# NM1-11

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**C-138** 

Date: 1999

District I - (505) 393-6161       New Mexico         P.O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         Stit S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         Piorter III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	ON Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: X Non-Exempt: C ひゃねぞ だいまて 1. RCRA Exempt: A Non-Exempt: C ひゃねぞ だいまて し 28.99	4. Generator Cross Timpors
Verbal Approval Received: Yes 🔀 No 🗋	5. Originating Site Roy Sullivan C#1
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Easilysfeed
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Dass Maxico
7. Location of Material (Street Address or ULSTR)	"N" Sac 28, - T2904, RIOW
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accept accept accept on exempt wastes must be accept proved.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept proved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Soil &amp; Excolsion (Aspan Fibor) contents</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by d for transport. DECENNEDJUL - 1 1999 OIL CONDO DIV EN HANCE DET 4/14/01
SIGNATURE: <u>Waste Management FacilityAuthorized Agent</u> Harlan M. Brown TEL	Manager         DATE:         6 · 30 · 9 9           LEPHONE NO.         505-632-0615
(This space for State Use) APPROVED BY: Demy B: Town TITLE: GCOL APPROVED BY: Branch TITLE:	DATE: DATE:

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#### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Cross Timbers Operating Company 6001 Highway 64	Envirotech Soil Remediation Facility Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name): Loc	ation of the Waste (Street address &/or ULSTR):
Sullivan Gas Com C # 1 S	AME
Unit N – Sec 28 – T29N – R10W	
San Juan County, NM	
Attach list of originating sites as appropriate	
4. Source and Descripton of Waste	
Crude oil contaminated excelsior (aspen fiber) & soil	
I, Tony L. Sternberger	representative for:
Cross Timbers Operating Company	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's
July, 1988, regulatory determination, the above desc	cribed waste is: (Check appropriate classification)
	ON-EXEMPT oilfield waste which is non-hazardous haracteristic analysis by product identification
and that nothing has been added to the exempt non	-hazardous waste defined above.
For NON-EXEMPT waste only the following documen	
MSDS Information ——— RCRA Hazardous Waste Analy	Other (description):
Chain of Custody	
1 117-	>
Name (Original Signature):	>
Title: Production Foreman	
Date: 6/30/99	

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District I - (505) 393-6161 P-O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Ptrict III - (505) 334-6178 ) Rio Brazos Road Curc, NM 87410 District IV - (505) 827-7131 New Mexico Energy Minerals and Natural Resource Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Submit Original			
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE			
1. RCRA Exempt: Non-Exempt: 6-36-99	4. Generator Conoco INC.			
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Fare Bundatts ()			
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Darso Tracking			
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Dime Ulessico			
7. Location of Material (Street Address or ULSTR)	"6" Socq, TBON, RIIW SJC. NA			
<ul> <li>9. <u>Circle One:</u></li> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Dwilling muchs developed doring a walk work over the form of the for</li></ul>				
Estimated Volume <u>240 bbls</u> cy Known Volume (to be entered by the operator at the end of the haul) <u>400 bbls</u> cy SIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm Manager DATE: <u>6.30.99</u> TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TELEPHONE NO. <u>505-632-0615</u>				
(This space for State Use) APPROVED BY: Demy & Town TITLE: Geolo APPROVED BY: EB. TITLE:	9/37 DATE: DATE:			

Danny Foust 6.30.99 15:15

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### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Conoco	
3315 Bloomford Hwy	Envirotech Soil Remediation Facility
FArmington Due derico \$7401	Landfarm #2 <u>H</u> i <u>lltop, New Mexico</u>
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
FAYE BURDETTE #1	SAME
"G" SER TBON R (IW	
Saras Juan Country.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Drilling muds daucloped	derice a wall work over
I, <u>Shirley L. EBERT</u> (Print Name) CONOCO INC.	representative for:
CONOCO INC.	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)

 $\underline{\times}$  EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

\_\_\_\_ Other (description):

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- \_\_\_\_ MSDS Information
  - RCRA Hazardous Waste Analysis
  - \_\_\_\_ Chain of Custody

Name (C	riginal Signature): Kurly L. Eburt	
	SHEAR Specialist	
Dat <del>e</del> :	7/1 /99	

District I - (505) 393-6161 P. O. Box 1990 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P'-trict III - (505) 334-6178 VRio Brazos Road 	DN JUL (1999 Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator District
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Hoese Comen Rectain
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter WFS
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State DEw Maxico
7. Location of Material (Street Address or ULSTR)	Sec. 26. TJON ROW SJC NW
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted and the generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Continuation of reboiler sloge distribution.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by d for transport.
	CONS6 DOV.
SIGNATURE: Harlan M. Brown TITLE: Landfarm M. Brown TEL	Manager       DATE: 6 25.99         .EPHONE NO.       505-632-0615
(This space for State Use) APPROVED BY: Demy S. Fant TITLE: GEOLOG APPROVED BY: Martym glub- TITLE: Environm	DATE: 0/25797 muta (Geologst DATE: 27/1/99

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District I - (505) 393-6161 O. Sox 1980 Yebs, NM 88241-1980 District II - (505) 748-1283 11 S. First rtesia, NM 88210 "trict III - (505) 334-6178 Nio Brazos Road c, NM 87410 Histrict IV - (505) 827-7131	Oil C 204	New Mexico nd Natural Resource Conservation Division to South Pacheco Street a Fe, New Mexico 8750. (505) 827-7131	on	Form C-138 Originated 8/8/95 Submit Original Plus 1 Copy to appropriate District Office
	REQUEST FOR APP	PROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt:	Non-Exempt:		4. Generator	Man Boueres District
Verbal Approval Rece	ived: Yes 🗋	No 🔀	5. Originating Site Hoes	E Congan Receart
2. Management Facility	Destination Enviroted Facilit	ch Soil Remedia. ty Landfarm #2	6. Transporter	
3. Address of Facility Op	erator 5796 US Hi Farmingtor	ighway 64 n, NM 87401	8. State DEw Hay	ci c o
7. Location of Material (S	Street Address or ULSTR)	·	Sec. 26. TSON ROW	SJC NW
9. <u>Circle One</u> :				
PROVE the mater listing or testing w All transporters must co BRIEF DESCRIPTION OF Could must TCL P	ial is not-hazardous and th ill be approved. ertify the wastes delivered MATERIAL: i on of reboil & Norms Art-	he Generator's certification I are only those consigner ov slugge di foched.	Spo34<	hazardous by
. (HSD	s for products t	not may be in	Indad have been so	finitted
د.	sith pravious C	2·138'5). 0	ECEIVED	
		0	IL CON. DIV. DIST. 3	
Estimated Volume	bb(. cy Known Volur	ne (to be entered by the op	erator at the end of the haul)	су
SIGNATURE:	gement FacilityAuthorized Agent Harlan M. Brown	TITLE: Landfarm 1	Manager DATE:	•
(This space for State Us APPROVED BY:	so) my g. Zou	TITLE: Geolo	<u>oçis</u> <b>date</b> : (c	125794
APPROVED BY:			DATE:	

T	•	-	•		
	L		1	-	•
			-		

DATE:\_\_

## **CERTIFICATE OF WASTE STATUS**

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1. Generator Name and Address: WFG. Wan Zawares District.	2. Destination Name:
295 CHIPETAWAY	Envirotech Soil Remediation Facility
Salt. Lale City, What Strop	Landfarm #2
والمستحد المستجد والمستعد والمستعد والمستعد والمتعادية والمتعادة والمتكر فتتحا المتحاد والمستعد والمتعار فالتراف المستعد	<u>Hilltop, New Mexico</u>
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Horase Canyon Reclaimen	
Sec. 26 T30N R9W	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Continuation of Rebeiler	Sludge
	2-
	······································
1, Bill BEEVERS (Print Name) Williams Field Services	representative for:
(Print Name)	
Williams Field Services	do hereby certify that,
-	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
EXEMPT oilfield waste $\chi$ NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic
	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum	
MSDS Information RCRA Hazardous Waste Analysis	Other (description):
Chain of Custody	
	· · · · · · · · · · · · · · · · · · ·
Rip	
Name (Original Signature): Kenne	

Title: DEHy Specialist Date: 6/16/99

•	Liess Equipment & Servic Lompony, Inc. 5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 • 87499 FARMINGTON, NEW MEXICO PHONE: (505) 327-2222 • FAX: (505) 327-7550
	Facility/Location: HORSE ANYON RECLAIMER Date: 1-7-99
	, i i i i i i i i i i i i i i i i i i i
	Meter Model: 3007A Serial No.: 9808-238
	Detector Type: [ ] Model 3012 Serial No.: 201-887-7100
	[ ] Model Serial No.:
:	Battery Check [ ] Source Check [ ]
	Calibration Date: 3-11-98
	Source Type: GOCPM = Millerehms
	Background Radiation Level: 20 mieroR/hr
	Description of Equipment/Material Surveyed: <u>Solid WASte</u> Item/Material Surveyed (Description, Serial Number, Size Quantity, etc.) <u>Reboilee Sludge</u> <u>I SS gal Drum</u> <u>Naximum microR/hr.</u> <u>Naximum microR/hr.</u> <u>Naxim</u>
	Survey(s) Conducted By: Aky Howe (Pfint Name) Awy New (Signature)

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#### TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL CONCENTRATION

Client: Project: Sample ID: Laboratory ID: Sample Matrix:

STREAM STREAM STREAM

Williams Field Services Horse Canyon Reclaimer Horse Canyon Reclaimer 0398G06149 Solid

Date Reported:	11/02/98
Date Sampled:	10/20/98
Date Received:	10/20/98
Date Analyzed:	11/02/98

				l guer
Arsenic	<0.061	0.061	5	mg/L
Barium	0.80	0.001	100	mg/L
Cadmium	<0.008	0.008	1	mg/L
Chromium	0.027	0.008	5	mg/L
Lead	<0.04	0.04	5	mg/L
Mercury	<0.0004	0.0004	0.2	mg/L
Selenium	<0.05	0.05	1	mg/L
Silver	<0.03	0.03	5	mg/L

References:

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846 "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods" 3rd Edition, Final Update III, December, 1996.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846 "Test Methods for Evaluating Solid Waste: Physical/ Chemical Methods" 3rd Edition, Final Update III, December, 1996.

**Comments:** 

Reported By

Reviewed:

NOV 05 '98 04:33PM IML Inter Mountain Laboratories, Inc.

> 2505 W. Main Street Farmington, New Mexico 97401

#### VOLATILE ORGANIC TOXICITY CHARACTERISTIC LIST TCLP Leachate Method 8260

Client	Williams Field Services		
Project:	Horse Canyon Reclaimer	Date Reported:	11/03/98
Sample ID:	Horse Canyon Reclaimer	<ul> <li>Date Sampled:</li> </ul>	10/20/98
Laboratory ID:	0398G06149	Date Received:	10/20/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98

Benzene	ND	0.10	0.5	mg/L
Carbon Tetrachloride	ND	0.10	0.5	mg/L
Chlorobenzene	ND	0.10	100	mg/L
Chloroform	ND	0.10	6.0	mg/L
1.2-Dichloroethane	ND	0.10	7.5	mg/L
1,1-Dichloroethylene	ND	0.10	0.5	mg/L
1.4 Dichlorobenzene	ND	0.10	0.7	mg/L
Methyl Ethyl Ketone (MEK)	0.55	0.10	200	mg/L
Tetrachloroethylene	ND	0.10	0.7	mg/L
Trichloroethylene	DN	0.10	0.5	mg/L
Vinyl chloride	ND	0.10	0.2	mg/L

ND- Analyte not detected at stated detection level.

Reported By:

Reviewed:\_\_\_\_\_

inter Mountain Laboratories, inc.

2 2508 W. Main Streat Fermington, New Mexico 87401

#### SEMI-VOLATILE ORGANICS /TCLP TCLP Leachate Method 8270

Client:	Williams Field Services		
Project:	Horse Canyon Reclaimer	Date Reported:	11/03/98
Sample ID:	Horse Canyon Recalimer	Date Sampled:	10/20/98
Laboratory ID:	0398G06149	Date Received:	10/2 <b>0/98</b>
Sample Matrix:	Solid	Date Analyzed:	11/02/98

ND	1.0	200	mg/L
ND	0.10	0.13	mg/L
ND	0.10	0.13	mg/L
ND	0.20	0.5	mg/L
ND	0.10	3.0	mg/L
ND	0.50	2.0	mg/L
ND	0.20	100	mg/L
ND	0.50	5.0	mg/L
ND	0.50	400	mg/L
ND	0.50	2.0	mg/L
	ND ND ND ND ND ND ND	ND         0.10           ND         0.10           ND         0.20           ND         0.10           ND         0.50           ND         0.50           ND         0.50           ND         0.50           ND         0.50           ND         0.50	ND         0.10         0.13           ND         0.10         0.13           ND         0.20         0.5           ND         0.10         3.0           ND         0.50         2.0           ND         0.20         100           ND         0.50         5.0           ND         0.50         5.0           ND         0.50         400

ND - Analyte not detected at stated detection level.

Reviewed: U

2508 W. Main Street Farmington, New Mexico 87401

#### TCLP HERBICIDES TCLP Leachate Method 8150A

Client	Williams Field Services		
Project	Horse Canyon Reclaimer	Date Reported:	11/03/98
Sample ID:	Horse Canyon Recalimer	Date Sampled:	10/20/98
Laboratory ID:	0398G06149	Date Received:	10/20/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98

2,4-D	ND	0.01	10	mg/L
2,4,5-TP (Silvex)	ND	0.003	1.0	mg/L

ND - Analyte not detected at stated detection level.

Reported By:

Reviewed:

NOV 05 '98 04:35PM IML

2508 W. Main Street Fermington, New Mexico 97403

#### TCLP PESTICIES TCLP Leachate Method 8080A

Client	Williams Field Services
Project	Horse Canyon Reclaimer
Sample ID:	Horse Canyon Recalimer
Laboratory ID:	0398G06149
Sample Matrix:	Solid

11/03/98
10/20/98
10/20/98
11/02/98

gamma-BHC (Lindane)	ND ND	0.01 0.01	0.04 0.03	mg/L mg/L
Chlordane Endrin	ND	0.01	0.02	mg/L
Heptachlor	ND	0.005	0.008	mg/L
Heptachlor Epoxide	ND	0.005	0.008	mg/L
Methoxychlor	ND	0.01	10.0	mg/L
Toxaphene	ND	0.01	0.5	mg/L

ND - Analyte not detected at stated detection level.

Reported By:

Reviewed: 407



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## CHAIN OF CUSTODY RECORD

Cilent/Project Name	D SER,	2321		ect Location		lainee		1	ANALI	SES /	PARA	METERS	; ;	
Sampler: (Signature) Bie Bau	<u> </u>			ustody Tape I			1	76.6		/ /	/ /	/ Rema	rks	
Sample No./ Identification	Date	Time	Number		Matrix		No. of Containers	full 7 w-1960		-		<u></u>		
Hotre Conyou	10/20/28	12007	+	REBO	IR S	olids	5	$\boldsymbol{\boldsymbol{Z}}$				Isan	male	
- Reclaimer	<u>'\'</u>	) ‡			<u> </u>								/	
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	<u>}</u>	+ ~	Q		+	3		KX.				hom	d del	-
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Relinquished by: (Signature) Bill Been		ر دم ر دم الم س		Date	Time	Received	by: (Sig	 nature)	·	L			Date	Time
Relinquished by: (Signature)				Date	Time	Beceived	by: (Sig	nature)					Date	Time
Relinquished by: (Signature)				Date		Received	by labor	ratory: (S	ignature) Ray	men	]		Date 10-10-98	Time 1530
		I	nter-Mount	ain Labo					F					
1633 Terra Avenue Sheridan, Wyoming 828 Telephone (307) 672-89	01 Gille	I Phillips Ciro Itte, Wyoming phone (307)	cle 2506 3 82718 Farm	6 West Main Si nington, NM 87 phone (505) 32	reet 7401	1160 Rese Bozeman, Telephone	arch Di Montan	a 59718	Coll	83 State ege Stati	ion, TX 7	77845	579	71

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District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         P' trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:       Non-Exempt:       Domar Foust         Verbal Approval Received:       Yes X       No         Envirotech Soil Remedia.	4. Generator Rin OPERATING. 5. Originating Site Contral TANK BAST Terr
2. Management Facility DestinationEnviroteen Sofr Remedia. Facility Landfarm #23. Address of Facility Operator5796 US Highway 64 Farmington, NM 87401	6. Transporter VARIOUS ENVIROTRICH 8. State Colo, -> NM.
7. Location of Material (Street Address or ULSTR)	Sac 14, T33/2 N- 1820W Montegumer Country Co.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted and the generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Clear pof product &amp; water celear</li> <li>DEC JUN</li> <li>OIL CONTRACT</li> </ul>	ompanied by necessary chemical analysis to in of origin. No waste classified hazardous by d for transport.
Estimated Volume <u>300</u> cy Known Volume (to be entered by the op SIGNATURE: <u>Waste Management FacilityAuthorized Agent</u> TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TEL	
(This space for State Use) APPROVED BY: 1 2 M TITLE: Geo/ APPROVED BY: 2 2 TITLE:	<u>o g is</u> DATE: <u>6/25/99</u> DATE:

### **CERTIFICATE OF WASTE STATUS**

1	Generator Name and Address:	2. Destination Name:
	RIM OPERATING 5 Inverness Drive East Englewood, CO 80112	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Roadrunner Central Tank Batte SEC 14 - T33½N - R20W Montezuma, CO Attech list of originating situs as appropriate	ry
4.	Source and Description of Waste	
	Upset from tank rupture; soil 200 barrels of oil and water	contaiminted with approximately
L		

, William J. Holcomb

(Print Name)

representative for:

1 4

RIM Operating do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

X EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items): Other (description):

1

- **MSDS** Information
- **RCRA Hazardous Waste Analysis**
- Chain of Custody

Name	(Original	Signatu	ıre):	W.g. He	ht
Title:	Agent	for	RIM	Operating	

Date: June 23, 1999



## UTE MOUNTAIN UTE TRIBE

Towaoc, Colorado 81334 (970) 565-3751

June 23, 1999

Mr. W.J. Holcomb Rim Operating 5 Inverness Drive East Englewood, Colorado 80112

Re: Notification of Transportation of Petroleum Contaminated Soil, exempt Roadrunner Section 14 Tank Battery, Ute Mountain Ute Reservation

Dear Mr. Holcomb:

Thank you for notifying the Ute Mountain Ute Environmental Programs Department of the transportation of oil field waste from the above referenced site to an approved disposal site in New Mexico. It is our understanding that petroleum contaminated soil will be removed to the Envirotech disposal facility in Farmington, New Mexico.

Certification may be required by the State of New Mexico Oil Conservation Commission (NMOCD) from your company, the transporter or the generator. Transportation of this waste may be subject to other state and federal laws. The Ute Mountain Ute Tribe accepts no liability associated with the disposal of this waste.

Sincerely,

Cindy Crist/Director Environmental Programs Department Ute Mountain Ute Tribe

Cc: Harlan Brown, Envirotech Gordon Hammond, UMU Energy Department Ilyse Auringer, BLM

District I - (505) 393-6161 P. O. 500: 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Platrict III - (505) 334-6178 New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	ON Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔀 Non-Exempt:	4. Generator EPFS.
Verbal Approval Received: Yes 🛄 No 🛄	5. Originating Site Compare Stateon
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essuinatech.
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Naw Marcico.
7. Location of Material (Street Address or ULSTR)	SE4 SE4 Sac 16, TZ72, RGW Rio Arriba Country, Dew Hopico.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept accept accept and the generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept accept and the generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:</li> <li>B. Buycal contact marked Soil</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) Cy
SIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm M Waste Management FacilityAuthonized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TEL	Manager       DATE: 6.2.99         .EPHONE NO.       505-632-0615
(This space for State Use)	
APPROVED BY: 5 2 TITLE: TITLE:	DATE:

:

### **CERTIFICATE OF WASTE STATUS**

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1. Generator Name and Ad	dress:	2. Destination Name:
El Paso Field Serv	vices Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue		Landfarm #2
Farmington, NM		Hilltop, New Mexico
3. Originating Site (name):	Ĺc	cation of Waste(Street address &/or ULSTR):
Martinez Canyon Station	S	E/4 of the SE/4, Section 16, T27N, R6W
		io Arriba County, New Mexico
Attach list of originating sites as		
4. Source and Description of	of Waste	
Glycol carryover from the na	itural gas dehydrator	
I. Da	avid Bays	representative for:
	nt Name)	
El Paso	Field Services	Co do hereby certify that,
according to the Resource C	onservation and Recov	very Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
<u>X</u> EXEMPT Oilfield wa		-EXEMPT oilfield waste which is non-hazardous by acteristic analysis or by product identification
and that nothing has been a	dded to the exempt or r	non-hazardous waste defined above.
		nentation is attached (check appropriate items):
	ny, the following docum	ientation is attached (check appropriate items).
	Information	Other (description)
	Hazardous Waste Ana of Custody	llysis
	^	
Name (Original Signature	): Wanie	Bay
Title:	Principal Er	avironmental Scientist
Date:	May 11, 19	99

District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         Victor III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator NATLO
Verbal Approval Received: Yes 🔀 No 🛄	5. Originating Site Mard Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envivetech
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Name Matrico
7. Location of Material (Street Address or ULSTR)	2855 Southgide River Rd.
9. <u>Circle One</u> :	FARmington, Nu 87401
Equipment locations alled.	n of origin. No waste classified hazardous by d for transport. olids goverated during oduction equipment. JUN 2 5 1999 OIII GOINO DIVO DISTO 3
SIGNATURE: Waste Management FacilityAuthorized Agent Waste Management FacilityAuthorized Agent	
(This space for State Use) APPROVED BY: Demp 3: Com TITLE: Geolog 100k a to NORM Survey APPROVED BY: EBuck TITLE:	9/3 DATE: 6/25799 DATE:

## **CERTIFICATE OF WASTE STATUS**

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1. Generator Name and Address:	2. Destination Name:
National Tank Co.	
2855 Southside River Road	Envirotech Soil Remediation Facility
Farmington N.M.	Landfarm #2
3. Originating Site (name):	Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR):
	•
Solids generated during the cleani	ng of oil and gas production equipment at
NATCO, s yard	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Contaminated dirt and sluge, see a	attatched List
·	
1 I tall of a	Janan Lassing representative for:
(Print Name)	distant - factore * representative for:
NATCO	do hereby certify that,
	overy Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above describ	ed waste is: (Check appropriate classification)
	•
X EXEMPT oiltieki waste NON-EX	<b>(EMPT oilfield waste which is non-hazardous by characteristic</b>
	<b>KEMPT</b> oilfield waste which is non-hazardous by characteristic s or by product identification
analysis	s or by product identification
	s or by product identification
analysis and that nothing has been added to the exempt or	s or by product identification non-exempt non-hazardous waste defined above.
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following do	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items):
analysis and that nothing has been added to the exempt or	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following do MSDS Information	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following do MSDS Information RCRA Hazardous Waste Analysis	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following do MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following do MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following dou MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following do MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following dow MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	s or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):

	WASTE SOLIDS	
COMPANY	LOCATION	
	LUCATION III	JOB NUMBER
Budlington		73016845
	<u> </u>	730/6944 .
	T 554	
NASSAU	CU 27-7 # 14 6449 5 # 6E A-22/L A # 1M Was 648	730/6794
Cross timber 5	Gundard # 6E	130/65 75
Crosstinbing Crosstinbing F. J. Nger	Milli H H M	50/5847
Frenger	<u>Usc. 248</u>	730/6759 .
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1.224

( <u>NATCO</u> )
INSPECTION FOR N.O.R.M. CONTAMINATION
Location: NAtco YArd-SoutHside Date: 6-21-99
Survey instrument model: <u>Mud. Lud/em<sup>t</sup> 2-98</u> Last calibrated:
Item description: <u>6 ~ Plastic Barrells</u>
Number of pieces:
Location where items originated: Valley SCRAP Metal Yard.
Background reading: uR/hr
Highest NORM reading: uR/hr (corrected for background)
Lowest NORM reading: uR/hr (corrected for background)
Any samples taken? If so, how many?
Pieces inspected.
All Pieces found to be free of NORM contamination.
<u>None</u> Pieces found to have NORM contamination.
Remarks: CHeck All Barrels on ground Level
+ Yy" Above Barrells.
Inspector: Sale Eland - Pote
What is final disposition? OK To TransFord.
Released to: Date: Date:
West side. Vessel Ground Level EASt side: 14.5 3 pt. 13.5 - 3 ft.
14.5 3 Ft. North 1/4" From Top OF BArrell - DB 504+H. 13.5 - 3Ft. North B. 414.5 13 3 504+H. 13.5 - 3Ft.
14.5 -1ft. 5 14 13.3

y J •

10.bbs, NM+8241-1980       Energy N	w Mexico atural Resources Department rvation Division th Pacheco Street New Mexico 87505 b) 827-7131 Env. JN: <u>72/32</u> Form C-138 Submit Original Plus 1 Copy to appropriate Division Plus 1 Copy to appropriate Division District Office Env. JN: <u>72/32</u>
REQUEST FOR APPROV	AL TO ACCEPT SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator ENERLY SERVICES
Verbal Approval Received: Yes 🛄 No	5. Originating Site HAIN YARD
2. Management Facility Destination Envirotech Sc Facility La	oil Remedia. Andfarm #2 6. Transporter TBA
<b>3. Address of Facility Operator</b> 5796 US Highwa Farmington, NM	
7. Location of Material (Street Address or ULSTR)	4109 E Main Farmington, NM.
Generator; one certificate per job. B. All requests for approval to accept non-exempt we	wastes will be accompanied by a certification of waste from the astes must be accompanied by necessary chemical analysis to herator's certification of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are or	ily those consigned for transport.
BRIEF DESCRIPTION OF MATERIAL: Continuation of work buy 50	1 1 1 5 1999

JUN 1 8 1999 OHL CONL DIN. DIST. 3 Known Volume (to be entered by the operator at the end of the haul) Estimated Volume TITLE: Landfarm Manager DATE: 6.14.99 .6 SIGNATURE: Waste Management FacilityAuthorized Agent 505-632-0615 Harlan M. Brown TYPE OR PRINT NAME TELEPHONE NO (This space for State Use) TITLE: <u>6-00/09</u> Gu APPROVED B

TITLE: En

APPROVED BY

Hal Geologis & DATE:

District I - (505) 393-6161 P. O. Box 1980 Heybs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P' trict III - (505) 334-6178 Artesia, NM 88210 P' trict III - (505) 334-6178 Artesia, NM 87410 District IV - (505) 827-7131 District IV - (505) 827-7131	On Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔀	4. Generator ENERLY SERVICE,
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site HAIN YARD
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW Munico
7. Location of Material (Street Address or ULSTR)	4109 E Main Farmington, NM.
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Continuation of work bay solids	
Estimated Volume cy Known Volume (to be entered by the ope SIGNATURE: How To the Security Authorized Agent TITLE: Landfarm M Waste Management Facility Authorized Agent	erator at the end of the haul) ————————————————————————————————————
(This space for State Use) APPROVED BY: Denny 2, Tom TITLE: (300)	
	<u>0515</u> DATE: <u>6/15797</u>

# ENVIROTECHINC.

#### **REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP	1-13-1999
Printed Name	E.O. Shannon
Title / Agency Mai	ntenance Supervisor
Address <u>4109</u>	<u>East Main Stree</u> t
Farmi	ngton, New Mexico 87401
Signature <u>20</u>	Sharmon.
Date (2-	14 - 99

## **CERTIFICATE OF WASTE STATUS**

1.	Generator Name and Address:	2. Destination Name:
	Halliburton Energy Services 4109 East Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Halliburton Energy Services 4109 Eact Main Street Farmington, New Mexico 87401 Attach list of originating sites as appropriate	Solids Stabilization Pad East side of main yard facility 4109 East Main Street Farmington, New Mexico 87401
4.	Source and Description of Waste	
	Continuation of wash bay solids generated at truck wash bay.	; mud and related material
  ,	E.O. Shannon (Print Name)	representative for:
	(Print Name)	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
	(Print Name) ording to the Resource Conservation and Recover 8, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
198	(Print Name) ording to the Resource Conservation and Recover 8, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) HPT oilfield waste which is non-hazardous by characteristic by product identification

Name (Original Signature): \_\_\_\_\_\_

Title: <u>Maintenance Supervisor</u>

Date: 6-14-99

# ENVIRO ECH ...BS

January 28, 1999

Mr. Ed Shannon Halliburton Energy Services, Inc. 4109 East Main Street Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Shannon,

Enclosed are the analytical results for the sample collected from the location designated as "East Main, Farmington-Wash Bay Solids". One soil sample was collected by Envirotech personnel on 01/13/99, and delivered to the Envirotech laboratory on 01/13/99 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 6498 and assigned Laboratory No. E499 for tracking purposes. The sample was extracted on 01/18/99 and analyzed 01/18/99 through 01/27/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.** 

y W Lendler

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tclp0199.lb1

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-15-99
Lab ID#:	E499	Date Sampled:	01-13-99
Sample Matrix:	Soil	Date Received:	01-13-99
Preservative:	Cool	Date Analyzed:	01-15-99
Condition:	Cool and Intact	Chain of Custody:	6498

Parameter	Result	•	
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 7.98	
REACTIVITY:	Negative		
RCRA Hazardous Waste Crite	eria		
Parameter	Hazardous Waste Crit	erion	
IGNITABILITY:	-	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261-21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)	
CORROSIVITY:		Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)	
REACTIVITY:	(i.e. Violent reaction w	tivity as defined by 40 CFR, Subpart C, Sec. 261.23. ith water, strong base, strong acid, or the generation nide gases at STP with pH between 2.0 and 12.5)	
Reference:	40 CFR part 261 Subp	art C sections 261.21 - 261.23, July 1, 1992.	

Comments:

East Main, Farmington.

Analyst

Stacy W Sendler

Review

## - NVIROTECHPLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Halliburton	Project #:	92132
Wash Bay Solids	Date Reported:	01-19-99
E499	Date Sampled:	01-13-99
6498	Date Received:	01-13-99
Soil	Date Extracted:	01-18-99
Cool	Date Analyzed:	01-19-99
Cool & Intact	Analysis Requested:	TCLP
	Wash Bay Solids E499 6498 Soil Cool	Wash Bay SolidsDate Reported:E499Date Sampled:6498Date Received:SoilDate Extracted:CoolDate Analyzed:

	•		Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND and	0.0005	0.7
Chiorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene 98%	
		Bromofluorobenzene	99%
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		-846, USEPA, July 1992.
	Method 5030, Purge-and-Tra	ap, SW-846, USEPA, July 1992.	
	Method 8010, Halogenated	Volatile Organic, SW-846, USEPA	, Sept. 1994.
	Method 8020, Aromatic Vola	atile Organics, SW-846, USEPA, S	ept. 1994.
Note:	Regulatory Limits based on	40 CFR part 261 Subpart C section	n 261.24, July 1, 1992.
Comments:	East Main, Farmingtor	).	

ajener Analyst

Stacy W Sendler Review

# ENVIRO ECHLABS

#### EPA METHOD 8040 PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.123	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	0.060	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.556	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
······································		
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

## References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

East Main, Farmington.

Analyst

tacy W Sendler

Review

# FOURO ECH LOBS

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

		Det.	Regulatory
Condition:	Cool and Intact	Analysis Requested:	TCLP
Preservative:	Cool	Date Analyzed:	01-21-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Chain of Custody:	6498	Date Received:	01-13-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Sample ID:	Wash Bay Solids	Date Reported:	<sup></sup> 01-22-99
Client:	Halliburton	Project #:	92132

Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
Pyridine	0.054	0.020	5.0
Hexachloroethane	0.353	0.020	3.0
Nitrobenzene	0.202	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	98%
References:	Method 3510, Separato	city Characteristic Leaching Procedure, SW-846, USEPA, July 1992. aratory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. paromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.	
Note:	Regulatory Limits base	Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.	
Comments:	East Main, Farming	gton.	

Leccu Analyst

tacy W Sendler Review

## ENVIRO ECHILABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-23-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Analyzed:	01-23-99
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	Concentration	Det. Limit	Regulatory Level	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Arsenic		0.0001	5.0	
Barium	1.53	0.001	21	
Cadmium	0.0329	0.0001	0.11	
Chromium	0.0301	0.0001	0.60	
Lead	0.0309	0.0001	0.75	
Mercury	ND	0.0001	0.025	
Selenium	ND	0.0001	5.7	
Silver	ND	0.0001	0.14	

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

East Main, Farmington.

Analyst

tacy W Sendler Review

## EUVIROTICH L.BS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### QUALITY ASSURANCE / QUALITY CONTROL

#### DOCUMENTATION

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

## ENVIRO ECHILABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Parameter	Concentration (mg/L)	Limit (mg/L)	Llmits (mg/L)
· · · · · · · · · · · · · · · · · · ·		Detection	Regulatory
Condition:	<b>N/A</b>	Analysis Requested:	TCLP
Preservative:	N/A	Date Analyzed:	01-19-99
Sample Matrix:	TCLP Extract	Date Received:	N/A
Laboratory Number:	01-19-TCV-Blank	Date Sampled:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-19-99
Client:	QA/QC	Project #:	N/A -

		· · ·	
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND .	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	otance Criteria	Parameter	Percent Recovery			
		Trifluorotoluene	100%			
		Bromofluorobenzene	100%			
References:	Method 1311, Toxicity C	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.				
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.				
	Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.					
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA,	Sept. 1994.			
Note:	Regulatory Limits based	i on 40 CFR part 261 Subpart C secti	ion 261.24, July 1, 1992.			

Comments:

QA/QC for samples E499 and E503.

dinen Analysi

Stacy W Sendler Review

### Envirotechel...BS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A	
Sample ID:	Method Blank	Date Reported:	01-19-99	
Laboratory Number:	01-18-TV-MB	Date Sampled:	N/A	
Sample Matrix:	TCLP Extract	Date Received:	N/A	
Preservative:	N/A	, Date Analyzed:	01-19-99	
Condition:	N/A	Date Extracted:	01-18-99	•
		Analysis Requested:	TCLP	

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	<u>(mg/L)</u>
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	99%
		Bromofluorobenzene	98%
References:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SV	V-846, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEP/	A, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	Sept. 1994.
Note:	Regulatory Limits based	I on 40 CFR part 261 Subpart C section	on 261.24, July 1, 1992.
Comments:	QA/QC for samples	s E499 and E503.	

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Stacy W Sendler Review

## ENVIRO E

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 **AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	<sup>-</sup> 01-19-99
Condition:	N/A	Date Extracted:	N/A

	* <u></u>	Duplicate	· · · · · · · · · · · · · · · · · · ·	
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND		0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND .	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND and a second	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. **References:** Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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### ENVIRO ECHPLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC			Project #:	-	N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	01-19-99
Laboratory Number:	E499			Date Sample	ed:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	Ň/A
Analysis Requested:	TCLP			Date Analyze	ed:	01-19-99
Condition:	N/A			Date Extract	ed:	<b>N/A</b>
			Spiked		·	SW-84
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1 1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143

			•		· ·	
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	<b>99%</b>	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	<b>98%</b>	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

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# ENVIROTEC LABS

#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Laboratory Blank

		· ·	
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-21-99
Laboratory Number:	01-21-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-21-99
Condition:	<b>N/A</b>	Analysis Requested:	TCLP
Analytical Results	· · · · · · · · · · · · · · · · · · ·	Detection	Regulatory
-	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND .	0.020	100
	•		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
,	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Analyst

Tacy W Sendler Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA ETHOD 8040 PHENOLS **Quality Assurance Report**

·		· · · ·	
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-21-99
Laboratory Number:	01-18-TCA-MB	Date Sampled:	<b>N/A</b>
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid **References:** Waste, SW-846, USEPA, July 1992.

> Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Note:

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tacy W Sendler Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS. **Quality Assurance Report**

			=
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-21-99
Laboratory Number:	<b>E499</b>	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

<u></u>	Sample	Duplicate	Detection	
	Result	Result	Limit	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
o-Cresol	0.123	0.122	0.020	1.0%
p,m-Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	0.060	0.059	0.020	1.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	0.556	0.551	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	otance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEP/	haracteristic Leaching Procedure Test A, July 1992.	Methods for Evaluating Solid
	Method 3510, Separato Waste, SW-846, USEP	ry Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Was	te, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based	l on 40 CFR part 261 subpart C section	261.24, July 1, 1992.
Comments:	QA/QC for samples	E499 and E503.	
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Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

### ENV RO ECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-22-99
Laboratory Number:	01-21-TBN - Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	· N/A .
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

A/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

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#### EPA Method 8090 **Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT**

Client:		Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-22-99
Laboratory Number:	01-18-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool and Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND_	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.
	Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Note:

QA/QC for samples E499 and E503.

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Stacy W Sendler

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## INVIRO ECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	
Sample ID:	Matrix Duplicate	Date Reported:	01-22-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-18-99
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.054	0.053	1.0%	0.020
Hexachloroethane	0.353	0.349	1.0%	0.020
Nitrobenzene	0.202	0.200	0.9%	0.020
Hexachlorobutadiene	ND	ND .	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Maximum Difference	
		8090 Compounds	30%	
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Ju				
	Method 3510, Separat	ory Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.	
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.	
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C sect	tion 261.24, July 1, 1992.	

Comments:

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## ENVIROTICH \_\_\_\_BS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #:			N/A	
Sample ID:	•	01-23-TCM QA/QC		Date Repo	orted:		01-23-99	
Laboratory Number:		E449		Date Sam	pled:		N/A	
Sample Matrix:		TCLP Extrac	zt	Date Rece	eived:		N/A	
Analysis Requested	:	TCLP Metal	6	Date Analy	yzed:		01-23-99	
Condition:		N/A		Date Extra	cted:		N/A	
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Mothod Blank	Detection Limit	Simple	Duplicate	% Diff	Acceptance Renge	
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%	
Barium	ND	ND	0.001	1.53	1.53	0.0%	0% - 30%	
Cadmium	ND	ND	0.0001	0.032 <del>9</del>	0.0324	1.5%	0% - 30%	
Chromium	ND	ND	0.0001	0.0301	0.0300	0.3%	0% - 30%	
Lead	ND	ND	0.0001	0.0309	0.0307	0.6%	0% - 30%	
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%	
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%	
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%	

in Contraction

		•			
Arsenic	0.1000	NĎ	0.0997	99.7%	80% - 120%
Barium	1.000	1.53	2.53	100.0%	80% - 120%
Cadmium	0.0500	0.0329	0.0826	99.6%	80% - 120%
Chromium	0.0500	0.0301	0.0802	100.1%	80% - 120%
Lead	0.1000	0.0309	0.131	99.8%	80% - 120%
Mercury	0.0250	ND	0.0248	99.2%	80% - 120%
Selenium	0.1000	ND	0.0998	99.8%	80% - 120%
Silver	0.0500	ND	0.0499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

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Stacy W Sendler Review

### CHAIN OF CUSTODY RECORD

Client / Project Name HA(LIBURTON			Project Location EAST T FARMIN	nains 0 Gton	ງ					AN	ALYSIS /	PARA	METER	RS			!	
Sampler:			Client No.				ß	Р Н\$Э						٠	Ren	narks		1
moni D.	you	~	921	32			No. of ontaine											
Sample No./ Identification	Sample Date	(Sample Time	Lab Number		Sample Matrix		No. of Containers	120							•			
Whon Bay Salibs	1/13/9	12:10	E499	50	iL		1							I				-
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					5796 U.S ington, N				I			Ţ	Rec	eived In	act			
,				i aiiii	(505)			0740	I			ſ	Cool	- Ice/Blu	e ice			

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District I - (505) 393-6161New MexicoO. Box 1-90Energy Minerals and Natural ResourceHobbs, NM 8241-1980Energy Minerals and Natural ResourceDistrict II - (505) 748-1283Oil Conservation DivisioStrict II - (505) 748-12832040 South Pacheco StreetVirict III - (505) 334-6178Santa Fe, New Mexico 87505Rio Brazos Road(505) 827-7131	JUN 1999 Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🖂	4. Generator ELPCOD Hield Service
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Chase Plant
2. Management Facility Destination Soil Romediation Facility Destination Soil Romediation Facility	6. Transporter TBA
3. Address of Facility Operator 5796 45 thur 64 Formington Du 87801	8. State NEW Marsico
7. Location of Material (Street Address or ULSTR)	SW54, Sec 16, TZCN, RIZU, SJC. NM
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:</li> </ul>	ompanied by necessary chemical analysis to in of origin. No waste classified hazardous by
	at Tomporary Holding Pond.
Verbally approved by Martyne Kielnig 6/9/	D RECEIVED JUN - 9 1999 OIL CONL DING
Estimated Volume (00 cy Known Volume (to be entered by the opt	erator at the end of the haul) cy
SIGNATURE: Harbour Brown TITLE: LANDFAR Waste Management Facility Authorized Agent TYPE OR PRINT NAME: HARLAN M. BROWN TEL	EPHONE NO. 505-632.0615
(This space for State Use) APPROVED BY: DEMOS, Tum TITLE: Geolo May Did	
APPROVED BY: Martyn Philip TITLE: Environme	ntul Geologist DATE: 6-11-99

	~
<u>astrict I - (505) 393-6161</u> New Mexico	Form C-13
by, NM 88241-1980 Energy Minerals and Natural Resource	
S. First Oil Conservation Divisio	
iia, NM 88210 2040 South Pacheco Street dct III - (505) 334-6178 Santa Fe, New Mexico 87505	Submit Origin Plus 1 Co
Pio Brance Dord	to appropria
c, NM 87410 (505) 827-7131	District Offi
rict IV - (505) 827-7131	Job# 705711
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
	4. Generator ELPCOD Field Service
1. RCRA Exempt: Non-Exempt:	
Verbal Approval Received: Yes No 🔽	5. Originating Site Chase Plant
Management Facility Destination Soil Romad (ation Facility	6. Transporter TBA
Address of Facility Operator 5796 45 How 64 Farmington New 87401	8. State NEW Munico
. Location of Material (Street Address or ULSTR)	SWS 4, See 16, TZ6N, RIZW, SJE NM
. <u>Circle One</u> :	• 1
A. All requests for approval to accept oilfield exempt wastes will be acce	ompanied by a certification of waste from the
Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be according PROVE the material is not-hazardous and the Generator's certification	
listing or testing will be approved.	in or origin. No waste classified nazaroous by
isting of testing win be approved.	
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Silva Today Las fui	
Sails generated daving classing of We	at Tomporary Holding Pond.
	a manufacture of the second
TCLP ATTACHED.	~
	RGANAEN -
	MA = 9 1000
	90N - 9 1399
	il con. Div.
	Dist. 2
stimated Volume (o o cy Known Volume (to be entered by the ope	eretor at the end of the haul)
	ęę
GNATURE: Harburger TITLE: LANDFAR	Managar DATE: 6.8.99
Waste Management FacilityAuthorized Agent	
	EPHONE NO. 505-632-0615
	, ' · ·
This space for State Use)	, ,
APPROVED BY: Denny Z. tent TITLE: Geolog	,137 DATE: 6/9/92
APPROVED BY: TITLE:	DATE:

### **CERTIFICATE OF WASTE STATUS**

1. Gen	erator Name and Address:	2. Destination Name:					
	El Paso Field Services Co.	Envirotech Soil Remediation Facility					
	614 Reilly Avenue	Landfarm #2					
}	Farmington, NM 87401	Hilltop, New Mexico					
3. Origi	inating Site (name);	Location of Waste(Street address &/or ULSTR);					
Chaco P	lant	SW/4 Section 16, T26N, R12W, San Juan Co., NM					
	list of originating sites as appropriate						
4. Sour	ce and Description of Waste	は多テ					
Soils fro	m the temporary lined pond area, handlined area in and in	ns contact water.					
stan	red areas under liner						
L							
۱.	David Bays	representative for:					
, <u> </u>	(Print Name)						
	El Paso Field Services	Co. do hereby certify that,					
accordin	ig to the Resource Conservation and Recov	very Act (RCRA) and Environmental Protection Agency's July,					
1988 reg	gulatory determination, the above described	waste is: (Check appropriate classification)					
E/		N-EXEMPT oilfield waste which is non-hazardous by racteristic analysis or by product identification					
and that	nothing has been added to the exempt or r						
anu mai	nothing has been added to the exempt of						
For NON	I-EXEMPT waste only, the following docum	nentation is attached (check appropriate items):					
	MCDO Information						
	MSDS Information	Other (description)					
	Chain of Custody						
	$\wedge$ .						
Name	(Original Signature):	Bam-					
		<b>v</b>					
Title:	Principal Er	vironmental Scientist					
Date:	June 7, 199	99					

## COVIRO CCHLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	El Paso Field Service	Project #:	97057-		
Sample ID:	990186	Date Reported:	04-23-99		
Lab ID#:	F077	Date Sampled:	04-21-99		
Sample Matrix:	Soil/Sludge	Date Received:	04-22-99		
Preservative:	Cool	Date Analyzed:	04-23-99		
Condition:	Cool and intact	<sup>.</sup> Chain of Custody:	6080		
Parameter	Result				
	Negative				
CORROSIVITY:	Negative	pH = 6.84			
REACTIVITY:	Negative				
RCRA Hazardous Waste Criteria					
Parameter	Hazardous Waste Criterion				
IGNITABILITY:		ns defined by 40 CFR, Subpart C, Sec. 2 rect contact with flame or flash point < 60			
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)				
REACTIVITY:	(i.e. Violent reaction with wa	s defined by 40 CFR, Subpart C, Sec. 20 ter, strong base, strong acid, or the gene ases at STP with pH between 2.0 and 12	pration		
Reference:	40 CFR part 261 Subpart C	sections 261.21 - 261.23, July 1, 1992.			
Comments:	Chaco Plant. Tempo	ary Lined Pond West.			

