

Parameter	Analytical Result	PQL	Units
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GRO - METHOD 8015AZ

Gasoline Range Organics(C6-C10)	<5	5	mg/Kg
Gasoline Range Organics as Gasoline	<5	5	mg/Kg

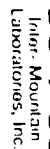
Quality Control - Surrogate Recovery	%	QC Limits
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4-Bromofluorobenzene(SUR-8015B)	88	70 - 130
Total Purgeable Hydrocarbons	0	

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

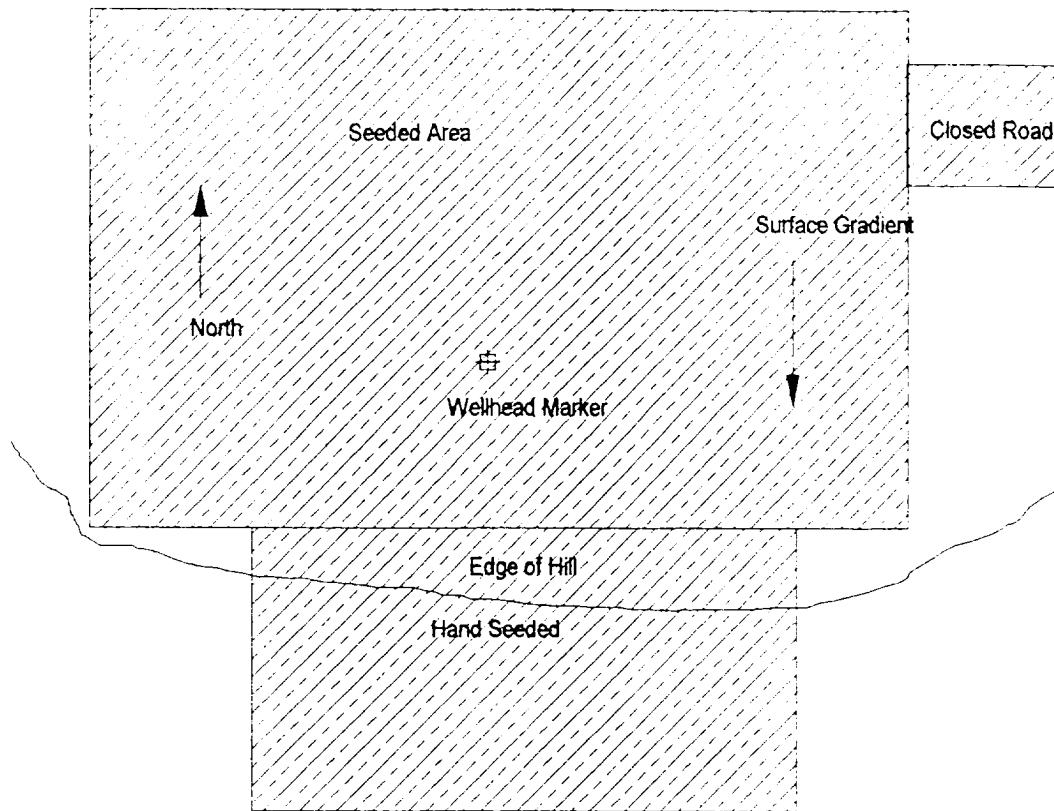
Reviewed By: 

William Lipps



CHAIN OF CUSTODY RECORD

[illegible]



Company: Synergy Operating, LLC

Location: Papers Wash Unit # 4 H

Legal Description: 2310' FSL & 990' FWL ("L"), Section 15, T19 N, R5W, NMPM

County: McKinley

State: NM

Lease #: NOOC-14-20-5377

Area Seeded: Approximately 2 acres (includes road) **Seed Mix:** BLM Mix # 6 (BIA)

Seed Rate: 8 PLS Lbs/ Acre

Seed Process: Drill X Hand X Other _____

Seed Bag Number: 2

Date of Seeding: August 4, 2000

Was location ripped before seeding? Yes X No _____ If No, describe _____

Topography: Flat, closed road was located on a hill, road closure was established with appropriate water bars.

Comments: The reserve pit was located on the side of the hill and was redeeded by hand at twice the prescribed rate.