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## ENVIROTECH L.BS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Services	Project #:	705711
Sample ID:	990188	Date Reported:	04-27-99
Laboratory Number:	F077	Date Sampled:	04-21-99
Chain of Custody:	6080	Date Received:	04-22-99
Sample Matrix:	Soil / Sludge	Date Extracted:	04-23-99
Preservative:	Cool	Date Analyzed:	04-27-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
•	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	0.0010	0.0001	0.7
2-Butanone (MEK)	0.0303	0.0001	200
Chloroform	0.0004	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0109	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	0.0171	0.0005	0.7
Chlorobenzene	0.0217	0.0003	100
1,4-Dichiorobenzene	0.0353	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		Trifluorotoluene	98%	
		Bromofluorobenzene	99%	
References:	References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.			
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.		
		ted Volatile Organic, SW-846, USEPA,	Sept. 1994.	
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.	
Note:	Regulatory Limits based	I on 40 CFR part 261 Subpart C section	261.24, July 1, 1992.	
Comments:	Ohana Diant Tam	porary Lined Pond West.		

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Review Stacy W Sendler

# ENVIROTECHLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS

Client:	El Paso Field Services	Project #:	705711
Sample ID:	990186	Date Reported:	04-27-99
Laboratory Number:	F077	Date Sampled:	04-21-99
Chain of Custody:	6080	Date Received:	04-22-99
Sample Matrix:	Soil / Sludge TCLP Extract	Date Extracted:	04-23-99
Preservative:	Cool	Date Analyzed:	04-27-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Soncentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.080	0.020	200
p,m-Cresol	0.180	0.040	200
2,4,6-Trichlorophenol	0.135	0.020	2.0
2,4,5-Trichlorophenol	0.103	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Chaco Plant. Temporary Lined Pond West.

Analyst

Stacy W Sendler Review

# ENVIROTECH LABS

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	El Paso Field Services	Project #:	705711
Sample ID:	990186	Date Reported:	04-27-99
Laboratory Number:	F077	Date Sampled:	04-21-99
Chain of Custody:	6080	Date Received:	04-22-99
Sample Matrix:	Soil / Sludge TCLP Extract	Date Extracted:	04-23-99
Preservative:	Cool	Date Analyzed:	04-27-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	0.093	0.020	3.0
Nitrobenzene	0.235	0.020	2.0
Hexachlorobutadiene	0.118	0.020	0.5
2,4-Dinitrotoluene	0.090	0.020	0.13
HexachloroBenzene	0.081	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	100%

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.
	Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: Chaco Plant. Temporary Lined Pond West.

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# ENVIROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	El Paso Field Services	Project #:	705711
Sample ID:	990186	Date Reported:	04-28-99
Laboratory Number:	F077	Date Sampled:	04-21-99
Chain of Custody:	6080	Date Received:	04-22-99
Sample Matrix:	TCLP Extract Soil/Sludge	Date Analyzed:	04-28-99
Preservative:	Cool	Date Extracted:	04-23-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	į	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	N.	ND	0.0001	5.0
Barium		0.394	0.001	21
Cadmlum		0.0224	0.0001	0.11
Chromium		0.0657	0.0001	0.60
Lead		0.0284	0.0001	0.75
Mercury		ND	0.0001	0.025
Selenium		ND	0.0001	5.7
Silver		ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

Chaco Plant. Temporary Lined Pond West.

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Stacy W Sendler Review



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### **QUALITY ASSURANCE / QUALITY CONTROL**

### DOCUMENTATION

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

## Envirotechlabs

PRACTICAL SOLUTIONS FOR A BETTER TOMOBROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-27-99
Laboratory Number:	04-27-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-27-99
Condition:	N/A	Analysis Requested:	TCLP
		Detection	Regulatory
	<b>Concentration</b>	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chiorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	100%
		Bromofluorobenzene	100%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, SW	/-846, USEPA, July 1992.
	Method 5030, Purge-a	nd-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogen	ated Volatile Organic, SW-846, USEPA	, Sept. 1994.
	Method 8020, Aromatic	c Volatile Organics, SW-846, USEPA, S	ept. 1994.
		ed on 40 CFR part 261 Subpart C sectio	- 261 24 july 1 1002

Comments:

QA/QC for sample F077.

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Stacy W Sendler Review

# ENVIROTECH LABS

#### EPA THODS 10/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-27-99
Laboratory Number:	04-23-TVOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-27-99
Condition:	N/A	Date Extracted:	04-23-99
		Analysis Requested:	TCLP

Parameter	<pre></pre>	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyi Chloride	ND	. 0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chioroform	ND	0.0001	6.0
Carbon Tetrachioride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
<b>Trichloroethene</b>	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	99%
		Bromofluorobenzene	98%
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, SW	<b>-846, USEPA, July 1992.</b>
	Method 5030, Purge-ar	nd-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogen	ated Volatile Organic, SW-846, USEPA	, Sept. 1994.
	Method 8020, Aromatic	: Volatile Organics, SW-846, USEPA, S	ept. 1994.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C section	n 261.24, July 1, 1992.
Comments:	QA/QC for sample	F077.	

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# PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA ETHODS 10/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplic	ate	Date Reported:	04-27-99
Laboratory Number:	F077		Date Sampled:	N/A
Sample Matrix:	TCLP Extrac	L ,	Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	04-27-99
Condition:	N/A		Date Extracted:	N/A
		Duplicate		·
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
	ND	ND	0.0001	0.0%
1,1-Dichloroethene	0.0010	0.0010	0.0001	0.0%
2-Butanone (MEK)	0.0303	0.0303	0.0001	0.0%
Chloroform	0.0004	0.0004	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0109	0.0109	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	0.0171	0.0171	0.0005	0.0%
Chlorobenzene	0.0217	0.0217	0.0003	0.0%
1,4-Dichlorobenzene	0.0353	0.0353	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

QA/QC for sample F077.

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Stacy W Sendler Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-27-99
Laboratory Number:	F077	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-27-99
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyi Chioride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	0.0010	0.050	0.0504	0.0001	99%	43-143
2-Butanone (MEK)	0.0303	0.050	0.0798	0.0001	. <b>99%</b>	47-132
Chioroform	0.0004	0.050	0.0501	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0109	0.050	0.0607	0.0001	100%	<b>39-150</b>
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51- <b>14</b> 7
Trichloroethene	ND	0.050	0.0494	0.0003	9 <b>9%</b>	35-146
Tetrachloroethene	0.0171	0.050	0.0665	0.0005	99%	26-162
Chlorobenzene	0.0217	0.050	0.0711	0.0003	99%	38-150
1,4-Dichlorobenzene	0.0353	0.050	0.0847	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample F077.

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tacy W Sendler Review

## ENVIROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-27-99
Laboratory Number:	04-27-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-27-99
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
-	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	· 0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample F077.

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Stacy W Sendler Review

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-27-99
Laboratory Number:	04-23-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	04-27-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenoi	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Reco	veries:	Parameter	Percent Recovery
		2-Fluorophenol	98%
		2,4,6-Tribromophenol	99%
References:	Method 1311, Toxic	ity Characteristic Leaching Procedure	Fest Methods for Evaluating Solid
	Waste, SW-846, U	SEPA, July 1992.	
		т	
	Method 3510, Sepa	ratory Funnel Liquid-Liquid Extraction,	Test Methods for Evaluating Solid

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Note:

QA/QC for sample F077.

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tacy W Sendler Review

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS **Quality Assurance Report**

Olionte	04/00		<b>NI/A</b>
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-27-99
Laboratory Number:	F077	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-23-99
Condition:	Cool & Intact	Date Analyzed:	04-27-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	0.080	0.079	0.020	1.0%
p.m-Cresol	0.180	0.177	0.040	2.0%
2,4,6-Trichlorophenol	0.135	0.134	0.020	1.0%
2,4,5-Trichlorophenol	0.103	0.102	0.020	1.1%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

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	nce Criteria:	Parameter	Maximum Difference		
		8040 Compounds	30.0%		
References:	Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.				
	Method 3510, Separator Waste, SW-846, USEP/	y Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid		
	Method 8040, Phenols,	Test Methods for Evaluating Solid Wast	e, SW-846, USEPA, Sept. 1986.		
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C section	261.24, July 1, 1992.		
Comments:	QA/QC for sample	F077.			

Analyst

### ENVIROTE PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cycilc Ketones **TCLP Base/Neutral Organics Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-27-99
Laboratory Number:	04-27-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	04-27-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyi	97%
References:	Method 1311. Toxicity	Characteristic Leaching Procedure, S	\$W-846, USEPA, July 1992.
	-	ory Funnel Liquid-Liquid Extraction, S	
	Method 8090, Nitroard	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for sample F077.

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Stacy W Lendler

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

	£	Det.	Regulatory
		Analysis Requested:	TCLP
Condition:	Cool and Intact	Date Analyzed:	04-27-99
Preservative:	Cool	Date Extracted:	04-23-99
Sample Matrix:	TCLP Extract	Date Received:	N/A
Laboratory Number:	04-23-TBN-MB	Date Sampled:	N/A
Sample ID:	Method Blank	Date Reported:	04-27-99
Client:	QA/QC	Project #:	N/A

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)		
Pyridine	ND	0.020	5.0		
Hexachloroethane	ND	0.020	3.0		
Nitrobenzene	ND	0.020	2.0		
Hexachlorobutadiene	ND	0.020	0.5		
2,4-Dinitrotoluene	ND	0.020	0.13		
HexachloroBenzene	ND	0.020	0.13		

ND - Parameter not detected at the stated detection limit.

QA/QC Accept	tance Criteria	Parameter	Percent Recovery			
		2-fluorobiphenyl	97%			
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.					
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction, S	SW-846, USEPA, July 1992.			
	Method 8090, Nitroaror	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.			
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.			
Commonto		C077				

Comments:

QA/QC for sample F077.

Piece. Analyst

Stacy W Sendler Review

# Environs for a better tomorrow

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client: QA/QC		Project #:		N/A		
Sample ID:	Matrix Duplicate	Date Reported:		04-27-99		
Laboratory Number:	F077	Date Sampled:		N/A		
Sample Matrix:	TCLP Extract	Date Received:		N/A		
Preservative:	N/A	Date Extracted:		04-23-99		
Condition:	N/A	Date Analyzed:		04-27-99		
		Analysis Reques	sted:	TCLP		
	Sample	Duplicate		Det.		
	Result	Result	Percent	Limit		
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)		
Pyridine	ND	ND	0.0%	0.020		
Hexachloroethane	0.093	0.092	1.0%	0.020		
Nitrobenzene	0.235	0.233	0.9%	0.020		
Hexachlorobutadiene	0.118	0.117 1.1%		0.020		
2,4-Dinitrotoluene	0.090	0.088	3.0%	0.020		
HexachloroBenzene	0.081	0.080	1.8%	0.020		

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference		
		8090 Compounds	30%		
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992				
	Method 3510, Separato	ry Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.		
	Method 8090, Nitroaron	natics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.		
Note:	Regulatory Limits based	I on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.		

Comments:

QA/QC for sample F077.

fue

Stacy W Sendler Review

### RU. L TICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 **TOXICITY CHARACTERISTIC** LEACHING PROCEDURE **TRACE METAL ANALYSIS** Quality Assurance Report

Client:		QAVQC		Project #:			N/A		
Sample ID:		04-28-TCM QA/QC		Date Rep	orted:		04-28-99		
Laboratory Number:		F077		Date Sam	pled:	N/A			
Sample Matrix:		TCTP Extra	ct	Date Rec	eived:		N/A		
Analysis Requested:		TCLP Metal	8	Date Anal	yzed:		04-28-99		
Condition:		N/A		Date Extra	acted:		N/A		
		and the second secon							
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Barlum	ND	ND	0.001	0.394	0.394	0.1%	0% - 30%		
Cadmium	ND	ND	0.0001	0.0224	0.0226	0.9%	0% - 30%		
Chromium	ND	ND	0.0001	0.0657	0.0660	0.5%	0% - 30%		
Lead	ND	ND	0.0001	0.0284	0.0283	0.4%	0% - 30%		
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
a Au Au			~				ತನ್ ಎಂಕ್ರೋತ್ ಎಂಕ್ರೇಕ್ ಕ		
	5						and and a second a secon		
Arsenic		0.1000	ND	0.0997	99.7%		80% - 120%		
Barium		1.000	0.394	1.39	100.0%		80% - 120%		
Cadmium		0.0500	0.0224	0.0722	99.7%		80% - 120%		
Chromium		0.0500	0.0657	0.116	99.8%		80% - 120%		
Lead		0.1000	0.0284	0.128	99.8%		80% - 120%		

ND - Parameter not detected at the stated detection limit.

QA/QC for sample F077.

0.0250

0.1000

0.0500

ND

ND

ND

**References:** 

Silver

Mercury

Selenium

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

0.0248

0.0996

0.0498

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

Jerean) Ánalvst

tacy W Sendler Review

99.2%

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80% - 120%

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5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

### **CHAIN OF CUSTODY RECORD**

Client / Project Name			Project Location													<u></u>	
El Paso Field	Service	25	Chaco	Plan	、 <u>+</u>					P	NALYSI	S / PAHA	AMETER	IS			
			Client No.	<u></u>			Ś	۵		ł			Remarks				
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Sample No./	Sample	Sample	Lab Number		Sample		Cont:	TCLP	a the				-				
Identification	Date	Time	Laurunue		Matrix				रमिष्ठ	₽ <del> </del>						<u></u>	
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Farmington, New Mexico 87401 (505) 632-0615					Cool -	Ice/Blue Ice			l								

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District I - (505) 393-6161       New Mexico         P:O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         6ni 1 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         P' trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	on Submit Original				
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE				
1. RCRA Exempt: 🖾 Non-Exempt: 🛄	4. Generator NUOCD				
Verbal Approval Received: Yes 🛄 No 🛄	5. Originating Site Woostlay, Prad Pits				
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter A. Plus www Sorvice				
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State \$1 m Blogst co.				
7. Location of Material (Street Address or ULSTR)	"B" Sac 16, TIAN, ROW, Show				
9. <u>Circle One</u> :	4				
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>petro Low Mydrocarbon Continuitates soil generated during about the production prt.</li> </ul>					
R	ECERVED MAY 2 1 1999				
OIL COM. DIV. DIST. 3					
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy					
SIGNATURE:       Harlan M. Brown       TITLE: Landfarm Manager       DATE:       5.21-99         Waste Management FacilityAuthorized Agent       TITLE:       Landfarm Manager       DATE:       5.21-99         TYPE OR PRINT NAME:       Harlan M. Brown       TELEPHONE NO.       505-632-0615					
(This space for State Use) APPROVED BY: Charles To Perm TITLE: Field APPROVED BY: S. TITLE: Dit	$f_{c}/f_{DATE: 5/21/99}$ $f_{m}$ DATE: 5/21/99				

### **CERTIFICATE OF WASTE STATUS**

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1. Generator Name and Address: New Metro OSI Conservation Division	2. Destination Name:				
New metro Oil Conservation Division 1000 Rio Brazos Rd	Envirotech Soil Remediation Facility				
A-2tec, NM 87413	Landfarm #2				
/	Hilltop, New Mexico				
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):				
woosley Production	B-16-19N-06W				
pit - central Tank Battery					
Attach list of originating sites as appropriate 4. Source and Description of Waste					
	iminated soil from production Hery				
I. Denny Foust (Print Name) NM	representative for:				
/ (Print Name)	do hereby certify that,				
	ry Act (RCRA) and Environmental Protection Agency's July,				
/	<b>APT</b> oilfield waste which is non-hazardous by characteristic by product identification				
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.				
For NON-EXEMPT waste only the following documentation is attached (check appropriate items): MSDS Information Other (description): RCRA Hazardous Waste Analysis Chain of Custody					
Name (Original Signature): <u>Demy 70</u> Title: <u>Environmental Geologi</u> Date: <u>S721/99</u>	13T				
/ /					

Linet I - (505) 393-6161 D. Box 1980 bbs, NM 88241-1980 Linet II - (505) 748-1283 1 S. First esia, NM 88210 refet III - (505) 334-6178 Rio Brazos Road .cc, NM 87410 httlet IV - (505) 827-7131	New Mexico Energy Minerals and Natural Resourc Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	on Submit Origin:
	REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:	Non-Exempt:	4. Generator EPFS
Verbal Approval Rec	eived: Yes 🔀 No 🔲	5. Originating Site Drip 5 AZ
2. Management Facilit	<b>Destination</b> Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter EP=5
3. Address of Facility (	Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Herpico
7. Location of Material	(Street Address or ULSTR)	5. 30, T30N, RIBW.
Generator; one B. All requests for PROVE the mat listing or testing	approval to accept oilfield exempt wastes will be acc certificate per job. approval to accept non-exempt wastes must be acc erial is not-hazardous and the Generator's certification will be approved. certify the wastes delivered are only those consigne	companied by necessary chemical analysis to on of origin. No waste classified hazardous by

Petro laun tydrearbon	contrainated soil granted doing
clean up of condense	DECEIVED MAY 2 1 1999 OIL CON. DIV. DIST. 3
Estimated Volume cy Known Volume SIGNATURE:	e (to be entered by the operator at the end of the haul) cy 
(This space for State Use)	
APPROVED BY: Denny Br. Fourt APPROVED BY: Chante Term	TITLE: $feologist$ DATE: $5/21/99$ TITLE: $field Rept DATE: 5/21/99$

### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:			
El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico			
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):			
Drip 5 A2	Section 30, T30N, R13W			
Attach list of originating sites as appropriate 4. Source and Description of Waste - Soil contaminated with hydrocarbon liquids and sludge				
1, David Bays (Print Name)	representative for:			
El Paso Field Services Co. according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988 regulatory determination, the above described waste is: (Check appropriate classification)				
X EXEMPT Oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification				
and that nothing has been added to the exempt or non-hazardous waste defined above.				
For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):				
MSDS Information Other (description) RCRA Hazardous Waste Analysis Chain of Custody				
Name (Original Signature):	il Bay			
Title: Principal E	nvironmental Scientist			
Date: May 19, 19	999			

3.

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District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 D' trict III - (505) 334-6178 Rio Brazos Road Artes, NM 87410 District IV - (505) 827-7131 New Mexico Coll Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	n Submit Origina
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:     Non-Exempt:     Downy Foust.       1. RCRA Exempt:     S·19.99       7:45 A.M	4. Generator NATCO
Verbal Approval Received: Yes 🛛 No 🔲	5. Originating Site UARious Cocabing
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduine Cect
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State NEw Bluepico.
7. Location of Material (Street Address or ULSTR)	2855 Southand River Rd.
9. <u>Circle One</u> :	Formington, Now Mossico
	A ges production equipment, GEINED IAY 2 1 1999 SONG DIVG
Estimated Volume LO documes cy Known Volume (to be entered by the operation of the second strength of the	
(This space for State Use) APPROVED BY: Deny 2- Kent TITLE: Geolo APPROVED BY: Charly The TITLE: field b	<u>Qist</u> DATE: <u>5721/99</u> RePI DATE: 5/21/99

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1. Generator Name and Address:	2. Destination Name:
NAtco	
NAICO	Envirotech Soil Remediation Facility
	Landfarm #2
2. Oninination Other Instantion	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
See Attach List UA	Rious locations
SEC MARKE	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Solids, Sludge, Fron Produc	tion writs
1. Lichard Lumbert	representative for:
MATE O	do hereby certify that,
( ` Analysis or	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or nor	i-exempt non-nazardous waste defined above.
For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	entation is attached (check appropriate items): Other (description):
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Title: Stop Journan	
Date: <u>\$//8/99</u>	
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NATCO BETH

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"Partnerships for Safe Working Environments"

INSPECTION FOR N.O.R.M. CONTAMINATION
Location: NATCO YARD Date: 05-18-59
Survey instrument model: BICRON PGAL Last calibrated: 12-98 Factory
Item description: NORM on 55 gallon bbls.
Number of pieces:
Location where items originated: NATCO YARD - Cleanitry Equipment in YARD
Background reading:UR/hr
Highest NORM reading:OC uR/hr (corrected for background)
Lowest NORM reading: $\mu OZ$ uR/hr (corrected for background)
Any samples taken? If so, how many? NONE taken
Pieces inspected.
Pieces found to be free of NORM contamination.
2 Pieces found to have NORM contamination. CESS than , 64
Remarks: good Clean Location, STORED on pallets
Euch Contras ere isolated
Inspector: Cmy Delzzelo
What is final disposition? <u>Confinitions ARE Able to be disposed of</u>
What is final disposition? <u>Configurates ARE Able to be clisposed of</u> Released to: <u>NATCO Conf</u> Date: <u>05-18-99</u>

P.O. Box 6062 • 1678 Bloomfield Blvd. • Farmington, NM 87499 • 505-325-SAFE (7233) • Fax: 505-325-1905

#### NORM DATA

Per Subpart 14 of 20 NMAC 3.1 [8-2-95] Naturally Occurring Radioactive Materials (NORM) in the Oil and Gas Industry

#### 1402. DEFINITIONS

- E. "Department" means the New Mexico Environmental Department or its designated representative(s)
- F. "Division" means the New Mexico Conservation Division or its designated representative(s)
- J. "Naturally occurring radioactive material (NORM)" means any nuclide which is radioactive in its natural physical state (i.e. not manmade) but does not include byproduct, source or special nuclear material

#### 1403. EXEMPTIONS

- A. For release for unrestricted use, persons who receive, posses, use, process, transfer, distribute, transport, store or dispose of NORM are exempt from the requirements of these regulations if: the NORM present is at concentrations of 30 picocuries per gram or less of radium 226, above background, or 150 picocuries per gram or less of any other NORM radionuclide, above background, in soil, in 15 cm layers, averaged over 100 square meters. Samples should be taken if gamma radiation readings (µR/hr) are equal to or exceed twice background readings when surveyed at a distance of 1 cm from the surface of the soil, in accordance with Department guidelines.
- C. NORM not otherwise exempted and equipment from oil, gas and water production containing NORM are exempt from the requirements of this Subpart if the maximum radiation exposure reading at any accessible point does not exceed 50 microroentgens per hour ( $\mu$ R/hr), including background radiation levels. Sludges and scales contained in oil, gas and water production equipment are exempt from the requirements of this Subpart if the maximum radiation exposure reading within 1 cm of the surface of the sludge or scale does not exceed 50 microroentgens per hour (50  $\mu$ R/hr), including background radiation levels. If the radiation readings exceed 50  $\mu$ R/hr, removable sludges and scales are exempt from the requirements of these regulations if the concentration of Radium 226, in a representative sample, does not exceed 30 picocuries per gram.

#### 1404. RADIATION SURVEY INSTRUMENTS

- C. Each radiation instrument shall be calibrated:
  - 1. by a qualified person or the manufacturer . . . certified by the Department
  - 2. at intervals not to exceed 12 months and after instrument servicing.
  - 3. to demonstrate an accuracy within plus or minus 20 percent ....

#### General Information (not part of the regulation):

- 1. Hold survey instrument <sup>1</sup>/<sub>4</sub> inch from surface for alpha ray detection, and <sup>1</sup>/<sub>2</sub> inch for gamma ray detection.
- 2. Move instrument at no more than 2 inches per second.

#### 1408. RADIATION SURVEY REQUIREMENTS

C. Surveys required by this subpart shall be performed pursuant to guidelines issued by the Department and by persons who possess the knowledge and/or training to perform such surveys pursuant to Department and Division Guidelines.

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	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
Buelington	I 143	73016154
BuellingTon		73016103
Burlischen Burlisgher Burlisgher	GUSRAY MA	73016048
Burlsylow		73016/04
Belsylid		<u> 33816106</u>
Buelington		73016147
Bucharton		73016148
Buchylon		73016149
Buchaglar	Havcock 6M	73016206
Buchaydan	Lynnafn IA Z 493	73016286
Buchantor	<u> </u>	73016287
Brelanter	I 421	730/6309
Burlighen		73016227
_ Aucloydan	KIEN # 24 E	73016452
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·	WASTE SOLIDS	·
	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
	UAughal #14E	· · · · · · · · · · · · · · · · · · ·
Buchington	UAughn #14F GRAMBLing CIA	73016451
Budlight	GRAMUITSO CIA	73016290
	<b>v</b>	73016293
Busloyhed	28-5# 37A	730163/1
August had	I 560	73016476
Bustantos	1 426	73016571
Buddyntal	28-5#26	73016323
Buddy tal Buddy las	28-5#54E	72016572
Buchangla	<u> </u>	730/6566
Busleyla		73016291
Buchrida		730/6591
Burlinda	Florewhich #BIA	73016460
Bushinder	29-7#11	73016609
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Buchiston		73016612.
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	WASTE SOLIDS	
	LOCATION	JOB NUMBER
WIPANY	I # 6	73016616
Owelly The	I H S	730/66/9
And Light	I # 141	73016617
Banaghan	<u> </u>	23016781
Ali yet	I 490	730/6748
trad	Alberthe #15	
- Paral-	1 <u>1 292</u>	730167-87
A strang		73016946
- adapt	<u> </u>	730/6321
The share	New Som B # 7 29-4 # 21	73016056
: male	T 220	73016597
	$1 = \frac{1}{280}$	73016834
	I 445	73016818
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5/99

	WASTE SOLIDS	
COMPANY	LOCATION	
COMPANY	LOCATION	JOB NUMBER
walsh		73016449
Colone esc NASSAU Close Kinberis Close Kinberis Close fumbrais Eree gen		73016802 73016794 73016858 73015849 73015849 73016759
-NASSAV	CU. 27-7 #14 Gy Aport # GE R:2210 A #1M Dec 4# 8	73016794
Close trabels	Gyngers HGE	73016858
Chossfundias	Riddle A +1M	73015849
Evergen	Jac 4 4 8	73016759
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District I - (505) 393-6161 P. D. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 814 S. First Artesia, NM 88210 Ptrict III - (505) 334-6178 Artesia, NM 88210 Ptrict III - (505) 334-6178 Artesia, NM 87410 District IV - (505) 827-7131 District IV - (505) 827-7131 New Mexico Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:     Non-Exempt:     Donny Fount       1. RCRA Exempt:     5-3.99       1. Increase     1015	4. Generator PESCO
Verbal Approval Received: Yes 🗹 No 🔲	5. Originating Site Hain Land
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Frankinger
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Wan blessico
7. Location of Material (Street Address or ULSTR)	5680 they 69 Formington, Du
NORMS ADDRESS ATTACHED DEC	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by d for transport.
Estimated Volume _ 60 bbl cy Known Volume (to be entered by the ope	CONL DIVA MST 3 erator at the end of the haul) <u>5066/s</u> cy
SIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm M TYPE OR PRINT NAME: Harlan M. Brown TEL	Ianager       DATE: 5.3.9.         EPHONE NO.       505-632-0615
(This space for State Use) APPROVED BY: Demy Dr Rem TITLE: Geolo APPROVED BY: Journe TITLE:	DATE:

Jn: 92142

Donny F 5.3.99 10:15

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## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
PESCO 5680 Highway 64 Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Process Equipment & Service Company 5680 US Highway 64 Farmington, New Mexico 87401	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate 4. Source and Description of Waste Solids generated from cleaning and re separators, dehydrators, and other pr	
, Gary Howe (Print Name)	representative for:
Process Equipment and Service Company,	y Act (RCRA) and Environmental Protection Agency's July
	PT oilfield waste which is non-hazardous by characteristic by product identification
for NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	
lame (Original Signature): DanyW Howe	
itle: Safety Director	

		9		FARM	64 • 87401 / P.O INGTON, NEW MEX 27-2222 • FAX:	(ICO	
Facility/Lo	ncation.	Ps			EY DATA SHEET	Date <sup>.</sup>	4-30-99
					Serial No	-	
					: 201-887		
Detector	ype.						_
Potton/ Ch					:		_
-				Source Cl			
Calibration					-		
Source Ty	•	···		1.5	CPM		
		ation I au	el <sup>.</sup>	13 🚌	in R/hr		
Backgrour Description					Steam c	EANE	e SANd
		uipment/	Materia		Steam c	EANE	e SANd
Description	n of Equ T <b>e A</b>	uipment/ ø erial Surv	Materia	al Surveyed:		[EANE	CPA
Description	n of Equ TeA	uipment/ ø erial Survial Numb	Materia reyed er, Size	al Surveyed:		[EANE	<b>۵ و م</b> Maximum <del>microf</del>
Description	n of Equ TeA	uipment/ ø erial Surv	Materia reyed er, Size	al Surveyed:		[ε Α ν ε 	CPA
Description	n of Equ TeA	uipment/ erial Surv ial Numb	Materia reyed er, Size	al Surveyed:		<u>Ε</u> ΑΝΕ	ር ቦ ሰ Maximum <del>microf</del>
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Description	n of Equ TeA	uipment/ erial Surv ial Numb	Materia reyed er, Size	al Surveyed:		EANE 	ር ቦ ሰ Maximum <del>microf</del>
Description	n of Equ TeA	uipment/ erial Surv ial Numb	Materia reyed er, Size	al Surveyed:		ε Α ν ε 	ር ቦ ሰ Maximum <del>microf</del>
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Description	n of Equ TeA em/Mat on, Ser AteR	uipment/ erial Surv ial Numb	Materia reyed er, Size	al Surveyed:		EANE	Maximum æ

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		FARMIN PHONE: (505) 327 NORM SURVEY			550
Facility/Location:	r			Date:	4-30-99
Meter Model:					
Detector Type: [+]	Model 3012	Serial No.:	201-887	- 7100	
[ ]	Model	Serial No.:			
Battery Check [ -					
Calibration Date:	4-5-9	9			
		c	PM		
Background Radiatior	Level:	15 min	TOR/hr		
Description of Equipm	ent/Material	I Surveyed: _		· 	C Mavimum min
Item/Material (Description, Serial N (Description, Serial N	Surveyed umber, Size	I Surveyed: _		· 	c Maximum r <del>nic</del> 15
Description of Equipm Item/Material (Description, Serial N	ent/Material Surveyed umber, Size	I Surveyed: _			Maximum mic
Item/Material (Description, Serial N WAS FE	Surveyed umber, Size	I Surveyed: _			Maximum mic
Item/Material (Description, Serial N (Description, Serial N	Surveyed umber, Size	I Surveyed: _			Maximum mic
Item/Material (Description, Serial N (Description, Serial N	Surveyed umber, Size	I Surveyed: _			Maximum mic
(Description, Serial N WASTE	Surveyed umber, Size	I Surveyed: _			Maximum mic
Description of Equipm Item/Material (Description, Serial N الله مع fr	Surveyed umber, Size	I Surveyed: _			Maximum mic
Description of Equipm Item/Material (Description, Serial N الله مع fr	Surveyed umber, Size	I Surveyed: _			Maximum mic

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No.

New Mexico	Form C-13
bbr. NM®8241-1980 Energy N rals and Natural Resourc	es Derinnent FIVE POriginated 8/8/9
Se First Oll Conservation Divisio	
zia, NM 88210 2040 South Pacheco Street utst III - (505) 334-6178 Santa Fe New Mexico 87505	
3 Rie Brees Board	Environmental Bureau
(505) 827-7131	
<u>배여 IV - (505) 827-7131</u> D 트C트IVE	N
REQUEST FOR APPROVALETO ACREPT	SOLID WASTE
1. RCRA Exempt: 🖸 Non-Exempt: 🖄 🛛 🗐 🗓 CONo DIV	4. Generator E.P.F.S.
Verbal Approval Received: Yes No DIST 3	5. Originating Site Kurz Separator
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Freemyn
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Maxico
7. Location of Material (Street Address or ULSTR)	Sec 11, TZ9N, RIIW, SJC. NM.
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be acc	companied by a certification of waste from the
Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be acc PROVE the material is not-hazardous and the Generator's certification	
listing or testing will be approved.	Shorongin. No waste classified flazardous by
All transporters must certify the wastes delivered are only those consigne	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Coal Fines & Hydrocarbon 5 ludge for	my non and A File I.
Coal Fines & Hydrocarbon 5 ludge Sa	to a manpe to eld. ligued
(North pond)	5. (C)
TECA matals attached.	Deren
( = c , manual , for the last	
	APR 1 9 1999
	OIL CON. DIV.
	DIST. 3 M
Estimated Volume 30 cy Known Volume (to be entered by the op	perator at the end of the haul) $-\frac{80 \text{ Wk}}{2}$ cy
SIGNATURE: Harlow Brone TITLE. Landfarm	Manager DATE:4. ( 9. 2 9
Might Management English Authorized Areat	505-632-0615
TYPE OR PRINT NAME: Harlan M. Brown TE	LEPHONE NO.
(This space for State Use)	
	12/2/194
APPROVED BY: Juny 2. Tour TITLE: Geolo	<u>DG 13</u> DATE: <u>4/21/77</u>
Ma i i i	· · · · · · · · · · · · · · · · · · ·
APPROVED BY: Martine Study	eologist DATE: 4/23/99

District 2 - (505) 393-6161       New Mexico         ? O. Box 1980'       Energy Minerals and Natural Res         ? O. Box 1980'       Energy Minerals and Natural Res         ? O. Box 1980'       Oil Conservation District III - (505) 334-6178         ? Tuter III - (505) 334-6178       2040 South Pacheco S         ? Rio Brazos Road       Santa Fe, New Mexico        c, NM 87410       (505) 827-7131	ivision Street Submit Original
	CEPT SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator E.P.F.S.
Verbal Approval Received: Yes 🗋 No 🔂	5. Originating Site Kurz Separator
2. Management Facility Destination Envirotech Soil Reme Facility Landfarm	#2 6. Transporter Freemen
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Now Marico
7. Location of Material (Street Address or ULSTR)	Sec. 11, TZ9N, RIIW, SJC. NM.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be PROVE the material is not-hazardous and the Generator's cert listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those con BRIEF DESCRIPTION OF MATERIAL:</li> <li>Coal Fines &amp; Hydro conbert 5 (udge States)</li> </ul>	be accompanied by necessary chemical analysis to tification of origin. No waste classified hazardous by
(North pond). Tech matals Attached.	DECENVED APR 1 9 1999 ONL CON. DIV. DECENS 3
Estimated Volume 30 cy Known Volume (to be entered by	
	farm Manager         DATE: 4.19-19           TELEPHONE NO.         505-632-0615
(This space for State Use) APPROVED BY: Demy S. Tam TITLE: Ge	0/09/ST DATE: 4/2//95
APPROVED BY: TITLE:	DATE:

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1. Generator Name and Address:	2. Destination Name:				
El Paso Field Services Co.	Envirotech Soil Remediation Facility Landfarm #2				
614 Reilly Avenue Farmington, NM 87401	Hilltop, New Mexico				
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):				
Kutz Hydrocarbon Recovery Facility	Sec. 11, T29N, R11W, San Juan County, NM				
Attach list of originating sites as appropriate					
4. Source and Description of Waste	· · · · · · · · · · · · · · · · · · ·				
Coal fines and hydrocarbon sludge from non-exemption	pt field liquids				
I, David Bays	representative for:				
(Print Name)					
El Paso Field Services	Co do hereby certify that,				
according to the Resource Conservation and Recov	very Act (RCRA) and Environmental Protection Agency's July,				
1988 regulatory determination, the above described	waste is: (Check appropriate classification)				
	N-EXEMPT oilfield waste which is non-hazardous by aracteristic analysis or by product identification				
and that nothing has been added to the exempt or non-hazardous waste defined above.					
For NON-EXEMPT waste only, the following docum	nentation is attached (check appropriate items):				
MSDS Information	Other (description)				
<u>X</u> RCRA Hazardous Waste Ana Chain of Custody	alysis				
0.0000000000000000000000000000000					
$\bigcap$	P				
Name (Original Signature): Ward	Day				
Title: Dringing Fr	nvironmental Scientist				
Title: Principal Er	With Michael Ocientiat				
Date: April 14, 19	99				

# ENV RO ECHLABS

February 16, 1999

Mr. John Lambdin El Paso Field Services P.O. Box 4990 Farmington, New Mexico 87499

> Project No.: 97057 Job No.: 705708

Dear Mr. Lambdin,

Enclosed are the analytical results for the sample collected from the location designated as "Kutz Separator - EPFS #990028". One soil sample was collected by EPFS designated personnel on 02/04/99, and received by the Envirotech laboratory on 02/05/99 for TCLP Metals analysis.

The sample was documented on Envirotech Chain of Custody No. 6079 and assigned Laboratory No. E606 for tracking purposes.

The sample was analyzed on 02/08/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted, **Envirotech, Inc.** 

u W Lendler

Stacy W. Sender Environmental Scientist/Laboratory Manager

enc.

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## FOVIROTECHLABS

PRACITCAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	El Paso Field Services	Project #:	97057-08
Sample ID:	990028	Date Reported:	02-08-99
Laboratory Number:	E606	Date Sampled:	02-04-99
Chain of Custody:	6079	Date Received:	02-05-99
Sample Matrix:	Liquid	Date Analyzed:	02-08-99
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	•ā. *;	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Levei (mg/L)
				· · · · · · · · · · · · · · · · · · · ·
Arsenic		ND	0.0001	5.0
Barium	•	0.022	0.001	21
Cadmium		ND	0.0001	<b>0.11</b> Contraction
Chromium		ND	0.0001	0.60
Lead		0.0030	0.0001	0.75
Mercury		ND	0.0001	0.025

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

ND

ND

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

0.0001

0.0001

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

Selenium

Silver

Kutz Separator.

-h. Coleccio

Stacy W Sendler Review

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## ENVIROTECHLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

an a				۰		in nen a la join e	an a		
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Mercury	ND	ND	0.0001	ND	ND	0.0% -	0% - 30%		
Lead	ND	ND	0.0001	0.0071	0.0070	1.4%	0% - 30%		
Chromium	· ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Cadmium	ND	ND	0.0001	0.0009	0.0009	0.0%	0% - 30%		
Barium	ND	ND	0.001	0.782	0.783	0.1%	0% - 30%		
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Condition:		N/A		Date Extra	cted:		N/A		
Analysis Requeste	ed:	TCLP Metals	8	Date Analy	/zed:		02-08-99		
Sample Matrix:				Date Rece	ived:		N/A		
Laboratory Number	er:	E603		Date Sam	pled:		N/A		
Sample ID:		02-08-TCM	QA/QC	Date Repo	rted:		02-08-99		
Client:		QA/QC		Project #:			N/A		

Arsenic	0.1000	ND	0.0997	99.7%	80% - 120%
Barium	1.000	0.782	1.78	99.8%	80% - 120%
Cadmium	0.0500	0.0009	0.0508	99.8%	80% - 120%
Chromium	0.0500	ND	0.0498	99.6%	80% - 120%
Lead	0.1000	0.0071	0.107	99.8%	80% - 120%
Mercury	0.0250	ND	0.0249	99.6%	80% - 120%
Selenium	0.1000	ND	0.0998	99.8%	80% - 120%
Silver	0.0500	ND	0.0498	99.6%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples E603 and E606.

Guun Analyst

tacy W Lendler Review

## CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location		ATAP		ANALYSIS / PARAMETERS							,			
Sampler: Sampler: Sampler:	IBDIN Rin	h	Client No.	scpini	1101		lers	5						· · · · · · · · · · · · · · · · · · ·	Remari	cs :	
Sample No./	Sample	Sample	Lab Number		Sample		Containers	15 15 V							-		
Identification 790028	Date 2499	Time 0915	ELOG	U	Matrix	)	/	$\frac{1}{X}$	<b></b>						;		
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Relinquished by: (Signatu	Den	in L	Lind	25-99	1012	al	he	<u> </u>	<u></u>	Q	Lu	Le-	<del>.</del>		2.5.9		0:1:2
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Relinquished by: (Signatu	ure)					Received	d by: (	(Signatu	re)				4				
				ENV	IRO				<u>C.</u>		-			Sample	e Receir		NVA
				5 5	5796 U.S	6. Highw	vay 6	64 97401					Rec	eived Intacl	Y	N	
				rarm	ngton, N (505)	iew Mex 632-06	xico 15	87401	ļ				Cool	Ice/Blue Ic	:0	F	1

Bax 1980	rorm C-13
bi, NM 88241-1980 Energy Mireals and Natural Resource	originated 8/8/9
S. First BECEIVELOSON Pacheco Street	
$\frac{1}{100}$ (303) 334-61/8 III Sandi He New Mexico 87505	APR ~ 3 1999 Pius I Cop
AFK = 76 1000 L/(505) 827-7131	Environmental Bureau District Offic
	Environmental Bureau District Office
REQUESTIFOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator WFS
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Horse Canyon Reboil
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter WFS
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEwscharico
7. Location of Material (Street Address or ULSTR)	
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be acco	mpanied by a certification of waste from the
Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be acco	mpanied by necessary chemical analysis to
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned	I for transport
BRIEF DESCRIPTION OF MATERIAL	APR 1 9 1990
glycol Reclaimer sludge.	APR 1 9 1999 D ONIL GON. DIV. DIST. 3
glycol Reclaimer sludge.	
glycol Reclaimer sludge.	
glycol Reclaimer sludge.	
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTA Norms Survey ATTACHED.	CHED Previously.
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTA Norms Survey ATTACHED.	CHED Previously.
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTOM Norms Survey ATTACHED.	CHED Previously.
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glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTA Norms Survey ATTACHED. Neve	CHED Previously. WHauled DAT 4/12/2
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTAC Norms Survey ATTACHED. Mere Estimated Volume - 1 drum cy Known Volume (to be entered by the optimised by the optised by the optimised by the optised by the	CHED Previously. WHauled DAT 4/12/e erator at the end of the haul) cy
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTAC Norms Survey ATTACHED. Estimated Volume <u>Idrum</u> cy Known Volume (to be entered by the open SIGNATURE: <u>Harlan</u> Marcun TITLE: Landfarm M	CHED Previously. WHauled DAT 4/12/e erator at the end of the haul) cy
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTA Norms Survey ATTACHED. Mere Estimated Volume <u>Idrum</u> cy Known Volume (to be entered by the open SIGNATURE: <u>Howland Control Scours</u> TITLE: Landfarm M	erator at the end of the haul) $CHED$ Previous Sly. Manager DATE: 4.7.99 505-632-0615
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTA Norms Survey ATTACHED. Mere Estimated Volume <u>Idrum</u> cy Known Volume (to be entered by the open SIGNATURE: <u>Howland Control Scours</u> TITLE: Landfarm M	erator at the end of the haul) cy
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTA Norms Survey ATTACHED. Mere Estimated Volume <u>Idrum</u> cy Known Volume (to be entered by the open SIGNATURE: <u>Howland Control Room</u> TITLE: Landfarm M	erator at the end of the haul) $CHED$ Previous Sly. Manager DATE: 4.7.99 505-632-0615
Glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTAC Norms Survey ATTACHED.	erator at the end of the haul) $CHED$ Previous Sly. Manager DATE: 4.7.99 505-632-0615
glycol Reclaimer sludge. TCLP & MSDS SHEETS ATTAC Norms Survey ATTACHED, Meve Estimated Volume <u>Idrum</u> cy Known Volume (to be entered by the open SIGNATURE: <u>Holom Brown</u> TITLE: Landfarm M Waste Management Facility Authorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TEL (This space for State Use)	$\frac{CHED}{Prewionsly}$ $\frac{HED}{Prewionsly}$
TCLP & MSDS SHEETS ATTA Norms Survey ATTACHED. Meve Estimated Volume <u>I drun</u> cy Known Volume (to be entered by the open SIGNATURE: <u>Howlass Management Facility Authorized Agent</u> Waste Management Facility Authorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TEL (This space for State Use)	$\frac{CHED}{Prewionsly}$ $\frac{HED}{Prewionsly}$
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE         1. RCRA Exempt:       Norexempt:       4. Generator       WFS.         Verbal Approval Received:       Yes       Norexemption       5. Originating Site       Weeks E. Commerce         2. Management Facility Destination       Envirotech Soil Remedia.       6. Transporter WFS.         3. Address of Facility Operator       5796 US Highway 64 Parmington, WH 87401       8. State       New Yes         7. Location of Material (Street Address or ULSTR)       9.       State New Yes       9.         9. Circle Ons:       A. All requests for approval to accept non-exempt wastes will be accompanied by a certification of waste from the Generator: one certificate per job.       8. All requests for approval to accept non-exempt wastes must be accompanied by accertification of waste from the Generator: one certificate per job.         8. All requests for approval to accept non-exempt wastes must be accompanied by accertification of waste from the Generator: one certification of waste from the Generator certification of origin. No waste classified hazardous by itsting or testing will be approved.         All transporters must certify the wastes delivered are only those consigned for transport, Parting Form and the generator set of the meterification of waste from the Generator set of the Genera	District I - (505) 393-6161 ? O. Bear 1980 fobbs, NM 88241-1980 District II - (505) 748-1283 111 S. First artesia, NM 88210 ""trict III - (505) 334-6178 artesia Road arc, NM 87410 District IV - (505) 827-7131	New Mexico Energy Minerals and Natural Resource Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Submit Original
Verbal Approval Received:       Yes       No (2)       5. Originating Site "Lass & Comparison of the state of the st		REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
2. Management Facility Destination Envirotech Soil Remedia. 3. Address of Facility Operator S796 US Highway 64 3. Address of Facility Operator S796 US Highway 64 7. Location of Material (Street Address or ULSTR) 3. Circle One: 4. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. 5. All requests for approval to accept oilfield exempt wastes must be accompanied by necessary chemical analysis to PPOVE the metarial is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. 4. All requests for approval to accept one-exempt wastes must be accompanied by necessary chemical analysis to PPOVE the metarial is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. 4. All transporters must certify the wastes delivered are only those consigned for transport. For the period of the second period of the second period of the second period. 4. All transporters must certify the wastes delivered are only those consigned for transport. For the period per	1. RCRA Exempt:	Non-Exempt:	
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3. Address of recting Operator       Farmington, MM 87401       c. state       New Harita         7. Location of Material (Street Address or ULSTR)       9.       Circle One:       A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.         8. All requests for approval to accept oilfield exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.         All transporters must certify the wastes delivered are only those consigned for transport.       Fig. Diff. D	2. Management Facility D	Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter W.F.S.
7. Location of Material (Street Address or ULSTR)         9. Sircle Ons:         A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.         B. All requests for approval to accept oilfield exempt wastes must be accompanied by necessary chemical analysis to PPROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.         All transporters must certify the wastes delivered are only those consigned for transport. For the set of the set of the generator's certification of origin. No waste classified hazardous by listing or testing will be approved.         All transporters must certify the wastes delivered are only those consigned for transport. For the set of	3. Address of Facility Ope		8. State NEW Hereico
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BRIEF DESCRIPTION OF MATERIAL: glycol Reclaimer sludge. TCLP & MSDS_SHEETS_ATTACHED Previously. Norms Survey ATTACHED Previously. Norms Survey ATTACHED Previously. SIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm Manager DATE: <u>4.7.99</u> Weste Management Factily. Weste Management Factily. More Sobolities More Sobolities Management Factily. More Sobolities More Sobolities More Sobolities More More More More More More More More	Generator; one ce B. All requests for ap PROVE the materi listing or testing wi	rtificate per job. proval to accept non-exempt wastes must be acc al is not-hazardous and the Generator's certification ill be approved.	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
Glycol Reclaimer sludge. TCLP & MSDS SHEFTS ATTACHED PREVIOUSLY. Norms Survey ATTACHED PREVIOUSLY. Norms Survey ATTACHED PREVIOUSLY. SIGNATURE: Harlen Cy Known Volume (to be entered by the operator at the end of the haul) cy SIGNATURE: Harlen M. Brown TITLE: Landfarm Manager DATE: 4.7.99 Weste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615 (This space for State Use) APPROVED BY: MEMY & MMT TITLE: Geolog15T DATE: 4/21/97			
SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615 (This space for State Use) APPROVED BY: Memory & Tell: Geologist DATE: 4/21/79	glycol R	eclaimer studge.	APR 1 9 1999
Waste Management FacilityAuthorized Agent         TYPE OR PRINT NAME:         Harlan M. Brown         TELEPHONE NO.         505-632-0615         (This space for State Use)         APPROVED BY:       Descent State Use)         APPROVED BY:       Descent State Use)         APPROVED BY:       Descent State Use)	Estimated Volume	لتسب cy Known Volume (to be entered by the op	perator at the end of the haul)
APPROVED BY: Werry S. Jem TITLE: Geolog13T DATE: 4/21/99	Monto Mana	compation facility Authorized Acont	505-632-0615
	(This space for State U	50)	
APPROVED BY: TITLE: DATE:	APPROVED BY:	my J. Jem TITLE: Geold	09137 DATE: 4/21/99
	APPROVED BY:	· TITLE:	DATE:

1. Generator Name and Address: Williams FIELD SERVICES INC	2. Destination Name:
395 ChipETTA Way	Envirotech Soil Remediation Facility
SALT LOKE CITY, UTAH	Landfarm #2
	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Horse Countron CDP	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Glycol RECLAIMER SLUDGE	
1, B, 11 BEEVERS	representative for:
(Print Name)	
Williams Field Securces according to the Resource Conservation and Recover 1988, regulatory determination, the above described	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, I waste is: (Check appropriate classification)
	<b>MPT</b> oilfield waste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or n	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docu MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Imentation is attached (check appropriate items): <u> </u>
Name (Original Signature): <u>Bile Bound</u>	
Title: DEL SPECIALIST	
Date: 4 - 7 - 99	

(		y .	5680 U.S. HIGHWAY 64 • 87401 / P.O. B FARMINGTON, NEW MEXIC PHONE: (505) 327-2222 • FAX: (50	0
			NORM SURVEY DATA SHEET	
	Facility/Location:	: Williams,	HORSE CANYON COMPRESSOR	Date: <u>4-7-99</u>
	Meter Model:	3007A	Serial No.:	9808-238
	Detector Type:	[ ] Model 3	3012 Serial No:: 201-887-	7100
		[ ] Model	Serial No.:	
	Battery Check	[-]	Source Check [1	
	Calibration Date:	4-5-9	19	
	Source Type:			
	Background Radi	iation Level:	// CPM // <del>microR/hr</del>	
	Equipment		Aterial Surveyed: VARIOUS O	1/+1E/d
	Equipment	terial Surveye	Aterial	CP <u>Maximum miero</u>
	Equipment	terial Surveye	Aterial	СР
	<u>E جسا مس دسا</u> Item/Mat (Description, Ser	terial Surveye	At ERIAL ed Size Quantity, etc.)	<b>C P</b> <u>Maximum miero</u>
	<u>E جسا مس دسا</u> Item/Mat (Description, Ser	terial Surveye	At ERIAL ed Size Quantity, etc.)	<b>C P</b> <u>Maximum miero</u>
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	Equipment Item/Mat (Description, Ser WASTE S	terial Surveye	At ERIAL ed Size Quantity, etc.)	<b>C P</b> <u>Maximum miero</u>

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#### TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL CONCENTRATION

Client:
Project:
Sample ID:
Laboratory ID:
Sample Matrix:

### Williams Field Services

Horse Canyon Reclaimer Horse Canyon Reclaimer 0398G08149 Solid

Date Reported:	11/02/98
Date Sampled:	10/20/98
Date Received:	10/20/98
Date Analyzed:	11/02/98

Arsenic	<0.061	0.061	5	mg/L
Barium	0.80	0.001	100	. mg/L
Cadmium	<0.008	0.008	1	mg/L
Chromium	0.027	0.008	5	mg/L
Lead	<0.04	0.04	5	mg/L
Mercury	<0.0004	0.0004	0.2	mg/L
Selenium	<0.05	0.05	1	mg/L
Silver	<0.03	0.03	5	mg/∟

**References:** 

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846 "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods" 3rd Edition, Final Update III, December, 1996.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846 "Test Methods for Evaluating Solid Waste: Physical/ Chemical Methods" 3rd Edition, Final Update III, December, 1996.

Comments:

Reported By

Reviewed: C

mg/L

mg/L

mg/L

mg∕L

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

P.3/6

#### VOLATILE ORGANIC TOXICITY CHARACTERISTIC LIST TCLP Leachate Method 8260

Client:	Williams Field Services		
Project:	Horse Canyon Reclaimer	Date Reported:	11/03/98
Sample ID:	Horse Canyon Reclaimer	Date Sampled:	10/20/98
Laboratory ID:	0398G06149	Date Received:	10/20/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98
-			

ND

ND

ND,

ND

ND

ND

ND

0.55

ND

ND

ND

ND- Analyte not detected at stated detection level.

0.10

0.10

0.10

0.10

0.10

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0.10

0.10

0.10

0.10

0.10

Reported By:

Benzene

Carbon Tetrachloride

1,2-Dichloroethane

1,1-Dichloroethylene

1,4 Dichlorobenzene

Tetrachloroethylene

Trichloroethylene

Vinyl chloride

Methyl Ethyl Ketone (MEK)

Chlorobenzene

Chloroform

Reviewed:

0.5

0.5

100

6.0

7.5

0.5

0.7

200

0.7

0.5

0.2

2508 W. Mein Street Fermington, New Mexico 87401

#### SEMI-VOLATILE ORGANICS /TCLP TCLP Leachate Method 8270

Client: Project: Sample ID: Laboratory ID: Sample Matrix:	Williams Field Services Horse Canyon Reclaimer Horse Canyon Recalimer 0398G06149 Solid	Date Reported: Date Sampled: Date Received: Date Analyzed:	11/03/98 10/20/98 10/20/98 11/02/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98

mg/L 200 1.0 ND Cresol (Total) 0.13 mg/L 0.10 ND 2.4-Dinitrotoluene 0.13 mg/L 0.10 ND Hexachiorobenzene mg/L 0.5 0.20 Hexachiorobutadiene ND mg/L 0.10 3.0 ND Hexachloroethane 2.0 mg/L 0.50 ND Nitrobenzene 100 mg/L 0.20 ND Pentachlorophenol 5.0 mg/L 0.50 ND Pyridine mg/L 0.50 400 ND 2,4,5-Trichlorophenol 2.0 mg/L 0.50 ND 2,4,6-Trichlorophenol

ND - Analyte not detected at stated detection level.

Reviewed:\_\_(

2508 W. Main Street Farmington, New Mexico 87401

#### **TCLP HERBICIDES** TCLP Leachate Method 8150A

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Client	Williams Field Services		
Project:	Horse Canyon Reclaimer	Date Reported:	11/03/98
Sample ID:	Horse Canyon Recalimer	Date Sampled:	10/20/98
Laboratory ID:	0398G06149	Date Received:	10/20/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98
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			,

2,4-D	ND	0.01	10	mg/L
2,4,5-TP (Silvex)	ND	0.003	1.0	mg/L

ND - Analyte not detected at stated detection level.

Reported By:

Reviewed:

NOV 05 198 04:35PM IML

2508 W. Main Street Fermington, New Mexico 97401

#### TCLP PESTICIES TCLP Leachate Method 8080A

Client: Project: Sample ID: Laboratory ID: Sample Matrix:	Williams Field Services Horse Canyon Reclaimer Horse Canyon Recalimer 0398G06149 Solid	Date Reported: Date Sampled: Date Received: Date Analyzed:	11/03/98 10/20/98 10/20/98 11/02/98
Sample Matrix:	Solid	Date Analyzeu.	11/02/50

gamma-BHC (Lindane)	ND	0.01	0.04	mg/L
Chlordane	ND	0.01	0.03	mg/L
Endrin	ND	0.01	0.02	mg/L
Heptachlor	ND	0.005	0.008	mg/L
Heptachlor Epoxide	ND	0.005	0.008	mg/L
Methoxychlor	ND	0.01	10.0	mg/L
Toxaphene	ND	0.01	0.5	mg/L

ND - Analyte not detected at stated detection level.

Reported By:

Reviewed: 10



## CHAIN OF CUSTODY RECORD

Client/Project Name	···			ect Location	· <u></u> ····	1	1					
Williams FIEL	d Sari	2331	HOP	se Conyou Red	elainse		. / .		S/PAR	AMETERS		
Sampler: (Signature) Bib Bee	un		Chain of Cu	stody Tape No.		50	610			Rema	rks	
Sample No./	Date	Time	ی Lab Number	Matrix		No. of Contalners	Jull 7					
Horse Canyon	10/20/28	12001	+ 6	REBOILER 3	olids	5				Ison	nole	
+ Reclaimer		) 1	· -+	<u> </u>			÷				<u> </u>	
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1633 Terra Avenue Sheridan, Wyoming 828		Phillips Circ		West Main Street ington, NM 87401	1160 Rese Bozeman,				tate Hwy. Station, T		579	71
Telephone (307) 672-89		phone (307)		hone (505) 326-4737	Telephone				ne (409) 7			

in signing

bbl. NM 88241-1980       Energy M       als and Natural Resources Deptiment       Originated         S. First       Oil Conservation Division       Submit G         S. First       2040 South Pacheco Street       Submit G         Valor Brazor Road       2040 South Pacheco Street       Submit G         c. NM 87410       Santa Fe, New Mexico 87505       Plus         rict IV - (505) 827-7131       Env JN :       District         REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE         1. RCRA Exempt:       Non-Exempt:       Santa Fe source       4. Generator Robert L. Bayles         Verbal Approval Received:       Yes No       To Cris       5. Originating Site       Cris         2. Management Facility Destination       Envirotech Soil Remedia.       6. Transporter L \$L       3. Address of Facility Operator       5796 US Highway 64       8. State       8. State       New Mexacco	<u>trict I</u> - (505) 393-6161 ). Box 1980	New Mexico	Form C-13
S. First IN M8 8210       Coll Coll Ect Valuation Division       Subject         Santa Fe, New Mexico 87505       The Branch Rade (505) 827-7131       Subject       Subject         REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE         1. RCRA Exempt: Image: Ima	bl, NM 88241-1980		
Distant III (200) 334-6178 (Xo Braze Road (Xo S) 827-7131       Santa Fe, New Mexico 87505 (So S) 827-7131       Puint Bury JN:         REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE         1. RCRA Exempt:       Non-Exempt:       During Signature Provide State State (So S) 827-7131       A. Generator Robum(L. Bury JN:         2. Management Facility Destination       Environment Provide State (So S) 827-7131       A. Generator Robum(L. Bury JN:         2. Management Facility Destination       Environment Provide State (So S) 827-7131       A. Generator Robum(L. Bury JN: (So S) 827-7131         2. Management Facility Destination       Environment Provide State (So S) 827-7131       So Originating Signature (So Originating Signature (So Originating Signature)         2. Management Facility Destination       Environment Provide State (So S) 827-7131       So Originating Signature (So Originating Signature)         3. Address of Facility Destination       Environment Provide State (So S) 827-7131       Bury JN: (So Originating Signature)         4. Address of Facility Destination       Environment Provide State (State One)       State (So A, T26, M, R (SU State)         9. Citcle One:       A. All requests for approval to accept on-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved.         All transporters must certify the wastes delivered are only those consigned for transport.         BRI			
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE         1. RCRA Exempt:       Non-Exempt:       Image: Solid Provided Solid Provide Solid	.c, NM 87410	(505) 827-7131	District Offi
1. RCRA Exempt:       Non-Exempt:       Image: State of the second secon	urict IV - (505) 827-7131		Env. JN:
1. RCRA Exempt: Image: Ima	•	REQUEST FOR APPROVAL TO ACCEP	PT SOLID WASTE
Verbal Approval Received:       Yes Image: Solution of the solutis of the solution of the solutis of the solutis of th	1. RCRA Exempt: 🔀	Non-Exempt:	
2. Management Facility Destination Facility Landfarm #2 6. Transporter [1] 3. Address of Facility Operator S796 US Highway 64 5. State N= Mayrice 7. Location of Material (Street Address or ULSTR) 9. <u>Citcle One</u> : A. All requests for approval to accept olifield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. 8. All requests for approval to accept olifield exempt wastes must be accompanied by a certification of waste from the Generator; one certificate per job. 8. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Sulfe Treest (Spect). Estimated Volume	Verbal Approval Rec	ceived: Yes 🔀 No 🔲	5. Originating Site CTB
3. Address of Faching Operator       Farmington, NM 87401       C. State       Num Maprica         7. Location of Material (Street Address or ULSTR)       Sace 20 A, T264, R IB w Store         9. Circle One:       A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from 1 Generator; one certificate per job.         8. All requests for approval to accept oilfield exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved.         All transporters must certify the wastes delivered are only those consigned for transport.         BRIEF DESCRIPTION OF MATERIAL:         Sulf Theat (Spect).         Image: Signature is a charage for the state of the hauly of the spece of the spece of the number of the hauly of the spece of the spe	2. Management Facility	y Destination Envirotech Soil Remedia Facility Landfarm #2	6. Transporter L & L
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator's one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis pROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Sulfa Treat (spect).</li> </ul>	3. Address of Facility (		8. State New Marcico
A. All requests for approval to accept olifield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Sulfa Treat (spart). Estimated Volume	7. Location of Material	(Street Address or ULSTR)	Sec 20A, T26N, RIBW SJCN
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Sulf. Treat (spent) DECEIVED APR 1 9 1999 OUL GONo DINO DINT. 3 Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) SIGNATURE: doe TITLE: Landfarm Manager DATE: 4. (9. 9 g) Weste Management FedityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown THE space for State Use)	9. <u>Circle One</u> :		
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Sulfa Treat (spart) DECEIVED APR 1 9 1999 OIL CONo DIVo DISTa 3 Estimated Volume cy Known Volume (to be entered by the operator at the end of the haui)	A. All requests for	approval to accept oilfield exempt wastes will be a	ccompanied by a certification of waste from the
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SIGNATURE: <u>Harlan M. Brown</u> TITLE: <u>Landfarm Manager</u> DATE: <u>4.19.99</u> TYPE OR PRINT NAME: <u>Harlan M. Brown</u> (This space for State Use)			and a second the second se
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TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615	Weste M	Is a same at Easily A the stand A sent	· · · · · · · · · · · · · · · · · · ·
(This space for State Use)		E. Harlan M. Brown	505-632-0615
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CERTIFICATE OF WASTE STATUS         1. Generator Name and Address: Rosmar L. Boylang Drilling. Barmington Not Stron         2. Destination Name: Rosmar L. Boylang Drilling. Barmington Not Stron         3. Originating Site (name): Tocore Davis CTS Scorrer Davis Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described waste is: (Cheal appropriate classification)	Name and Address:       2. Destination Name:         F. L. Boyloog Oni(Utg.)       Envirotech Soil Remediation Facility Landfarm #2         B. Hurr 170       Envirotech Soil Remediation Facility Landfarm #2         Site (name):       Location of the Waste (Street address &/or ULSTR):         Description of Waste       Location of the Waste (Street address &/or ULSTR):         Description of Waste       Treat.         MCARTHY       representative for:         MMLESS       do hereby certify that         e Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July         y determination, the above described waste is: (Check appropriate classification)         Sitield waste       NON-EXEMPT cilield waste which is non-hazardous by characteristic analysis or by product identification         g has been added to the exempt or non-exempt non-hazardous waste defined above.         MPT waste only the following documentation is attached (check appropriate items):         MSDS Information       Other (description):         RCAA Hazardous Waste Analysis       Chain of Custody	4- 5-99; /:42AM;YUUNG ENVIRUNMENTAL	;505 6321865
1. Generator Name and Address:       2. Destination Name:         Rossar L. Byless Drilling.       Surface Drilling.         3.6 8 Hwr 170       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       Location of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W       Section of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W       Swwwww.com.etc.         Swwww.com.etc.       Control of Waste         Swwww.com.etc.       (Print Name)         downers       Generative for:         Robust L. Shutess       (Print Name)         downers       do hereby certify         sccording to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described wasta is: (chest appropriate classification)         X       EXEMPT oilfield wasts	Name and Address:       2. Destination Name:         F. L. Brytness Duilling.       Envirotech Soil Remediation Facility Landfarm #2 Hillton. New Mexico         Site (name):       Envirotech Soil Remediation Facility Landfarm #2 Hillton. New Mexico         Site (name):       Location of the Waste (Street address &/or ULSTR):         Description of Waste       Envirotech Soil Remediation Facility Landfarm #2 Hillton. New Mexico         Description of Waste       Forest         Description of Waste       Forest         MCARTMY       representative for:         MMLESS       (Print Name)         determination, the above described waste is: (Cheak appropriate cleasification)         Siteled waste       NON-EXEMPT collified waste which is non-hazerdous by characteristic analysis or by product identification         g has been added to the exempt or non-exempt non-hazerdous waste defined above.       MPT waste only the following documentation is attached (check appropriate items): MSDS Information         MSDS Information       Other (description): RCRA Hazardous Waste Analysis       Other (description): RCRA Hazardous Waste Analysis         Signeture):       Topo       Mathematical		RECEIVED APR 06 19
1. Generator Name and Address:       2. Destination Name:         Rossar L. Byless Drilling.       Surface Drilling.         3.6 8 Hwr 170       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       Location of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W       Section of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W       Swwwww.com.etc.         Swwww.com.etc.       Control of Waste         Swwww.com.etc.       (Print Name)         downers       Generative for:         Robust L. Shutess       (Print Name)         downers       do hereby certify         sccording to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described wasta is: (chest appropriate classification)         X       EXEMPT oilfield wasts	Name and Address:       2. Destination Name:         F. L. Brytness Duilling.       Envirotech Soil Remediation Facility Landfarm #2 Hilltop. New Mexico         Site (name):       Location of the Waste (Street address &/or ULSTR):         Description of Waste       Location of the Waste (Street address &/or ULSTR):         Description of Waste       Treat.         MCARTMY       representative for:         MMLESS       (Print Name)         determination, the above described waste is: (Check appropriate cleasification)         Site waste       NON-EXEMPT cilifield waste which is non-hazerdous by characteristic analysis or by product identification         g has been added to the exempt or non-exempt non-hazerdous waste defined above.         MPT waste only the following documentation is attached (check appropriate itams):         MSDS Information       Other (description):         RCAA Hazardous Waste Analysis       Other (description):         Ghain of Custody       Signeture):	· · · · · · · · · · · · · · · · · · ·	· ····································
1. Generator Name and Address:       2. Destination Name:         Rossar L. Byless Drilling.       Surface Drilling.         3.6 8 Hwr 170       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       Location of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W       Section of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W       Swwwww.com.etc.         Swwww.com.etc.       Control of Waste         Swwww.com.etc.       (Print Name)         downers       Generative for:         Robust L. Shutess       (Print Name)         downers       do hereby certify         sccording to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described wasta is: (chest appropriate classification)         X       EXEMPT oilfield wasts	Name and Address:       2. Destination Name:         Fr C. B-grass Drilling.       Envirotech Soil Remediation Facility Landfarm #2 Hilltop. New Mexico         Site (name):       Envirotech Soil Remediation Facility Landfarm #2 Hilltop. New Mexico         Site (name):       Cocation of the Waste (Street address &/or ULSTR):         Description of Waste       Envirotech Soil Remediation Facility Landfarm #2         McMark CTB       Cocation of the Waste (Street address &/or ULSTR):         Description of Waste       Treat.         McMark THY       representative for:         MMLESS       (Print Name)         do hereby certify the e Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July determination, the above described waste is: (Check appropriate cleasification)         Siteled waste       NON-EXEMPT alifield waste which is non-hazerdous by characteristic analysis or by product identification         g has been added to the exempt or non-exempt non-hazerdous waste defined above.         MPT waste only the following documentation is attached (check appropriate items): MSDS Information RCRA Hazardous Waste Analysis Chain of Custody         Signeture):       Topo Markada		
1. Generator Name and Address:       2. Destination Name:         Rossar L. Byless Drilling.       Surface Drilling.         3.6 8 Hwr 170       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       Location of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W       Section of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W       Swwwww.com.etc.         Swwww.com.etc.       Control of Waste         Swwww.com.etc.       (Print Name)         downers       Generative for:         Robust L. Shutess       (Print Name)         downers       do hereby certify         sccording to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described wasta is: (chest appropriate classification)         X       EXEMPT oilfield wasts	Name and Address:       2. Destination Name:         Fr C. B-glass Drilling.       Envirotech Soil Remediation Facility Landfarm #2 Hillton. New Mexico         Site (name):       Envirotech Soil Remediation Facility Landfarm #2 Hillton. New Mexico         Site (name):       Cocation of the Waste (Street address E/or ULSTR):         Description of Waste       Envirotech Soil Remediation Facility Landfarm #2         McMark J.M.       Street address E/or ULSTR):         Description of Waste       Foreat.         McMark J.M.       representative for:         MMLESS       (Print Name)         e Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July determination, the above described waste is: (Check appropriate cleasification)         Siteled waste       NON-EXEMPT celified waste which is non-hazerdous by characteristic analysis or by product identification         g has been added to the exampt or non-exampt non-hazerdous waste defined above.         MPT waste only the following documentation is attached (check appropriate items): MSDS Information RCRA Hazzdous Waste Analysis Chain of Custody         Signeture):       Topo Mark J.		
1. Generator Name and Address:       2. Destination Name:         Rossar L. Byless Drilling.       Surface Drilling.         3.6 B HWT 170       Envirotech Soil Remediation Facility Landfarm #2         3. Originating Site name):       DM 57401         3. Originating Site name):       Location of the Waste (Street address &/or ULSTR):         Section 25 A 726N RIS W         Sw. DAN CONTY, NM         Attach list of originating sites as appropriate         4. Source and Description of Waste         Suff. Treat.         (Print Name)         according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's         1988, regulatory determination, the above described wasta is: (Cheat appropriate classification)         X EXEMPT oilfield wasts       NON-EXEMPT oilfield wasts which is non-hazardous by character analysis or by product identification         and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.         For NON-EXEMPT waste only the following documentation is attached (check appropriate items):         MSDS Information         MSDS Information         MADEXEMPT         Mame (Original Signature):	Name and Address:       2. Destination Name:         Fr C. B-grass Drilling.       Envirotech Soil Remediation Facility Landfarm #2         B Hwy 170       Envirotech Soil Remediation Facility Landfarm #2         Site (name):       Location of the Waste (Street address &/or ULSTR):         Description of the Waste       Cocation of the Waste (Street address &/or ULSTR):         Description of Waste       Cocation of the Waste (Street address &/or ULSTR):         M CARTHY       Integineting attes as epropriete         Description of Waste       representative for:         MMLESS       (Print Name)         do hereby certify the         Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July determination, the above described waste is: (Check appropriate dessification)         Siteled waste		OF WASTE STATUS
368 Hurring       Envirotech Soil Remediation Facility Landfarm #2         3. Ordinating Site (name): Toc:re Doms CTB Section 20 A, T26H, R13 M       Envirotech Soil Remediation Facility Landfarm #2         3. Ordinating Site (name): Toc:re Doms CTB Section 20 A, T26H, R13 M       Location of the Waste (Street address &/or ULSTR): Section 20 A, T26H, R13 M         SW-WAW CONTY, NM Attachilist of originating date as appropriate       Location of the Waste (Street address &/or ULSTR): Switch 20 A, T26H, R13 M         1. Torial Michael originating date as appropriate Suice and Description of Waste Suice and Description of Waste Suice and Description of Waste       representative for: (Print Name)         1. Torial Michael or the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described waste is: (Cheak appropriate classification)         X EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteri analysis or by product identification         and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.       Stock Information (Ditter (description)): RCRA Hazardous Waste Analysis Chain of Custody         Name (Original Signature):       Toge Michael Michael (Chein al Signature):       Toge Michael Mich	E Hur T70 Envirotech Soil Remediation Facility Landfarm #2 Hilton. New Mexico Site Inames: Location of the Weste (Street address &/or ULSTR): Description of Waste Control (Control (	1. Generator Nama and Address:	
3. Originating Site (name):       Location of the Waste (Street address &/or ULSTR):         The Inter of originating sites as appropriate       Section 20 A, T26N, R13 M         Saw JuAN (DUNTY, NM)       Attach list of originating sites as appropriate         4. Source and Description of Waste       Source and Description of Waste         Source and Description of Waste       Source Section of the Waste (Street address &/or ULSTR):         In Treat.       (Print Name)         according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described waste is: (Cheek appropriate classification)         X EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazerdous by character analysis or by product identification         and that nothing has been added to the exempt or non-axempt non-hazerdous waste defined above.       For NON-EXEMPT waste only the following documentation is attached (check appropriate items):         MSDS Information       Other (description):         RCRA Hazardous Waste Analysis       Other (description):         MSDS Information       Other (description):         MCRA Hazardous Waste Analysis       Chain of Custody         Name (Original Signature):       Total Maxee	Site (name):       Location of the Waste (Street address &/or ULSTR):         Description of User       Description of Waste         Description of Waste       Treat.         MULESS       do hereby certify the         Participation of Waste       do hereby certify the         Participation       (Print Name)         MULESS       do hereby certify the         Passeription, the above described waste is:       (Check appropriate classification)         silfield waste	368 HWY 170	Landfarm #2
Section 23 A, TZ&N, RI3 W         San JUAN (DUNTY), NM         Attest list of originating sites as appropriate         4. Source and Description of Waste         S_IF         S_IF         Tread.         I, TOM M (ARTHY         (Print Name)         (Print Name)         do hereby certify         according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's         according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's         according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's         according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's         1988, regulatory determination, the above described waste is: (Check appropriate classification)         X       EXEMPT oilfield waste	A, T 26N, R13 W         County, NM         Intering attee as appropriate         Description of Waste         Tread.         W CARTAY         Intering attee as appropriate         Intering attee as appropriate         Tread.         W CARTAY         Intering attee as appropriate         Intering attee as appropriate         Intering attee as appropriate         Intering attee as appropriate analysis or by product identification         Intering and to the exempt or non-exempt non-hazardous waste defined above.         MPT waste only the following documentation is attached (check appropriate itams):         MSDS Information	3. Originating Site (name):	
4. Source and Description of Waste Silfier Treast. A. Ten M CARTHY	Description of Waste Tr ==<.	SECTION 20 A, TZEN, RISM	
Sulfa Tread.         A. Tow M CARTHY       representative for:         Reprint Conservation and Recovery Act (RCRA) and Environmental Protection Agency's do hereby certify according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described waste is: (Check appropriate cleasification)         X. EXEMPT oilfield waste	Tread.         MCARTHY	Attesh list of originating sites as appropriate 4. Source and Description of Weste	
Construction       (Print Name)         BERT L. BAYLESS       do hereby certify         according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's         1988, regulatory determination, the above described waste is: (Cheek appropriate classification)         x       EXEMPT oilfield waste	(Print Name) <u>BAYLESS</u> a Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's Jury determination, the above described waste is: (Check appropriate classification) alifield waste	-	
Resert L. SALLES       do hereby certify         according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's         1988, regulatory determination, the above described waste is: (Cheek appropriate cleanification)         X       EXEMPT oilfield waste	(Print Name) <u>BAYLESS</u> a Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July y determination, the above described waste is: (Check appropriate classification) wilfield waste		
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According to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's 1988, regulatory determination, the above described waste is: (Cheek appropriate classification) X EXEMPT oilfield waste	a Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's Ju y determination, the above described waste is: (Cheek appropriate classification) alifield waste		
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For NON-EXEMPT waste only the following documentation is attached (check appropriate items):          MSDS Information       Other (description):         RCRA Hazardous Waste Analysis       Other (description):         Chain of Custody       Name (Original Signature):	MPT waste only the following documentation is attached (check appropriate items): MSDS InformationOther (description): RCRA Hazardous Waste Analysis Chain of Custody Signature):		
MSDS Information Other (description): RCRA Hazardous Waste Analysis Chain of Custody Name (Original Signature):	MSDS Information Other (description): RCRA Hazardous Waste Analysis Chain of Custody Signature):	and that nothing has been added to the exempt or ne	on-exempt non-hezerdous waste defined above.
Chain of Custody Name (Original Signature):	Chain of Custody Signature):		
Name (Original Signature): Topo Marting Title: <u>ENGINEER</u> Date: <u>4/5/99</u>	Signature): Tem MMMM MEEP. 199	For NON-EXEMPT waste only the following documents of the following document	mentation is attached (check appropriate items):
Name (Original Signature): <u>Tean Miller Mille</u> Title: <u>ENGINEEE</u> Date: <u>4/5/99</u>	Signature): <u>Tean III John III</u> IN ÉÉR 199	For NON-EXEMPT waste only the following docu MSDS Information RCRA Hazardous Waste Analysis	mentation is attached (check appropriate items):
Title: <u>ENGINEEP</u> Date: <u>4/5/99</u>	199 199	For NON-EXEMPT waste only the following documents of the following document	mentation is attached (check appropriate items):
Date: 4/5/99	/99	For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Imentation is attached (check appropriate items): Other (description):
		For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Imentation is attached (check appropriate items): Other (description):
		For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Imentation is attached (check appropriate items): Other (description):

Intrict I - (505) 393-6161       New Mexico         O, Box 1980       Energy M       als and Natural Resource         obbs, NM 88241-1980       Energy M       als and Natural Resource         strict II - (505) 748-1283       Oil Conservation Divisio         s. First       2040 South Pacheco Street         'tyler III - (505) 334-6178       Santa Fe, New Mexico 87505         'Rio Brazos Road       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator NHOCD- Wooslog
Verbal Approval Received: Yes 🗹 No 🔲	5. Originating Site Santa Faturagy
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Kang Envoy - Bigh-
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Daw Maxico
7. Location of Material (Street Address or ULSTR)	P" SECB, TIAN, REW derkinding
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accomproved by the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:</li> <li>Clam up actorials spilled from um</li> </ul>	n of origin. No waste classified hazardous by d for transport.
Estimated Volume cy Known Volume (to be entered by the op SIGNATURE:	· · · · · · · · · · · · · · · · · · ·
(This space for State Use) APPROVED BY: A any G. Fort TITLE: GCO/O APPROVED BY: Charle' Them TITLE:	<u>9'57</u> DATE: <u>3/3//99</u> DATE:

1. Generator Name and Address: NMOCO - WOSLEY PEA	2. Destination Name:
1000 Rio BRAZOS RD,	Envirotech Soil Remediation Facility
Az-Tec, Del. 87410	Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
SAUTA FE to (	
"P" Soc 8, TI9N, RGW MS	kiuley.
Attach list of originating sites as appropriate	_
4. Source and Description of Waste	
BSELD From Vertical Sapa	- Nor spilled @" A Plus" youd
clance up of kitty without	
Being desved under WMOCD Contract.	
no an Fourt	

 I.
 Denny 1-045/
 representative for:

 (Print Name)
 (Print Name)
 do hereby certify that,

 Mew Mexico Oil Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,

 1988, regulatory determination, the above described waste is: (Check appropriate classification)

 $\mathbf{X}$  EXEMPT oilfield waste

\_\_\_\_ NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

Other (description):

1

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- \_\_\_\_ MSDS Information
  - RCRA Hazardous Waste Analysis
  - Chain of Custody

Name (Original Signature): Dent Fort	
Title: Environmental Geologist	-
Date: 3/3//99	

Conservation Divisio         S. First         Sia, NM 88210         Unict III - (505) 334-6178         P Rio Brazos Road         Sc, NM 87410         Unict IV - (505) 827-7131	Env. JN: <u>9705760</u> Form C-138 Originated 8/8/95 Submit Original Plus 1 Copy to appropriate District Office
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 3:22.99	4. Generator EPFS
Verbal Approval Received: Yes 🗹 No 🔲	5. Originating Site Turley Compressor
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduine TECH
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Naw Plapico
7. Location of Material (Street Address or ULSTR)	SW/HW & NWSW Sec 30, T 30N, R9W SJC.
All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:	
cleaning of glycol upsat @ Natural gas	VED
cleanup of glycol upsat @ Natural gas DECEI N MAR 2 4	AED
DECEI N MAR 2 4	VED 1999 . DIV.
DECEI N MAR 2 4 OIL GOIN	VED 1999 DIV 3
Estimated Volume 2 cy Known Volume (to be entered by the op SIGNATURE: <u>Hanland</u> Receit Waste Management FacilityAuthorized Agent Hanland M. Brown	WED 1999 to DIVo 3 rerator at the end of the haul) <u>6</u> cy

١.

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR);
Turley Compressor Station	Township 30 North, Range 9 West, SW/4 of the NW/4, and NW/4 of the SW/4, Section 30 San Juan County,
	New Mexico
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Soil contaminated with glycol from the natural gas	dehudrator
Son contaminated with grycol from the natural gas	
I, David Bays	representative for:
(Print Name)	
El Dassa Field Comissos	<b>0</b>
El Paso Field Services	
according to the Resource Conservation and Reco 1988 regulatory determination, the above described	very Act (RCRA) and Environmental Protection Agency's July,
rood regulatory determination, the above describer	
X EXEMPT Oilfield waste NON	SYEMPT alfield waste which is non horordous by
	N-EXEMPT oilfield waste which is non-hazardous by racteristic analysis or by product identification
and that nothing has been added to the exempt or	non-hazardous waste defined above.
For NON-EXEMPT waste only, the following docum	nentation is attached (check appropriate items):
MSDS Information	Other (description)
RCRA Hazardous Waste An	
Chain of Custody	
$\overline{\qquad}$	•
Name (Original Signature):	Bays
	v cuje
Title: Principal E	nvironmental ScientIst
Date: 03/22/99	

j

InteractionInteraction9. Box 1980Energy MirIs and Natural Resource9. bit, Mid 68241-1980Energy MirIs and Natural Resource11 - (505) 748-1283Jil Conservation Divisio5. FirstJil Conservation Divisio11 - (505) 334-61782040 South Pacheco Street1 Rio Brazos Road(505) 827-71311 rict IV - (505) 827-71311	n MAR 2 6 1999 Environmental Bureau Env. Dil Conservation Division Environmental Bureau Env. Dil Conservation Division N:	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: Non-Exempt: X 10:00 d. d. 3.22 99	4. Generator Unducosal Compression	
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Segmere 723	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENUIROTHER	
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Maroico	
7. Location of Material (Street Address or ULSTR)	"L" See 24, T3IN, R9W SJC.	
9. <u>Circle One</u> :		
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> </ul>		
All transporters must certify the wastes delivered are only those consigned		
BRIEF DESCRIPTION OF MATERIAL: Clean up of New Motor oil released on a compression Location MSDS Attached. DECEIVED		
OEL COM.	BAR 3 0 1999	
	OIL CON. DIV. DIST. 3	
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) cy	
SIGNATURE: Harlan M. Brown TITLE: Landfarm I Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEI	Manager DATE: <u>3.24.99</u> _EPHONE NO	
(This space for State Use) APPROVED BY: Jong D. Tem TITLE: Feolo	0913T DATE: 3/24/99	
APPROVED BY: Martyn, Mun TITLE: Env Ge	ologist DATE: 3/26/99	

D5) 393-6161         New Mexico           980         NM 88241-1980         Energy Minerals and Natural Resource           - (505) 748-1283         Energy Minerals and Natural Resource           811 S. First         Oil Conservation Divisi           Artesia, NM 88210         2040 South Pacheco Street           1' trict III - (505) 334-6178         Santa Fe, New Mexico 8750           Nio Brazos Road         (505) 827-7131	ON Submit Original
REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt:       Image: Source of the second sec	4. Generator UNDUarsal Compression
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Saymore 723
2. Management Facility Destination Envirotech Soil Remedia Facility Landfarm #2	6. Transporter ENUIROTER
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Num Maroico
7. Location of Material (Street Address or ULSTR)	"L" See 24, T3IN, RAW SJG
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be acceptance of the constant of the con</li></ul>	companied by necessary chemical analysis to ion of origin. No waste classified hazardous by ed for transport. WED 1999 $\odot$ DIV
Estimated Volume Cy Known Volume (to be entered by the cy	operator at the end of the haul) cy
SIGNATURE: Harlan M. Brown TITLE: Landfarm Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown T	501 (112:0635
(This space for State Use) APPROVED BY: Demy J. Pour TITLE: Geold	<u>Dels</u> DATE: <u>3/24/97</u>
APPROVED BY:	DATE:

1 Box 1980       INEW IVIEXICO         1 Box 1980       Energy linerals and Natural Resource         1 Irits III - (505) 748-1283       Oil Conservation Division         2010       2040 South Pacheco Street         1 Irits III - (505) 334-6178       Santa Fe, New Mexico 87505         1 Rin Brazos Road       (505) 827-7131	MAR 2 6 1999 Submit Original			
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE			
1. RCRA Exempt: Non-Exempt: X 10:00 A.M. 3:22 99	4. Generator UNDUersal Compression			
Verbal Approval Received: Yes 🔀 No 🛄	5. Originating Site Segmere 723			
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENVINCOTECH			
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Niew Marcico			
7. Location of Material (Street Address or ULSTR)	"L" See 24, T3IN, R9W SJC			
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>EF DESCRIPTION OF MATERIAL:</li> <li>Clean up of New Motor oil released are proved.</li> <li>3.23.99 11600 LF+2 Z-12 12cy</li> <li>MAR 2 4 1999</li> <li>DECENNED</li> <li>DECENNED</li> </ul>				
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy				
SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3.24.99 Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615				
(This space for State Use) PPROVED BY: Jong D. Ten TITLE: Feolo APPROVED BY: Martyn, Ann TITLE: Env Ge				

District 2 - (505) 393-6161 New Mexico Form C-138 ? O. Box 1980 Energy Minerals and Natural Resources Department Originated 8/8/95 Tobbs, NM 88241-1980 Discrict II - (505) 748-1283 Oil Conservation Division 111 S. First Submit Original 2040 South Pacheco Street irtesia, NM 88210 Plus I Čopy ·'-+-'-+ III - (505) 334-6178 Santa Fe, New Mexico 87505 to appropriate ) Brazos Road (505) 827-7131 District Office MM 87410، بتد Env. JN: 98059-04 District IV - (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE Donny Foust 10:00 A.M. 4. Generator UNDUarsal Compression Non-Exempt: X 1. RCRA Exempt: 3.23 99 5. Originating Site Segmere 723 Verbal Approval Received: Yes 🔀 No 🗌 Envirotech Soil Remedia. Facility Landfarm #2 2. Management Facility Destination 6. Transporter ENVIROTERN 5796 US Highway 64 8. State Num Maroico 3. Address of Facility Operator Farmington, NM 87401 "L" See 24, T3IN, ROW SJG 7. Location of Material (Street Address or ULSTR) 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator: one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. IEF DESCRIPTION OF MATERIAL: Clean up of New Motor oil released on a compressor (acatton 45DS Attached. (0) - cy Known Volume (to be entered by the operator at the end of the haul) ----Estimated Volume -TITLE: Landfarm Manager DATE: 3.24.99 Brow SIGNATURE: Waste Management FacilityAuthorized Agent 505-632-0615 Harlan M. Brown TELEPHONE NO. TYPE OR PRINT NAME: 'This space for State Use) APPROVED BY: TITLE: DATE: APPROVED BY: TITLE: DATE:

24/1999 08:44 505? 547 3-24-99; 8:25AM;YUL VVIRONMENTAL	UNIVERSALCO" "ESSION PAGE 03 ;505 6321865 # 2/
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• • • • • • • • • • • • • • • • • • •	
CERTIFICATE	OF WASTE STATUS
1. Generator Name and Address: UNIV or SAL Compression	2. Destination Name:
1125 43 Har 550	Envirotech Soil Remediation Facility
AZTE, NA 87400	Landfarm #2 Hillrop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Saymore 723 "L", Seezy, TSIN, Rawf	SAME
Sau Juan Country Det Attrobilist of originating alter as appropriate	
4. Source and Description of Waste	
Clampof Now Motore CHENEON Gue ENGINE O	all spill
	or sel she to yo
L	
1. Jon Low 05	representative for:
(Print Name) UNIVERSAL Compression	do hereby certify that
according to the neteorice conservation and Meco	Wery Act (RCHA) and Environmental Protection Agency's July
1988, regulatory determination, the above describe	ed waste is: (Check appropriate classification)
EXEMPT offield waste	ed waste is: (Check appropriate classification) (EMPT oilfield waste which is non-hazardous by characteristic
EXEMPT olifield waste     X NON-EX     analysis	ed waste is: (Check appropriate classification) (EMPT oilfield waste which is non-hazardous by characteristic ; or by product identification
EXEMPT oilfield waste analysis and that nothing has been added to the exempt or	ed waste is: (Check appropriate classification) (EMPT oilfield waste which is non-hazardous by characteristic ; or by product identification non-exempt non-hazardous waste defined above.
EXEMPT oilfield waste analysis and that nothing has been added to the exempt or	ed waste is: (Check appropriate classification) (EMPT oilfield waste which is non-hazardous by characteristic ; or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items):
EXEMPT oilfield waste     EXEMPT oilfield waste     MON-EXEMPT waste only the following doc     MSDS Information     RCRA Hazardous Waste Analysis	ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
EXEMPT oilfield waste and that nothing has been added to the exempt or For NON-EXEMPT waste only the following doc MSDS Information	ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
EXEMPT offield waste     EXEMPT offield waste     MON-EXEMPT waste only the following doc     MSDS information     RCRA Hazardous Waste Analysis	ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
EXEMPT oilfield waste     EXEMPT oilfield waste     MON-EXEMPT waste only the following doc     MSDS Information     RCRA Hazardous Waste Analysis	ed waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. cumentation is attached (check appropriate items): Other (description):
According to the Resource Conservation and Reco 1988, regulatory determination, the above describe 	ed waste is: (Check appropriate classification) (EMPT oilfield waste which is non-hazardous by characteristic : or by product identification non-exempt non-hazardous waste defined above. ::::::::::::::::::::::::::::::::::::
EXEMPT ollfield waste     EXEMPT ollfield waste     MON-EXEMPT waste only the following doc     MSDS Information     RCRA Hazardous Waste Analysis	ed waste is: (Check appropriate classification) (EMPT oilfield waste which is non-hazardous by characteristic : or by product identification non-exempt non-hazardous waste defined above. ::::::::::::::::::::::::::::::::::::

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001/018 COASTAL CHEMICAL ---- FARMINGTON 05/08/95 18:47 🖾713 477 1564 Material Safety Data Sheet CHEVRON Material Safety Data Sheet CHEVRON Page 1 of 7 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION AJAX CHEVRON Gas Engine Oil 541 SAE 15W-48 PRODUCT NUMBER(S): CPS235458 COMPANY IDENTIFICATION EMERGENCY TELEPHONE NUMBERS Chevron USA Products Company HEALTH (24 hr): (800)231-0623 or Environmental, Stfety, and Health (510)231-0623 (International) Room 2900 TRANSPORTATION (24 hr): CHENTREC 575 Market St. (800)424-9300 or (202)483-7616 San Francisco, Cf 94105-2856 PRODUCT INFORMATION: MSDS Requests: (800) 228-3500 Environmental, Safety, & Health Info: (415) 894-1899 Product Information: (800) 582-3835 2. COMPOSITION/INFORMATION ON INGREDIENTS 100.0 × CHEVRON Gas Engine Oil 541 SAE 15W-40 CONTAINING COMPONENTS AHOUNT LIHIT/QTY AGENCY/TYPE LUBRICATING BASE DIL CONTAINING ONE OR MORE OF THE FOLLOWING > 85.0× SOLVENT REFINED DIST., HVY PAR Chemical Name: DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC 5 mg/m3 (mist) ACGIH TWA CA564741884 10 mg/m3 (mist) ACGIH STEL OSHA PEL 5 mg/m3 (mist) SOLVENT DEWAXED DIST., HVY PAR Chemical Name: DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC 5 mg/m3 (mist) ACGIH TWA CAS64742650 Revision Number: ? Revision Date: 01/11/95 MSDS Number: 004701 NA - Not Applicable NDA - No Data Available Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (2400.1) by the Toxicology

and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804 CHEVRON Gas Engline 011 541 SAE 158-40 Page 2 of 7

10	mg/m3	(mist)	ACGIH	STEL
<b>5</b> a	mg/m3	(mist)	OSHA [	PEL

ADDITIVES

#### < 15.0×

COMPOSITION COMMENT: All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fit: the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-tern Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	PEL - Permissible Exposure Limit
C - Ceiling Limit	CAS - Chemical Abstract Service Number
A1-5 - Appendix F Categories	() - Change Has Been Proposed

#### 3. HAZARDS IDENTIFICATION

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#### POTENTIAL HEALTH EFFECTS

EYE: This substance is not expected to cause prolonged or significant eye irritation. This hazard evaluation is based on the known toxicity of the ingredients in this substance. SKIN: This substance is not expected to cause prolonged or significant skin irritation. The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. This hazard evaluation is based on the known toxicity of the ingredients in this substance. INGESTION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed. This hazard evaluation is based on data from similar materials. INHALATION: The systemic toxi: ity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled. Prolonged or repeated breathing of petroleum oil mist can cause respiratory irritition. This hazard evaluation is based on data from similar materials. SIGNS AND SYMPTOMS OF EXPOSURE: INHALATION: Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchimis, pulmonary edema and difficulty in breathing. مرد می هی دارد بند دن چی برد ده، می برد در در ای ای ای ای ای ای ا 

#### 4. FIRST AID MEASURES

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**Revision Number: 2** Revision Date: 01/11/95 MSDS Number: 004701 NDA ·· No Data Available NA - Not Applicable CHEVRON Gas Engine Oil 541 SAE 15W-40 Page 3 of 7 EYE: No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn. SKIN: No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing. INGESTION: If suallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital. INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if disconfort or irritation continues. 5. FIRE FIGHTING MEASURES FLAMMABLE PROPERTIES: FLASH POINT: COC 406F (208C) Min. AUTOIGNITION: NDA FLAMMABILITY LIMITS (x by volume in air): Lower: NA Upper: NA EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam, Water Fog NFPA RATINGS: Health 1; Flammability 1; Reactivity 0. FIRE FIGHTING INSTRUCTIONS: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire document. COMBUSTION PRODUCIS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of nitrogen. Incomplete combustion can produce carbon monoxide. 6. ACCIDENTAL RELEASE MEASURES CHENTREC EMERGENC? NUMBER (24 hr): (800)424-9300 or (202)483-7616 ACCIDENTAL RELEASI: MEASURES: Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil,

surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and

appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

و خال و با و مرح و محد و خال از با از با از با از با از با از با و از 20 م 20 م من و از از از از از از از از از

7. HANDLING AND STORAGE

HANDLING AND STORAGE:

Revision Number: 2 Revision Date: 01/11/95 MSDS Number: 004701 NDA ·· No Data Available NA - Not Applicable CHEVRON Gas Engine 011 541 SAE 15W-40 Page 4 of 7

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or drum may rupture with explosive force. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT EYE/FACE PROTECTION: No special eye protection is usually necessary. SKIN PROTECTION:

No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.

**RESPIRATORY PROTECTION:** 

No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.

ENGINEERING CONTROLS:

EVAPORATION RATE:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

\_\_\_\_\_

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Pale, lemon yellow liquid. NDA pH: **VAPOR PRESSURE:** NA VAPOR DENSITY (AIR=1): NA **BOILING POINT:** NDA FREEZING POINT: NDA MELTING POINT: NA SOLUBILITY: SPECIFIC GRAVITY:

NA Soluble in hydrocarbon solvents; insoluble in water. 0.88 @ 15.6/15.6C NA

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VIŠCOSITY: 13.0 cSt @ 100C (Min.) PERCENT VOLATILE (VOL): NA 10. STABILITY AN)) REACTIVITY . بالتي يويد بين و ال حلة الله حلة الله بين عنه التي يتل وي الي بين عنه التر حله التي HAZARDOUS DECOMPOSITION PRODUCTS: NDA CHEMICAL STABILITY: Stable. CONDITIONS TO AVOID: Revision Number: 2 Revision Date: 01/11/95 MSDS Number: 004701 NDA - No Data Available NA - Not Applicable CHEVRON Gas Engine Oil 541 SAE 15W-40 Page 5 of 7 No data available. INCOMPATIBILITY WITH OTHER MATERIALS: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. HAZARDOUS POLYMERIZATION: Polymerization will not occur. بے پی جانے ہو جانے پڑے جانے کا جانے کا آپ ان خاری کر جانے کا پہنے کا پر جانے کا آپ جانے کا کا بنا جانے کا پر جان . به بد به بن به ها با با با با با به به به به به به با با به با با با با 11. TOXICOLOGICAL INFORMATION و المراقع الحد من 10 كور بنيا تبنيا أنها لين عن المراجع من عبد من عبد من عبد عبر عبر عبد عبر عبر . این هم در این هر در بین می بین هم می جو می بین می بین می بین می بین می بین می بین این این این این این این می EYE EFFECTS: No product toxicology data available. The hazard evaluation was based on data on the components. SKIN EFFECTS: No product toxicology data available. The hazard evaluation was based on data on the components. ACUTE ORAL EFFECTS: No product toxicology data available. The hazard evaluation was based on data from similar materials. ACUTE INHALATION EFFECTS: No product toxicology data available. The hazard evaluation was based on data from similar materials. ADDITIONAL TOXICOLOGY INFORMATION: This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cance: (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B). During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been

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shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. See Chevron Material Safety Data Sheet No. 1793 for additional information on used motor oil.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: No data available. ENVIRONMENTAL FATE: This material is not expected to present any environmental problems other than those associated with oil spills.

Revision Number: 2Revision Date: 01/11/95HSDS Number: 004701NDA - No Data AvailableNA - Not ApplicableCHEVRON Gas Engire Oil 541 SAE 15W-40Page 6 of 7

#### **13. DISPOSAL CONSIDERATIONS**

، جان یہ جو موجد نا ان جاج ہے ہے جاج کا میں کا جو کی یا تو وہ میں ان کا کا کا کا کا کا کا میں جاج کا میں جاج کا ان جا ان یہ جو موجد نا ان جاج ہے ان جا کا چو کی یا تو وہ میں کو وہ میں کا کا کا کا میں جاج ہے جاتا ہے جاج کا ہے

#### **DISPOSAL CONSIDERATIONS:**

Oil collection services and collection centers are available for used motor oil recycling or disposal. Some service stations, automotive service centers, and retailers provide motor oil collection facilities.

Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

به اید سال بی مراحظ موجد بد. می بین می بین می بین می بین می بین

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The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE FEDERAL DOT DOT HAZARD CLASS: NOT APPLICABLE DOT IDENTIFICATION NUMBER: NOT APPLICABLE DOT PACKING GROUP NOT APPLICABLE 15. REGULATORY INFORMATION

SARA 311 CATEGORIES: 1. Immodiate (Acute) Health Effects: NO 2. Delayed (Chronic) Health Effects: NO 3. Fire Hazard: NO 4. Sudden Release of Pressure Hazard: NO 5. Reactivity Hazard: NO **REGULATORY LISTS SEARCHED:** 01=SARA 313 11≡NJ RTK 22=TSCA Sect 5(a)(2) 12 CERCLA 302.4 82=MASS RTK 23=TSCA Sect 6 03=NTP Carcinogen 13=MN RTK 24=TSCA Sect 12(b) 84=CA Prop 65-Carcin 14=ACGIH TWA 25=TSCA Sect 8(a) 25=CA Prop 65-Repro Tox 15=ACGIH STEL 26=TSCA Sect 8(d) **06=IARC** Group 1 **16=ACGIH** Calc TLV 27=TSCA Sect 4(a) Ø7≈IARC Group 2A 17=OSHA PEL 28=Canadian WHMIS 18=DOT Marine Pollutant 29=05HA CEILING **Ø8**=IARC Group 2B 09=SARA 302/304 19=Chevron TWA 30=Chevron STEL 16 PA RTK 20=EPA Carcinogen The following components of this material are found on the regulatory Revision Number: 2 Revision Date: 01/11/95 MSDS Number: 004701 NDA - No Data Available NA - Not Applicable CHEVRON Gas Engine Oil 541 SAE 15W-40 Page 7 of 7 lists indicated. DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC is found on lists: 14,15,17, DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC is found on lists: 14,15,17, **16. OTHER INFORMATION** NFPA RATINGS: Health 1; Flammability 1; Reactivity 0; (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings). **REVISION STATEMENT:** Changes have been made throughout this Material Safety Data Sheet. Please read the entire document. The above information is based on the data of which we are aware and is

believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Revision Number: 2 Revision Date: 01/11/95 MSDS Number: 004701 NDA - No Data Available NA - Not Applicable

### **CERTIFICATE OF WASTE STATUS**

1

1. Generator Name and Address: UNIVOUSAL Compression	2. Destination Name:
1125 US Har 550	Envirotech Soil Remediation Facility
	Landfarm #2
AZTEC, NA 87480	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Seymore 723	S Add E
"L", Sec 24, T3IN, R9W	
SAN Juan Comby & M Attech list of originating sites as appropriate	
4. Source and Description of Waste	
Clean up of New Motorso CHENRON GRO BOUGHE Oùl	iz spill
CHEVEON GRO BOUGING Oùl	541 万九区 154-40
1, Jon Lewis	representative for:
(Print Name)	to a bandur contine that
according to the Resource Conservation and Recover	representative for: (الم) حــــــــــــــــــــــــــــــــــــ
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum	entation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis Chain of Custody	
Chain of Custody	
ala ana amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o a	
Name (Original Signature):	
Title:	
Date:	
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Transmission Report

Date/Time Local ID Local Name Company Logo

3-24-99; 8:27AM 505 6321865 YOUNG ENVIRONMENTAL

This document was confirmed.

(reduced sample and details below) Document Size Letter-S



company:	- Universal Compression
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fax #: 334-7547

Class- oilfield Non- Example re;

3:24.79. Z- (including cover sheet) pages;

Soil Romadiation Profile project:

CC: \_\_\_\_\_

Jini comments...

date:

 Please sign & come and original Copy of your				
 Secretary.				
(Howks				
Halan .				

from the desk of .... HARCHE W. BROWN

envirotech inc. 5796 us highway 64 farmington, n. m. 87401 505.632.0615 505.632.1865 fax

this information is intended for the individual above and is confidential, if you have received this facsimile in error, please call the number listed above. thank you

Total Pages Scanned : 2' Total Pages Confirmed : 2'

NO.	Doc	Remote Station	Start Time	Duration	Pages	Mode	Comments	Results
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\*\* Notes \*\* EC: Error Correct BC: Broadcast Send CP: Completed L Local Scan

RE: Resend MP: Multi-Poll RM: Receive to Memory LP: Local Print

PD: Polled by Remote PG: Polling a Remote DR: Document Removed FO: Forced Output

MB: Receive to Mailbox PI: Power Interruption TM: Terminated by user WT: Walting Transfer

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OURLY RATE AT:	STANDARD RATES UST RATES SPECIAL RATES (see below)	CONTRACT RATE AT: <u>\$</u> Engagement Title (26 char. max) Assigned <u>by:</u>		3
	SNAME: Universal ( Mrs. Ms.: Jin Lowis S: 1125 U.S. How S	Telephone: (	TAXABLE: _	YES*NO *Fed. Tax ID:
Telephone	City: <u>Aztec</u> e: () Fax:			
Telephone	<u>Access Payable: BP.O.</u> City: <u>Houston</u> e: (713) 466-463 Fax:	State: $T_{x}$ Zip: (713) 466-603 [	<u>77240</u>	- Copy Jinbowis Azrec Payment from How Include Copy of P.O.
ADDITIONAL CONTA	VCI Mr. Mrs. Ws.:	l eleph	one: ( )	1010100
DESCRIPTION OF W	ORK TO BE PERFORMED (includ	Telepho le any special billing rates or sched <u>ن Claan سو محمد سمامہ</u>	lules):	
DESCRIPTION OF W	ORK TO BE PERFORMED (includ	e any special billing rates or sched	lules):	
DESCRIPTION OF W	ORK TO BE PERFORMED (includ _ Ordan. ₩ 306120	e any special billing rates or sched	lules):	

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	• •		SHOW THIS NUMBER ON ALL INVOICES, PACKING LISTS AND LABELS
Universal Compression Houston Office 4460 Brittmoore Road	Universal Compression Aztec Office	Universal Compression Kalkaska Office	306120 Universal Compression Brookwood Office
P.O. Box 40009 Houston, TX 77240 Ph: (713) 466-4103 Fax: (713) 466-6031 Ph: (412) 257-1620 Fax: (412) 257-1623 JOB NO	1125 U.S. Hwy 550 Aztec, NM 87410 Ph: (505) 334-6713 Fax (505) 334-7547	402 E. Dresden Street Kalkaska, MI 49646 Ph: (616) 258-8835 Fax: (616) 258-4044	15545 Hwy 216 Brookwood, AL 35444 Ph: (205) 556-8552 Fax: (205) 556-1140 Universal Compression. Mineral Wells Office
VENDOR			Mineral Wells Office 548 Grant Road Mineral Wells, TX 76067 Ph: (940) 325-9581 Fax: (940) 325-3869 IT: MAIL INVOICE IN DUPLICATE WITH BLUE
STREET ADDRESS HWY LAY	Description Coct Han	COPY OF F	TIELD PURCHASE ORDER TO UNIVERSAL SION, INC. AS NOTED ABOVE.
TO BE USED FOR:	RECEIVED	D BY:	

98117

Vendor - White Accounting Dept. - Pink Field Copy - Blue Book Copy - Yellow

<b>e n</b>	virotec	<b>h</b> m e m o/f a x
to:	Jim Low is	
company:	Universal Compression	
fax #:	334-7547	
re:	CWS-oilfield Non- Example	
date:	3.24.99.	
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project:	Soil Romadiaston Profile,	
cc:		· · ·
Cments		
	Please sign & Lowe and on Secretary.	ghal copy w/ your
	(Hotalks	
	Horlon	
rom the desk	of HARREAN W. BROWN	
		envirotech inc.
)		5796 us highway64 farmington, n.m. 87401
-		505.632.0615 [25
		505.632.1865 fax
this information is inte	nded for the individual above and is confidential. if you have received this fa	csimile in error please call the number listed above, thank you

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03/23/1999 09:07 5053 UNIVERSALCON ESSION PAGE 02 **DIRECTIONS TO LEASE LOCATION** (To be filled out by TIDEWATER Rep. at time of installation.) CUSTOMER: M.O.T COUNTY: 5 J LEASE NAME: SEY MORE 723 STATE: MM UNIT # 40 30 56 DATE 6.30.95 AKE DIRECTIONS TO SITE: 3 TURE TEL OF FORK Z'IN RD COUTYTY MAIN  $\mathcal{O}$ 4600 00 D FHEN SF もんん Lower PUMP TAKE MALS MAIN L ON RD RAGHT MAIN ON ł 13 37/ **REMARKS:** a, 30 95 SIGNED DATE

UNIVERSALCI

SSION

#### DIRECTIONS TO LEASE LOCATION (To be filled out by TIDEWATER Rep. at time of installation.)

03/23/1999 09:07

5053

CUSTOMER:  $M, O, \overline{I}$ COUNTY: 5. J STATE: NM LEASE NAME: SEY MORE 723 UNIT # 40 30 56 DATE 6.30.95 173 TURP AKE DIRECTIONS TO SITE: OUT OF 7 JEL FORKU  $\mathcal{O}$ COUTYTY RD 46000 MAIN 60 D FORK, THEN PUMP TAKE Lower ISFT Rr Px 4 MARN MALLS STAY ON LOC RD RALIT  $\sum S$ MAIN ON £ **REMARKS:** 30 95 SIGNED

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PAGE 02

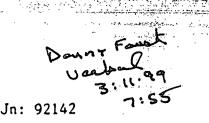
#### DIRECTIONS TO LEASE LOCATION (To be filled out by TIDEWATER Rep. at time of installation.)

03/23/1999 09:07

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customer: M, O, TLEASE NAME: SEY MORE 723 COUNTY: 5 J STATE: NM UNIT # 40 30 56 DATE 6.30.95 TAKE 173 70129 4600 DIRECTIONS TO SITE: OVT OF 7126 COUTYTY MAIN FORKZ TO RD 600 D FORK, THEN Lower PUMP TAKE ISFT AT MAEN RN 4 MILLS STAY LOC ON DX 4 RAGHT RD ZI ON MAIN Ł **REMARKS:** a 30 95 SIGNED

District I - (505) 393-6161 New Mexico Form C-138 P. O. Box 1980 Energy Minerals and Natural Resources Department Originated 8/8/95 Hobbs, NM 88241-1980 District II - (505) 748-1283 Oil Conservation Division 811 S. First 2040 South Pacheco Street Submit Origina -sia, NM 88210 Plus I Copy Het III - (505) 334-6178 Santa Fe, New Mexico 87505 to appropriate Rio Brazos Road (505) 827-7131 **District** Office ...c, NM 87410 Env. JN: 92142 District IV - (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE Donny Foust 4. Generator PESCO 1. RCRA Exempt: 🖾 Non-Exempt: 3.11.99 7:55 A.M 5. Originating Site block Youd No [ Verbal Approval Received: Yes 🔽 Envirotech Soil Remedia. Facility Landfarm #2 6. Transporter ENUivotech 2. Management Facility Destination 5796 US Highway 64 8. State New Maxieo 3. Address of Facility Operator Farmington, NM 87401 5680 Hur 64 Farmingtion 7. Location of Material (Street Address or ULSTR) 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Soliss generated from closing and repearbisiting production storage toaks, separators, dahys and aller production equip. LF-2-5. 222-99 11576 LF2 Blending -> Y-13 3,900gal - cy Known Volume (to be entered by the operator at the end of the haul) ----Estimated Volume -\_\_\_\_ DATE: 03.11.99 TITLE. Landfarm Manager In Brow Waste Management FacilityAuthorized Agent 505-632-0615 Harlan M. Brown **TELEPHONE NO..** TYPE OR PRINT NAME: Never signed 12 This space for State Use) DATE: TITLE: APPROVED BY: DATE: TITLE: APPROVED BY:



<ol> <li>Generator Name and Address: PESCO 5680 Highway 64 Farmington, New Mexico 87401</li> </ol>	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
<ul> <li>Originating Site (name): Process Equipment &amp; Service Company 5680 US Highway 64 Farmington, New Mexico 87401</li> <li>Attach Mat of originating sites as appropriate</li> </ul>	Location of the Waste (Street address &/or ULSTR):
Source and Description of Waste	refurbishing production storage tanks, production equipment.

(Print Name) Process Equipment and Service Company, Inc. according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

**EXEMPT** oilfield waste

\_ NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

MSDS Information

Other (description):

- RCRA Hazardous Waste Analysis
- Chain of Custody

Name (Original Signature): Haught Have Safety Director tle:

Date: 3-10-99

	BY	5680 U.S. HIGHWAY 64 • 87401 / P FARMINGTON, NEW M PHONE: (505) 327-2222 • FA)	EXICO	
	^	NORM SURVEY DATA SHEE	T	
Facility/Location	: <u>PESCO</u>	•	Date:	3-10-99
Meter Model:	3007 A	Serial N	0.: 980	8-238
Detector Type:	[ ] Model30	12 Serial No.: 201-88;	7-7100	
	[] Model	Serial No.:		<u> </u>
Battery Check	[ ]	Source Check [ ]		
Calibration Date:	3-11-98	8		-
Source Type:				
Background Radi	ation Level:	15 CPM microR/hr	÷ .	
Description of Eq	uipment/Mater	rial Surveyed: <u>Ο, Ι 두ι ε</u>	'd Equ	upment
Item/Mat	erial Surveyed			Maximum n
Item/Mat (Description, Ser	erial Surveyed al Number, Siz			
Item/Mat (Description, Ser	erial Surveyed al Number, Siz	ze Quantity. etc.)		Maximum n
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New Mexico	Form C-13
bbs, NM 88241-1980 Energy N rals and Natural Resource	es De Originated 8/8/9
nter N (505) 748-1283 Oil Conservation Divisio	on tran
usia, NM 88210 2040 South Pacheco Street	MAR $1$ 1993 Submit Origin
rict III - (505) 334-6178 Santa Fe, New Mexico 87505	Plus 1 Čo Environmental Burgau to appropria
c, NM 87410 (505) 827-7131	
<u>trict IV</u> - (505) 827-7131	Env. JN: 132
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator Services
Verbal Approval Received: Yes 🔲 No 🖂	5. Originating Site Hain Yand
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Evolve tech
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Wasiero
7. Location of Material (Street Address or ULSTR)	4109 Edainst, Formation,
9. <u>Circle One</u> :	· · · · · · · · · · · · · · · · · · ·
A. All requests for approval to accept olifield exempt wastes will be acc	ompanied by a certification of waste from the
Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be accept	
PROVE the material is not-hazardous and the Generator's certification	on of origin. No waste classified hazardous by
listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigne	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Continuation of Wash buy Socios	· · · · ·
	•
TCLP & RENFFICENTING SLA	
	ATTACHED
DECEIVE	DEGEIMED
MEGEN	
	13 MAR 1 1 1000
117 BIWL	DITTY OUT ON SUS
01/105 17	
OIL CONI. DIST. 3	Best
Estimated Volume q2 cy Known Volume (to be entered by the op	perator at the end of the haul) cy
	· · · · · · · · · · · · · · · · · · ·
SIGNATURE: Huland Title: Landfarm   Waste Management FacilityAuthorized Agent	Manager DATE: 3·(0· ??
Harlen M. Brown	505-632-0615
TYPE OR PRINT NAME: TEI	LEPHONE NO.
(This space for State Use)	litica
APPROVED BY: Demy 2. ten TITLE: Gto loe	DATE: 3/ 4/77
APPROVED BY: Manting This TITLE: Env. Geo	6415t DATE: 3/17/3
IIILE: 2n0.60	UAIE: J/////
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uricr I - (505) 393-6161       New Mexico         D. Box 1980       Energy Minerals and Natural Resource         bbs, NM 88241-1980       Energy Minerals and Natural Resource         uricr II - (505) 748-1283       Oil Conservation Division         S. First       2040 South Pacheco Street         esia, NM 88210       2040 South Pacheco Street         tricr III - (505) 334-6178       Santa Fe, New Mexico 87505         Rio Brazos Road       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🖂	4. Generator Sorvices
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Hain Youd
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Esvivetech
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Dun Waysico
7. Location of Material (Street Address or ULSTR)	4109 Edainst, Formaghon,
All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Contribution of Wark by Socies TCLP & REAFFICATION Statem	DECEIVED MAR 1 1 1999
Estimated Volume — 95 cy Known Volume (to be entered by the op	erator at the end of the haul) cy
SIGNATURE: <u>Howland</u> FacilityAuthorized Agent	·
SIGNATURE: Cy Known Volume (to be entered by the op	Manager       DATE: 3 · (◦ · ??         EPHONE NO.       505-632-0615

### **CERTIFICATE OF WASTE STATUS**

1

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services	
4109 E. Main Street	Envirotech Soil Remediation Facility
Farmington, New Mexico 87401	Landfarm #2
	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Halliburton Energy Services	Solids stabilization pad
4109 E. Main Street	East side of Main Yard Facility
Farmington, New Mexico 87401	4109 E. Main Street Farmington, New Mexico
Attach list of originating sites as appropriate	raimington, New Mexico
4. Source and Description of Waste	
	mud and related material generated
at truck wash bay	mud and related material generated
1. James L. Hans	representative for:
1. James L. Hane (Print Name)	
Italliburton Energy Dervices	do hereby certify that,
÷ ,	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	Waste is: (Cheok appropriate classification)
EXEMPT oilfield waste x x NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic
	by product identification
and that nothing has been added to the exempt or no	
and that nothing has been added to the exempt or no	
For NON-EXEMPT waste only the following docur	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):
For NON-EXEMPT waste only the following docur MSDS Information	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docur MSDS Information <u>x x</u> RCRA Hazardous Waste Analysis	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):
For NON-EXEMPT waste only the following docur	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):
For NON-EXEMPT waste only the following docur MSDS Information <u>x x</u> RCRA Hazardous Waste Analysis	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):
For NON-EXEMPT waste only the following docur MSDS Information <u>xx</u> RCRA Hazardous Waste Analysis <u>xx</u> Chain of Custody	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):
For NON-EXEMPT waste only the following docur MSDS Information <u>xx</u> RCRA Hazardous Waste Analysis <u>xx</u> Chain of Custody	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items): Other (description):
MSDS Information <u>x x</u> RCRA Hazardous Waste Analysis <u>x x</u> Chain of Custody	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste only the following docur MSDS Information <u>x x</u> RCRA Hazardous Waste Analysis <u>x x</u> Chain of Custody	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items): Other (description):
For NON-EXEMPT waste only the following docur MSDS Information <u>x x</u> RCRA Hazardous Waste Analysis <u>x x</u> Chain of Custody	n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items): Other (description):

Date: <u>3-9-99</u>



### **REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP	1-13-99
Printed Name	James L. Hanry
Title / Agency	Halli burton
Address	flog E. Main St
Ē	iarmigton, N.M.
Signature (	Jam 7. Hay
Date	3-9-99

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

······ ·· ·.	·		
Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-19-99
Condition:	Cool & Intact	Analysis Requested:	TCLP
			-

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L) (mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	98%
		Bromofluorobenzene	99%
References:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SW	V-846, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA	A, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	Sept. 1994.
Note:	Regulatory Limits based	I on 40 CFR part 261 Subpart C section	on 261.24, July 1, 1992.
Comments:	East Main, Farming	iton.	

P. Qu'en Analyst

Stacy W Sendler Review

January 28, 1999

Mr. Ed Shannon Halliburton Energy Services, Inc. 4109 East Main Street Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Shannon,

Enclosed are the analytical results for the sample collected from the location designated as "East Main, Farmington-Wash Bay Solids". One soil sample was collected by Envirotech personnel on 01/13/99, and delivered to the Envirotech laboratory on 01/13/99 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 6498 and assigned Laboratory No. E499 for tracking purposes. The sample was extracted on 01/18/99 and analyzed 01/18/99 through 01/27/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.** 

acy W Sendler

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tclp0199.lb1

#### PRACTICAL SOLUTIONS TER 0 Δ BFT TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-15-99
Lab ID#:	E499	Date Sampled:	01-13-99
Sample Matrix:	Soil	Date Received:	01-13-99
Preservative:	Cool	Date Analyzed:	01-15-99
Condition:	Cool and Intact	Chain of Custody:	6498
D			
Parameter	Result		
GNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 7.98	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criter	ia		
Parameter	Hazardous Waste Criterio	1	
IGNITABILITY:		v as defined by 40 CFR, Subpart C, Sec. direct contact with flame or flash point < 6	
CORROSIVITY:		y as defined by 40 CFR, Subpart C, Sec. to 2.0 or pH greater than or equal to 12.5	
REACTIVITY:	(i.e. Violent reaction with w	as defined by 40 CFR, Subpart C, Sec. ater, strong base, strong acid, or the gen gases at STP with pH between 2.0 and 1	neration
Reference:	40 CFR part 261 Subpart (	C sections 261.21 - 261.23, July 1, 1992.	

Comments:

East Main, Farmington.

Analyst

tacy W Sendler

Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.123	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	0.060	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.556	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Comments:

East Main, Farmington.

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Stacy W Sendler

Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

0.13

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	- 01-22-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool and Intact	Analysis Requested:	TCLP
<u></u>		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	0.054	0.020	5.0
Hexachloroethane	0.353	0.020	3.0
Nitrobenzene	0.202	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

0.020

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

ND

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

Note:

HexachloroBenzene

East Main, Farmington.

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tacy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-23-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Analyzed:	01-23-99
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	ND	0.0001	5.0
Barium	1.53	0.001	21
Cadmium	0.0329	0.0001	0.11
Chromium	0.0301	0.0001	0.60
Lead	0.0309	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.0001	5.7
Silver	ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

East Main, Farmington.

l'écun Analyst

tacy W Sendler Review

# FOUROTECH LABS

### QUALITY ASSURANCE / QUALITY CONTROL

### DOCUMENTATION

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### Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	_ QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-19-99
Laboratory Number:	01-19-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Analysis Requested:	TCLP

_		Detection	Regulatory
•	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chiorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Percent Recovery	
		Trifluorotoluene	100%	
		Bromofluorobenzene	100%	
References:	Method 1311, Toxicity (	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		
	Method 5030, Purge-an	d 5030, Purge-and-Trap, SW-846, USEPA, July 1992.		
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA,	Sept. 1994.	
	Method 8020, Aromatic	Volatile Organics; SW-846, USEPA, Se	ept. 1994.	
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.			

Comments:

QA/QC for samples E499 and E503.

m. R. Ofuen

Stacy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-19-99
Laboratory Number:	01-18-TV-MB	Date Sampled:	<b>N/A</b>
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-9 <del>9</del>
Condition:	N/A	Date Extracted:	01-18- <del>99</del>
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	.6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

Parameter	Percent Recovery
Trifluorotoluene	99%
Bromofluorobenzene	98%
	Trifluorotoluene

Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.
	Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.
	Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-646, USEFA, July 1992.

Comments:

QA/QC for samples E499 and E503.

uer Analyst

Stacy W Sendler Review

### IROTECH ARS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 **AROMATIC / HALOGENATED VOLATILE ORGANICS** QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	Ö1-19-99
Condition:	N/A	Date Extracted:	N/A

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples E499 and E503.

R. Ceruce

Analyst

Macy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC			Project #:		- N/A
Sample ID:	Matrix Spike			Date Reporte	əd:	01-19-99
Laboratory Number:	E499			Date Sample	d:	N/A
Sample Matrix:	TCLP Extract			Date Receive	əd:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	01-19-99
Condition:	N/A			Date Extracte	ed:	N/A
	·		Spiked			SW-846
	Sample	Spike	Sample	Det.	· .	% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132 _
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150

ND - Parameter not detected at the stated detection limit.

References:

1,4-Dichlorobenzene

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

0.050

0.0494

**Comments:** 

QA/QC for samples E499 and E503.

ND

afee

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0.0002

99%

42-143

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 8040 PHENOLS

### Quality Assurance Report \_\_\_\_\_Laboratory Blank\_\_\_\_

Client:	QAVQC	_ Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-21-99
Laboratory Number:	01-21-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-21-99
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
-	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

yun Analyst

tacy W Sendler. Review

### SOLUTIONS TOMORROW ACTICAL BETTER

### EPA METHOD 8040 PHENOLS

**Quality Assurance Report** 

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-21-99
Laboratory Number:	01-18-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	<b>200</b>
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid **References:** Waste, SW-846, USEPA, July 1992.

> Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

Analyst

tacy W Sendler Review



### EPA METHOD 8040 PHENOLS

**Quality Assurance Report** 

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	• N/A
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

	Sample	Duplicate	Detection	
	Result	Result	Limit	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
o-Cresol	0.123	0.122	0.020	1.0%
p,m-Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	0.060	0.059	0.020	1.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	0.556	0.551	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Accepta	nce Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity Charac Waste, SW-846, USEPA, July	-	est Methods for Evaluating Solid
	Method 3510, Separatory Fun Waste, SW-846, USEPA, July		Test Methods for Evaluating Solid
	Method 8040, Phenols, Test N	lethods for Evaluating Solid \	Naste, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based on 40	) CFR part 261 subpart C sec	ction 261.24, July 1, 1992.
Comments:	QA/QC for samples E49	9 and E503.	
Analyst	R. Queen	Review	Stacy W Sendler

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-22-99
Laboratory Number:	01-21-TBN - Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
	• •	2-fluorobiphenyl	96%
References:	· · ·	Characteristic Leaching Procedure, S	
		bry Funnel Liquid-Liquid Extraction, S	
	Method 8090, Nitroaro	natics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments:

QA/QC for samples E499 and E503.

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Macy W Sendler Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### 

Client:	QAVQC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-22-99
Laboratory Number:	01-18-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool and Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	95%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure,	SW-846, USEPA, July 1992.
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction,	SW-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846	6, USEPA, Sept. 1986.
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C se	ection 261.24, July 1, 1992.

Comments:

QA/QC for samples E499 and E503.

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Stacy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-22-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-18-99
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.054	0.053	1.0%	0.020
Hexachloroethane	0.353	0.349	1.0%	0.020
Nitrobenzene	0.202	0.200	0.9%	0.020
Hexachlorobutadiene	ND	ND .	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference
		8090 Compounds	30%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, S	W-846, USEPA, July 1992.
	Method 3510, Separate	bry Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.
	Method 8090, Nitroaror	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments:

QA/QC for samples E499 and E503.

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Stacy W Sendler Review

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #:			N/A
Sample ID:		01-23-TCM (	QA/QC	Date Repo	orted:		01-23-99
Laboratory Number:		E449		Date Sam	pled:		N/A
Sample Matrix:		TCLP Extract	t	Date Rece	ived:		N/A
Analysis Requested:		TCLP Metals		Date Analy	/zed:		01-23-99
Condition:		N/A		Date Extra	cted:		N/A
Blank & Duplicate Conc. (mg/t.)	linatourien Blank	Method	Detection: Limit	Sample	Duplicate	°€ Di∏	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.53	1.53	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.0329	0.0324	1.5%	0% - 30%
Chromium	ND	ND	0.0001	0.0301	0.0300	0.3%	0% - 30%
Lead	ND	ND	0.0001	0.0309	0.0307	0.6%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	· ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Solite							

Arsenic	0.1000	NĎ	0.0997	99.7%	80% - 120%
Barium	1.000	1.53	2.53	100.0%	80% - 120%
Cadmium	0.0500	0.0329	0.0826	99.6%	80% - 120%
Chromium	0.0500	0.0301	0.0802	100.1%	80% - 120%
Lead	0.1000	0.0309	0.131	99.8%	80% - 120%
Mercury	0.0250	ND	0.0248	99.2%	80% - 120%
Selenium	0.1000	ND	0.0998	99.8%	80% - 120%
Silver	0.0500	ND	0.0499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples E499 and E503.

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Review

### CHAIN OF CUSTODY RECORD

Client / Project Name HALLBURTON			Project Location EAST F FARMI	nai's N 6401	J		· · .			Þ	NALYSI	S / PAR	AMETE	RS		:	2	
Sampler:			Client No.				 ø	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Ι			ŀ	Rema	rks		
moni D.	you	~	92	132			No. of Containers	C P H	1						:			
Sample No./ Identification	Sample Date	()ample Time	Lab Number		Sample Matrix		Cont	tc W/o	•									
Whon Bay Saldes	1/13/9	12:10	E499	50	iL		1							1				;
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Relinquished by: (Signatur			• · · · · · · · · · · · · · · · · · · ·	Date	Time	1 /1/	3	(Signatu							Date		Tim	ne
Mon V.		5		1/13/9	5 (Z:3)		sist	<u> </u>	Jae	tw					1.13.	99   I	<u>): </u>	<u>30</u>
Relinquished by: (Signatu						Receiv	/ed by:	(Signatu	re)								•	:
Relinquished by: (Signatur	re)				<b> </b>	Receiv	ved by:	(Signatu	re)									
				EOV		TE/	<u></u>		~					Samp	le Rece	iot		
· · ·	•				<u>IRO</u>		JU										N	N/A
					5796 U.S								Rec	ceived Inta	·	$\mathbf{F}$	-	
				Farm	ing <u>t</u> on, N (505)	lew M 632-0		87401	1					- Ice/Blue		$\neq$	$\rightarrow \dagger$	
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D. Box 1980 D. Box 1980 Energy Min als and Natural Resource atrict II - (565) 748-1283 Oil Conservation Divisior	
13. rist       2040 South Pacheco Street         resia, MM 88210       2040 South Pacheco Street         ruict III - (505) 334-6178       Santa Fe, New Mexico 87505         Rio Brazos Road       (505) 827-7131	MAR 1 1980 Environmental Bureau Oil Conservation Division
REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: 🔲 Non-Exempt: 🖂	4. Generator EPFS
Verbal Approval Received: Yes 🗋 No 🔲	5. Originating Site Ballace Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Environteau
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Marcico
7. Location of Material (Street Address or ULSTR)	NESE ÉSENE Saczó TZW, RQW.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acco Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acco PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> </ul>	mpanied by necessary chemical analysis to of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Clean up of compressor oil conteminates	e sail.
DECEIVED MAR 2 2 1999	MAR 1 1 1999
OIL CON. DIV. DIV. 3	OIL CON. DIV. DIT. 3
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) $-68$ cy
SIGNATURE: Haven Brono TITLE: Landfarm M Waste Management FacilityAuthorized Agent	
TYPE OR PRINT NAME: Harlan M. Brown TEL	EPHONE NO
(This space for State Use)	
APPROVED BY: Deny & Font TITLE: Geolo	29.15T DATE: 3/1.5/19
APPROVED BY: Martym Minh TITLE: Enu. 6	cologist DATE: 3/17/99

atrict I - (505) 393-6161       New Mexico         D. Box 1980       Energy Minerals and Natural Resource         bbs, NM 88241-1980       Energy Minerals and Natural Resource         atrict II - (505) 748-1283       Oil Conservation Division         1%: First       2040 South Pacheco Street         1winter III - (505) 334-6178       Santa Fe, New Mexico 87505         1 Rio Brazos Road       (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator EPFS
Verbal Approval Received: Yes 🗋 No 🗋	5. Originating Site Buller Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENuiro Leatt
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Marcico
7. Location of Material (Street Address or ULSTR)	NESE ÉSENE Sacz6 TZW, R9W
All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Clean up of compressor oil contaminate	
	OIL CON. DIV.
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) cy
SIGNATURE: Halen Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	Manager DATE: <u>ゝ.しら. ९</u> LEPHONE NO. 505-632-0615
(This space for State Use) APPROVED BY: Deny J. Henry TITLE: Geolo	0 <u>e 15</u> DATE: <u>3/15/79</u>

### **CERTIFICATE OF WASTE STATUS**

. 1

2. Destination Name:
Envirotech Soil Remediation Facility
Landfarm #2
Hilltop, New Mexico
Location of Waste(Street address &/or ULSTR):
NE/4 of SE/4 and SE/4 of NE4. Sec. 26, T26N, R9W
· · ·
representative for:
CO do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
I waste is: (Check appropriate classification)
N-EXEMPT oilfield waste which is non-hazardous by
acteristic analysis or by product identification
non-hazardous waste defined above.
nentation is attached (check appropriate items):
Other (description)
nalysis
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- Bay
nvironmental Scientist
, 1999

March 2, 1999

Mr. John Lambdin El Paso Field Services P.O. Box 4990 Farmington, New Mexico 87499

> Project No.: 97057 Job No.: 705702

Dear John,

Enclosed are the analytical results for the sample collected from the location designated as "Ballard Plant". One soil sample identified as "Used Oil Stockpile" was collected from the designated location by Envirotech personnel on 02/18/99, and received by the Envirotech laboratory on 02/19/99 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Trace Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 6614 and assigned Laboratory No. E695 for tracking purposes.

The sample was extracted on 02/22/99 and analyzed on 02/22/99 through 03/05/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted,

Envirotech, Inc.

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enclosure

SWS/sws

97027-02.lb1/wpd

#### PRACTICAL SOLUTIONS TOMORROW OF BE TER

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

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Client:	EPFS	Project #:	705702
Sample ID:	Used Oil Stockpile	Date Reported:	02-22-99
Lab ID#:	E695	Date Sampled:	02-18-99
Sample Matrix:	Soil	Date Received:	02-19-99
Preservative:	Cool	Date Analyzed:	02-22-99
Condition:	Cool and Intact	Chain of Custody:	6614
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 7.84	
REACTIVITY:	Negative		
RCRA Hazardous Waste Crite	eria		
Parameter	Hazardous Waste Criterior	1	
IGNITABILITY:	-	as defined by 40 CFR, Subpart C, Sec. 261.21. direct contact with flame or flash point < 60° C.)	
CORROSIVITY:		y as defined by 40 CFR, Subpart C, Sec. 261.22. to 2.0 or pH greater than or equal to 12.5 )	
REACTIVITY:	(i.e. Violent reaction with w	as defined by 40 CFR, Subpart C, Sec. 261.23. ater, strong base, strong acid, or the generation gases at STP with pH between 2.0 and 12.5)	
Reference:	40 CFR part 261 Subpart 0	Sections 261.21 - 261.23, July 1, 1992.	

Comments:

**Ballard Plant.** 

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tacy W Sendler Review

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

	·		
Client:	EPFS	Project #:	705702
Sample ID:	Used Oil Stockpile	Date Reported:	03-01-99
Laboratory Number:	E695	Date Sampled:	02-18-99
Chain of Custody:	6614	Date Received:	02-19-99
Sample Matrix:	Soil	Date Extracted:	02-22-99
Preservative:	Cool	Date Analyzed:	02-26-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

otance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	<del>9</del> 9%
		-846, USEPA, July 1992.
_		a
-		
Method 8020, Aromatic V	/olatile Organics, SW-846, USEPA, So	ept. 1994.
Regulatory Limits based	on 40 CFR part 261 Subpart C section	n 261.24, July 1, 1992.
Ballard Plant.		
	Method 5030, Purge-and Method 8010, Halogenat Method 8020, Aromatic N Regulatory Limits based	Trifluorotoluene Bromofluorobenzene Method 1311, Toxicity Characteristic Leaching Procedure, SW Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA Method 8020, Aromatic Volatile Organics, SW-846, USEPA, S Regulatory Limits based on 40 CFR part 261 Subpart C sectio

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### EPA METHOD 8040 PHENOLS

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EPFS	Project #:	705702
Used Oil Stockpile	Date Reported:	03-01-99
E695	Date Sampled:	02-18-99
6614	Date Received:	02-19-99
Soil	Date Extracted:	02-22-99
Cool	Date Analyzed:	03-01-99
Cool & Intact	Analysis Requested:	TCLP
	Used Oil Stockpile E695 6614 Soil Cool	Used Oil Stockpile Date Reported: E695 Date Sampled: 6614 Date Received: Soil Date Extracted: Cool Date Analyzed:

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	0.708	0.020	2.0
2,4,5-Trichlorophenol	0.222	0.020	400
Pentachlorophenol	0.091	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Note:

Comments: Ballard Plant.

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### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
		Det.	Regulatory
Condition:	Cool and Intact	Analysis Requested:	TCLP
Preservative:	Cool	Date Analyzed:	03-01-99
Sample Matrix:	Soil	Date Extracted:	02-22-99
Chain of Custody:	6614	Date Received:	02-19-99
Laboratory Number:	E695	Date Sampled:	02-18-99
Sample ID:	Used Oil Stockpile	Date Reported:	03-01-99
Client:	EPFS	Project #:	705702

Pyridine	ND	0.020	5.0
Hexachloroethane	0.056	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

101%

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: Ballard Plant.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 **TOXICITY CHARACTERISTIC** LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	EPFS	Project #:	705702
Sample ID:	Used Oil Stockpile	Date Reported:	03-03-9 <del>9</del>
Laboratory Number:	E695	Date Sampled:	02-18-99
Chain of Custody:	6614	Date Received:	02-19-99
Sample Matrix:	Soil	Date Analyzed:	03-03-9 <del>9</del>
Preservative:	Cool	Date Extracted:	02-22-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Concentration	Det. Limit	Regulatory Level
(mg/L)	(mg/L)	(mg/L)
0.0437	0.0001	5.0
0.891	0.001	21
0.0173	0.0001	0.11
ND	0.0001	0.60
0.0149	0.0001	0.75
ND	0.0001	0.025
0.0315	0.0001	5.7
ND	0.0001	0.14
	(mg/L) 0.0437 0.891 0.0173 ND 0.0149 ND	Concentration (mg/L)         Limit (mg/L)           0.0437         0.0001           0.891         0.001           0.0173         0.0001           ND         0.0001           0.0149         0.0001           ND         0.0001           0.0315         0.0001

ND - Parameter not detected at the stated detection limit.

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, **References:** December 1996.

> Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

> Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

**Ballard Plant.** 

Analyst

Review



### QUALITY ASSURANCE / QUALITY CONTROL

### DOCUMENTATION

# Environe For a Better tomorrow

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-01-99
Laboratory Number:	02-26-TCV Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-26-99
Condition:	N/A	Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	· ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	100%
		Bromofluorobenzene	100%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, SW	-846, USEPA, July 1992.
	Method 5030, Purge-ar	nd-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogen	ated Volatile Organic, SW-846, USEPA,	, Sept. 1994.
	Method 8020, Aromatic	c Volatile Organics, SW-846, USEPA, So	ept. 1994.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C section	n 261.24, July 1, 1992.

Comments:

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## **COVIROTECHLABS**

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

. - -

Client:	QA/QC	Project #:	N/A	
Sample ID:	Method Blank	Date Reported:	03-01-99	
Laboratory Number:	02-22-TV-MB	Date Sampled:	N/A	
Sample Matrix:	TCLP Extract	Date Received:	N/A	
Preservative:	N/A	Date Analyzed:	02-26-99	
Condition:	N/A	Date Extracted:	02-22-99	
		Analysis Requested:	TCLP	

		Detection	Regulatory	
	Concentration	Limit	Limits	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Vinyl Chloride	ND	0.0001	0.2	
1,1-Dichloroethene	ND	0.0001	0.7	
2-Butanone (MEK)	ND	0.0001	200	
Chloroform	ND	0.0001	· 6.0	
Carbon Tetrachloride	ND	0.0001	0.5	
Benzene	ND	0.0001	0.5	
1,2-Dichloroethane	ND	0.0001	0.5	
Trichloroethene	ND	0.0003	0.5	
Tetrachloroethene	ND	0.0005	0.7	
Chlorobenzene	ND	0.0003	100	
1,4-Dichlorobenzene	ND	0.0002	7.5	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.
	Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.
	Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

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Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplicate	e	Date Reported:	03-01-99
Laboratory Number:	E695	•	Date Sampled:	N/A
Sample Matrix:	TCLP Extract		Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	02-26-99
Condition:	N/A		Date Extracted:	N/A
		Duplicate	· · · · · · · · · · · · · · · · · · ·	
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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tacy W. Sende Review

## Environeere Charles Contraction of the Contraction

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC			Project #:		N/A -
Sample ID:	Matrix Spike			Date Reporte	ed:	03-01-99
Laboratory Number:	E695			Date Sample	d:	N/A
Sample Matrix:	TCLP Extract	•		Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	02-26-99
Condition:	N/A			Date Extracte	ed:	N/A .
			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

en R. ajence

N. Sendle Review

### EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-01-99`
Laboratory Number:	03-01-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-01-99
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

Analyst

ty Wende-Review

## TOVIROTECH LABS

### EPA METHOD 8040 PHENOLS

**Quality Assurance Report** 

Client:	QA/QC	Project #:	 N/A
Sample ID:	Method Blank	Date Reported:	03-01-99
Laboratory Number:	02-22-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-22-99
Condition:	Cool & Intact	Date Analyzed:	03-01-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Analyst Analyst

U. Sendle Review



### EPA METHOD 8040

PHENOLS Quality Assurance Report

Client: QA/QC N/A Project #: Sample ID: Matrix Duplicate **Date Reported:** 03-01-99 Laboratory Number: E695 **Date Sampled:** N/A Sample Matrix: Date Received: N/A Water Preservative: Date Extracted: N/A Cool Condition: Cool & Intact Date Analyzed: 03-01-99 TCLP Analysis Requested:

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	0.708	0.701	0.020	1.0%
2,4,5-Trichlorophenol	0.222	0.219	0.020	1.1%
Pentachiorophenol	0.091	0.090	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	haracteristic Leaching Procedure Tes	t Methods for Evaluating Solid
	Method 3510, Separator Waste, SW-846, USEPA	y Funnel Liquid-Liquid Extraction, Tes A, July 1992.	t Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Wa	ste, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C section	n 261.24, July 1, 1992.
Comments:	QA/QC for samples	E695 - E696.	Λ
Analyst	-h. Qie	Review	yW. Sende-

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865



### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

			-
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-01-99
Laboratory Number:	03-01-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	03-01-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	99%
References:	-	Characteristic Leaching Procedure, S	
		ory Funnel Liquid-Liquid Extraction, S	
	Method 8090, Nitroarc	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments:

Hacy W. Sendle Review

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### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

		•	
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-01-99
Laboratory Number:	02-22-BN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-22-99
Condition:	Cool and Intact	Date Analyzed:	03-01-99
		Analysis Requested:	TCLP

Concentration Parameter (mg/L)		Det. Limit (mg/L)	Regulatory Limit (mg/L)	
Pyridine	ND	0.020	5.0	
Hexachloroethane	ND	0.020	3.0	
Nitrobenzene	ND	0.020	2.0	
Hexachlorobutadiene	ND	0.020	0.5	
2,4-Dinitrotoluene	ND	0.020	0.13	
HexachloroBenzene	ND	0.020	0.13	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	98%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, S	SW-846, USEPA, July 1992.
	Method 3510, Separat	ory Funnel Liquid-Liquid Extraction, S	SW-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C sec	ction 261.24, July 1, 1992.

Comments:

Macy W. Jende Review

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### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
	Sample Result	Duplicate Result	Percent	Det. Limit
		Analysis Request	ted:	TCLP
Condition:	N/A	Date Analyzed:		03-01-99
Preservative:	N/A	Date Extracted:		02-22-99
Sample Matrix:	TCLP Extract	Date Received:		<b>N/A</b>
Laboratory Number:	E695	Date Sampled:		N/A
Sample ID:	Matrix Duplicate	Date Reported:		03-01-99
Client:	QA/QC	Project #: -		N/A

Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	0.056	0.055	1.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2.4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

tance Criteria	Parameter	Maximum Difference		
	8090 Compounds	30%		
Method 1311, Toxicity (	Characteristic Leaching Procedure, S	W-846, USEPA, July 1992.		
Method 3510, Separato	ory Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.		
Method 8090, Nitroaror	natics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.		
Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.		
	Method 1311, Toxicity ( Method 3510, Separato Method 8090, Nitroaror	· · · · · · · · · · · · · · · · · · ·		

Comments:

tacy W. Sende Review

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #:			N/A
Sample ID:		03-03-TCM	QA/QC	Date Repo	orted:	-	03-03-99
Laboratory Number:		E695		Date Sam	oled:		N/A
Sample Matrix:		TCLP Extrac	zt (	Date Rece	ived:		N/A
Analysis Requested:		TCLP Metals	6	Date Analy	/zed:		03-03-99
Condition:		N/A		Date Extra	cted:		N/A
A STATE AND A S	Instrument	Method	Detection	Sample	Duplicate		Acceptance
Conc. (mp/l.)	Blank ND	Blank	Limit 0.0001	0.0437	0.0435	Diff. 0.5%	Range 0% - 30%
		ND					
Barium	ND	ND	0.001	0.891	0.896	0.6%	0% - 30%
Cadmium	ND	ND	0.0001	0.0173	0.0174	0.6%	0% - 30%
Chromium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.0001	0.0149	0.0150	0.7%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	0.0315	0.0312	1.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Spike		Siplice	sa Sannaa	a de Saked	Percent		Accountions
Conc. (mg/L)		Added		Sample	Receively		4. Range Las
		0 4000			400 49/		000/ 4000/

Arsenic	0.1000	0.0437	0.144	100.1%	80% - 120%
Barium	1.000	0.891	1.89	99.8%	80% - 120%
Cadmium	0.0500	0.0173	0.0672	99.9%	80% - 120%
Chromium	0.0500	ND	0.0498	99.6%	80% - 120%
Lead	0.1000	0.014 <del>9</del>	0.115	99.9%	80% - 120%
Mercury	0.0250	ND	0.024 <del>9</del>	<del>99</del> .6%	80% - 120%
Selenium	0.1000	0.0315	0.131	99.6%	80% - 120%
Silver	0.0500	ND	0.0498	99.6%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples E695, E696 and E755.

Review

### CHAIN OF CUSTODY RECORD

									And in case of the local division of the loc							_		
Client / Project Name			Project Location									SIS / PAR		20				
EPFS			BALLAR	p Pla	-L.						ANALI S	15 / FAR	AMETER	15				
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Sample No./	Sample	Sample		1	Sample		Z I	23	•						.:			
Identification	Date	Time			Matrix	<u> </u>		Γ-							<u> </u>			
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					(505)	632-	0615						Cool -	Ice/Blue Ic	<b>e</b> :			, i

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District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minterals and Natural Resource         Hobbs, NM 88241-1980       Energy Minterals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         Stressin, NM 88210       2040 South Pacheco Street         Virtet III - (505) 334-6178       Santa Fe, New Mexico 87505         Rio Brazos Road       (505) 827-7131	n Submit Original					
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE					
1. RCRA Exempt: Non-Exempt: 3:99	4. Generator PARAmount					
Verbal Approval Received: Yes 🔀 No 🗋	5. Originating Site Control Total Table Battor # 3					
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech					
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Num Maysico					
7. Location of Material (Street Address or ULSTR)	M, Sec 34, TZQN, R 13W					
9. <u>Circle One</u> :						
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>						
BRIEF DESCRIPTION OF MATERIAL: Soil generated during cleanup of 3 Tank contaminated Durip pits, & domolide						
	DECEIVED MAR 1 1 1999					
	OIL CON. DIV. DIST. 3					
Estimated Volume $200$ cy Known Volume (to be entered by the operator at the end of the haul) $280$ cy						
SIGNATURE: <u>Handan Brown</u> Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TEI	Manager DATE: <u>3. ໂ- ໂໆ</u> LEPHONE NO.					
(This space for State Use)	0					
APPROVED BY:	t. A. DATE: 3/15/99					
APPROVED BY: Charli'T.t	DATE: 3/15/99					

### **CERTIFICATE OF WASTE STATUS**

1

1. Generator Name and Address: N HOCD - PARamout	2. Destination Name:
1000 RIO BRABOS Rd	Envirotech Soil Remediation Facility
AZTEC, N.W. 87410	Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Control Touske Burg Toner #3	
M, See 34, TZ9N, RI3W.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste 3 potro laun Hydrocarbon Co to ortical server tour donal	Taulic pits m tau in abed Dunps a Taal le Battany ite on, and domalite on of (4) Tauk Battany
I, Dense Fouser. (Print Name)	representative for:
Now Marries Oil Consorverion according to the Resource Conservation and Recover 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
	<b>IPT</b> oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docun MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature): Deny 2: 7 Title: Environmental Geologist	Zent
Title: Environmental Geologist	

Date: 3/10/9

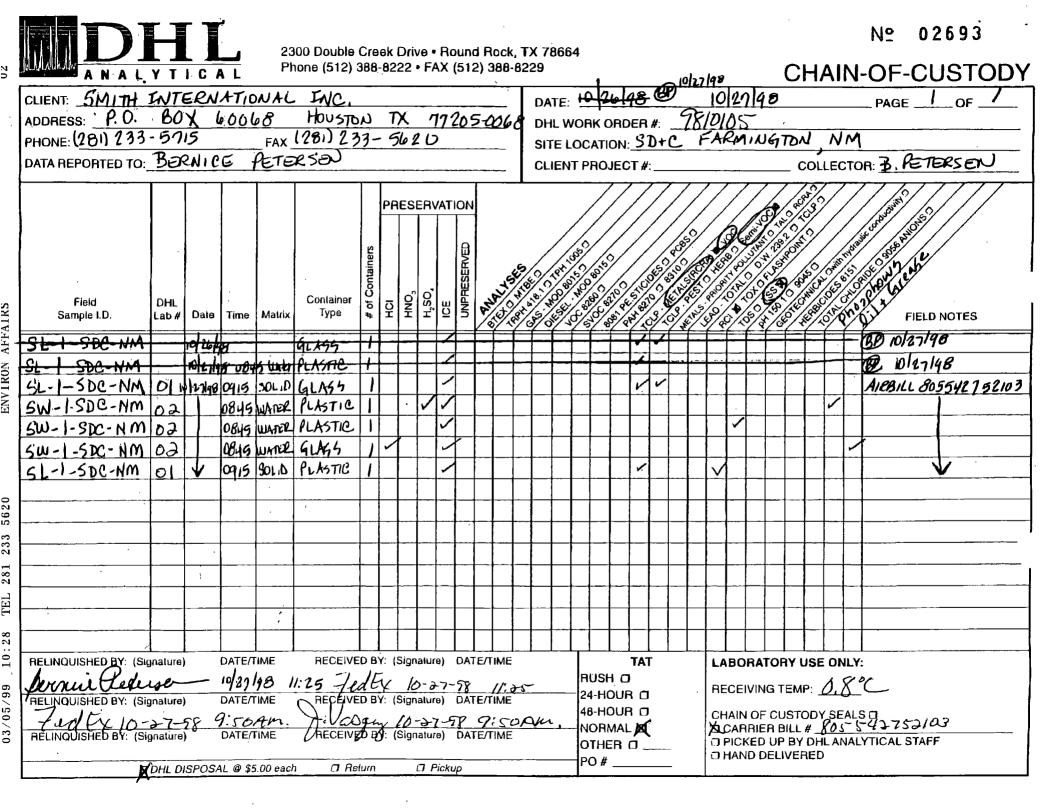
I

District I - (505) 393-6161 O. Box 1980 Jobbs, NM 88241-1980 District II - (505) 748-1283 11 <sup>1</sup> S. First rtesia, NM 88210	Energy M	als and Natu Oil Conserva 2040 South I	tion Divisio Pacheco Street	es De <b>ge</b> tment n	Form C-138 Originated 8/8/95 Submit Original Plus 1 Copy
Nio Brazos Road ⊥c, NM 87410 Bistrict IV - (505) 827-7131			Mexico 87505 27-7131	Env. JN:	to appropriate District Office
				SOLID WASTE	
			5.99 +		
1. RCRA Exempt: 🔀	Non-Exempt:		Donay Foust 4:304 4.	4. Generator	Smith Drilling & Completions
Verbal Approval Recei			1.	5. Originating	Site Shop
2. Management Facility	Destination F	irotech Soi acility Land	Remedia. Ifarm #2	6. Transporte	TBA
3. Address of Facility Op	erator 5796 Farm	US Highway ington, NM 8	64 37401	8. State	JEW Megoico
7. Location of Material (Street Address or ULSTR)				3650 Bloo	mfield Hory.
9. <u>Circle One</u> :					
Generator; one ce B. All requests for ap	ertificate per job. oproval to accept ial is not-hazardo	non-exempt wast	es must be acco	mpanied by neces	tification of waste from the ssary chemical analysis to ste classified hazardous by
All transporters must c	ertify the wastes	delivered are only	those consigned	for transport.	
Sluege gr TCLP Estimated Volume <u>+ 3</u> SIGNATURE: <u>Har</u>	<u>bbl</u> cy Kr	nown Volume (to be	Went	DECEN MAR 0 $\frac{1}{2}$ OIL CON $\frac{1}{2}$ $\frac{1}{2}$ Ho SCH	IVED 5 1999 1. DOV.
Waste Mana TYPE OR PRINT NAME:		zed Agent OWN	TEL	.EPHONE NO	05-632-0615
. A	my B.	2	LE: <u>(-eo/c</u>	j <u>g ist</u>	DATE: 3/5-/97

# **CERTIFICATE OF WASTE STATUS**

1

1. Generator Name and Address: Smith Taternational. Drilling & Complet	2. Destination Name:
3650 Bloom Field Har	Envirotech Soil Remediation Facility
FARmington, Du \$\$ 87401	Landfarm #2
3. Originating Site (name):	Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR):
SAA.	
2714.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Wark bay solids @ oil/wa	ter saparator
	•
I, <u>Eppie Sawchers</u> (Print Name)	representative for:
<u>Smith</u> <u>Drilling</u> <u>ECompletions</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
	<b>APT</b> oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum MSDS Information <u>K</u> RCRA Hazardous Waste Analysis <u>K</u> Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature):	2-5
Title: District Manager	$\mathcal{O}$
Date: 315/99	· · · · · · · · · · · · · · · · · · ·





#### FLASHPOINT ANALYTICAL RESULTS

DHL PROJECT #: 9810105 CLIENT: Smith International, Inc. CLIENT PROJECT #: N/A LOCATION: SD & C Farmington, NM

Ignitability (Flashpoint) Analyses of Solid

ANALYTICAL METHOD:	EPA 1010	SAMPLE DATE:	10/27/98
MATRIX:	Solid	SAMPLE REC'D:	10/27/98
ANALYST:	DL	SAMPLE CONDITION:	GOOD
REPORT GENERATED BY:	LB	ANALYSIS DATE:	11/7/98
QA REVIEW:	ar	HOLDING TIME (DAYS):	11
SAMPLE ID:	SL-1-SDC-NM		
Flashpoint	> 90 ° C		

Data Review

9810105.tls / FLASHPOINT

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • Fax (512) 388-8229

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ENALBON VEEVIES

03/02/30 10:28 TEL 281 233 2620

Page 1 of 1

Date: 19-Nov-98

TOT

CLIENT:	SMITH INTERNATIONAL	Client Sample ID: SL-1-SDC-NM	-
Project Name:	SD & C Farmington, NM	Lab ID: 9810105-01A	
Project No:	SD & C Farmington, NM	Collection Date: 10/27/98 9:15:00 AM	
Lab Order:	9810105	Matrix: SLUDGE	

Analyses	Result	RL (	Qual Units	TCLP Limits	DF	Date Analyzed
TCLP SEMI-VOLATILES		SW1311/8270	)C			Analyst: FL
1,4-Dichlorobenzene	ND	0.010	mg/L	7.5	1	11/17/98 7:56:00 PM
2,4,5-Trichlorophenol	ND	0.010	mg/L	400	1	11/17/98 7:56:00 PM
2,4,6-Trichlorophenol	ND	0.010	mg/L	2	1	11/17/98 7:56:00 PM
2,4-Dinitrotoluene	ND	0.010	mg/L	0.13	1	11/17/98 7:56:00 PM
2-Methylphenol	0.0132	0.010	mg/L	200	1	11/17/98 7:56:00 PM
3&4-Methylphenol	0.0148	0.010	mg/L	200	1	11/17/98 7:56:00 PM
Hexachlorobenzene	ND	0.010	mg/L	0.13	1	11/17/98 7:56:00 PM
Hexachlorobutadiene	ND	0.010	mg/L	0.5	1	11/17/98 7:56:00 PM
Hexachloroethane	ND	0.010	mg/L	3	1	11/17/98 7:56:00 PM
Nirobenzene	ND	0.010	mg/L	2	1	11/17/98 7:56:00 PM
Pentachlorophenol	ND	0.010	mg/L	100	1	11/17/98 7:56:00 PM
Pyridine	ND	0.010	mg/L	5	1	11/17/98 7:56:00 PM
TCLP VOLATILES		SW1311/826	)8			Analyst FL
1,1-Dichloroethene	ND	0.0050	mg/L	0.7	1	11/4/98 5:35:00 PM
1,2-Dichloroethane	ND	0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
1,4-Dichlorobenzene	ND	0.0050	mg/L	7.5	1	11/4/98 5:35:00 PM
2-Butanone	ND	0.050	mg/L	200	1	11/4/98 5:35:00 PM
Benzene	0.00504	- 0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
Carbon tetrachloride	ND	0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
Chlorobenzene	ND	0.0050	mg/L	100	1	11/4/98 5:35:00 PM
Chloroform	ND	0.0050	mg/L	6	1	11/4/98 5:35:00 PM
Tetrachloroethene	ND	0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
Trichloroethene	ND	0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
Vinyi chloride	ND	0.0050	mg/L	0.2	1	11/4/98 5:35:00 PM

Qualiflers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

- B Analyte detected in the associated Method Blank
- - Value exceeds TCLP Maximum Concentration Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1 of 2

ENATBON VERVIKZ

#### 03/02/66 T0:58 LEF 581 533 2620

Date: 19-Nov-98

SMITH INTERNATIONAL **CLIENT:** Client Sample ID: SL-1-SDC-NM **Project Name:** SD & C Farmington, NM Lab ID: 9810105-01B SD & C Farmington, NM **Project No:** Collection Date: 10/27/98 9:15:00 AM 9810105 Lab Order: Matrix: SLUDGE TCLP Result **RL** Qual Units DF Analyses **Date Analyzed** Limite

				Limits		
TCLP MERCURY		SW1311/7470A	\			Analyst: BZ
Mercury	0.0641	0.020	mg/L	0.2	1	11/4/98 1:10:00 PM
TCLP METALS	ę	SW1311/6010E	1			Analyst: BZ
Arsenic	ND	0.016	mg/L	5	1	11/4/98 4:03:00 PM
Banum	2.01	0.0060	mg/L	100	5	11/4/98 4:31:00 PM
Cadmium	ND	0.0029	mg/L	1	1	11/4/98 4:03:00 PM
Chromium	ND	0.012	mg/L	5	1	11/4/98 4:03:00 PM
Lead	0.0570	0.014	mg/L	5	1	11/4/98 4:03:00 PM
Selenium	ND	0.013	mg/L	1	1	11/4/98 4:03:00 PM
Silver	ND	0.0072	mg/L	5	1	11/4/98 4:03:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds TCLP Maximum Concentration Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

2 of 2

ENAIBON VEEVIES

03/02/66 T0:58 LEF 581 533 2620

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Date: 18-Nov-98

CLIENT:	SMITH INTERNATIO	ONAL		C	Client Sample ID:	SL-1-	SDC-NM
Project Name:	SD & C Farmington,	NM			Lab D:		
Project No:	SD & C Farmington,	NM			Collection Date:	10/27/	/98 9:15:00 AM
Lab Order:	9810105				Matrix:	SLUD	OGE
Analyses		Result	RL	Qual	Units	DF	Date Analyzed
PH SOIL		<u> </u>	SW9045B				Analyst: JV
pH <sup>3</sup>		7.58	. 0		pH Units	1	11/3/98 9:50:00 AM
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			•		S - Soike Decourse		cepted recovery limits
Qualifiers:	ND - Not Detected at the R				R - RPD outside acce		
- •	J - Analyte detected below				E - Value above quan		
	B - Analyte detected in the		•		us + value auove quan		
	<ul> <li>Value exceeds Maximu</li> </ul>	m Contaminan	IL LEVEI				10

ENAIBON VEEVIBS

03/02/88 T0:28 TEL 281 233 5620

Date: 18-Nov-98

CLIENT:	SMITH INTERNAT	TIONAL		Client Sampl	e ID: SW-1	-SDC-NM
Project Name:	SD & C Farmingto	n, NM		La	b ID: 98101	05-02B
Project No:	SD & C Farmingto	n, NM		Collection ]	Date: 10/27	/98 8:45:00 AM
Lab Order:	9810105			Ma	atrix: AQUI	EOUS
Analyses		Result	RL Q	al Units	DF	Date Analyzed
TOTAL SUSPEN	NDED SOLIDS	E1	60.2			Analyst: JA
Suspended Sollo Filterable)	ls (Residue, Non-	240	5.0	mg/L	1	11/3/98 4:00:00 PM

Qualifiers:

2.0

- ND Not Detected at the Reporting Limit
- J Analyte detected below quantitation limits
- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

2 of 2

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03\02\66 T0:58 LEF 581 533 2650

Austin Analytical Laboratory 2401 Holly Street P. O. Box 1088 Austin, TX 78767-8814 (512) 505-7840 FAX: 505-7843

November 9, 1998

#### **Jacob Vasquez**

DHL Analytical 2300 Double Creek Drive Round Rock, Texas 78664 Phone:388-8222, Fax:388-8229

Enclosed is the laboratory report for the following sample batch:

Sample Batch ID: Job Number: Date Submitted: Submitted by: Received by: Sampler: 98104493 DHLANAL 10/29/98 11:10 Cindy Taylor E. Dudak-Pawlik

The attached analysis results were determined in accordance with the referenced test methods. If you have any question concerning this laboratory report, please contact us at (512) 505-7842.

Sincerely

Larry K Mutschler Acting Laboratory Supervisor Austin Analytical Laboratory

enclosures

# Laboratory Report

Report Date: Monday, November 09, 1998

Client ID	SL-1-SDC-NM	(9810105-01C)						
Lab Sample ID	98104493 - 2	24493			Collectio	n Date	10/27/98	9:15:00 AM
Date Submitted	10/29/98	11:10:00 AM			Sampler			
Submitted by	Cindy Taylor				Sample N	latrix	SLUDGE	
Received by	E. Dudak-Paw	lik _			QC Samp	ole ID	AA14537	
Parameter Name	) F	Result(s)	Units	Reference	:0	Analys	la Date	Reporting Limit
Reactive cyanide	1	79	mg/Kg as HCN	SW846.7	.3	11/6/96		25
Reactive sulfide		< 50	mg/Kg as H2S	SW846.7	.3	11/6/98	1	50
Cilent ID	SW-1-SDC-NN	I (9810105-02A)						
Lab Sample ID	98104493 - 2	24494			Collectio	n Date	10/27/98	8:45:00 AM
Date Submitted	10/29/98	11:10:00 AM			Sampler			
Submitted by	Cindy Taylor				Sample M	<i>latrix</i>	Water	
Received by	E Dudak-Paw	lik			QC Samp	ole ID	AA14538	
Parameter Name	) 1	Result(s)	Units	Reference	ce	Analys	is Date	
Total Phosphate	Į.	5.84	mg/L as P	SM4500	P	10/29/9	98	0.196
Cilent ID	SW-1-SDC-NN	I (9810105-02C)						
Lab Sample ID	98104493 - 2	24495			Collectio	n Date	10/27/98	8:45:00 AM

Date Submitted	10/29/98	11:10:00 AM			Sampler		
Submitted by	Cindy Taylor				Sample Matrix	Water	
Received by	E. Dudak-Paw	lik			QC Sample ID	AA14539	
Parameter Name	) 1	Result(s)	Units	Reference	e Analys	sis Date	Reporting Limit
Oll and Grease	-	5.5	mg/L	E1664	11/4/9	8	2.9

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Page 1 of 1

## QC Report for sample batch: 98104493

Reactive cyanide		
QC Batch Number: CN-RX-1162		
Analysis Date: 11/06/98		•
QC Sample ID: AA14537		
Method blank	< 0.004	mg HCN
Laboratory control standard	6.64	mg HCN
Laboratory control standard measurement	5.25	mg HCN
Laboratory control standard recovery	79.1	% Recovery
Oil and Grease		· · · · · · · · · · · · · · · · · · ·
QC Batch Number: O&G_SP-1146		
Analysis Date: 11/04/98		
QC Sample ID: AA14569		
Method blank	< 2.9	mg/L
Laboratory control standard	40.0	mg/L
Laboratory control standard measurement	36.8	mg/L
Laboratory control standard recovery	92.0	% Recovery
Matrix spike added	40.0	mg/L
Matrix spiked sample result	39.2	mg/L
Matrix spike recovery	98.0	% Recovery
Reactive sulfide		····
QC Batch Number: S-RX-1161		
Analysis Date: 11/06/98		
QC Sample ID: AA14537		
Method blank	< 0.0013	mg H2S
Laboratory control standard	:22.7	mg H2S
Laboratory control standard measurement	-22.7	mg H2S
Laboratory control standard recovery	94.3	% Recovery
Total Phosphate aqueous		· · · · · · · · · · · · · · · · · · ·
QC Batch Number: TPO4-1121		
Analysis Date: 10/29/98		
QC Sample (D: AA14502		
Method blank	< 0.02	mg/L as P
		mg/L as P
Laboratory control standard	0.163	
•	•	-
Laboratory control standard Laboratory control standard measurement Laboratory control standard recovery	0.163	mg/L as P % Recovery
Laboratory control standard measurement	•	mg/L as P
Laboratory control standard measurement Laboratory control standard recovery	0.163 100	mg/L as P % Recovery
Laboratory control standard measurement Laboratory control standard recovery Laboratory control standard duplicate	0.163 100_ 0.163	mg/L as P % Recovery mg/L as P

ENAIBON WEEVIES

#### QC Report for sample batch: 98104493

#### **Total Phosphate aqueous** QC Batch Number: TPO4-1123 Analysis Date: 10/29/98 QC Sample ID: AA14538 Matrix spike added 3.26 mg/L as P Matrix spiked sample result 9.14 mg/L as P Matrix spike recovery 101 % Recovery Matrix duplicate 6.00 mg/L as P Matrix duplicate relative percent deviation 2.70 RPD

ENVIRON AFFAIRS

03\02\66 IO:58 LEF 581 533 2050

## Unspiked sample results:

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etenqeord letoT	<b>17</b> 8'S	Ч ав Л\рт	85341AA
eebend bus liQ	< 2.9	ד/6ש	69541AA
1919/16160 Eleviena	JIUESY	รมนก	

ENVIRON AFFAIRS

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	Sampler			nte <u> </u>	
(512) 605-7840 FAX (512) 505-7843	Cost Trac	cking incident	W.O.: Number	Batch Num 981	3493
Sample I.D./Description	Matrix	Date/Time Collected	Analysis Request	TAT Request	Lab I.D.
SL-1-5DC-NM (9810105-01C)	Sludge	10-27-98 9:15 Am	Reactivity	Huk	24493
SW-1-SDC-NM (9810105-03A)			Total Phosphorus	I/wk	24496
SW-1-SDC-NM (9810105-02C)	Water	10-27-988:45A	1664	Hwk	2449
					100 100
	<u>к</u>		-		
		1 2	******		-
			· · · · · · · · · · · · · · · · · · ·	-	· · · · · · · · · · · · · · · · · · ·
		•		,	 
2. Received by <u>ESATOLACC</u> of <u>MAL</u> Date/Time_] 3. Relinquished byof Date/Time 4. Received byof Date/Time	0/24/48	3 11:10 Am 3 11:10 am		TSS, COD, TOO PLM, PCM Mairix Types:	Fe, Cu, Ca, OdG, C, pH, Conductivity Paint, Wipe, Filler

ENVIRON AFFAIRS

13

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03/05/99 10:28 TEL 281 233 5620

Date: 18-Nov-98

#### CLIENT: SMITH INTERNATIONAL

Work Order: 9810105

### QC SUMMARY REPORT

Method Blank

Project: SD & C Farmington, NM

Sample ID: MB-2252	Batch ID:	2252		Test Code:	: SW6	0108	Unit	а: µg/l	L _	
	Run ID:	ICP_981	104A	Analysis D	ate: 11/4/	/98 3:29:00 P	M Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPOLimit	Qua
Arsenic		ND	16							
Barlum		ND	1.3							
Cadmium		ND	2.9							
Chromium		ND	12							
Lead		ND	14							
Selenium		ND	13							
Silver		ND	7.2							
Sample ID: MB-2255	Batch ID:	2255		Test Code	: SW8	2608	Unit	s: μg/		
	Run ID:	GCMS2	_981104A	Analysis D	ate: 11/4	/98 4:41:00 F	M Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
1,1-Dichloroethene		ND	5							
1,2-Dichloroethane		ND	5						•	
1,4-Dichlorobenzene		ND	5						_	
2-Butanone		ND	50							
Benzene		ND	5							
Carbon tetrachloride		ND	5							
Chlorobenzene		ND	5				-		•	
Chloroform		ND	5			x.				
Tetrachloroethene		ND	5	•						
Trichloroethene		ND	5							
Vinyl chloride		ND	5							
Sample ID: MB-2256	Batch ID:	2256		Test Code	: SW1	311/7470	Unit	s: mg	/L	
	Run ID:	CVAA_	981104A	Analysis C	)ate: 11/4	/98 1:10:00 F	M Prep	).Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Мегсигу		ND	0.02							
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°.						·	, -			
Qualifiers: ND - Not D	etected at the	Reporting L	.imit	R - 1	RPD outside	e accepted reco	overy limits			
	detected below	v quantitatio	on limits	B - 7	Analyte det	ected in the as	sociated Meth	od Blank	·	
· · · · · ·			recovery limits							

ENALBON VERVIES

03/02/66 IO:58 LEF 58I 533 2050

#### CLIENT: SMITH INTERNATIONAL Work Order: 9810105

#### Project: SD & C Farmington, NM

## QC SUMMARY REPORT

Method Blank

Sample ID: MB-2270	Batch ID:	2270		Test Code	: SW1	311/8270	Unit	s: mg/	L
	Run ID:	Run ID: GCMS3_981117A		Analysis [	Analysis Date: 11/17/98 7:23:00		PM Prep Date: 11/6/98		
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit Qu
1,4-Dichlorobenzene		ND	0.01						
2,4,5-Trichlorophenol		ND	0.01						
2,4,6-Trichlorophenol		ND	0.01						
2,4-Dinitrotoluene		ND	0.01						
2-Methylphenol		ND	0.01						
3&4-Methylphenol		ND	0.01						
Hexachlorobenzene		ND	0.01						
Hexachlorobutadiene		ND	0.01						
Hexachloroethane	•	NĎ	0.01						
Nitrobenzene		ND	0.01						
Pentachlorophenol	•	ND	0.01						
Pyridine		ND	0.01						

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

2 of 2

ENVIRON AFFAIRS

Date: 18-Nov-98

#### SMITH INTERNATIONAL CLIENT: 9810105 Work Order:

## QC SUMMARY REPORT

Sample Duplicate

SD & C Farmington, NM **Project:** 

Sample ID: 9810117-01E DUP	Batch ID: Run ID:	TSS_W-11 WC_98110		Test Code Analysis C		).2 '98 4:00:00 F	Unit PM Prep	s: mg/ Date:	L	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Suspended Sollds (Residue, Nor	n-Filter	42	5	0.	0.0%	0	0	6.9%	20	
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		Reporting Lim				accepted rec	overy limits sociated Meth			

S - Spike Recovery outside accepted recovery limits

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ENVIRON AFFAIRS

233 2620 TEL 281 10:28 66/90/80

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Date: 18-Nov-98

CLIENT:		INTERNAT	IONAL				Q	C SUM	MARY	( REPO	RT
Work Order: Project:	9810105 SD & C	Farmington	ı, NM						Sample	Matrix S	pike
Sample ID: 981010	5-018 MS	Batch ID:	2252		Test Code;	SW1:	311/6010	Unit	s: mg/	L	
		Run ID:	ICP_98	1104A	Analysis Da	ate: 11/4/	98 4:11:00 PM	A Prep	Date: 11/4	4/98	
Analyte			Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic			1.0 <del>5</del> 4	0.016	1	105.4%	80	120			
Cadmium	•		0.981	0.0029	1	98.1%	80	120			
Chromium		I	0.8832	0.012	1	88.3%	80	120			
Lead			0.9112	0.014	1	85.4%	80	120			
Selenium			1.119	0.013	1	111.9%	80	120			
Sliver			1.119	0.0072	1	111.9%	80	120			
Sample ID: 981010	5-018 MS	Batch ID:	2252		Test Code:	SW1	311/6010	Unit	s: mg/	<u> </u>	
		Run ID:	ICP_98	1104A	Analysis D	ate: 11/4/	98 4:39:00 Pl	И Ртер	) Date: 11/	4/98	
Analyte			Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium			3.271	0.0065	1	126.1%	80	120			S
Sample ID: 981010	5-018 MSD	Batch ID:	2252		Test Code:	SW1	311/6010	Unit	s: mg	<u>ال</u>	
		Run ID:	ICP_98	31104A	Analysis D	ate: 11/4/	98 4:19:00 PI	Vi Prep	Date: 11/	4/98	
Analyte			Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic			1.052	0.016	1	105.2%	80	120	0.2%	15	
Cadmium			0.9785	0.0029	1	97.9%	80	120	0.3%	15	
Chromium			0.883	0.012	1 2	88.3%	80	120	0.0%	15	
Lead			0.928	0.014	1	<b>87</b> .1%	80	1 <b>20</b>	1.8%	15	
Selenium			1.122	0.013	1	112.2%	80	120	0.3%	15	
Silver			1.08	0.0072	1	108.0%	80	120	3.6%	15	
Sample ID: 981010	5-01B MSC	Batch ID:	2252		Test Code	: SW1	311/6010	Unit	s: mg	/L	
		Run ID:	ICP_98	51104A	Analysis D	)ate: 11/4	98 4:51:00 P	M Pre	Date: 11/	4/98	
Analyte			Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium			3.268	0.0065	1	125.8%	80	120	0.1%	15	S
Sample ID: 981100	1-01A MS	Batch ID:	2255	· · · · · ·	• Test Code	: <b>SW8</b>	260B	Unit	s: µg/	L	
<u> </u>		Run 10:	GCMS	2_981104A	Analysis D	)ate: 11/4	98 8:16:00 P	M Pre	Date: 11/	4/98	
Analyte			Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
1,1-Dichloroethene			52.38	5	50	104.8%	75	125			
Benzene			50.28	5	50	100.6%	75	125			
Chlorobenzene			52.91	5	50	105.8%	75	125	•		
Toluene			48.03	5	50	96.1%	75	125			
Trichloroethene		,	52.02	5	50	104.0%	75	125			
Qualifiers:	ND - Not D	Detected at the	Reporting	Lirrit	R - F	PD outside	accepted reco	very limits			
		detected below					cted in the ass	•	od Blank		
	S - Spike R	ecovery outsid	e accepted	recovery limits						· I of ]	2
											-

TO:58 LEF 581 533 2050 03\02\30

#### CLIENT: SMITH INTERNATIONAL Work Order: 9810105

Project: SD & C Farmington, NM

#### **QC SUMMARY REPORT**

Sample Matrix Spike Duplicate

Sample ID: 9811001-01A MSD	Batch ID:	2255		Test Code	: SW8	260B	Unit	s: µg/l	<b>_</b>	
	Run ID: GCMS2_981104A		981104A	Analysis Date: 11/4/98 8:43:00 PN			M Prep Date: 11/4/98			
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene		51.53	5	50	103.1%	75	125	1.6%	20	
Benzene		49.4	5	50	98.8%	75	125	1.8%	20	
Chiorobenzene		52.41	5	50	104.8%	75	125	0.9%	20	·
Toluene		46.94	5	50	93.9%	75	125	2.3%	20	
Trichloroethene		51.32	5	50	102.6%	75	125	1.4%	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

2 of 2

ENVIRON AFFAIRS

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03/02/66 T0:28 LEF 581 533 2620

#### CLIENT: SMITH INTERNATIONAL Work Order: 9810105

#### QC SUMMARY REPORT

Project: SD & C Farmington, NM

Laboratory Control Spike - generic

•

Sample ID: LCS-2252	Batch ID:	2252		Test Code	: SW60	)10 <b>B</b>	Unit	s: µg/l	-	
	Run ID:	ICP_981	1 <b>04A</b>	Analysis D	)ate: 11/4/9	98 3:37:00 PI	<b>N</b> Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Arsenic		1104	16	1000	110.4%	80	120			
Barlum		1079	1.3	1000	107.9%	80	120			
Cadmlum		1077	2.9	1000	107.7%	80	120			
Chromium		1034	12	1000	103.4%	80	120			•
Lead		1093	14	1000	109.3%	80	120			
Selenium		1163	13	1000	116.3%	80	120			
Sllver		113 <del>9</del>	7.2	1000	113.9%	80	120			
Sample ID: LCSD-2252	Batch ID:	2252		Test Code	: SW6	010B	Unit	s: µg/		
	Run iD:	ICP_981	1104A	Analysis (	Date: 11/4/	98 3:45:00 P	M Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Arsenic		1122	16	1000	112.2%	80	120	1.6%	15	
Barium		1093	1.3	1000	109.3%	80	120	1.3%	15	
Cadmium		1098	2.9	1000	109.8%	80	120	2.0%	15	
Chromium		1077	12	1000	107.7%	80	120	4.1%	15	
Lead		1094	14	1000	109.4%	80	120	0.1%	15	
Selenium		1171	13 -	1000	117.1%	80	120 -	0.6%	15	
Sample ID: LCSD-2252	Batch ID:	: 2252		Test Code	∋: SW6	010B	Unit	is: µg/		
	Run ID:	ICP_98	1104A	Analysis I	Date: 11/4/	98 3:55:00 P	M Pre	p Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Sliver		1 <b>118</b>	7.2	1000	111.8%	80	120	1.8%	15	
	-									
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	- Not Detected at the	Reporting	[ imit		RPD outside	accepted reco	wery limite			
-	- Not Detected at the					ected in the ass		od Blank		
] - A				-						
	Spike Recovery outsi	de accepted	recovery limits	-					l of	· 7

ENALBON VERALRS

03/02/66 T0:58 LEF 581 533 2050

#### CLIENT: SMITH INTERNATIONAL Work Order: 9810105

Project: SD & C Farmington, NM

## QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS-225	5 Batch ID:	2255		Test Code:	SW82	260B	Units	: µg/L	•	
	Run ID:	GCMS2	2_981104A	Analysis D	ate: 11/4/9	98 4:14:00 P	М Ртер	Date: 11/4	1/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
1,1-Dichloroethene		52.05	5	50	104.1%	75	125			
1,2-Dichloroethane		53.01	5	50	106.0%	75	125			
1.4-Dichlorobenzene	•	52.44	5	50	104.9%	75	125			
2-Butanone		182	50	200	91.0%	50	150			
Benzene		52.37	5	50	104.7%	75	125			
Carbon tetrachloride		54	5	50	108.0%	75	125			
Chlorobenzene		53.91	5	50	107.8%	75	125			
Chloroform		51,56	5	50	103.1%	75	125			
Tetrachloroethene		53.61	5	50	107.2%	75	125			
Trichloroethene		54.56	5	50	109.1%	75	125			
Vinyi chloride		58.02	5	50	116.0%	75	125			
Sample ID: LCS-225	6 Batch ID:	2256	<u> </u>	Test Code	: SW1:	311/7470	Units	а; mig/	L	
	Run ID:	-	981104A	Analysis C	ate: 11/4/	98 1:10:00 P	м Ргер	Date: 11/4	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Mercury	<u> </u>	4.666	0.02	5	93.3%	77	120			
Sample ID: LCSD-22	256 Batch ID:	2256	· · · ·	Test Code	: SW1:	311/7470	Unit	s: mg/	······	
	Run ID:		_981104A	Analysis C	)ate: 11/4/	98 1:10:00 F	м Ргер	Date: 11/	4/98	
Analyte	<u>.</u>	Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Мегсигу		4.373	0.02	5	87.5%	77	120	6.5%	15	
Sample ID: LCS-227	r0 Batch ID:	: 2270		Test Code	SW1	311/8270	Unit	s: mg	/L	_
	Run ID:	GCMS	3_981117A	Analysis [	Date: 11/17	7/98 6:50:00	PM Prep	Date: 11/	6/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
1,4-Dichlorobenzene	,	0.03	0.01	0.04	75.0%	40	140			
2,4,5-Trichloropheno	)l	0.0308	0.01	0.04	77.0%	40	1 <b>40</b>			
2,4,6-Trichlorophene	1 <b>1</b>	0.0338	0.01	0.04	84.5%	40	1 <b>40</b> -			
2,4-Dinitrotoluene		0.018	. Q.01	0.04	45.0%	40	140			
2-Methylphenol		0.0288	0,01	0.04	72.0%	40	140			
3&4-Methylphenol		0.0664	0.01	0.08	83.0%	40	140			
Hexachlorobenzene		0.0348	0.01	0.04	87.0%	40	1 <b>40</b>			
Hexachlorobutadien	э.	0.0332	0.01	0.04	83.0%	40	140			
Hexachloroethane		0.0244	0.01	0.04	61.0% -	40	140			
Nitrobenzene		0.0336	0.01	0.04	84.0%	40	140		•	
Pentachiorophenol		0.0412	0.01	0.04	103.0%	40	140			
remachiorophienoi		0.0474	0.01	0.04	118.5%	40	140			
Pyridine										
• • • •										
Pyridine Qualifiers:	ND - Not Detected at the	• •				accepted rec	•			
Pyridine Qualifiers:	ND - Not Detected at the J - Analyte detected belo S - Spike Recovery outsi	w quantitat	ion limits			•	overy limits sociated Metho	od Blank	2 of .	

District I - (505) 393-6161       New Mexico         O. Box 1980       Energy N       rals and Natural Resource         Nobbs, NM 88241-1980       Energy N       rals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         11 S. First       2040 South Pacheco Street         rtcsia, NM 88210       2040 South Pacheco Street         Virtict III - (505) 334-6178       Santa Fe, New Mexico 87505         Niso Brazos Road       (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Donur Found 15:40	4. Generator U.S. Oil
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site white away & ceret
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter $u.5.60($
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Utah. almayo Natoon
7. Location of Material (Street Address or ULSTR)	INC Battery Sec 2, NWDE, TY23, RZ48, SJC WELL
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accept and accept on the certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification</li> </ul>	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:	
Oil stained soil generated during a in crude oil gethering system.	lean up of spills and lacke
Nursey o Watson latta altached. Wever	Haute Distring 3
Estimated Volume 10 66 cy Known Volume (to be entered by the op	perator at the end of the haul) ————— cy
SIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TE	Manager DATE: <u>&gt;. 3.99</u> LEPHONE NO. 505-632-0615
(This space for State Use) APPROVED BY: Demy 2. Port TITLE: 6-0100	
APPROVED BY: Crow Durch TITLE: Coro	DATE: 2/3/97 200

#### 2-17-99; 1:38PM;YOUNG ENV

MENTAL

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<b>CERTIFICATE OF W</b>	ASTE	STAT	US
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1. Generator Namo and Address:	2. Destination Nema:
US Oil & Gas, Inc. P.O. Box 270 Dolores, CO 81323	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
White Mesa Unit T 41 and 42 S R 24 E San Juan County, Utah Att <b>uch Unt of originating alsos as appropriate</b>	White Mesa Unit 106 Battery Sec 2 NW NE T 42 S R 24 E San Juan County, Utahin
4. Source and Description of Waste Oil stained dirt from flowline leaks wells within the White Mesa Unit.	s within tank batterys and from

🖌 Pat Woosley representative for: (Print Name) US Oil & Gas, Inc. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

X EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hezerdous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items): **MSDS** Information

- RCRA Hazardous Waste Analysis
- Chain of Custody

Other (description):

Name (Original Signature):	fat We	soley
Title:	Vice President	
Date:	2/19/99	







"Protecting Mother Earth"

ENCLONNENTAL PROTECTION XENC: P.J. Bar 339 Window Back, Arizana 86515

(520) 87L-7692

February 11, 1999

Pat Woosley , U.S. Oil, Inc P.O. Box 270 Dolores, Colorado 81323

RE: Disposal and Transport of the petroleum contaminated soils located at the "A" Tank Battery in Section 28 T41R24E and "106" Tank Battery in Section 28, T42SR24E, San Juan County, Utah to Landfarm in Hilltop,NM (NMOCD approved)

Dear Mr. Woosley:

Our office has received and reviewed your letter December 9, 1998 with the proposed plan to transport and dispose of the petroleum contaminated soils located at the "A" Tank Battery in Section 28 T41R24E and "106" Tank Battery in Section 28, T42SR24E, San Juan County, Utah to an New Mexico Oil Commission Division approved landfarm in Hilltop,NM.

The recommendation by your consultant, Envirotech, Inc, to obtain soil samples, analyze samples and properly dispose of at approved landfarm facility is acknowledged and these samples should be analyzed for Total Petroleum Hydrocarbons using USEPA Method SCIE. The priority need, to be the petroleum contaminated soils on your tank batteries located near Sahgzie Creek in order to prevent the potential for a release of oil to the waterway. A sampling report needs to be submitted to our office with the analysis report and map diagram of where the samples were obtained on the site. Also, please inform our office of your scheduled time and date, so my staff can monitor and document the excavation, removal and transport of the petroleum contaminated soils to an approved facility. The soil and other waste material may not be returned to the Navajo Nation after removal from your facility. A closure report with final disposal manifest and copy of landfarm permit needs to be sent to our office for the file. This letter does not exclude you from following existing applicable environmental codes and statutes, nor does this release you from any liability in excavating, transporting and disposing of the petroleum contaminated soils. If you should have any questions, please contact Michele Morris of my staff at (520) 871-7808.

Sincerely,

fund

Lewis E. Tutt, Acting Executive Director Navajo Nation Environmental Protection Agency

cc: Michsie Morte, NRIEPA, UST/AST Program Ronnie Ban, NNEPA, NPDES Program Michaele Kedulty, NRIEPA, Ranger Statue Auden, NRIEPA, Water Quality Program

Unda Taylor, BUA, Shiprock Agency

NAVENOV, NATION VENTRONATENTAL PROTECTION AGENCY - Underground/Aboveground Storage Tank Program Jacony Johnstone, US EPARagion IX ONA Complexice Office ANDEr Zamon, Navado Minarada Department P.O. BOX 339 WINDOW ROCK, ARIZONA PH# (520) 871-7808/7692

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District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Merals and Natural Resource         Hobbs, NM 88241-1980       Oil Conservation Division         District III - (505) 748-1283       2040 South Pacheco Street         Strict III - (505) 334-6178       2040 South Pacheco Street         Nio Brazos Road       Santa Fe, New Mexico 87505         Science, NM 87410       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
Down T Fount           1. RCRA Exempt:         Non-Exempt:         2.17-99           15:40         15:40	4. Generator し、ちのい
Verbal Approval Received: Yes 🔀 No 🗋	5. Originating Site unt
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter U.S.O.
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Utal- Nungo det.
7. Location of Material (Street Address or ULSTR)	"A"BATTERY THE 425 R 24E . Straw Juan Comby Utah
9. <u>Circle One</u> :	J
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accord PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Cil stained divit generated during spills & loaks on course of gett Notice of Stained Destion Letter altector	n of origin. No waste classified hazardous by d for transport. S claam up of various have system DECEIVED MAR - 3 1999
Estimated Volume	$\begin{array}{c} \textcircled{\begin{tabular}{lllllllllllllllllllllllllllllllllll$
SIGNATURE: <u>Waste Management FacilityAuthorized Agent</u> Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TEI	Manager DATE: <u>3・3・9</u> LEPHONE NO.
(This space for State Use) APPROVED BY: Deny B. Fam TITLE: Geola APPROVED BY: Earle Buch TITLE: Geola	<u>og is</u> DATE: <u>3/3/99</u> DATE: <u>3/3/99</u>

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Generator Nama and Address:	2. Destination Name:
US Oil & Gas, Inc. P.O. Box 270 Dolores, CO 81323	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
Originating Site (neme):	Location of the Waste (Street address &/or ULSTR):
White Mesa Unit	White Mesa Unit
I 41 and 42 S R 24 E San Juan County, Utah	"A" Battery San Juan County, Utah
Attach list of originating sites as appropriate	
Seurce and Description of Waste	
Pat Woosley (Print Nem	representative for:
US Oil & Gas, Inc.	do hereby certify
rding to the Resource Conservation a	nd Recovery Act (RCRA) and Environmental Protection Agency's
rding to the Resource Conservation a , regulatory determination, the above	
rding to the Resource Conservation a , regulatory determination, the above EXEMPT oilfield waste	nd Recovery Act (RCRA) and Environmental Protection Agency's described waste is: (Check oppropriate classification)
ding to the Resource Conservation a , regulatory determination, the above EXEMPT cilificid waste	nd Recovery Act (RCRA) and Environmental Protection Agency's described waste is: (Check oppropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characte
rding to the Resource Conservation a , regulatory determination, the above EXEMPT oilfield waste hat nothing has been added to the exc	nd Recovery Act (RCRA) and Environmental Protection Agency's described wasts is: (Chock oppropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characte analysis or by product identification
rding to the Resource Conservation a , regulatory determination, the above EXEMPT oilfield waste hat nothing has been added to the ex- ION-EXEMPT waste only the follow MSDS Information RCRA Hazardous Waste A	nd Recovery Act (RCRA) and Environmental Protection Agency's described waste is: (Check oppropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characte analysis or by product identification empt or non-exempt non-hazardous waste defined above. ving documentation is attached (check appropriate items): Other (description):
A second	nd Recovery Act (RCRA) and Environmental Protection Agency's described waste is: (Check oppropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characte analysis or by product identification empt or non-exempt non-hazardous waste defined above. ving documentation is attached (check appropriate items): Other (description):
rding to the Resource Conservation as , regulatory determination, the above EXEMPT oilfield waste hat nothing has been added to the exc ION-EXEMPT waste only the follow MSDS Information RCRA Hazardous Waste A Chein of Custody	nd Recovery Act (RCRA) and Environmental Protection Agency's described waste is: (Check oppropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characte analysis or by product identification empt or non-exempt non-hazardous waste defined above. ving documentation is attached (check appropriate items): Other (description):
rding to the Resource Conservation a , regulatory determination, the above EXEMPT oilfield waste hat nothing has been added to the ex- IOM-EXEMPT waste only the follow MSDS information RCRA. Hazardous Waste A	nd Recovery Act (RCRA) and Environmental Protection Agency's described waste is: (Chrok oppropriate classification) NON-EXEMPT oilfield waste which is non-hazardous by characte analysis or by product identification empt or non-exempt non-hazardous waste defined above. ving documentation is attached (check appropriate items): Other (description): Analysis



THE **NAVAJO** NATION



"Protecting Mother Earth"

ENTRONMENTAL PROTECTOR ACTION P.C. Box 337 Window Sock, Arizona 86515

(520) 871-7692

February 11, 1999

Pat Woosley, U.S. Oil, Inc P.O. Box 270 Dolores, Colorado 81323

RE: Disposal and Transport of the petroleum contaminated soils located at the "A" Tank Battery in Section 28 T41R24E and \*106" Tank Battery in Section 28, T42SR24E, San Juan County, Utah to Landfarm in Hilltop.NM (NMOCD approved)

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The recommendation by your consultant, Envirotech, Inc, to obtain soil samples, analyze samples and properly dispose of at approved landfarm facility is acknowledged and these samples should be analyzed for Total Petroleum Hydrocarbons using USEPA Method 8015. The priority need to be the petroleum contaminated soils on your tank batteries located near Sangzie Creek in order to prevent the potential for a release of oil to the waterway. A sampling report needs to be submitted to our office with the analysis report and map diagram of where the samples were obtained on the site. Also, please inform our office of your scheduled time and date, so my staff can monitor and document the excavation, removal and transport of the petroleum contaminated soils to an approved facility. The soil and other waste material may not be returned to the Navajo Nation after removal from your facility. A closure report with final disposal manifest and copy of landfarm permit needs to be sent to our office for the file. This letter does not exclude you from following existing applicable environmental codes and statutes, not does this release you from any liability in excavating, transporting and disposing of the petroleum contaminated soils. If you should have any questions, please contact Michele Morris of my staff at (520) 871-7808.

Sincerely,

fund

Lewis E. Tutt, Acting Executive Director Navajo Nation Environmental Protection Agency

or: Michale Mortie, NNEPA, UST/AST Program Ronnie Bon, NNEPA, NPDES Program Michelie Kedaty, NNEPA, Range Stave Austin, NNEPA, Water Quality Program

NAVELOT NETION DENVIRONMENTAL PROTECTION AGENCY - Underground/Aboveground Storage Tank Program Aktar Zaman, Navajo Minerala Department

P.O. BOX 339 WINDOW ROCK, ARIZONA PH# (520) 871-7808/7692 Linda Taylor, BIA, Shiprock Agency ドムビオ (520)871-7599 TOU PRES#1.889.843.7809

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Intrict I - (505) 393-6161New MexicoO. Box 1980Energy Irals and Natural Resourceobbs, NM 88241-1980Energy Irals and Natural ResourceIntrict II - (505) 748-1283Oil Conservation Division1 S. First2040 South Pacheco Streettesia, NM 882102040 South Pacheco Street"trict III - (505) 334-6178Santa Fe, New Mexico 87505Nio Brazos Road(505) 827-7131c, NM 87410505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🖾 Non-Exempt: 🔲	4. Generator Grast Water Drilling
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Baus Falaral IE
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter pipeltane
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Dand Mapias
7. Location of Material (Street Address or ULSTR)	Sac 13, TZ6 K, R8W, SJ. County NYM.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>BSEW generated @ Crude od I Batter Tault repair.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by d for transport.
Estimated Volume — cy Known Volume (to be entered by the op	MAR - 3 1999       D         Image: Color of the faulty       Color of the faulty         Solution of the faulty       Color of the faulty
SIGNATURE: Harlan M. Brown TEL	Manager DATE: <u>2 23 - 9</u> 9 LEPHONE NO. 505-632-0615
(This space for State Use) APPROVED BY: Demy J. Tem/ TITLE: Geo/o APPROVED BY: June Buch TITLE: Geo/	<u>9137</u> DATE: <u>3/3/99</u> DATE: <u>3/3/89</u>



# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Great Wastern Drilling Co.	
7415 E. Main	Envirotech Soil Remediation Facility
FARMington, NW.	Landfarm #2
	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
BOND FEDGRAL IE	
SEC 13, TZGN, ROW	
SAN Juan County, Nor.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
BSEW AT Crude ail	Battary:
Greated when Track	
1.X John John B. Kee (Print Name) Graat Western Drilling	// א ֹמֵּrepresentative for:
(Print Name)	
Great Western Drilling	ng Co. do hereby certify that,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ary Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	MPT oilfield waste which is non-hazardous by characteristic r by product identification
	\ \

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

Other (description):

- \_\_\_\_ MSDS Information
  - RCRA Hazardous Waste Analysis
- \_\_\_\_ Chain of Custody

Name	(Ori	iginal Sig	gnature):	XS	Joh	-18 7	Sel	n viz	
Title:	<u>×.</u>	Dist	prod	<i>↓</i> G	r <i>lq.</i>	Supe	v 150	or <u> </u>	
Date:	X	7	- 22-	99	0	/			

District I - (505) 393-6161 P.O. Box 1980 Hobbs., NM 88241-1980 District II - (505) 748-1283 11 S. First urtesia, NM 88210 Verict III - (505) 334-6178 Rio Brazos Road Lec, NM 87410 District IV - (505) 827-7131	Energy N	rals and Nat Oil Conserv 2040 South Santa Fe, New	Mexico ural Resource ation Divisio Pacheco Street w Mexico 87505 827-7131	n	tment	Form C-138 Originated 8/8/95 Submit Original Plus 1 Copy to appropriate District Office
	REQUEST FO	OR APPROVAL	TO ACCEPT	SOLI	O WASTE	
1. RCRA Exempt: 🔯	Non-Exempt: (		22.99	4.	Generator Nelsc	D
Verbal Approval Receiv	ved: Yes		1	5.	Pa. Originating Site 人고	The Total #7
2. Management Facility D	estination F	irotech Soi acility Lan	l Remedia. dfarm #2		Transporter Esuin	
3. Address of Facility Ope		US Highway ington, NM			State Www Plan	
7. Location of Material (S	treet Address or	ULSTR)		"0" s	ac 20, 729 N, R13	W, SJC, NM.
9. <u>Circle One</u> :			·			
Generator; one ce B. All requests for ap PROVE the materi listing or testing wi All transporters must ce	proval to accept al is not-hazardo il be approved.	ous and the Gene	rator's certificatio	on of orig	gin. No waste classifie	
BRIEF DESCRIPTION OF petroleum 4 of injection		Trave Be		لمسط	DECEIN	molition EM
	. •		·		MAR - 3 199	9 <sup>(1)</sup>
	с С ал и				OIL CON. D DIST. 3	14
Estimated Volume					the end of the haul) —	cy
SIGNATURE:	gement FacilityAuthorit Harlan M. Br	zed Agent	LE: <u>Landfarm N</u>	Manage LEPHOI	505-632-06	<b>2.22.99</b>
(This space for State Us APPROVED BY:	se) my Zi nie Ba	1	TLE: <u>Geo/o</u> TLE: <u>Geo/o</u>		DATE:	3/3/99 )3/89



# **CERTIFICATE OF WASTE STATUS**

\$

1. Generator Name and Address:	2. Destination Name:
NHOOD	Envirotoph Coil Domodiation Posility
1000 Rio BRAZOS Rd	Envirotech Soil Remediation Facility Landfarm #2
AZTEC., NM. 87410	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
ABTEC Totah UNIT #7	
Injection Station	"O" Sec 20, 729N, R BW
	Swas Juan County, NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Patroleum thy drocar bon Joci	ios gonarated during domolition
of former Tank bottony G	2 mjaction stateon
1. Denny Foust	representative for:
1, Donny Foust	
New Mapico Oil Consorved	from Division do hereby certify that,
according to the Resource Conservation and Recover	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	waste is: (Check appropriate classification)
EXEMPT oilfield waste NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic
	by product identification
	•••
and that nothing has been added to the exempt or not	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum	
MSDS Information RCRA Hazardous Waste Analysis	Other (description):
Chain of Custody	
C	
1 M to	
Name (Original Signature):	eng
Title: <u>Environmental</u> Fesla, te	
The first to be a start of the	<u> </u>

7

l <u>strict I</u> - (505) 393-6161 O. Box 1980		New Mexico	N	Form C-138
obbs, NM 88241-1980	Energy N rals	and Natural Resource	es Cartment	Originated 8/8/9
<u>strict II</u> - (505) 748-1283 1 S: First	Oil	Conservation Divisio	n	
tesia, NM 88210	20	040 South Pacheco Street		Submit Origina
-urict III - (505) 334-6178	Sai	nta Fe, New Mexico 87505		Plus I Cop
ار Rio Brazos Road محد, NM 87410		(505) 827-7131		to appropria District Offic
trict IV - (505) 827-7131			Env. JN:	
F	REQUEST FOR A	PPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: 🔀	Non-Exempt:	Donny Foust 2.17.99	4. Generator (10755	
Verbal Approval Receiv	ed: Yes 🔀	15:40 No 🔲	5. Originating Site	vizoutel oilBore
2. Management Facility De	estination Envirot Facil	ech Soil Remedia. ity Landfarm #2	6. Transporter	
3. Address of Facility Ope		Highway 64 on, NM 87401	8. State flow the	
7. Location of Material (St	reet Address or ULST	R)	16" line crossing Q H	SAN Jam Riog
9. <u>Circle One</u> :				
	and to opposit allfield		-	· · · · · · · · · · · · · · · · · · ·
Generator; one cer		a exempt wastes will be acco	ompanied by a certification	or waste from the
		vemnt wastes must be acco	ompanied by necessary che	
			on of origin. No waste classif	
listing or testing wil			in of origin. No waste classif	ied nazaroous by
	bo appiotod.		· • •	
All transporters must ce	rtify the wastes delive	red are only those consigned	d for transport.	
BRIEF DESCRIPTION OF	MAIERIAL:	<b>~</b>	-	
Soil/mud	w/ 5% B.	atomite from	a Horizontal	2 boring
at the 54	~ Juan Riva	, & Hwr 64.	a Horizontal	Contracting C
		• •	In Frank Con Frank For the second	
-			DIEGEIWE	n l
			and the second of the second s	
	. · ·		EB 2 5 1900 L	<i>y</i>
-			1000	•
<i>.</i>			OIL CON. DI	7
			DISTL 3	6
1	• .		CONSILE S	
70	0 hh			
Estimated Volume	cy Known Vo	olume (to be entered by the op	erator at the end of the haul) -	су
·	• • • • • • • • • • • • • • • • • • •	·		
SIGNATURE: Ha	On m Brown	TITLE: Landfarm 1	Manager DATE	2.17.99
Mante Manag	ement FacilityAuthorized Agen			
TYPE OR PRINT NAME:	Harlan M. Brown		LEPHONE NO	0615
	· · · · · · · · · · · · · · · · · · ·			<u></u>
' (This space for State Us	()	1		
APPROVED BY: Der	NY D. to	my TITLE: Geolo	cist	2/2/1901
APPROVED BY: NO CON	11		<u> </u>	<u>upoup 17-</u>
1	0. 5	· · · · · ·		
APPROVED BY:	us / Jun	IL TITLE: Gen	Low 18 DATE:	2/26/95
-				



# **CERTIFICATE OF WASTE STATUS**

	DISTRICT.
1. Generator Name and Address:	2. Destination Name:
Williams Field Souvice	
190 CR 4980	Envirotech Soil Remediation Facility
BLOOMFIELD N.M.	Landfarm #2
3. Originating Site (name):	<u>Hilltop, New Mexico</u> Location of the Waste (Street address &/or ULSTR):
Hust 64 and Sou Juan River C.	rossing
2 miles castof there yet.	3
Bloomfield New Marico	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Soil water to bontomite gal	From soil Boring @ Hurg64 &
San Juan River crossing	
1. CHARLES E. JONES	representative for:
(Print Name)	
WILLIAMS FIELD SE	do hereby certify that,
according to the Resource Conservation and Recove	ery Act (RCRA) and Environmental Protection Agency's July

according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's Jul 1988, regulatory determination, the above described waste is: (Check appropriate classification)

X EXEMPT oilfield waste

 NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

\_\_ Other (description):

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- \_\_\_\_ MSDS Information
  - RCRA Hazardous Waste Analysis
  - Chain of Custody

harles E Name (Original Signature): Title: Date:

Istrict I - (505) 393-6161       New Mexico         O. Box 1980       Energy N       rals and Natural Resource         ob5s, NM 88241-1980       Energy N       rals and Natural Resource         istrict II - (505) 748-1283       Oil Conservation Divisio         11 S. First       2040 South Pacheco Street         resia, NM 88210       2040 South Pacheco Street         'Trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	•
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Dentry Fouse 2.16-59 11:30 d. M.	4. Generator EP.F.S
Verbal Approval Received: Yes 🔀 No 🗍	5. Originating Site Avgo #1E
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PSC
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Hannico
7. Location of Material (Street Address or ULSTR)	"N" SociB, TZTN, BIOW, SJC NU
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Soil Contominated w/ House Parafeiro &amp; Preaster</li> <li>a line breake</li> </ul>	on of origin. No waste classified hazardous by d for transport.
$\textcircled{O}_{2}$ Estimated Volume — $\underbrace{\mathcal{L}}$ cy Known Volume (to be entered by the op	DENLE DING DENLE DING DETLE 3 Derator at the end of the haul)
SIGNATURE: <u>Handson</u> TITLE: <u>Landfarm</u> Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TE	Manager DATE: <u>2・1<b>7・?</b></u> LEPHONE NO.
(This space for State Use) APPROVED BY: Demy D. Form TITLE: Geolo APPROVED BY: Since Buch TITLE: Geo	<u>915</u> DATE: <u>2/19/99</u> lagat DATE: <u>2/19/99</u>

# CERTIFICATE OF WASTE STATUS

1. Gener	ator Name and Address:	2. Destination Name:
E	el Paso Field Services Co.	Envirotech Soil Remediation Facility
6	14 Reilly Avenue	Landfarm #2
F	armington, NM 87401	Hilltop, New Mexico
3. Origin	ating Site (name):	Location of Waste(Street address &/or ULSTR):
Argo #1E	natural gas well	Block N, Section 18, T27N, R10W, San Juan Co., NM
	st of originating sites as appropriate	
4. Sourc	e and Description of Waste	
Soils con	taminated with heavy paraffin and produc	ed water.
١,	David Bays	representative for:
	(Print Name)	
	El Paso Field Services	
		very Act (RCRA) and Environmental Protection Agency's July,
1900 leg	ulatory determination, the above described	a waste is. (Check appropriate classification)
YE	XEMPT Oilfield waste NON	I-EXEMPT oilfield waste which is non-hazardous by
<u>_</u> E		racteristic analysis or by product identification
and that	nothing has been added to the exempt or	non-bazardous waste defined above
For NON	-EXEMPT waste only, the following docun	nentation is attached (check appropriate items):
	MSDS Information	
	RCRA Hazardous Waste Ana	alysis Other (description)
	Chain of Custody	
	.)	
Name	(Original Signature):	il Bay
		•
Title:	Principal E	nvironmental Scientist
Date:	February 1	6, 1999

Box 1980 NMN 88241-1980 Energy N rais and Natural Resource	es D Liment
Oil Conservation Divisio	
ia, NM 88210 2040 South Pacheco Street	Submit Origina
Ict III - (505) 334-6178 Santa Fe, New Mexico 87505 Rio Brazos Road (505) 927 7121	Environmental Bureau Plus 1 Čop Oli Consentation Division to appropriat
NM 87410 (303) 827-7131	Oil Conservation Division District Offic Env. JN: 9210(
<u>ct IV</u> - (505) 827-7131	Env. JN: <u> </u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator BJ. Services
Verbal Approval Received: Yes No	5. Originating Site Tence Accident
. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Enviroteett.
. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Die Minnico
Location of Material (Street Address or ULSTR)	Nw.4 See 28. TZ9N RPW SJC NM
<u>Circle One</u> :	
A. All requests for approval to accept olifield exempt wastes will be acc	ompanied by a certification of waste from the
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accept	
PROVE the material is not-hazardous and the Generator's certification	
listing or testing will be approved.	IN FEB 1 8 1999
All transporters must certify the wastes delivered are only those consigne	d for transport. OID CON DIV
RIEF DESCRIPTION OF MATERIAL:	DIST. 3
Clean up of satural anno the Anocarlow cant	minutual soil @ the scene
Clean up of patrolanne Hydrocarbon cont of a truste accident, (used ail, Hydrouli,	1 & aly cal-Antifreese
Thurste Accidente, " ", "you and	en aliter
TCLP Metals & RCRAREE Attach	<b>d</b> .
TCLP Matals & RCRAREX Attach	
TCLP Metals & RCRAREE Attach Soil classed up from roadside 12.28.98	Transported to LEZ 44, 15 2.1
TCLP Metals & RCRAREX Attach Soil classed up from romoside 12.28.98 Transpored to LF24Wit5 X.12 AFTER	Transportate LEZ UNITS Z. 1 The partals & RCI Classed (al
TCLP Metals & RCRAREX Attach Soil clanned up from romoside 12.28.98 Transported to LF24445 X.12 AFTER (1) 445 Concentrations below moning	Transportate LEZUMITS Z. 1 TLLP Matals & RCI Classed (al
TCLP Metals & RCRAREX Attach Soil clanned up from romoside 12.28.98 Transported to LF24015 X.12 AFTER (1) 4403 Concentrations below monime	Transportate LEZUMITS Z. 1 TLLP Matals & RCI Classed (al
TCLP Metals & RCRAREX Attach Soil classed up from romoside 12.28.98 Transpored to LF24Wit5 X.12 AFTER	Transportate LEZUMITS Z. 1 TLLP Matals & RCI Classed (al
TCLP Metals & RCRAREX Attach Soil clanned up from roadside 12.28.98 Transspered to LF24445 X.12 AFTER W/ HMZ Concentrations below maximus 12.23.98 11424 LF24 with Z.12 (Holding pond 1.25.99 Metavial Transfor log LF2 mits X.12 13	Transportate LEZUMITS I. 1 The The portals & REI Classed (al managements) (Zeg), 2003
TCLP Metals & RCRAREX Attack Soil clanned up from romoside 12:28:98 Trends Formed to LF2UNITS X. 12 AFTER W/ HMZ concentrate on below maximus 12:23.98 11424 LF2UNITS Z. 12 (Holding pad 1.25.99 Metarical transfer log LF2 mits X. 12 13 stimated Volume cy Known Volume (to be entered by the op IGNATURE: Hardward Transfer Log LF2 mits X. 12 13	Transported to LEZUM, tS I. 1 TLLP Matals & RCT Classed (al managenetis) (2.cg), 2.mg perator at the end of the haul) <u>12 cy</u> cy
TCLPMetals & RCRAREX Attack Soil clanned up from romoside 12.28.98 Transspered to LF2UMITS X.12 AFTER W/ HMZ Concentrations below maximus 12.23.98 11424 LF2UMITS Z.12 (Holding pade 1.25.99 Metavial transfer (og LF2 maits X.12 1) stimated Volume cy Known Volume (to be entered by the op IGNATURE: cy Known Volume (to be entered by the op	Transported to LEZUMITS I. 1 The The ported to LEZUMITS I. 1 The ported of the haul) - 12 a cy Manager DATE: 2.8.99 505-642-0615
TCLPMetals & RCRAREX Attack Soil clanned up from romoside 12.28.98 Transspered to LF2UMITS X.12 AFTER W/ HMZ Concentrations below maximus 12.23.98 11424 LF2UMITS Z.12 (Holding pade 1.25.99 Metavial transfer (og LF2 maits X.12 1) stimated Volume cy Known Volume (to be entered by the op IGNATURE: cy Known Volume (to be entered by the op	Transported to LEZUMITS Z. 1 The The products & Red Clanad (all manager DATE: <u>Z. 8.99</u> 505-642-0615
TCLP Metals & RCRAREX Attack Soil clanned ip from romoside 12:28:98 Transspered to LF2UMITS X. 12 AFTER W/ HMZ Concentration below maximus 12:23:98 11424 LF2 Umits Z. 12 (Holding pade 1:25:29 Metarical transfer log LF2 maits X. 12 11 stimated Volume cy Known Volume (to be entered by the op IGNATURE: Compared Facility Additional Agent	Transported to LEZUMITS I. 1 The The ported to LEZUMITS I. 1 The ported of the haul) - 12 a cy Manager DATE: 2.8.99 505-642-0615
TCLP Metals & RCRAREX Attack Soil clanned ip from romoside 12:28.98 Transperied to LF2Umits X.12 AFTER W/ HMZ Concentrations below maximus 12-23.98 11424 LF2 Umits Z.12 (Holding power 1:25.29 Metarical Transfer (og LF2 meits X.12 1) istimated Volume <u>I2 cy</u> cy Known Volume (to be entered by the op istimated Volume <u>I2 cy</u> cy Known Volume (to be entered by the op Wasie Management Facility Authorized Agent TITLE: Landfarm Wasie Management Facility Authorized Agent TPE OR PRINT NAME: <u>Harlan M. Brown</u> TE	Transported to $L \in \mathbb{Z}$ that is $\mathbb{Z} \cdot \mathbb{I}$ $T \in \mathbb{P}$ is the end of the haul) $\mathbb{I} = \mathbb{Z} - \mathbb{C}y$ Manager DATE: $\mathbb{Z} \cdot \mathbb{R} \cdot \mathbb{R}^2$ LEPHONE NO. $\frac{505-632-0615}{2}$
TCLPMetals & RCRAREE Attack Soil clanned up from romoside 12.28.98 Trenois Formed to LF2UWITS X.12 AFTER W/ HMZ Concentrations below maximus 12.23.98 11424 LF2UWITS Z.12 (Kolding pool 1.25.99 Metarical transfer log LF2 mits X.12 11 Estimated Volume cy Known Volume (to be entered by the op SIGNATURE: cy Known Volume (to be entered by the op Wasie Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TE	Transported to $L \in \mathbb{Z}$ that is $\mathbb{Z} \cdot \mathbb{I}$ $T \in \mathbb{P}$ is the end of the haul) $\mathbb{I} = \mathbb{Z} - \mathbb{C}y$ Manager DATE: $\mathbb{Z} \cdot \mathbb{R} \cdot \mathbb{R}^2$ LEPHONE NO. $\frac{505-632-0615}{2}$
TCLP Metals & RCRAREE Attack Soil clanned ip from roadside 12:28:98 Transspered to LF2Umits X. 12 AFTER W/ HMZ Concentration below maximus 12-23.98 11424 LF2 Units Z. 12 (Holding pade 1:25.99 Metarical Transfer (og LF2 meits X. 12 1) Estimated Volume <u>Day</u> cy Known Volume (to be entered by the op GIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TE	Transported to $L F = 24 \omega_1 + 5 \mathbb{E} \cdot 1$ The The products is rear classed (all means allows able time its. ingreently (2 eg., 2 mg perator at the end of the haul) <u>12 mg</u> cy Manager DATE: <u>2.8.99</u> LEPHONE NO. <u>505-632-0615</u> LEPHONE NO. <u>505-632-0615</u>

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District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy M. als and Natural Resource         District II - (505) 748-1283       Energy M. als and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         Still SFirst       2040 South Pacheco Street         Artesta, NM 88210       2040 South Pacheco Street         Virtict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE	
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator BJ. Services
Verbal Approval Received: Yes 🗋 No 🗋	12.22.98 5. Originating Site Truck Accident
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essuivatent.
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State a) and Mumico
7. Location of Material (Street Address or ULSTR)	Sulliver Rd extension in Consularyo Nw.4 See 28. TZ9N R9W SJC NM
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Clean up of patroleum Hybrocaclon content instand Soil @ the scene of a truck necident, (uned ail, Hybroulic oil &amp; glycal-Anthefreed).</li> <li>TC LP M etals &amp; RCRAREE Attfoeded.</li> <li>Soil cleaned up from reapside 12:28:98 Trompsonders to LF2 4445 \$\$ 12</li> <li>Transported to LF2 4445 \$\$ 12 LF2 4445 \$\$ 12</li> <li>12:23:98 II424 LF2 4445 \$\$ 12 (Kalding pading result) [2:29].</li> <li>Estimated Volume _ D</li></ul>	
SIGNATURE: <u>Harlan M. Brown</u> <u>Harlan M. Brown</u> <u>TITLE: Landfarm Manager</u> <u>TITLE: Landfarm Manager</u> <u>TITLE: Landfarm Manager</u> <u>TITLE: Landfarm Manager</u> <u>DATE: <u>Z. 8.99</u> <u>505-632-0615</u> <u>TELEPHONE NO.</u></u>	
(This space for State Use) APPROVED BY: Demy D. Pert TITLE: Geologist DATE: 2/11/99	
APPROVED BY: TITLE:	DATE:

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
BJ. Services	
3250 Southside River Rd	Envirotech Soil Remediation Facility
FARMINGTON, N.M.	Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Truck AccidENT @	NW4, Sec 28, 729N, R9W.
Sump Caro & Sullivan Rd	San Jran Comby, Num Mussico
& CAJON LARD	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Clean pot petrolem hyde	rocarbon liquids spilled at a
Track weedlast	
L	
(1)	
1, DALE FLARRISON	representative for:
(Print Name) 13.J. Services	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	Waste is: (Check appropriate classification)
EXEMPT oilfield waste 🛛 📐 NON-EXEM	<b>BDT</b> - Wield weste which is not becade to by aboratoristic
	<b>APT</b> oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum	nontration is attached (shock anno rists items):
$\underline{\times} MSDS Information$	$\times$ Other (description):
RCRA Hazardous Waste Analysis	RCRA RCI
Chain of Custody	TCLP Metals.
·	
Name (Original Signature):	
Title:	
Date:9_9	

### Envirotech Labs

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

.

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	B. J. Services	Project #:	95026-03			
Sample ID:	Stockpile Composite	Date Reported:	01-05-99			
Lab ID#:	E441	Date Sampled:	12-23-98			
Sample Matrix:	Soil	Date Received:	12-24-98			
Preservative:	Cool	Date Analyzed:	01-05-99			
Condition:	Cool and Intact	Chain of Custody:	6487			
Parameter	Result					
IGNITABILITY:	Negative	· ,				
CORROSIVITY:	Negative	pH = 7.05				
REACTIVITY:	Negative					
RCRA Hazardous Waste Criteria			· ·			
Parameter	Hazardous Waste Criterion	:*				
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)					
CORROSIVITY:	Characteristic of Corrosivity	as defined by 40 CFR, Subpart C, Sec. 261.22.				
	(i.e. pH less than or equal to	2.0 or pH greater than or equal to 12.5 )				
REACTIVITY:	-	is defined by 40 CFR, Subpart C, Sec. 261.23.				
·	•	ter, strong base, strong acid, or the generation ases at STP with pH between 2.0 and 12.5)				
Reference:	40 CFR part 261 Subpart C	sections 261.21 - 261.23, July 1, 1992.				

Comments:

Truck Accident 5 miles S. of Sullivan Rd.

feeren Analyst

Stacy W Sendler

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	B. J. Services	Project #:	95026-03
Sample ID:	Stockpile Composite	Date Reported:	01-12-99
Laboratory Number:	E441	Date Sampled:	12-23-98
Chain of Custody:	6487	Date Received:	12-24-98
Sample Matrix:	Soil	Date Analyzed:	01-11-99
Preservative:	Cool	Date Extracted:	01-05-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

·····		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
	e e de la companya de No companya de la comp		
Arsenic	ND	0.0001	5.0
Barium	0.563	0.001	21
Cadmium	0.0085	0.0001	0.11
Chromlum	0.0015	0.0001	0.60
Lead	<b>0.0428</b>	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	0.0522	0.0001	5.7
Silver	ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

Truck Accident 5 miles S. of Sullivan Rd.

en l. Gjenen

Stacy W Sendler

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC **LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report**

Client:	_	QAVQC		Project #:			N/A _		
Sample ID:	-	01-11-TCM QA/QC		Date Repo	rted:	01-12-99			
Laboratory Number:		E446		Date Samp	ol <b>ed</b> :	N/A			
Sample Matrix:		TCLP Extrac	t .	Date Rece	ived:		N/A		
Analysis Requested:		TCLP Metals		Date Analy	/zed:		01-11-99		
Condition:		N/A		Date Extra	cted:		N/A		
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Barium	ND	ND	0.001	2.38	2.38	0.2%	<b>0% - 30%</b> ·		
Cadmium	ND	ND	0.0001	0.0027	0.0026	3.7%	0% - 30%		
Chromium	ND	ND	0.0001	0.1255	0.1251	0.0%	0% - 30%		
Lead	ND	ND	0.0001	0.0815	0.0819	0.5%	0% - 30%		
Mercury	ND	ND ·	0.0001	ND	I ND	0.0%	0% - 30%		
Selenium	ND	ND	0.0001	ND	i ND	0.0%	0% - 30%		
Silver	ND	ND	0.0001	ND	: ND	0.0%	0% - 30%		
			George State			an a	and the second		

Arsenic	0.1000	ND	0.0999	99.9%	80% - 120%
Barium	1.000	2.38	3.37	99.7%	80% - 120%
Cadmium	0.0500	0.0027	0.0526	99.8%	80% - 120%
Chromium	0.0500	0.1255	0.1752	99.8%	80% - 120%
Lead	0.1000	0.0815	0.181	99.9%	80% - 120%
Мегсигу	0.0250	ND	0.0249	99.6%	80% - 120%
Selenium	0.1000	ND	0.0998	99.8%	80% - 120%
Silver	0.0500	ND	0.0498	99.6%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples E441, E446, E458 and E479 - E480.

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Review

tacy W Sendler

### CHAIN OF CUSTODY RECORD

I	Client / Project Name BJ. Services		3J. Sorvices Truck Accident		ANALYSIS / PARAMETERS													
	Sampler:			Client No.			2 2								Remarks	\$ 		
	SAN RAY 3	R		950	26-0	3		No. of Containers	34	RCH								
	Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		Z LO C	でょ	Ř						<u> </u>		
•	Stockpile Composite	12.25.98	17:15	E441		50:1		<u>    l                                </u>	~									
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	Relinquished by: (Signatu		>	······································	Date 12.24.98	Time 9:00	Recei	Ved by:	(Signatu	Ire)	(	7.1	see.	/		Date /2.2.4.9		ime ,'at
	Relinquished by: (Signatu						Recei	ved by:	(Signatu	lle)			~~~	<b>.</b>				,
	Relinquished by: (Signatu	ire)					Recei	ved by:	(Signatu	Jre)							i	
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					л., · е	÷	• •, * * •	e.	6.4							Y	N	N/A
6						5796 U.S ington, 1				1				Rec	ceived Inta	ct v	$\bot$	<u> </u>
•							632-							Cool	- Ice/Blue	Ice L	$\top$	

Inici 1 - (505) 393-6161 New Mexico	Form C-138
Box 1980 bbs, NM\$38241-1980 Energy N rals and Natural Resource triat II - (505) 748-1283 Oil Conservation Divisio	es De Chamene 1/ Coriginated 8/8/95
S. FirstOil Conservation Divisio91a, NM 882102040 South Pacheco Street	
rder III - (505) 334-6178 Santa Fe, New Mexico 87505	Plus l Čopy
Rio Brazos Road (505) 827-7131	Environmental Bureau District Office
rict IV - (505) 827-7131	Env. Oily Manser Agene Division
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
	4. Generator Hall, burton E.S.
Verbal Approval Received: Yes X 1/22/99 No	5. Originating Site Main Yand
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENUIRO TELH
2 Address of Esciliar Operator 5796 US Highway 64	8. State Nand Alupico
<ul> <li>7. Location of Material (Street Address or ULSTR)</li> </ul>	410g E. Main St.
9. <u>Circle One</u> :	Francing ton, DEW Makico.
A. All requests for approval to accept oilfield exempt wastes will be acc	ompanied by a certification of waste from the
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be acc	ompanied by necessary chemical analysis to
PROVE the material is not-hazardous and the Generator's certification	
listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigne	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Wash bay solids New TCLP + Haded.	
	peceivem
	IN FEB 1 8 1999
	OIL CON. DIN
	DIST. 3
Estimated Volume 80 cy Known Volume (to be entered by the op	perstor at the end of the haul) $\frac{92}{}$
SIGNATURE: Handa Tu Brown TITLE: Landfarm	Manager DATE: 2-8.99
Waste Management FacilityAuthorized Agent	LEPHONE NO
[Continuation]	
(This space for State Use)	
APPROVED BY: Jenn B. Jan TITLE: Geold	DATE: 2/12/99
APPROVED BY: Mutum Q Kily TITLE: Eno Ge	0/09/15+ DATE: 2/17/99
L /	

District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Nrals and Natural Resource         Hobbs, NM 88241-1980       District II - (505) 748-1283         Bit S. First       Oil Conservation Divisio         Artesia, NM 88210       2040 South Pacheco Street         Santa Fe, New Mexico 87505       Santa Fe, New Mexico 87505         Rio Brazos Road       (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: <i>upre Completer on the TCLP</i> Verbal Approval Received: Yes <i>transition of TCLP</i>	4. Generator Hall button E.S.
Verbal Approval Received: Yes V. 22.99 No U Envirotech Soil Remedia.	5. Originating Site Hain Yand
2. Management Facility Destination Facility Landfarm #2	6. Transporter ENDIRO TELH
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Mapico
7. Location of Material (Street Address or ULSTR)	410g E. Main St. Fremington, DEW Mukico.
9. <u>Circle One</u> :	
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Wash bary solids</li> <li>New TCLP &amp; Hazard.</li> </ul>	on of origin. No waste classified hazardous by
Continuation Wew TCLP Estimated Volume — 80 cy Known Volume (to be entered by the op	
SIGNATURE: Handfarm Waste Management FacilityAuthonized Agent TYPE OR PRINT NAME: Harlan M. Brown TE	Manager DATE: <u>2~8・?9</u> LEPHONE NO. 505-632-0615
(This space for State Use) APPROVED BY: Deny 2. Found TITLE: Geold	0915T DATE: 2/11/99
APPROVED BY: TITLE:	DATE:

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: HALLIBURTON ENErgy Services	2. Destination Name:
4109 E. MainSt. FARMington N.M \$7401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): 5.4.A.	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate 4. Source and Description of Waste WASH $BAT Spilos$	
Ed SHAMON	representative for:

	(Print Name)					
HALLIBUN TON	ENERGY	Sorvices	do	hereby	certify	that,
according to the Resource	Conservation and	Recovery Act (RCRA) and Environmenta	l Pro	tection /	Agency's	July,
1988, regulatory determina	tion, the above de	escribed waste is: (Check appropriate classific	ation	)		

\_\_\_ EXEMPT oilfield waste \_\_\_ No

**NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

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and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

MSDS Information KRCRA Hazardous Waste Analysis

🗴 Chain of Custody

- \_\_\_\_ Other (description):
- Name (Original Signature): <u>EO Shannum</u> Title: <u>"Di A TATER SUPER</u> Date: <u>2 - 8-99</u>

# Enviro ECHLABS

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	<sup>~</sup> 92132
Sample ID:	Wash Bay Solids	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-19-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

	· · · · · · · · · · · · · · · · · · ·	Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	98%
		Bromofluorobenzene	99%
References:		Characteristic Leaching Procedure, SW	-846, USEPA, July 1992.
	Method 5030, Purge-an	id-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA	, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	Sept. 1994.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sectio	n 261.24, July 1, 1992.
Comments:	East Main, Farming	gton.	

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Stacy W Sendler Review

January 28, 1999

Mr. Ed Shannon Halliburton Energy Services, Inc. 4109 East Main Street Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Shannon,

Enclosed are the analytical results for the sample collected from the location designated as "East Main, Farmington-Wash Bay Solids". One soil sample was collected by Envirotech personnel on 01/13/99, and delivered to the Envirotech laboratory on 01/13/99 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 6498 and assigned Laboratory No. E499 for tracking purposes. The sample was extracted on 01/18/99 and analyzed 01/18/99 through 01/27/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.** 

y W Sendler

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tclp0199.lb1

No. of Concession, Name

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORRO

### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-15-99
_ab ID#:	E499	Date Sampled:	01-13-99
Sample Matrix:	Soil	Date Received:	01-13-99
Preservative:	Cool	Date Analyzed:	01-15-99
Condition:	Cool and Intact	Chain of Custody:	6498
•	• 	`	
Parameter	Result		·····
	•		. <u>.</u>
GNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 7.98	
REACTIVITY:	Negative	·	
RCRA Hazardous Waste Criteria			
Parameter	Hazardous Waste Criterio	n	
IGNITABILITY:		y as defined by 40 CFR, Subpart C, Sec. 261.21. direct contact with flame or flash point < 60° C.)	
CORROSIVITY:		y as defined by 40 CFR, Subpart C, Sec. 261.22 to 2.0 or pH greater than or equal to 12.5 )	
REACTIVITY:	(i.e. Violent reaction with w	v as defined by 40 CFR, Subpart C, Sec. 261.23. vater, strong base, strong acid, or the generation gases at STP with pH between 2.0 and 12.5)	
Reference:	40 CFR part 261 Subpart (	C sections 261.21 - 261.23, July 1, 1992.	

Comments:

East Main, Farmington.

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tacy W Sendler Review

#### PRACTICAL SOLUTIONS FOR <u>OMORROW</u>

### EPA METHOD 8040 PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.123	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	0.060	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.556	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid **References:** Waste, SW-846, USEPA, July 1992.

> Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

East Main, Farmington.

1 sec Analyst

Stacy W Sendler

Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

		Det.	Regulatory
Condition:	Cool and Intact	Analysis Requested:	TCLP
Preservative:	Cool	Date Analyzed:	01-21-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Chain of Custody:	6498	Date Received:	01-13-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Sample ID:	Wash Bay Solids	Date Reported:	01-22-99
Client:	Halliburton	Project #:	92132

Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
0.054	0.020	5.0
0.353	0.020	3.0
0.202	0.020	2.0
ND	0.020	0.5
ND	0.020	0.13
ND	0.020	0.13
	(mg/L) 0.054 0.353 0.202 ND ND	Concentration (mg/L)         Limit (mg/L)           0.054         0.020           0.353         0.020           0.202         0.020           ND         0.020           ND         0.020           ND         0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
		0.0%
	2-fluorobiphenyl	98%

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

East Main, Farmington.

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Stacy W Sendler Review

# Envirotech Labs

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-23-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Analyzed:	01-23-99
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
Parameter	Concentration (mg/L)	Limit (mg/L)	Level (mg/L)
Arsenic	ND	0.0001	5.0
Barium	1.53	0.001	21
Cadmium	0.0329	0.0001	0.11
Chromium	0.0301	0.0001	0.60
Lead	0.0309	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.0001	5.7
Silver	ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

East Main, Farmington.

Len Analyst

tacy W Sendler Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

### **QUALITY ASSURANCE / QUALITY CONTROL**

### DOCUMENTATION

5796 U.S. Highway 64 • Farmington, NM 87401 • TeL 505 • 632 • 0615 • Fax 505 • 632 • 1865

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-19-99
Laboratory Number:	01-19-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Analysis Requested:	TCLP

		Detection	Regulatory
•	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyi Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND .	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	100%
		Bromofluorobenzene	100%
References:		haracteristic Leaching Procedure, SW d-Trap, SW-846, USEPA, July 1992.	/-846, USEPA, July 1992.
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA	A, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics; SW-846, USEPA, S	Sept. 1994.
Note:	Regulatory Limits based	I on 40 CFR part 261 Subpart C sectio	on 261.24, July 1, 1992.

Comments:

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Stacy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-19-99
Laboratory Number:	01-18-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	01-18-99
		Analysis Requested:	TCLP

	· · · · · · · · · · · · · · · · · · ·	Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1.4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	99%
		Bromofluorobenzene	98%
References:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SW-	-846, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA,	, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.
Note:	Regulatory Limits based	I on 40 CFR part 261 Subpart C sectior	n 261.24, July 1, 1992.

Comments:

Luce Analyst

tacy W Sendler Review

## ENVIROT

PRACTICAL SOLUTIONS FOR A BET TOMORROW TFR

### EPA METHODS 8010/8020 **AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT**

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplicat	le	Date Reported:	01-19-99
Laboratory Number:	E499		Date Sampled:	N/A
Sample Matrix:	TCLP Extract		Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	<sup>‴</sup> 01-1 <del>9</del> -99
Condition:	N/A		Date Extracted:	N/A
<u></u>		Duplicate	·	
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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PRACTICAL SOLUTIONS FOR A TOMORROW

#### EPA METHODS 8010/8020 **AROMATIC / HALOGENATED VOLATILE ORGANICS** QUALITY ASSURANCE REPORT

Client:	QA/QC		<del></del> .	Project #:	,	N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	01-19-99
Laboratory Number:	E499			Date Sample	d <u>:</u>	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	01-19-99
Condition:	N/A			Date Extracte	ed:	N/A
·.	······································		Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	· 99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

QA/QC for samples E499 and E503.

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## Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 8040 PHENOLS Quality Assurance Report

Laboratory Blank

QA/QC	Project #:	N/A
Laboratory Blank	Date Reported:	01-21-99
01-21-TCA-Blank	Date Sampled:	N/A
2-Propanol	Date Received:	N/A
N/A	Date Analyzed:	01-21-99
N/A	Analysis Requested:	TCLP
	Laboratory Blank 01-21-TCA-Blank 2-Propanol N/A	QA/QCProject #:Laboratory BlankDate Reported:01-21-TCA-BlankDate Sampled:2-PropanolDate Received:N/ADate Analyzed:

Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND .	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-fluorophenol	98 %	
	2.4.6-tribromophenol	99 %	

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 8040 PHENOLS

**Quality Assurance Report** 

Client:	QA/QC	Project #:	Ň/A
Sample ID:	Method Blank	Date Reported:	01-21-99
Laboratory Number:	01-18-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

QA/QC for samples E499 and E503.

Comments:

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tacy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 8040 PHENOLS

**Quality Assurance Report** 

			-
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	• <b>N/A</b>
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	0.123	0.122	0.020	1.0%
p,m-Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	0.060	0.059	0.020	1.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	0.556	0.551	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	otance Criteria:	Parameter	Maximum Difference	
		8040 Compounds	30.0%	
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Waste, SW-846, USEPA, July 1992.				
	Method 3510, Separator Waste, SW-846, USEP/	y Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid	
	Method 8040, Phenois,	Test Methods for Evaluating Solid Wast	te, SW-846, USEPA, Sept. 1986.	
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C section	261.24, July 1, 1992.	
Comments:	QA/QC for samples	E499 and E503.		
$\cap$	$\rho \cap $		$ t_{1} $	
Ale	- F. Carece		tacy W Sendler	
Analyst	l	Review	See.	

# PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

			_
Client:	QAVQC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-22-99
Laboratory Number:	01-21-TBN - Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics - QUALITY ASSURANCE REPORT-

Client:	··· QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-22-99
Laboratory Number:	01-18-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool and Intact	Date Analyzed:	01-21-9 <del>9</del>
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accept	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	95%
leferences:	Method 1311, Toxicity	d 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.	
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction,	SW-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	, USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C se	ction 261.24, July 1, 1992.

Comments:

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### Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-22-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-18-99
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

	Sample Duplicate Result Result			Det. Límit
			Percent	
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
	,			
Pyridine	0.054	0.053	1.0%	0.020
Hexachloroethane	0.353	0.349	1.0%	0.020
Nitrobenzene	0.202	0.200	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference
		8090 Compounds	30%
References: Method 1311, Toxicity		Characteristic Leaching Procedure, S	W-846, USEPA, July 1992.
Method 3	Method 3510, Separate	bry Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.
	Method 8090, Nitroaron	matics and Cyclic Ketones, SW-846, I	USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sect	ion 261.24, July 1, 1992.

Comments:

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	ent: QA/QC		Project #:			N/A	
Sample ID:		01-23-TCM QA/QC		Date Repo	orted:		01-23-99
Laboratory Number:	boratory Number: E449		Date Sam	pled:		N/A	
Sample Matrix:			Date Rece	ived:		N/A	
Analysis Requested: TCLP Metals		Date Analy	/zed:		01-23-99		
Condition:		N/A		Date Extracted:		N/A	
- Glank & Duplicates	instrumen	Month	Descritors	Semple	Duplicate	Carles destination and	Acceptance
Conc. (mg/t.) Arsenic	NIRNK- ND	Blank ND	Limit 0.0001	ND	ND	0/// 0.0%	Rongo 0% - 30%
Barium	ND	ND	0.001	1.53	1.53	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.0329	0.0324	1.5%	0% - 30%
Chromium	ND	ND	0.0001	0.0301	0.0300	0.3%	0% - 30%
Lead	ND	ND	0.0001	0.0309	0.0307	0.6%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

		•			•
Arsenic	0.1000	ND	0.0997	99.7%	80% - 120%
Barium	1.000	1.53	2.53	100.0%	80% - 120%
Cadmium	0.0500	0.0329	0.0826	99.6%	80% - 120%
Chromium	0.0500	0.0301	0.0802	100.1%	80% - 120%
Lead	0.1000	0.0309	0.131	99.8%	80% - 120%
Mercury	0.0250	ND	0.0248	<b>99.2%</b>	80% - 120%
Selenium	0.1000	ND	0.0998	99.8%	80% - 120%
Silver	0.0500	ND	0.0499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

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### CHANOFCLS OYRECOR)

Client / Project Name Project Location EAST Main HALLBURTON FARMINGTON			ANALYSIS / PARAMETERS														
Sampler:		<u></u>	Client No.					A. W						Re	marks	······································	
mani D.	you	~ <b>~</b>	921	132			No. of Containers	L L L									!
Sample No./ Identification	Sample Date	(Sample Time	Lab Number		Sample Matrix		Cont X	200									
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Relinquished by: (Signatur	r <b>e)</b>					Recei	ived by: (	(Signatu	re)								
				ENV		TF(	с.ц		<u> </u>	<u></u>				Sample R	eceipt	<u> </u>	
		••										F	<u> </u>		Y	N	N/A
				5 Farmi	5796 U.S ington, N	5. Higt	hway 6 Aexico	64 8740 <sup>-</sup>	1				Received	l Intact			
						632-0		0740	•	•			Cool - Ice/	Blue Ice			

N

O. Box 1980 obbs. NM & 28241-1980 istrict II - (505) 748-1283 II S., First reesia, NM 88210 'trict III - (505) 334-6178 `Rio Brazos Road c, NM 87410 istrict IV - (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:     Non-Exempt:     Downy fourt       2:3:99       3:30	4. Generator EPFS
Verbal Approval Received: Yes 🔀 No 🗋	5. Originating Site LATZC-68
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter EPFS
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Wand & expico
7. Location of Material (Street Address or ULSTR)	See 5, TZQN, ROQW
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accept accept on certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consignet BRIEF DESCRIPTION OF MATERIAL:</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
2.4.99 (1465 LFZUNITS T-12 30cy	FEB - 5 1999 OIIL GOINL DIIVZ DIISTLE 3
SIGNATURE: Horlan M. Brown TITLE: Landfarm	Derator at the end of the haul) <u>30 cy</u> Manager DATE: <u>こ</u>
(This space for State Use) APPROVED BY: Deny Frent TITLE: G-COLO APPROVED BY: Since Burger TITLE:	09 15 DATE: 2/8/99 DATE: 2-

•

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:				
El Paso Field Services Co.	Envirotech Soil Remediation Facility				
614 Reilly Avenue	Landfarm #2				
Farmington, NM 87401	Hilltop, New Mexico				
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):				
Lateral 2C-68 Drip Tank	Section 5, T24N, R04W				
Attach list of originating sites as appropriate 4. Source and Description of Waste					
4. Source and Description of Waste					
Hydrocarbon contaminated soils from tank overfl	ow				
I, David Bays (Print Name)	representative for:				
	S CO. do hereby certify that, covery Act (RCRA) and Environmental Protection Agency's July, and waste is: (Check appropriate classification)				
· · · · · · · · · · · · · · · · · · ·	<b>DN-EXEMPT</b> oilfield waste which is non-hazardous by naracteristic analysis or by product identification				
and that nothing has been added to the exempt or non-hazardous waste defined above.					
For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):					
MSDS Information     Other (description)     RCRA Hazardous Waste Analysis     Chain of Custody					
Name (Original Signature):	l Bayr				
Title: Principal	Environmental Scientist				
Date: February	1, 1999				

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P'-trict III - (505) 334-6178 New Mexico 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 REQUEST FOR APPROVAL TO ACCEPT S	Submit Original Plus 1 Copy to appropriate District Office Env JN:
1. RCRA Exempt:       Non-Exempt:       Power Forst Z.4.99         Verbal Approval Received:       Yes       No         2. Management Facility Destination       Envirotech Soil RemediationFac Landfarm #2         3. Address of Facility Operator       5796 U.S. Highway 64 Farmington, NM 87401         7. Location of Material (Street Address or ULSTR)	4. Generator EPFS 5. Originating Site Kutz Sapara Jean 6. Transporter Envirotech 8. State Dun Munaico S/2. Sac II TZAN RIW
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be accordent of Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordent proved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Clean up coal fairs &amp; aily studya from the construction of the coal fairs of the coal fair</li></ul>	mpanied by a certification of waste from the mpanied by necessary chemical analysis to of origin. No waste classified hazardous by for transport.
Touck upsat Never Hauter Estimated Volume - 40 cy Known Volume (to be entered by the oper	RECEIVED FEB - 5 1999 OIL CON: DIV. DIST: 3 rator at the end of the haul)
SIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm M. TYPE OR PRINT NAME: Harlan M. Brown TELE (This space for State Use) APPROVED BY: <u>Hermitian M. Brown</u> APPROVED BY: <u>Hermitian</u> APPROVED BY: <u>Herm</u>	EPHONE NO. (505)632-0615

### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:				
El Paso Field Services Co.	Envirotech Soil Remediation Facility				
614 Reilly Avenue	Landfarm #2				
Farmington, NM 87401	, Hilltop, New Mexico				
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):				
Kutz Separator	S/2, Sec. 11, T29N, R11W				
Attach list of originating sites as appropriate					
4. Source and Description of Waste					
Coal fines and oily sludge from natural gas produce	ed from coal seam formations				
I, David Bays	representative for:				
(Print Name)					
El Daso Field Sonvisos	Co de barebu costifuithet				
El Paso Field Services	<u>CO.</u> do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,				
1988 regulatory determination, the above describe					
X EXEMPT Oilfield waste NON	J-EXEMPT oilfield waste which is non-hazardous by				
	racteristic analysis or by product identification				
and that nothing has been added to the exempt or non-hazardous waste defined above.					
-					
For NON-EXEMPT waste only, the following docur	nentation is attached (check appropriate items):				
MSDS Information	Other (description)				
RCRA Hazardous Waste Analysis					
Chain of Custody					
	10				
Name (Original Signature):	il Bar				
Title: Principal E	nvironmental Scientist				
Date: January 26	6, 1999				

District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, WM 88241-1980       District II - (505) 748-1283         B11 S. First       Energy Minerals and Natural Resource         Artesia, NM 88210       2040 South Pacheco Street         District III - (505) 334-6178       2040 South Pacheco Street         Nio Brazos Road       Santa Fe, New Mexico 87505         Conservation       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator EPFS
Verbal Approval Received: Yes 🔀 No 🔲 10:25	5. Originating Site Hasth Ges Con Odel
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Encounter
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Now Marpice
7. Location of Material (Street Address or ULSTR)	564 Sac 8 TZ9NREW
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accondenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accomproved to accept non-exempt wastes must be accomproved to accept non-exempt wastes must be accomproved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> </ul>	mpanied by necessary chemical analysis to of origin. No waste classified hazardous by
Chean up soil contantiale us/ pro	a dread Hydrocarliand
	DECEIVED FEB - 5 1999 OIL CONL DIV. DIST. 3
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) $-348$ cy
SIGNATURE: Horland Blow TITLE: Landfarm Ma Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELE	апаger DATE: <u>2·4·9<b>89</b></u> EPHONE NO
(This space for State Use) APPROVED BY: Demy Br Tent TITLE: Geolo APPROVED BY: June Such TITLE:	DATE: <u>2/8/99</u> CA DATE: <u>3</u>



1. Generator Name and Address:	2. Destination Name:				
El Paso Field Services Co.	Envirotech Soil Remediation Facility				
614 Reilly Avenue	Landfarm #2				
Farmington, NM 87401	Hilltop, New Mexico				
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):				
Heath Gas Common O #1	SW/4, Sec. 8, T29N, R9W				
Attach list of originating sites as appropriate					
4. Source and Description of Waste					
Soil contaminated with produced hydrocarbons					
ı, David Bays	representative for:				
(Print Name)					
El Paso Field Services	Co do hereby certify that,				
	very Act (RCRA) and Environmental Protection Agency's July,				
1988 regulatory determination, the above described	d waSte is: (Check appropriate classification)				
_ X _ EXEMPT Oilfield waste NON	I-EXEMPT oilfield waste which is non-hazardous by				
	racteristic analysis or by product identification				
and that nothing has been added to the exempt or non-hazardous waste defined above.					
For NON-EXEMPT waste only, the following docum	nentation is attached (check appropriate items):				
MSDS Information Other (description)					
RCRA Hazardous Waste Analysis Chain of Custody					
Onain of Cuotody					
Name (Original Signature):	OBA				
Name (Original Signature):	x 15 mpc				
Title: Principal E	nvironmental Scientist				
Date: January 26	5. 1999				
	<u>,</u>				

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P<sup>1-</sup>trict III - (505) 334-6178 <sup>1</sup> Rio Brazos Road A...cc, NM 87410 District IV - (505) 827-7131

APPROVED BY:

### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Submit Original Plus 1 Copy to appropriate District Office

Env. JN:

HEQUEST FOR APPHOVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:     Non-Exempt:     Darmy Foust       2. 4. 29	4. Generator EPFS.
Verbal Approval Received: Yes 🔀 No 🔲 🖉	5. Originating Site Laces Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Easy wateret.
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State a and a proves
7. Location of Material (Street Address or ULSTR)	NZSWY, SociS, TZGN, R7W
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept oilfield exempt wastes will be acc Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acc PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Class up of soil containated w/ Trix	DECEIVED FEB - 5 1999 OIL CON. DIV. DIST. 3
Estimated Volume cy Known Volume (to be entered by the option of	perator at the end of the haul) cy
SIGNATURE: Harlan M. Brown TITLE: Landfarm	Manager         DATE: 1. 4-99           SUBPHONE NO.         505-632-0615
(This space for State Use) APPROVED BY: Demy Br Kent TITLE: GEO	loyist DATE: 2/8/99

TITLE:

12

DATE:

### **CERTIFICATE OF WASTE STATUS**

÷ ئ

5.

	······································
1. Generator Name and Address:	2. Destination Name:
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
,	
Largo Plant	N/2 of SW/4, Sec. 15, T26N, R7W
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Soil contaminated with triethylene glycol	
,	
I, David Bays	representative for:
(Print Name)	
El Paso Field Services	CO. do hereby certify that,
	overy Act (RCRA) and Environmental Protection Agency's July,
1988 regulatory determination, the above describe	
X EXEMPT Oilfield waste NO	N-EXEMPT oilfield waste which is non-hazardous by
	aracteristic analysis or by product identification
and that nothing has been added to the exempt or	r non-hazardous waste defined above
For NON EVENDT worth only the following door	montation is attached (aback appropriate items):
For NON-EXEMPT waste only, the following docu	mentation is attached (check appropriate items):
MSDS Information	Other (description)
RCRA Hazardous Waste Ar	nalysis
Chain of Custody	
$\cap$	
Name (Original Signature):	id Bann
Title: Principal I	Environmental Scientist
Date: January 2	6, 1999

. Box 1980	Form C-138
bbs. NM 882/31-1980 Energy N rals and Natural Resource	es Dertment Originated 8/8/9
S. First Oil Conservation Divisio	on <b>T</b>
sia, NM 88210 2040 South Pacheco Street	Submit Origina
rict III - (505) 334-6178 Santa Fe, New Mexico 87505 Rio Brazos Road (505) 027 7121	Plus I Cop to appropriat
c, NM 87410 (505) 827-7131	District Offic
urict IV - (505) 827-7131	Env. JN:
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator EPFS
Verbal Approval Received: Yes 🔀 No 🛄	5. Originating Site Kutz Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduico Tech
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Now Hoxico
7. Location of Material (Street Address or ULSTR)	EZ SWY Seals TZAN, RIZW
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acc Generator; one certificate per job.</li> </ul>	ompanied by a certification of waste from the
B. All requests for approval to accept non-exempt wastes must be acc	ompanied by necessary chemical analysis to
PROVE the material is not-hazardous and the Generator's certification	
listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned	d for transport
All transporters must certify the wastes delivered are only those consigne	d for transport.
	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	
BRIEF DESCRIPTION OF MATERIAL:	
BRIEF DESCRIPTION OF MATERIAL: clean up of poloslam hydroconlos soi	
BRIEF DESCRIPTION OF MATERIAL: clean up of poloslam hydrocarbon soi	
BRIEF DESCRIPTION OF MATERIAL:	
BRIEF DESCRIPTION OF MATERIAL: clean up of poloslam hydroconlos soi	
BRIEF DESCRIPTION OF MATERIAL: clean up of poloslam hydroconlos soi	1 - Trove Born crade product DECEIVED IN FEB - 5 1998
BRIEF DESCRIPTION OF MATERIAL: clean up of poloslam hydroconlos soi	1 - Trove Born crade product DECEIVED IN FEB - 5 1998
BRIEF DESCRIPTION OF MATERIAL: clean up of poloslam hydroconlos soi	DECEIVED FEB - 5 1998 OIL CONS DIVO
BRIEF DESCRIPTION OF MATERIAL: clean up of poloslam hydrocarbon soi	1 - Trave Barn crade product DECEIVED FEB - 5 1998
BRIEF DESCRIPTION OF MATERIAL: clean up of poloolaan hydrocanbon soi Dug into old pit,	1 - Trovie Born crade product DECEIVED FEB - 5 1999 ONIL CONS DIVE DISTE 3 1358
BRIEF DESCRIPTION OF MATERIAL: clean up of polooloom hydroconlon soi Dus into old pit,	1 - Trovie Born crade product DECEIVED FEB - 5 1998 ONIL CONS DIVG DISTE 3 1358
BRIEF DESCRIPTION OF MATERIAL: clean up of poloolann hydrocarbon soi Dus into old pit, Estimated Volume <u>20</u> cy Known Volume (to be entered by the op	1 - Trouve Barm crade product DECEIVED FEB - 5 1999 OIL CONS DIV DISTS 3 1358 perator at the end of the haul) - cy
BRIEF DESCRIPTION OF MATERIAL: clean up of potrolann hydrocarbon soi Dissinto old pit, Estimated Volume <u>20</u> cy Known Volume (to be entered by the op	1 - Trovie Born crade product DECEIVED FEB - 5 1999 OIL CONS DIVC DESTS 3 1358 perator at the end of the haul) Manager DATE: 2499
BRIEF DESCRIPTION OF MATERIAL: clean up of poloolaan hydrocanlan soi Dig into old pit, Estimated Volume <u>20</u> cy Known Volume (to be entered by the op SIGNATURE: <u>Harlan M Brown</u> Waste Management Facility Authorized Agent Harlan M Brown	1 - Trovie Born crode product DECEIVED FEB - 5 1999 ONE CONS DIVE DISTIS 3 1358 perator at the end of the haul) Manager DATE: 2.4.99 505-6.12-0615
Estimated Volume <u>20</u> cy Known Volume (to be entered by the op SIGNATURE: <u>Handanagement Facility Authorized Agent</u> Hardan M Brown	1 - Trovie Born crade product DECEIVED FEB - 5 1999 OIL CONS DIVC DESTS 3 1358 perator at the end of the haul) Manager DATE: 2499
Estimated Volume <u>20</u> cy Known Volume (to be entered by the op SIGNATURE: <u>Handanagement Facility Authorized Agent</u> Hardan M Brown	1 - Trovie Born crode product DECEIVED FEB - 5 1999 ONE CONS DIVE DISTIS 3 1358 perator at the end of the haul) Manager DATE: 2.4.99 505-6.12-0615
BRIEF DESCRIPTION OF MATERIAL: clean up of poloolann hydrocarlan soi Dus into old pit, Estimated Volume <u>20</u> cy Known Volume (to be entered by the op SIGNATURE: <u>100 Stu Brown</u> TITLE: Landfarm 1 Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TEL	$\begin{array}{c} 1 - Travie Born crade product \\ \hline DECEIVED \\ \hline FEB - 5 1999 \\ \hline OIL CONS DIVE \\ \hline DISTIS 3 \\ \hline 1358 \\ \hline $
BRIEF DESCRIPTION OF MATERIAL: clean up of poloolann hydrocanlan Soi Dus into old pit, Estimated Volume <u>20</u> cy Known Volume (to be entered by the op SIGNATURE: <u>100</u> <u>Viscon</u> <u>TITLE: Landfarm 1</u> Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> <u>TEL</u> (This space for State Use)	$\begin{array}{c} 1 - Travie Born crade product \\ \hline DECEIVED \\ \hline FEB - 5 1999 \\ \hline OIL CONS DIVE \\ \hline DISTIS 3 \\ \hline 1358 \\ \hline $
BRIEF DESCRIPTION OF MATERIAL: clean up of poloolann hydrocadan soi Dus into old pit, Estimated Volume <u>20</u> cy Known Volume (to be entered by the op SIGNATURE: <u>100 Support</u> TITLE: Landfarm 1 Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TEL	$\begin{bmatrix} 1 - T_{row} & B_{row} & C_{row} & Pro Sund DECEIVED FEB - 5 1999 ONE CONS DIVE DISTIS 3 1358 perator at the end of the haul) \begin{bmatrix} 1358\\$
BRIEF DESCRIPTION OF MATERIAL: clean up of polyolann hydrocarlan Soi Dus into old pit, Estimated Volume <u>20</u> cy Known Volume (to be entered by the op SIGNATURE: <u>100</u> <u>Viscon</u> <u>TITLE: Landfarm 1</u> Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> <u>TEL</u> (This space for State Use)	1 - Trove Born crade product DECEIVED FEB - 5 1999 OIL COINS DIVE DISTS 3 1358 perator at the end of the haul) Manager DATE: 2.4.99 LEPHONE NO. 505-632-0615
BRIEF DESCRIPTION OF MATERIAL: clean up of polyolann hydrocarlan Soi Dus into old pit, Estimated Volume <u>20</u> cy Known Volume (to be entered by the op SIGNATURE: <u>100</u> <u>Viscon</u> <u>TITLE: Landfarm 1</u> Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> <u>TEL</u> (This space for State Use)	1 - Trove Born crade product DECENTED FEB - 5 1999 OIL COINS DIVE DISTIS 3 1358 perator at the end of the haul) Manager DATE: 2.4.99 LEPHONE NO. 505-632-0615

1

1. Generator Name and Address:	2. Destination Name:	
El Paso Field Services Co.	Envirotech Soil Remediation Facility	
614 Reilly Avenue	Landfarm #2	
Farmington, NM 87401	Hilltop, New Mexico	
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):	
Kutz Plant	E/2 of SW/e Sec. 15, T29N, R12W	
Attach list of originating sites as appropriate		
4. Source and Description of Waste		
Soil contaminated with produced hydrocarbons		
ı, <u>David Bays</u>	representative for:	
(Print Name)		
El Paso Field Services	Co do hereby certify that,	
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988 regulatory determination, the above described waste is: (Check appropriate classification)		
X EXEMPT Oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification		
and that nothing has been added to the exempt or non-hazardous waste defined above.		
For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):		
MSDS Information Other (description) RCRA Hazardous Waste Analysis Chain of Custody		
Name (Original Signature):	l Bay	
Title: Principal E	nvironmental Scientist	
Date: January 26	, 1999	

istrict I - (505) 393-6161	·	New Mexico		Form C-138
O. Box 1980 obbs, NM 88241-1980	Energy Marals a	nd Natural Resource	es Ertment	Originated 8/8/95
strict II - (505) 748-1283		onservation Division		-
1 S. First tesia, NM 88210		10 South Pacheco Street		Submit Origina
"trict III - (505) 334-6178		a Fe, New Mexico 87505		Plus 1 Cop
Rio Brazos Road	ORAC	(505) 827-7131		to appropriate
c, NM 87410 Istrict IV - (505) 827-7131			Env. JN:	District Offic
	REQUEST FOR API	PROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: 🔀	Non-Exempt:	Panny Foust 2.4.99 10:28.99	4. Generator EP	FS.
Verbal Approval Rec		No 🗋	5. Originating Site	Ballard Plant
2. Management Facility	/ Destination Envirote Facili	ch Soil Remedia. ty Landfarm #2	6. Transporter 🗲	wirstech
3. Address of Facility C	Dperator 5796 US H Farmingto	ighway 64 n, NM 87401	8. State 2	lepico
7. Location of Material	(Street Address or ULSTR	)	NESE & SENE Soc	26, TZGN REW
9. <u>Circle One</u> :				
A. All requests for	approval to accept oilfield e	exempt wastes will be acco	mnanied by a certification	of waste from the
	certificate per job.		mpaniou by a continuation	I OF WASIE HOM THE
	approval to accept non-exe	empt wastes must be acco	mpanied by necessary ch	emical analysis to
PROVE the mat	erial is not-hazardous and	the Generator's certification	n of origin. No waste class	ified hazardous by
	will be approved.	·		1
All transporters must	certify the wastes delivere	a are only those consigned	i for transport.	
BRIEF DESCRIPTION	OF MATERIAL:			
	•			
Trathalan	a glycal conton	instad Sor (	· · · · · · · · · · · · · · · · · · ·	
			and a second	ten fan i Neen i fra i fra i fra kan de anterskippete
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	· ·		DEVENN	Party of the
			DECEIV	
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			nn 158 - 2 18	99 <del>-</del>
				TANK 7
	4 a			
			Drat 3	-1-11
Estimated Volume		ume (to be entered by the ope	erator at the end of the haul)	24CX
			stator at the one of the heary	
	1001. B.	TITLE: Landfarm M	lanager	D 11 09
	anagement FacilityAuthonized Agent	TITLE: Dandrarm 1	DATE	2.4-99.
TYPE OR PRINT NAME	Harlan M Brown	TCI	EPHONE NO	-0615
	•••		EFITOINE NO	
I (This space for State	Use)			
1	enn 2. Dout	Ceal	a la T	2/0/99
APPROVED BY: 1		TITLE: Geola	<u>og/s/</u> Date	:
	2 1		/	1 /
APPROVED BY:	ano/17	TITLE:	DATE	. Su
	muer viran	·······		•
$\mathcal{O}$				

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1. Generator Name a	nd Address:	2. Destination Name:
El Paso Field	1 Services Co.	Envirotech Soil Remediation Facility
614 Reilly A	venue	Landfarm #2
Farmington,		Hilltop, New Mexico
3. Originating Site (na	ame):	Location of Waste(Street address &/or ULSTR):
Ballard Plant		NE/4 of SE/4 and SE/4 of NE4. Sec. 26, T26N, R9W
Attach list of originating 4. Source and Descri		
4. Source and Desch	plion of vvasle	
Soils contaminated wi	th triethylene glycol	
1	David Bays	representative for:
l,	(Print Name)	representative for:
	(**************************************	
	Paso Field Services	
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,		
1988 regulatory deter	mination, the above described	d waste is: (Check appropriate classification)
<u>X</u> EXEMPT Oilf		N-EXEMPT oilfield waste which is non-hazardous by
characteristic analysis or by product identification		
and that nothing has t	been added to the exempt or	non-hazardous waste defined above.
	<u> </u>	
For NON-EXEMPT wa	aste only, the following docun	nentation is attached (check appropriate items):
	NODO lafa mating	Other (description)
	MSDS Information RCRA Hazardous Waste Anal	Uvsis Other (description)
	Chain of Custody	
	()	
Name (Original Sig	nature): <u>Nam</u>	is Dage
Titler	Data ata a P	in instantal Scientist
Title:		nvironmental Scientist
Date:	January 26	3 1999
		.,

Hatrict I - (505) 393-6161 O. Box 1980 obbs, NM 88241-1980 Hatrict II - (505) 748-1283 11 S. First rtesia, NM 88210 <sup>5</sup> trict III - (505) 334-6178 <sup>3</sup> Rio Brazos Road Lucc, NM 87410 Hatrict IV - (505) 827-7131	Oi	New Mexico Is and Natural Resource il Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	n	nent <u>9605 z</u>	Form C-138 Originated 8/8/95 Submit Original Plus 1 Copy to appropriate District Office
	REQUEST FOR	APPROVAL TO ACCEPT	SOLID WA	STE	
1. RCRA Exempt: 🖂	Non-Exempt: 🛄	Donny Foust. 1.27.99 15:30	4. Gene	rator Phillips	Patrolan
Verbal Approval Receiv		No 🔲	5. Origi	nating Site 53 2	9-5 324
2. Management Facility D	estination Enviro Faci	tech Soil Remedia. lity Landfarm #2	6. Trans	porter Ker	
3. Address of Facility Ope		Highway 64 ton, NM 87401	8. State	Now Marcic	ο,
7. Location of Material (St	treet Address or ULS	STR)			
PROVE the material listing or testing with	proval to accept nor al is not-hazardous a ll be approved. wrtify the wastes deliv MATERIAL:	and the Generator's certification vered are only those consigned at (ity 160 bbl. Transfor solution 15 bbl. Transfor at (ity 15 bbl. Transfor	n of origin. N	o waste classified	
		Volume (to be entered by the op		nd of the haul) —	
SIGNATURE:	gement FacilityAuthorized Ag Harlan M. Brown		Manager -EPHONE NO	DATE: 2	
(This space for State Us APPROVED BY:	so) my Git nice Bus	ent TITLE: Geol	og 15t	DATE: DATE:	18/79 2

1. Generator Name and Address: //	
Sof Harring 200 NM	2. Destination Name:
Phillips Princlean Ola Kole 31	Envirotech Soil Remediation Facility
(325 Havy 64 -13 x Jorg	Landfarm #2
FARRing 700 NM	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
29.5 #32 m	VIA Rig # 18
Attach list of originating sites as appropriate	
4. Source and Description of Waste DR. MMud & cuttrags	Via BARTIR w/ 59. Diesel mix
, MAWING RAWINIAN	representative for:
Phillips (Print Name)	
according to the Resource Conservation and Recover 1988, regulatory determination, the above described v	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	NPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature):	
Title: Sp. S&E Spc/st.	
Date:/-2/7-99	

District J (505) 393-6161       New Mexico         P. O. Box 1980       Energy Nunerals and Natural Resource         Hobbs, NM 88241-1980       Energy Nunerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         Still S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         D'strict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	4	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: Non-Exempt: 2.2.99	4. Generator Phillips Partsolass	
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site #5332-8 Coft 1	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Ciunana O. S.	
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Wasico,	
7. Location of Material (Street Address or ULSTR)	5J. 32-8-CDP #1	
<ul> <li>9. <u>Circle One:</u></li> <li>A. All requests for approval to accept ollfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Closen - f Pigsing waste and for analysis of another of the pigsing of</li></ul>		
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy		
(This space for State Use) APPROVED BY: Deny 2: Pert TITLE: GEO/O APPROVED BY: Zuie Buch TITLE:	DATE: 2/8/99 DATE:	

#### P.03

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Phillips PERdenm - 5525 Huy 64 - Bax 3-04 - Tan AM	
-15-x 5-04	Envirotech Soil Remediation Facility
305-599-3462 - FARMINSTW &M 87401	Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
328 #/ CPD (9-8-88) Spill Date,	Lower Yorrd - Phillips Framing Ford. Frankty
Attech list of originating sites as appropriate	
4. Source and Description of Waste	1 5 4 5
	FROM OVERFLOWED TANK OF
pipelais Cathering system	"pigging waste"
Bos Winfamen	representative for:
(Print Name)	Receile R
[ <i>n.ll-</i> ]	<u>s Usin lan (o</u> do hereby certify that,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ry Act Incrual and Environmental Protection Agency social,
1988, regulatory determination, the above described	THESTERS. TO MORE BUT OF THE COMMENCENCIN
	<b>IPT</b> oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum	nentation is attached (check appropriate items):
MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Other (description):
Name (Original Signature): That A UST Title:SA. SAFETY & ENDAONMENTA	
Title: Sq. SAFETY & ENDigo NMEnta	L Spelst.
Date: 2-/-99	

FEB-01-1999 14:48
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INSPEC	TION FOR N.O	.R.M. CONTAM	INATION
РН	ILLIPS PETRO	OLEUM COMPA	NY
»[	/		1 1 4

1

Location: Thillips JAND	Date:
Survey Instrument Model:M	Last Calibrated: 5-5-98
Item Description:	
Soil FRom	"pigging - wasis" spill site of 9-8-98
Number of Pieces: 4.5 cm	
Location Where Items Originated:_	32-8 #1020
Background Reading:	6 uR/hr
Highest NORM reading:	6 uR/hr
Lowest NORM reading:	0 uR/hr
Any samples taken, if so how many:	/:
	······································
Containson Pieces in	nspected
All Pieces fo	ound to be free of NORM contamination
	ound to have NORM contamination
······································	
Remarks:	
Inspector: RAWS	
What is final disposition:	Ensightsch
Released to: HARLAN BAOWN	Date: 2-2-99

District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       District II - (505) 748-1283         Bill S. First       Coll Conservation Divisio         Artesia, NM 88210       2040 South Pacheco Street         District III - (505) 334-6178       Santa Fe, New Mexico 87505         Rio Brazos Road       (505) 827-7131		
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt:         Image: State Sta	4. Generator Wiestern Gots Resources	
Verbal Approval Received: Yes 2 No	5. Originating Site Son Juan Rivar Plant	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENvirofact	
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico.	
7. Location of Material (Street Address or ULSTR)	99 RL 6500 Kirtland NWL 87417	
9. <u>Circle One</u> :		
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accomproved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Indlet Pit Receiver; Irran Sulfice &amp; clays</li> </ul>	n of origin. No waste classified hazardous by	
Estimated Volume cy Known Volume (to be entered by the operator at the end of the haul) cy SIGNATURE:		
(This space for State Use) APPROVED BY: Dempose Teal TITLE: G-cole APPROVED BY: Cure Buch TITLE:	09 ist Date: 2/8/99 Date:	

1-29-89; 3:04PM;YOUNG ENVIRONMENTAL

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RECEIVED FEB 0 1 1999

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Western Gas Resources	
P.O. Box 70	Envirotech Soil Remediation Facility
Kirtland, NM. 87417	Landfarm #2
Kirilana, 1011. 8/9/1	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
99 Rd. 6500 Kirtland, NM	1. 87417
San Juan River Plant	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Inlet Rig Reciever - Iron	Sulfide & clay solide
$- Q_{1}$	
1. Tim Dates	representative for:
Western Gas Resources Inc.	
Western Gas Resources Inc.	do hereby certify that,
according to the Resource Conservation and Recover	ry Act (RCRA) and Environmental Protection Agency's July.
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
V PWTBART - 10 14	· · · · · · · · · · · · · · · · · · ·
	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or no	
and near nothing res point added to the exempt of ho	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum	untation is attached (shark, and share).
MSDS Information	
RCRA Hazardous Waste Analysis	Other (description):
Chain of Custody	
	ĨĨĊŎĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ
A. P.A.	
Name (Original Signature):	·
TIPC.	
Name (Original Signature): <u>Sin Bates</u> Title: <u>Field Supervisor</u>	
Date: /-29-99	

District I - (505) 393-6161 O Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 HI S. First Artesia, NM 88210 United III - (505) 334-6178 New Mexico Coll Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 District IV - (505) 827-7131	n Submit Original	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: Mon-Exempt:	4. Generator Coyote Gulch Company	
Verbal Approval Received: Yes 🔄 No 🗋	5. Originating Site E.P.F.S.	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PCS	
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Colornoo-Southan Ute	
7. Location of Material (Street Address or ULSTR) $7-32 N^{-1}/V$		
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept olifield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>		
Continuation of charcoal Filtratio	DECEIVED	
	JAN 2 8 1999 U	
	OIL CONL DIV. DIST. 3	
Estimated Volume Cy Known Volume (to be entered by the operator at the end of the haul) cy		
SIGNATURE:       Harlan M. Brown       TITLE: Landfarm Manager       DATE:       1-23.99         Waste Management FacilityAuthorized Agent       TITLE: Landfarm Manager       DATE:       1-23.99         TYPE OR PRINT NAME:       Harlan M. Brown       TELEPHONE NO.       505-632-0615		
(This space for State Use) APPROVED BY: Deny B: Pent TITLE: GEOLO APPROVED BY: Line Ruch TITLE: Geolo	0915T DATE: 1/29/99 Ograde DATE: 1/29/99	

EXHIBIT "B" to Agreement No. <u>A96-45</u>

Work Request No. EH&S-0223

#### WORK REQUEST FORM

TO:	Envirotech	DATE: 26-Jan-99	
	5796 US Highway 64	LOCATION: Coyote Gulch Plant	
	Farmington, NM 87401	CHARGE CODE: EPFS-729615-1700	

You are hereby requested to perform the following specified work in connection with the above referenced Agreement between our respective companies, such work to be governed by all of the applicable terms and provisions of said Agreement. Please refer to the above-noted Agreement in all correspondence and billings concerning this work.

COMPANY PERSONNEL: Please send a copy of this Work Request Form to the Material and Contract Management Group in El Paso, TX.

CONTRACTOR: YOU ARE TO ISSUE INVOICES ON A MONTHLY BASIS AS SPECIFIED IN THE REFERENCED AGREEMENT. ALSO, SEND ONE (1) COPY OF THE INVOICE TO THE REQUESTING LOCATION FOR THEIR RECORDS.

#### FULL DESCRIPTION OF WORK TO BE PERFORMED

(Double-Click to Enter Description) Dispose of soil contaminated with amine and glycol, and activated carbon amine filter media at the Hilltop, NM landfarm. The wastes will be transported to the landfarm by Philip Services Corp. A Certificate of Waste Status for NMOCD approval is attached.

Estimated Costs: \$ 1,600

EL PASO FIELD SERVICES COMPANY

'I Bay Signature: Print Name: David Bays

Address: 614 Reilly Ave.

Farmington, NM 87401

Phone No.: (505) 599-2256

Send Invoices To: El Paso Field Services Company Attention: Accounts Payable 1001 Louisiana , P. O. Box 2511 Houston, TX 77252

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1. Generator Name and Address:	2. Destination Name:		
El Paso Field Services Co.	Envirotesh Sail Demodiction Escilitu		
614 Reilly Avenue	Envirotech Soil Remediation Facility Landfarm #2		
Farmington, NM 87401	Hilltop, New Mexico		
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):		
	· · · · · · · · · · · · · · · · · · ·		
Coyote Gulch Plant	Southern'Ute Reservation – La Plata Co., Colorado		
Attach list of originating sites as appropriate			
4. Source and Description of Waste			
1. Soils contaminated with triethylene glycol and di	ethanolamine		
2. Activated carbon amine filter media			
· · · · · · · · · · · · · · · · · · ·			
ı, <u>David Bays</u>	representative for:		
(Print Name)			
El Paso Field Services	Co. do hereby certify that,		
	very Act (RCRA) and Environmental Protection Agency's July,		
1988 regulatory determination, the above described	waste is: (Check appropriate classification)		
	· · ·		
	-EXEMPT oilfield waste which is non-hazardous by		
Cita	acteristic analysis or by product identification		
and that nothing has been added to the exempt or non-hazardous waste defined above.			
For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):			
MSDS Information Other (description)			
RCRA Hazardous Waste Analysis			
Chain of Custody			
$( \cap$			
Name (Original Signature):	L'Bayre		
The Design of The	-		
Title: Principal Er	nvironmental Scientist		
Date: January 26	1999		
Julo. January 20.	, , , , , , , , , , , , , , , , , , , ,		

FAX:505 326 2388

PAGE 1

JAN-26-1999 15:43

SOUTHRN UTE ENVIRONMENTAL

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## Southern ute Indian Tribe

Tribal Affairs Building

January 26, 1999

Cecil Irby Philip Services 4000 Monroe Road Farmington, NM 87401

VIA FACSIMILE: (505) 326-2388

Re: Tribal notification of Transportation of Oil Field Waste Approximately 20 cubic yards of charcoal media and soil, exempt status El Paso Field Services, Coyote Gulch Plant, Sec. 17, T32N, R11W

Dear Mr. Irby:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transportation of approximately 20 cubic yards of charcoal media and soil from the above referenced site to an approved disposal site in New Mexico. It is our understanding that the exempt waste will be transported to the Envirotech Landfarm located on Highway 44 south of Bloomfield, New Mexico.

Certification may be required by the State of New Mexico Oil Conservation Commission (NMOCD) from your company, the transporter or the generator. Transportation of this waste may be subject to other state and Federal laws.

Sincerely,

Duscamp

Cheryl L. Wiescamp Division Head Environmental Programs

District I' (505) 393-6161 P. O. Box 1980 Hotbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 D' trict III - (505) 334-6178 New Mexico Classical Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 District IV - (505) 827-7131	n Submit Original		
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE		
Downy Forst           1. RCRA Exempt:         Non-Exempt:         Downy Forst           1. RCRA Exempt:         1-21-99           15:20	4. Generator Computers		
Verbal Approval Received: Yes 🔀 No 🗋	5. Originating Site NATCO		
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Enviroteat		
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Now Reporto		
7. Location of Material (Street Address or ULSTR)	2855 Southside Robert Rd Farmination, Dul. 87404		
9. <u>Circle One</u> :			
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> </ul>			
Estimated Volume <u>9 drums</u> cy Known Volume (to be entered by the op SIGNATURE: <u>Handan Waste Management FacilityAuthorized Agent</u> Waste Management FacilityAuthorized Agent	DECEIVED JAN 2 5 1999 OIL CON. DIM. DISTL 9 erator at the end of the haul) <u>11 drums</u> cy		
(This space for State Use) APPROVED BY: Dem Jr. Kent TITLE: Geolog APPROVED BY: Jone Bunch TITLE: Geolog	(		

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1 Concertos Norres and Address	
1. Generator Name and Address:	2. Destination Name:
Natco	Envirotech Soil Remediation Facility
2855 Southside River Road	Landfarm #2
Farmington NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Solids generated during cleaning and ret	Eurbishing of oil and gas production
equipment at Natco's yard.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
See attached sheet.	
See allached sheet.	
· · · · · · · · · · · · · · · · · · ·	
, Richard Lambert	representative for:
(Print Name)	
Natco	do hereby certify that
	ry Act (RCRA) and Environmental Protection Agency's July
1988, regulatory determination, the above described	Waste IS: (Check appropriate classification)
XXX EXEMPT oilfield waste NON-EXEM	APT oilfield waste which is non-hazardous by characteristic
	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docur	
MSDS Information	Other (description):
DCDA Hamadaya Maata Amalya'a	
RCRA Hazardous Waste Analysis	
RCRA Hazardous Waste Analysis Chain of Custody	
	Culor (Coscinption)
Chain of Custody	
Chain of Custody	
Chain of Custody	

Sheet1

COMPANY LOCATION JOB NUMBER Burlington Haygood # 5 F 73010139	
COMPANY LOCATION JOB NUMBER	
COMPANY LOCATION JOB NUMBER	
Burlington HAYgood # 6 E 73010139	
· CANC # 22 73010202	
· CANC # 22 73010202	
J 103 # 8m 730100 88	
32-9#291 73010 839	
Unistan Fed #27 73010840	
HULRFIND # 221 73011098	
329-#297 73011090	
PRICHARD Fed # 2 72011 308	
HARE # 14E 73011610	
1 JU 160	
1 # 150 230/1291	
Jye # 1yc 73011611	
32-9 #64 730/18/1	
Huerfind # 56 730/1971	
28-6 # 210 m 730/18/1	
28-6 # 210 m 730/18/1	
28-6 #166m 73011712	
28-0 - 166-1 13011 812	



To whom it may concern.

The equipment on the following lists have all been N.O.R.M. tested by a NATCO qualified technician. Upon arrival to our yard. Or by a qualified person for the lease operator.

Thank You

Eric L. Moore Q.C. Manager

NATCO, a division of National Tank Company

2855 Southside River Road Farmington, NM 87401 Tel: (505) 326-6537 Fax: (505) 327-1481

1. Generator Name and Address:	2. Destination Name:
Natco	Envirotech Soil Remediation Facility
2855 Southside River Road	Landfarm #2
Farmington NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Solids generated during cleaning and re equipment at Natco's yard.	efurbishing of oil and gas production
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
See attached sheet.	
	-
, Richard Lambert	representative for:
(Print Name)	
Natco	do hereby certify that,
	ery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	J Waste is: (Check appropriate classification)
	MPT oilfield waste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or n	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docu MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	mentation is attached (check appropriate items): Other (description):
Name (Original Signature):	ht
Date: $1/2\sigma/95$	

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Sheet1

	WASTE SOLIDS	 T
		+
COMPANY	LOCATION	JOB NUMBER
Aurus/Eurgen	32-5#4	730/04/6
NURUS/ FALligen	- Sa - S	15010410
	Richardson 2E	120/0623
	ALCHINGSON AL	1500672
	J:c 123-228	730/1054
	30-4# 33	730//087/
	Holly Fed #1	730/1972
	culling #5	130124801
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To whom it may concern.

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Thank You

Eric L. Moore Q.C. Manager

NATCO, a division of National Tank Company

2855 Southside River Road Farmington, NM 87401 Tel: (505) 326-6537 Fax: (505) 327-1481

1. Generator Name and Address:	2. Destination Name:
Natco	
2855 Southside River Road	Envirotech Soil Remediation Facility
Farmington NM 87401	Landfarm #2
3. Originating Site (name):	Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR):
Solids generated during cleaning and re- equipment at Natco's yard.	furbishing of off and gas moduletion
equipment at nacco s varu.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
See attached sheet.	
I, <u>Richard Lambert</u> (Print Name)	representative for:
Natco	do hereby certify that,
	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
XXX EXEMPT oilfield waste NON-EXEM	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and all an analytics have been added as also seen as a second	
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docur	nertesting is standard (shark annostic itams);
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
1	
1.114	
Name (Original Signature):	hit
	hit
Name (Original Signature): <u>Kichad fam</u> Title: <u>Forman</u> DC	hit
	hit

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Sheet1

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	WASTE SOLIDS	
COMPANY		
Red willow	LOCATION	JOB NUMBER
he willow	26-1	73009825
	24-1	73004848
	33-9 425-2	73010871
	33-10-19#1	73012882
	33-10-20#1	73012881
¥		
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To whom it may concern.

The equipment on the following lists have all been N.O.R.M. tested by a NATCO qualified technician. Upon arrival to our yard. Or by a qualified person for the lease operator.

Thank You

Eric L. Moore Q.C. Manager

NATCO, a division of National Tank Company

2855 Southside River Road Farmington, NM 87401

Tel: (505) 326-6537 Fax: (505) 327-1481

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D. Box 1980 bbs, 13M 88241-1980 trict II - (505) 748-1283 "3. First saia, NM 88210 trict III - (505) 334-6178 ∩ Rio Brazos Road cc, NM 87410 trict IV - (505) 827-7131 Energy 1√linerals and Natural Resource Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	Crignated Digitation (Control of Control of
REQUEST FOR APPROVAL TO ACCEPT	
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Manzonares Dist.
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Reboiling
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter w.F.S.
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State with
7. Location of Material (Street Address or ULSTR)	5-26 T 30N RQW.
9. <u>Circle One</u> :	· .
All transporters must certify the wastes delivered are only those consigned	l for transport.
BRIEF DESCRIPTION OF MATERIAL: 51adge generated During clashout	
BRIEF DESCRIPTION OF MATERIAL: 510 dge generates During clashout TCCP ATTACHED MSDE Aveilage aDEGEIVED	of glycol reboiltor. DECENVED
BRIEF DESCRIPTION OF MATERIAL:	of glycol reboiler. DECEIVED JAN 1 2 1999 ODL CON. DOV. DIST. 3
BRIEF DESCRIPTION OF MATERIAL: 5 ladge generated During clannet TCCP ATTACHED MSD= Availabee DECENVED JAN 271999 JAN 271999 JAN 271999 DISTIG 3 DISTIG 3	of glycol reboilar. DECEIVED JAN 12 1999 ODL CON. DOV. DIST. 3 1 druw
BRIEF DESCRIPTION OF MATERIAL: Sludge generated During clanent TCCP ATTACHED MSDS Availabee PECEIVED MSDS Availabee PECEIVED JAN 27199 JAN 2719 JAN 2719 JA	of glycol reboiler. DECEIVED JAN 1 2 1999 ODL GONO DOVO DISTO 3 Horator at the end of the haul)
BRIEF DESCRIPTION OF MATERIAL: 5/2002 generated During clasmont TCLP ATTACHED MSDS Avai(a000 [DE] [CE]] VED MSDS Avai(a000 [DE] [CO]] JAN 27 1999 JAN 27 1997 JAN 27 19	of glycol reboiler. DECEIVED JAN 1 2 1999 ODL CONO DDVO DISTO 3 erator at the end of the haul) $1 dvuw$ DATE: (-12.27) 505-632-0615
BRIEF DESCRIPTION OF MATERIAL: 5 ladge generated During clannet TCCP ATTACHED MSDS Availabee DEGE VEED MSDS Availabee DEGE VEED JAN 271999 JAN 27199 JAN 271999 JAN 271999 JAN 271999 JAN 271999 JAN 27199 JAN 2719 JAN 27199 JAN 2719 JAN 2719	of glycol reboiler. DECENVED JAN 1 2 1999 ODL CONo DDV DDST 3 erator at the end of the haul) lanager DATE: 1 2.2? EPHONE NO

District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         D'strict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	n Submit Original	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Houzanares Dist.	
Verbal Approval Received: Yes 🗋 No 🛃	5. Originating Site Rebeilion	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter w.F.S.	
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State W.M.	
7. Location of Material (Street Address or ULSTR)	See 26 T 30N RQW,	
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept ollfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Sludge generated During claanent of glycol reboiltor.</li> </ul>		
TCLP ATTACHED MSD\$ Available,	DECEIVED JAN 1 2 1999 OIL CON. DIN. DIST. 3	
Estimated Volume 2 661 cy Known Volume (to be entered by the operator at the end of the haul) cy		
SIGNATURE: <u>Waste Management FacilityAuthorized Agent</u> Harlan M. Brown TITLE: Landfarm Manager DATE: (· (2. 29 505-632-0615 TELEPHONE NO.		
(This space for State Use)		
APPROVED BY: Demp 2. Found TITLE: Geolog	<u>9157</u> DATE: 1/12/99	

TITLE:

APPROVED BY:\_

DATE:\_

1. Generator Name and Address:	2. Destination Name:
Williams FIELD SERVICES	ENVIROTECH; LANDELAN #2
295 CHIPETA WAY	5796 U.S. Hewr by
SALT LAKE CITY, WTAH 84108	Farmington, Duc. 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
HOPSE Canyon Reclaimer	
SEC 26 TBON R9W	. <u></u>
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
	<b></b>
REBOILER SLUDGE	
· · ·	
·	
RIL REELMON	ronronontativo for
1, Bill BEEUGES (Print Name) Williams Field Severice	representative for:
	do hereby certify that
according to the Resource Conservation and Recover	do hereby certify that,
according to the Resource Conservation and Recove	ry Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste	ry Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste V NON-EXEM analysis of and that nothing has been added to the exempt or no	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis of	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste V NON-EXEM analysis of and that nothing has been added to the exempt or no	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docur MSDS Information RCRA Hazardous Waste Analysis	ny Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste NON-EXEM analysis of and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docur MSDS Information	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docur MSDS Information RCRA Hazardous Waste Analysis	ny Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docur MSDS Information RCRA Hazardous Waste Analysis	ny Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docur MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. nentation is attached (check appropriate items): Other (description):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described EXEMPT oilfield waste analysis of and that nothing has been added to the exempt or no For NON-EXEMPT waste only the following docur MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. nentation is attached (check appropriate items): Other (description):
according to the Resource Conservation and Recove 1988, regulatory determination, the above described 	APT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. 
according to the Resource Conservation and Recove 1988, regulatory determination, the above described 	APT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. 
according to the Resource Conservation and Recove 1988, regulatory determination, the above described 	APT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. 

•	Process Equipment & Service Con	npany, Inc.
<b>N</b>	5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 FARMINGTON, NEW MEXICO PHONE: (505) 327-2222 • FAX: (505) 327-7	
	NORM SURVEY DATA SHEET	
	Facility/Location: HORSE CANYON RECLAIMER Date:	1-7-99
	Meter Model: 3007 A Serial No.: 980	18-238
	Detector Type: [ ] Model 3012 Serial No.: 201-887-7100	,
	[ ] Model Serial No.:	
:	Battery Check [ ] Source Check [ ]	
	Calibration Date: 3 - 11 - 98	
	Source Type:	
	CPM Background Radiation Level: 20 mieroR/hr	
	Description of Equipment/Material Surveyed: Solid WASTE	
	Item/Material Surveyed (Description, Serial Number, Size Quantity, etc.)	Maximum microR/hr.
	Rebailer Sludge	17 CPM
	1 55 gal Drum	
	Comments:	
ø	Survey(s) Conducted By: SARY HOWE	
	(Pfint Name)	
	(Signature)	

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and the second

### TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL CONCENTRATION

Client: Project: Sample ID: Laboratory ID: Sample Matrix:

.

Williams Field Services Horse Canyon Reclaimer Horse Canyon Reclaimer 0398G06149 Solid

Date Reported:	11/02/98
Date Sampled:	10/20/98
Date Received:	10/20/98
Date Analyzed:	11/02/98

Parameter:		Linu.		Utita
Arsenic	<0.061	0.061	5	mg/L
Barium	0.80	0.001	100	mg/L
Cadmium,	<0.008	0.008	1	mg/L
Chromium	0.027	0.008	5	mg/L
Lead	<0.04	0.04	5	mg/L
Mercury	<0.0004	0.0004	0.2	mg/L
Selenium	<0.05	0.05	1	mg/L
Silver	<0.03	0.03	5	mg/L

 References:
 Method 1311: Toxicity Characteristic Leaching Procedure,

 SW-846 "Test Methods for Evaluating Solid Waste:
 SW-846 "Test Methods" 3rd Edition, Final Update III, December, 1996.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846 "Test Methods for Evaluating Solid Waste: Physical/ Chemical Methods" 3rd Edition, Final Update III, December, 1996.

Comments:

Reported By

Reviewed:

. NOV 05 '98 04:33PM IML Inter Mountain Laboratories, Inc.

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### VOLATILE ORGANIC TOXICITY CHARACTERISTIC LIST TCLP Leachate Method 8260

Client:	Williams Field Services		
Project:	Horse Canyon Reclaimer	Date Reported:	11/03/98
Sample ID:	Horse Canyon Reclaimer	Date Sampled:	10/20/98
Laboratory ID:	0398G06149	Date Received:	10/20/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98

0.10 0.5 mg/L ND Benzene mg/L 0.10 0.5 ND Carbon Tetrachloride mg/L ND. 0.10 100 Chlorobenzene 6.0 mg/L 0.10 ND Chloroform mg/L 7.5 0.10 ND 1,2-Dichloroethane 0.5 mg/L 0.10 ND 1,1-Dichloroethylene 0.7 mg/L 0.10 ND 1,4 Dichlorobenzene 200 mg/L 0.10 0.55 Methyl Ethyl Ketone (MEK) 0.7 mg/L 0.10 Tetrachioroethylene ND mg/L 0.5 0.10 ND Trichloroethylene 0.2 mg/L 0.10 ND Vinyl chloride

ND- Analyte not detected at stated detection level.

Reviewed:

. NOV 05 '98 04:34PM IML Inter:Mountain Laboratories, Inc.

2506 W. Main Streat Farmington, New Mexico 87401

### SEMI-VOLATILE ORGANICS /TCLP TCLP Leachate Method 8270

Client:	Williams Field Services		
Project:	Horse Canyon Reclaimer	Date Reported:	<b>11/03/98</b>
Sample ID:	Horse Canyon Recalimer	Date Sampled:	10/20/98
Laboratory ID:	0398G06149	Date Received:	10/20/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98

200 mg/L ND 1.0 Cresol (Total) 0.10 0.13 mg/L ND 2,4-Dinitrotoluene 0.13 mg/L ND 0.10 Hexachlorobenzene mg/L 0.5 ND 0.20 Hexachlorobutadiene mg/L 3.0 0.10 Hexachloroethane ND 2.0 mg/L 0.50 ND

Nitrobenzene 0.20 100 mg/L NĎ Pentachlorophenol mg/L 0.50 5.0 ND Pyridine mg/L 400 2,4,5-Trichlorophenol ND 0.50 mg/L 2.0 ND 0.50 2,4,6-Trichlorophenol

ND - Analyte not detected at stated detection level.

Reviewed: UN

P.4/6

NOV 05 '98 04:34PM IML Inter Mountain Laboratories, inc.

> 2506 W. Main Street Farmington, New Mexico 87401

> > mg/L

### TCLP HERBICIDES TCLP Leachate Method 8150A

Client	Williams Field Services		
Project	Horse Canyon Reclaimer	Date Reported:	11/03/98
Sample ID:	Horse Canyon Recalimer	Date Sampled:	10/2 <b>0/98</b>
Laboratory ID:	0398G06149	Date Received:	10/20/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98

0.003

ND - Analyte not detected at stated detection level.

ND

Reported By:\_

2,4,5-TP (Silvex)

Reviewed:

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P.5/6

NOV 05 198 04:35PM IM Inter Mountain Laboratories, Inc.

2508 W. Main Street Fermington, New Mexico 97401

### TCLP PESTICIES TCLP Leachate Method 8080A

Client:	Williams Field Services		
Project:	Horse Canyon Reclaimer	Date Reported:	11/03/98
Sample ID:	Horse Canyon Recalimer	Date Sampled:	10/20/98
Laboratory ID:	0398G06149	Date Received:	10/20/98
Sample Matrix:	Solid	Date Analyzed:	11/02/98

aranganar	Units

gamma-BHC (Lindane)	ND	0.01	0.04	mg/L
Chlordane	ND	0.01	0.03	mg/L
Endrin	ND	0.01	0.02	mg/L
Heptachlor	NĎ	0.005	0.008	mg/L
Heptachlor Epoxide	ND	0.005	0.008	mg/L
Methoxychlor	ND	0.01	10.0	mg/L
Toxaphene	ND	0.01	0.5	mg/L

ND - Analyte not detected at stated detection level.

Reported By:

Reviewed: 17

P.6/6



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## CHAIN OF CUSTODY RECORD

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Client/Project Name	D Ser.			ect Location SE Comme	Rec	lainse	/	/	ANALYS	ES / PAR	AMETERS	3	
Sampler: (Signature) Bie Bee				stody Tape I			./	100			Rema	irks	
Sample No./	Date	Time	Number		Matrix		No. of Containers	full 7 w-1960					
Hobre Canyon	10/20/28	12001	+ 5	REBO	IER Se	olids	5				150	male	
- PReclaimer	$\left  \right\rangle$		· -+		7		. –					/	
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Relinquished by: (Signature)	·····		···· <u>·····</u>	Date	Time	Received I	by labor	atory: (S				Date	Time
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<b>.</b> . <b></b>		11				-3, IIIC.							
LJ 1633 Terra Avenue Sheridan, Wyoming 8280 Telephone (307) 672-894	01 Gillet	Phillips Circl te, Wyoming hone (307) 6	82718 Farmi	West Main St ngton, NM 87 hone (505) 32	401	LI 1160 Rese Bozeman, I Telephone	Montan	a 59718	College	State Hwy. ( Station, T) one (409) 77	( 77845	579	71



District I - (505) 393-6161       New Mexico         P. O. Box, 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         N' trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	ON OILCON. DIV Submit Original	
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: Non-Exempt: 1. RCRA Exempt: Non-Exempt: 1. RCRA Exempt: 1. RCR	4. Generator EPFS	
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Kutz Plant	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Easubrateat	
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Alassico	
7. Location of Material (Street Address or ULSTR)	#133 Comby Rd. 5569	
9. <u>Circle One</u> :	Formington, Dur. 87401	
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned for transport.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Grave al &amp; dort content of spilled, when scender fluids</li> <li>( hydroccar barra, water &amp; glyce (.).</li> </ul>		
Estimated Volume cy_ Known Volume (to be entered by the op	erator at the end of the haul) cy	
SIGNATURE: Waste Management FacilityAuthonized Agent Waste Management FacilityAuthonized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	Manager       DATE: (2.20.99)	
(This space for State Use) APPROVED BY: DEM 3 Point TITLE: GEOLOG APPROVED BY: Charlie Torr TITLE: Defory of		

1. Generator Name and Address:	2. Destination Name:	
El Paso Field Services Co.	Envirotech Soil Remediation Facility	
614 Reilly Avenue	Landfarm #2	
Farmington, NM 87401	Hilltop, New Mexico	
<ul> <li>3. Originating Site (name):</li> <li>Kutz Plant</li> <li>County Road 5569 Number 133</li> <li>Farmington, NM 87402 Attach list of originating sites as appropriate </li> <li>4. Source and Description of Waste</li> </ul>	Location of Waste(Street address &/or ULSTR):	
Spilled Inlet scrubber liquids (hydrocarbons, water, glycol) mixed with gravel and dirt. Approximately one cubic Yard.		
I, <u>Scott Pope</u> (Print Name)	representative for:	
El Paso Field Services Co. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988 regulatory determination, the above described waste is: (Check appropriate classification)		
X EXEMPT Oilfield waste		
and that nothing has been added to the exempt or non-hazardous waste defined above.		
For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):		
MSDS Information RCRA Hazardous Waste An Chain of Custody Λ	alysis Other (description)	
Name (Original Signature):	) op-	
Title:Senior Env	vironmental Scientist	
Date: 12/20/99		

atrict II - (505) 748-1283 1 S. First tesia, NM 88210	New Mexico Is and Natural Resources De il Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Env	Epartment Form C-138 Originated 8/8/95 Submit Original Plus 1 Copy to appropriate District Office
REQUEST FOR	APPROVAL TO ACCEPT SOL	ID WASTE
1. RCRA Exempt: 🔯 Non-Exempt: 🛄	Danur Foust 11.1.99 4. Varbal 9:45	Generator EPFS
Verbal Approval Received: Yes 🔀	No [] 5.	Originating Site ANGEL Peak Site 2
2. Management Facility Destination Faci	otech Soil Remedia. 1ity Landfarm #2 <b>6</b> .	Transporter Moss Bocau Aly
		State Nand Repoirs
7. Location of Material (Street Address or ULS	STR) 'c''	Sea. 8, TZTN, RIOW SJC, Nec.
All transporters must certify the wastes deliv BRIEF DESCRIPTION OF MATERIAL: potro lanon tydro cord Condangata took	vered are only those consigned for th	ansport. Soil From a Leaking 2 1990 No DIN
Estimated Volume 50 cy Known	Volume (to be entered by the operator a	at the end of the haul) cy
SIGNATURE: Hallow Blows Waste Management FacilityAuthorized Ag TYPE OR PRINT NAME: Harlan M. Brown		505-632-0615
(This space for State Use) APPROVED BY: Demp Br. P APPROVED BY: Charle' Turn	TITLE: <u>Geologis</u> TITLE: <u>Jield Ret</u>	DATE: <u>12/3/99</u> DATE: <u>12/3/99</u>

Downy Found 11. 1.99 9:45. J.M.

### CERTIFICATE OF WASTE STATUS

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1. Generator Name and Address:	2. Destination Name:
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Station 2B-3B (Angel Peak Site 2)	Unit C - Section 8 - T27N - R10W, San Juan County, NM
Attach list of originating sites as appropriate	
4 Source and Description of Waste	
Hydrocarbon contaminated soil from leaking conde	ensate storage tank
I,David Bays	representative for:
(Print Name)	
El Paso Field Services	Co. do hereby certify that,
	very Act (RCRA) and Environmental Protection Agency's July,
1988 regulatory determination, the above describe	D WASTE IS: (Check appropriate classification)
X EXEMPT Oilfield waste NO	I-EXEMPT oilfield waste which is non-hazardous by
	racteristic analysis or by product identification
and that nothing has been added to the exempt or	non-hazardous waste defined above.
······	······································
For <b>NON-EXEMPT</b> waste only, the following docur	nentation is attached (check appropriate items):
MSDS Information	Other (description)
RCRA Hazardous Waste An Chain of Custody	
Name (Original Signature):	X Bage
Title: Principal E	nvironmental Scientist
	1000
Date: October 29	, אד

Diatrict I - (505) 393-6161       New Mexico         P. O. Box 1940       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         Pitrict III - (505) 334-6178       Santa Fe, New Mexico 87505         1 Rio Brazos Road       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
Chordic Powin 1. RCRA Exempt: Non-Exempt: 1: 27.99 15:00	4. Generator OPERATing
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site Fed Gascon Hal
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Ewstrater
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State and marsics
7. Location of Material (Street Address or ULSTR)	"C" STE 31, T300, 12120 SJC
<ul> <li>A. All requests for approval to accept ollfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordened by the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Conden 54-72</li> <li>Conden 54-72</li> <li>Conden 56-72</li> <li>Conden 56-72</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Estimated Volume cy Known Volume (to be entered by the ope 	DATE:     12.2.9       505-632-0615
TYPE OR PRINT NAME: Harlan M. Brown TEL (This space for State Use) APPROVED BY: Demy Briter Title: Geolog APPROVED BY: Charles The Title: Jic/d /	EPHONE NO

### **CERTIFICATE OF WASTE STATUS**

2.

 Generator Name and Address: Cross Timbers Operating Company 6001 Highway 64 Farmington, NM 87401

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Destination Name: Envirotech, Inc. Soil Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64 Farmington, NM 87401

3. Originating Site (name): Federal Gas Com H #1	Location of the Waste (Street address &/or ULSTR):
"C" Sec 31 – T30N – R12W San Juan County, NM	
Attach list of originating sites as appropriate	
4. Source and Descripton of Waste	
Condensate Contaminated Soil	
I, Terry R. Matthews	representative for:
	do hereby certify that, ecovery Act (RCRA) and Environmental Protection Agency's e described waste is: (Check appropriate classification)
XX EXEMPT oilfield waste	NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis by product identification
and that nothing has been added to the exemp	ot non-hazardous waste defined above.
For NON-EXEMPT waste only the following doc MSDS Information RCRA Hazardous Waste Chain of Custody	umentation is attached (check appropriate items): Other (description): Analysis

Jul -

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s:\forms\waste.doc		

**Production Superintendent** 

Name (Original Signature):

11/29/99

Title:

Date:

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Date:



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-6170

JENNIFER A. SALISBURY CABINET SECRETARY 00

## **CERTIFICATE OF WASTE STATUS**

11.27.99

1. Generator Name and Address: Cross Timbers Operating Co. 6001 Huy 64	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility
FARMington, New Hereico 87401	Landfarm #2, Hilltop,New Mexico 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
GAS Com # #1	"C" Sec31, T30N, RIZLI
	SACAT Juan Country, Hawkakico
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Condiansate Contamina	teal Soil
·	
, TERRY R. Matthews	representative for:
(Print Name)	
<u>ADSS TIMBERS OPERATING</u> according to the Resource Conservation and Recover 1988, regulatory determination, the above described	G COMPANY do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	NPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	tion is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Lavels of I to 20 NMAC 3.1 subpart 1403.C and 0.	Naturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature)	
Title: PRODUCTION Superinte.	ndent

istrict L. (505) 393-6161 O. Bar 1980 Dobs, NM 88241-1980 Energy istrict II - (505) 748-1283 II S. First resia, NM 88210 'rutict III - (505) 334-6178 'Rio Brazos Road c, NM 87410 istrict IV - (505) 827-7131	New Mexico Munerals and Natural Resource Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	NOV 0 7 1999 Submit Original
REQUES	ST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exe	mpt: 🔀	4. Generator Production Operators
Verbal Approval Received:	Yes 🔲 No 🔀	5. Originating Site Unit # 1255
2. Management Facility Destination	Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essuincheat
	5796 US Highway 64 Farmington, NM 87401	8. State Colorado -> NGA
7. Location of Material (Street Addr	ess or ULSTR)	SEY4 See26 T33N, RIW
9. <u>Circle One</u> :		
All transporters must certify the w BRIEF DESCRIPTION OF MATERIA	azardous and the Generator's certificatio wed. astes delivered are only those consigned	/ N-w labe oil DEC
<b>A</b> (0.0	OIL COM. D DIST. 3	
Estimated Volume	cy Known Volume (to be entered by the op	erator at the end of the haul) cy
SIGNATURE: <u>Waste Management Facility</u> TYPE OR PRINT NAME: <u>Harlan</u>	M Brown	Manager     DATE: /2.2.99
(This space for State Use) APPROVED BY: Martyne	J. Tant TITLE: Geolog Kich TITLE: Environ	<u>DATE: 12/3/99</u> <u>mentral Geolog</u> , × DATE: 12-7-59

Diatrict I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         Diatrict II - (505) 748-1283       Oil Conservation Division         Bit S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         P' urict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator Production Operators
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Unit # 1255
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Essuincheat
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Colorado -> Non
7. Location of Material (Street Address or ULSTR)	SEV4 See26 T33N, RIIW
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be according to accept non-exempt wastes must be according of the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Clean up of Soil Conteminated up (Hobile Pagasus 805) MSDS - ATTHEALE	n of origin. No waste classified hazardous by d for transport.
(This space for State Use)	anager       DATE: <u>12.2.99</u> EPHONE NO.       505-632-0615
	· / /
APPROVED BY:	DATE:

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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW NEXICO 87410 (805) 334-5178 FAX (505)334-5170

GARY E. JOHNSON

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IENNIFER A. SALISBURY CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	
	2. Destination Name:
Production operators Inc.	Envirotech Inc.
4000 Lomas	Soil Remediation Remediation Facility
Farmington, NM 87401	Landfarm #2, Hilltop,New Mexico 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
POI unit # 1255	5E 1/4 SOC. 26 T. 33N R.11W
	·
Attach list of originating sites as appropriate	
4. Source and Description of Weste	
Source - 500gal. Lube Oil Storage	Tank
Description - mobil Pegasus 805	
Description - Mobil Pegasas 803	Unused creen Lude - 11
Rod Heaston	representative for:
(Print Name)	
Pudu tie On (Print Name)	
Production Operator Inc. Incording to the Resource Conservation and Recov	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
Pudu tie On (Print Name)	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
Production Operator Inc. Inccording to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waster X NON-EXE	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
Production Operator Inc. Inccording to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waster X NON-EXE	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d wasta is: (Chack appropriate classification) EMPT oilfield wasta which is non-hazardous by characteristic or by product identification
Production Operator Inc. Incoording to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE analysis to analysis to A thet nothing has been added to the exempt or n	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d wasta is: (Check appropriate classification) EMPT oilfield wasta which is non-hazardous by characteristic or by product identification
Production Operator Inc. Inccording to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE analysis of and that nothing has been added to the exempt or no ar NON-EXEMPT waste the following document	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. tation is attached (check appropriate items):
Production Operator Inc. Inccording to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE analysis to analysis to analysis to A NON-EXEMPT waste the following document X MSDS information	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d wasta is: (Check appropriate classification) EMPT oilfield wasta which is non-hazardous by characteristic or by product identification
Production Operator Inc. Incording to the Resource Conservation and Recover 1988, regulatory determination, the above described <b>EXEMPT</b> oilfield waste X NON-EXE analysis of and thet nothing has been added to the exempt or non- ar NON-EXEMPT waste the following document X MSDS information RCRA Hazardous Waste Analysis	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. tation is attached (check appropriate items):
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Production Operator Inc. Inccording to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE analysis to analysis to and thet nothing has been added to the exempt or non- or NON-EXEMPT waste the following document X MSDS information RCRA Hazardous Waste Analysis Chain of Custody	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. tation is attached (check appropriate items):

to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Col Heston	
Title: Area 135 Supt.	

Date: 11-18-99



## SOUTHERN UTE INDIAN TRIBE

November 22, 1999

Rod Heaston Production Operators, Inc. 4000 Lomas Farmington, NM 87401

Re: Tribal Notification of Transportation of Non-exempt Oil Field Waste 500 gallons of non-exempt, unused lube oil contaminated soil Production Operators Inc., Unit #1255 4-Queens, SE1/4 Sec. 26 T33N R11W

Dear Mr. Heaston:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transport of soil contaminated with 500 gallons of RCRA non-exempt unused lube oil from the above referenced site to a land farm in New Mexico. It is our understanding that the contaminated soil will be transported to Envirotech's landfarm in New Mexico.

Certification may be required by the state in New Mexico Oil Conservation Commission (NMOCCD) from your company, the transporter or generator. Transportation of this waste may be subject to other state and federal laws.

Sincerely,

Wiescomp

Division Head Environmental Programs

NOV-19-99 09:02 From:AMOCO PRC	ON CO DURANGO	970247682'	T-928 P.03/07	Job-618
HOME O ISEARCHI	TAHIPPROVI ISTI		NEXTLIST	
and a statement	DOC] [CURR DOC]	ICURR LIST	[LAST DOC]	
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Mahii	المشعا			
to make a difference in <u>Print V</u>	iew			
602466-00				: .
	466-00 MOBIL PEGAS			
MATR	RIAL SAFETY DATA B	ULLETIN	*****	
1. PRODUCT AND COMPANY IDEN	TIFICATION			
[****]				
PRODUCT NAME: MOBIL	21	HITIPEGABUB BOSSUP	PLIER: MOBIL OIL ()	(ikp
3225 GALLOWD RD.	KETING AND REFININ	G		
FAIRFAX, VA 33 24 - Hour Emergency (call c Product and MSDS Informatio CHEMIREC:		4525 609-224-464		
2. COMPOSITION/INFORMATION	DN INGREDIENTS	******		
CHEMICAL NAMES AND SYNONYMS	: PET. HYDROCARBON	s and additives		
INGREDIENTS CONSIDERED HAZA This product is not formu	lated to contain i	ngredients which ha	IVC:	
exposure limits establish health as defined by the	Ruropaan Union Dan	Terous		
Substances/Preparations D analyais of the ingredien	t <b>a</b> . (		latory	
See Section 15 for European See Section 0 for exposure	Label Information limits (if applic)	uble).		
HAZARDS IDENTIFICATION	•			
IS OSHA HAZARD COMMUNICATION with OSHA 29 CFR 1910.	1200 and determined	not to be bazardo	rdance	
WPTECTS OF OVEREXPOSURE: NO MERGENCY RESPONSE DATA: LLC	significant effect pht Amber Liquid.	a expected. DOT ERG No NA		
. FIRST AID MEASURES	:			
YE CONTACT: Fluch thorough) a physician. KIN CONTACT: Wash contact s			E Cast,	
NAALATION: Not expected to NGESTION: Not expected to b	be a problem.			
The set exposed to t	- A PERMECIA MANDEL T	nguaruu. 11		

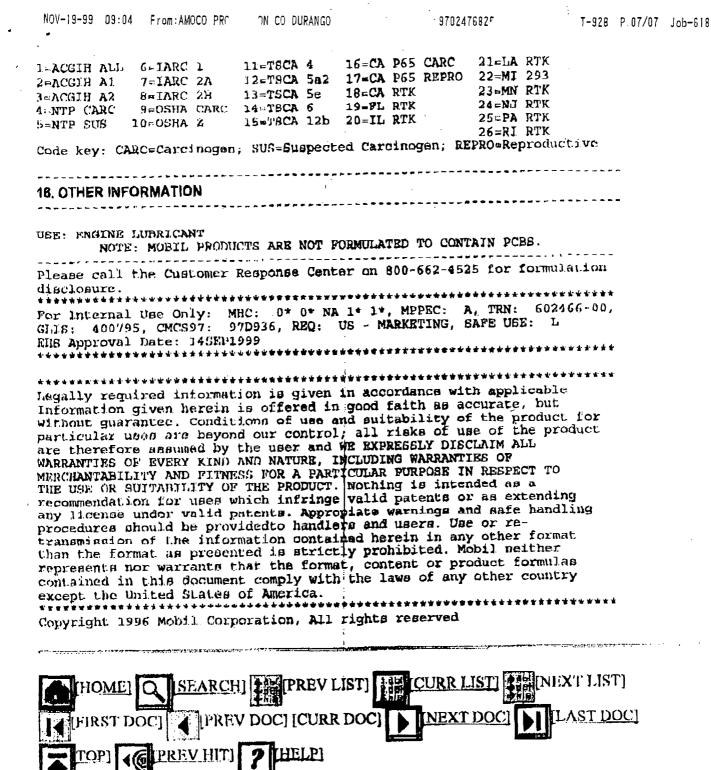
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uncomfortable seek medical assistance. 5. FIRE-FIGHTING MEASURES EXTINGUIBHING MEDIA: Carbon dioxide, foam, dry chemical and water Fog. SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, severs, or drinking water supply. SPECIAL PROTECTIVE EQUIPMENT, Por fires in enclosed areas, fire fighters must use self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): 245(473) (ASTM D-92). Flammable limits - LEL: NE, UEL: NE. NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0 HANARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds. \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 6. ACCIDENTAL RELEASE MEASURES NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300. PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal. ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil. PERSONAL PRECAUTIONS: See Section 8 7. HANDLING AND STORAGE HANDLING: No special precaultons are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product. STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material. B. EXPOSURE CONTROLS/PERSONAL PROTECTION VENTILATION: No apecial requirements under ordinary conditions of use and with adequate ventilation, RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation. EVE PROTECTION: Normal industrial eye protection practices should be employed. SKIN PROTECTION: No special equipment required. However, good personal hygians practices should always be followed. EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for all mist. 9. PHYSICAL AND CHEMICAL PROPERTIES 

Typical physical properties are given below. Consult Product Data Sheet. for openific details. APPEARANCE: Liquid COLOR: Light Amber ODOR; Marketable ODOR THRESHOLD-ppm: NE TH: NA BOILING POINT C(F): NE MELTING POINT C(F) : NA FLASH POINT C(F): 245(473) (ASTM D-92) FLAMMABILITY: NE AUTO FLAMMABILITY: NE EXPLOSIVE PROPERTIES: NA OXIDINING PROPERTIES: NA VAPOR PRESSURE-mmHg 20 C: < 0.1 VAPOR DENSITY: > 2.0 EVAPORATION RATE: NE RELATIVE DENSITY, 15/4 C: 0.89 SOLUBILITY IN WATER: Negligible PARTITION CONFEICTENT: NE VISCOSITY AT 40 C, OSt: 130.0 VISCOSITY AT 100 C, CSt: 13.5 POUR POINT C(P) : -12(10) FREEZING POINT C(F); NE VOLATINE ORGANIC COMPOUND: NR NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARRETING REPRESENTATIVE 10. STABILITY AND REACTIVITY STABILITY (THERMAL, LIGHT, ETC.): Stable. CONDITIONS TO AVOID: Extreme heat. INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizars. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds. HAZARDOUS POLYMERIZATION: Will not occur. 11. TOXICOLOGICAL DATA ---ACUTE TOXICOLOGY---ORAL YOXICITY (RATS); Practically non-toxic (LD50; greater than 2000 mg/kg). ---Haned on testing of similar products and/or the components. DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50; greater than 2000 mg/kg). ---Based on testing of similar products and/or the components. INHALATION TOXICITY (RATS); Not applicable ---Harmful concentrations of mista and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product. EYE IRRITATION (RABBITS); Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components. SKIN IRRITATION (RABBITS): Practically non-irritating, (Primary Trritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components. ---SUBCHROAIC TOXICOLOGY (SUMMARY)---Severely solvent refined and severely hydrotrested mineral base oils have been tested at Mobil Environmental and Mealth Sciencias Laboratory by dermal application to rate 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body

fluids, showed no adverse effects. --- CHRONIC TOXICOLOGY (SUMMARY) ---The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic offects. 12. ECOLOGICAL INFORMATION ENVIRONMENTAL FATE AND EFFECTS: Not established. 13. DISPOSAL CONSIDERATIONS WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Concervation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal. RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hassrdous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated. 14. TRANSPORT INFORMATION USA DOT: NOT REGULATED BY UBA DOT. RID/ADR: NOT REGULATED BY RID/ADR. IMO: NOT REGULATED BY IMO. TATA: NOT REGULATED BY JATA. \*\*\*\*\*\*\* **15. REGULATORY INFORMATION** Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DBL. BU Labeling: Symbol: \* EU labeling not. required ... Risk Phrase(s): R. NA Safety Phrase(H): NoL applicable. U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES". SARA (311/312) REPORTABLE HAZARD CATEGORIES: None. This product contains no chamicals reportable under SARA (313) toxic release program. The following product ingredients are cited on the lists below: CHEMICAL NAME CAS NUMBER LIST CITATIONS \*\*\*\*\*\*\*\* -------XYLENRS (0.06%) 1330-20-7 22 ZINC (ELEMENTAL ANALYSIS) ( < 0.04%) 7440-66-6 22 PHOSPHORODITHOIC ACID, 0,0-DI 68649-42-3 22 C1-14 ALKYL ESTERS, ZINC SALTS (21 1) (2DDF) (0.33%)---- REGULATORY LISTS SBARCHED ---



II - (505) 748-1283       Oil Conservation Division         S. First       2040 South Pacheco Street         Isia, NM 88210       Santa Fe, New Mexico 87505         Visio Brazos Road       (505) 827-7131         Itict IV - (505) 827-7131       Santa Fe, New Mexico 87505	UEC 1 7 1999 Submit Origina
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🗹	4. Generator Ewagy Sarvices
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Harran Hell
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Ewvirotech
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Coloreado -> Dow Manite
7. Location of Material (Street Address or ULSTR)	NE/4 Sec 29, T33N, RBW Laplata County Co.
9. <u>Circle One</u> :	
All transporters must certify the wastes delivered are only those consigne BRIEF DESCRIPTION OF MATERIAL:	
Clean up of stimulation fluids spil MSDS SHeats	Und & Trailer Araidant.
	All & Trailer Araidant. DERENVER
HSDS SHeats	DECENVED DEC 2 0 1999
HSDS SHeats	DECENVED DEC 2 0 1999 DEC 2 0 1999 DEC 2 0 1999 DEC 2 0 1999 DEC 2 0 1999
HSDS SHEERS & RCRA RCT Affected. Estimated Volume <u>+ 108</u> cy Known Volume (to be entered by the op SIGNATURE: <u>Houlow Brews</u> TITLE: Landfarm M Waste Management FacilityAuthorized Agent Harlan M. Brown	DEC 2 0 1999 DEC 2 0 1999 OIL CON. DIV. DIVI. 3 erator at the end of the haul) <u>105</u> cy

District I - (505) 393-6161       New Mexico         P-0. Box 1980       Energy Minerals and Natural Resource         Hobbs. NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         P'-trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🖂	4. Generator Ewargy Sarvices
Verbal Approval Received: Yes 🔲 No 🖂	5. Originating Site Hours ra Hell
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eaviertal
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Coloreado -> Dow May Teo
7. Location of Material (Street Address or ULSTR)	NE/4 Sec 29, T3SN, RBW
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept olifield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Clean up of stimulation fluids spill</li> <li>MSDS SHEETS</li> <li>RCRA RCT Affield.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by I for transport.
Estimated Volume $\pm 108$ cy Known Volume (to be entered by the ope	rator at the end of the haul) cy
SIGNATURE: Aculon UBan TITLE: Landfarm Ma	anager DATE: / 2.10.99
Waste Management FacilityAuthorized Agent           TYPE OR PRINT NAME:         Harlan M. Brown         TELE	EPHONE NO
(This space for State Use)	
APPROVED BY: Demy 2, Town TITLE: (FED/00	DATE: 12/14/99
APPROVED BY:	DATE:



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-5178 Fax (505)334-5170

;5055321865

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: MALLIBURTON ENERGY SERVICE 4109 E. MAIN ST. FARMINGTON N. M. 87401 3. Originating Site (name): VENICLE ALCIDENT HERRERA HILL	<ul> <li>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</li> <li>Location of the Waste (Street address &amp;/or ULSTR): NORTHEAST /4 SECTION 29 TOWNSHIRA 33 NORTH KANE &amp; WEST SOUTHERST WITH INTE INDIAN RESERVATION) LAPLATH COUNTY CO.</li> </ul>
Attach list of originating sites as appropriate 4. Source and Description of Waste LOSURF 300 SANOWEDGE BL -140	
1988, regulatory determination, the above described v <b>EXEMPT</b> oilfield waste $\mathbf{X}$ NON-EXEM	representative for: do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentat MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	
This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D,	laturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature): <u>ROBERT Smy 14</u>	

Title: NEALTH, SAFETY & ENVIRONMENTES ADVISOR

Date: 12-10-99

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CEIVED NOV 2 9 1999



## SOUTHERN UTE INDIAN TRIBE

November 22, 1999

Harlan Brown Envirotech, Inc. 5796 U.S. Hwy 64 Farmington, NM 87401

Re: Tribal Notification of Transportation of Non-exempt Contaminated Soil 300 gallons non-exempt sandwedge 630 208 gallons BC-140 190 gallons Low Surf contaminated soil Haliburton Energy Services, Inc. Herrera Hill, N2NE1/4 Sec. 29 T33N R8W

Dear Mr. Brown:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transport of soil contaminated with RCRA non-exempt Sandwedge 630, BC-140, and Low Surf from the above referenced site to your land farm in New Mexico. It is our understanding that the contaminated soil will be transported to Envirotech's landfarm in New Mexico.

Certification may be required by the state in New Mexico Oil Conservation Commission (NMOCCD) from your company, the transporter or generator. Transportation of this waste may be subject to other state and federal laws.

Sincerely, uscamp

Cheryl Wiescamp Division Head Environmental Programs

# ENVIRO ECI : LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### SUSPECTED HAZARDOUS WASTE ANALYSIS

	· · · · · · · · · · · · · · · · · · ·						
Client:	Halliburton Energy Services	Project #:	213203				
Sample ID:	Stockpile	Date Reported:	12-03-99				
Lab ID#:	G523	Date Sampled:	12-01-99				
Sample Matrix:	Soil	Date Received:	12-01-99				
Preservative:	Cool	Date Analyzed:	12-03-99				
Condition:	Cool and Intact	Chain of Custody:	7580				
Parameter	Result						
1 drameter	Kesuit						
IGNITABILITY:	Negative						
CORROSIVITY:	Negative	pH = 6.88					
REACTIVITY:	Negative						
RCRA Hazardous Waste Criteria	a						
Parameter	Hazardous Waste Criterion						
IGNITABILITY:	•••	efined by 40 CFR, Subpart C, Sec. 261.21 contact with flame or flash point < 60° C.)					
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5 )						
REACTIVITY:	(i.e. Violent reaction with water,	efined by 40 CFR, Subpart C, Sec. 261.23. strong base, strong acid, or the generation s at STP with pH between 2.0 and 12.5)					
Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.							

Comments:

Herrera Hill.

. L. aferra Analyst

Review Mistin Mulale

## CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location						-	6							
Harriburton Every Sources H			Herrora bhill									IS / PAR	AMETER	45			
Sampler: Client No.			ent No. 92132-03			ω	<b>c</b>	-0	Ĩ I			Rei	narks				
HARLAN (4. BROWN) 92132						No. of ontainer	n Z H	6	36		5						
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		No. of Containers	RCH RC	201	2108 ·	Sozi Nantu	-					
STOCKPile	12. (.99	12:10	G523	5	Toil		- (	1									
Drunned Soil	12.1.99	12:05	4 <sup></sup>		Soil		1	N° H	. /	· /	//			Warst	Ca.	e	
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								<u> </u>									
Relinquished by: (Signa		~		Date	Time		ived by:			. )	1				ate		me
Relinquished by: (Signa	On Bre			12.1.99	14:45		hris			has	<u>t</u> ~			12	199	14:	13
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Relinquished by: (Signa	ature)	<u> </u>				Rece	eived by:	(Signat	ure)								
				ENV			CH		С.				1	Sample R	eceipt	!	
															Y	N	N/A
					5796 U.S ington, N				)1				Rec	eived Intact	V		
							-0615	. <b></b>	•				Cool	- Ice/Blue Ice	10		

7580

SANDWEDGE - HAL-TANK PAGE 1 MATERIAL SAFETY DATA SHEET DATE: 07-22-98 HALLIBURTON ENERGY SERVICES REVISED DATE 11-04-9 DUNCAN, OKLAHOMA 73536 EMERGENCY TELEPHONE: 580/251-4689 OR 580/251-3569 AFTER HOURS: 580/251-3760 \* \* \* \* \* \* \* \* \* \* \* SECTION I - PRODUCT DESCRIPTION \* \* \* \* \* \* \* \* \* \* \* \* \* \* CHEMICAL CODE: SANDWEDGE - HAL-TANK PART NUMBER: 51601167 PKG QTY: 300 GALLON HALTANK APPLICATION: CONDUCTIVITY ENHANCER SERVICE USED: FRACTURING \* \* \* \* \* \* \* \* \* \* \* SECTION II - COMPONENT INFORMATION \* \* \* \* \* \* \* \* \* \* \* \* PERCENT TLV PEL ISOPROPANOL 31-60 % 400 PPM 400 PPM HEAVY AROMATIC NAPHTHA 1-10 % 300 PPM 400 PPM \* \* \* \* \* \* \* \* \* \* \* \* \* \* SECTION III - PHYSICAL DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* PROPERTY MEASUREMENT APPEARANCE DARK BROWN LIQUID ODOR BLAND SPECIFIC GRAVITY (H20=1) .903 7.52 LB/GAL BULK DENSITY 7.8 TO 9.8 PH SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H20 INSOLUBLE NOT DETERMINED BIODEGRADABILITY PERCENT VOLATILES 35 EVAPORATION RATE (BUTYL ACETATE=1) N/D VAPOR DENSITY N/D VAPOR PRESSURE (MMHG) N/D /0 F / -17 C BOILING POINT (760 MMHG) >/A-20 F / 2>C-28 C POUR POINT >/A-20 F / 2>C-28 C FREEZE POINT SOLUBILITY IN SEAWATER NOT EVALUATED PARTITION COEF (OCTANOL IN WATER) NOT EVALUATED \* \* \* \* \* \* \* \* \* SECTION IV - FIRE AND EXPLOSION DATA \* \* \* \* \* \* \* \* \* \* \* \* \* NFPA(704) RATING: HEALTH 2 FLAMMABILITY 3 REACTIVITY 0 SPECIAL NONE 66 F/ 18 C FLASH MTHD PMCC FLASH POINT AUTOIGNITION TEMPERATURE ND ND FLAMMABLE LIMITS (% BY VOLUME) LOWER 2 UPPER 12.7 EXTINGUISHING MEDIA: USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE. SPECIAL FIRE FIGHTING PROCEDURES:

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USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.

, UT42-59, D.UOMM, HALIBURN.

632-1865

PN: 516011670 PAGE 2 FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL. UNUSUAL FIRE AND EXPLOSION HAZARDS: MAY BE IGNITED BY HEAT, SPARKS, OR FLAMES. FIGHT FIRE FROM A SAFE DISTANCE AND FROM A PROTECTED LOCATION. HEAT MAY BUILD PRESSURE AND RUPTURE CLOSED CONTAINERS, SPREADING THE FIRE AND INCREASING THE RISK OF BURNS AND INJURIES. INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE AND CARBON MONOXIDE. DO NOT ALLOW RUNOFF TO ENTER WATERWAYS. \* \* \* \* \* \* \* \* \* \* \* \* \* SECTION V - HEALTH HAZARD DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* CALIFORNIA PROPOSITION 65: PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65. CARCINOGENIC DETERMINATION: PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH". PRODUCT TOXICITY DATA: NOT DETERMINED PRODUCT TLV: NOT DETERMINED ----- EFFECTS OF EXPOSURE -----ROUTES OF EXPOSURE: EYE OR SKIN CONTACT, INHALATION. EYE : MAY CAUSE SEVERE IRRITATION WITH POSSIBLE CORNEAL BURNS. SKIN: MAY BE ABSORBED THROUGH SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE DERMATITIS. INHALATION: HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. THIS MAY BE EVIDENCED BY GIDDINESS, HEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS. HIGH CONCENTRATIONS CAUSES NARCOSIS. VAPORS, MIST OR SPRAY MAY CAUSE IRRITATION. INGESTION: LARGE DOSES CAUSES ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. CHRONIC EFFECTS: CHRONIC OVEREXPOSURE MAY CAUSE LIVER AND KIDNEY DISORDERS. OTHER SYMPTOMS AFFECTED: A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY CONDITIONS WORSENED BY EXPOSURE TO THIS PRODUCT. ----- EMERGENCY AND FIRST AID PROCEDURES ------EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION. SKIN: PROMPTLY WASH SKIN WITH SOAP AND WATER. WASH CLOTHING BEFORE REUSE. DISCARD CONTAMINATED LEATHER ARTICLES. SEEK PROMPT MEDICAL ATTENTION.

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REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION. INGESTION:

DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE. KEE HEAD BELOW HIPS TO PREVENT ASPIRATION. SEEK PROMPT MEDICAL ATTENTION.

\* \* \* \* \* \* \* \* \* \* \* \* \* SECTION VI - REACTIVITY DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

STABILITY: STABLE CONDITIONS TO AVOID: NOT APPLICABLE. INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS. HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND/OR CARBON DIOXIDE. HAZARD POLYMERIZATION: WON"T OCCUR CONDITIONS TO AVOID: NOT DEDUCTIONS

NOT APPLICABLE.

\* \* \* \* \* \* \* \* \* SECTION VII - SPILL OR LEAK PROCEDURES \* \* \* \* \* \* \* \* \* \*

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AREA AND STOP LEAK WHERE SAFE. REMOVE IGNITION SOURCES. CONTAIN AND ABSORB SPILL WITH SAND OR OTHER INERT MATERIAL. SCOOP OR SWEEP UP USING NON-SPARKING TOOLS. IN ENCLOSED AREAS, WEAR SELF-CONTAINED BREATHING APPARATUS.

WASTE DISPOSAL METHOD:

GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE.

\* \* \* \* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \* \* \*

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

ORGANIC VAPOR CARTRIDGE RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION.

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM. OTHER PROTECTIVE EQUIPMENT:

RUBBER APRON TO PREVENT DIRECT SKIN CONTACT.

\* \* \* \* \* \* \* \* \* \* \* \* SECTION IX - SPECIAL PRECAUTIONS \* \* \* \* \* \* \* \* \* \* \* \* \*

PRECAUTIONARY LABELING SANDWEDGE - HAL-TANK

516.011670

WARNING! MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. MAY CAUSE IRRITATION TO THE EYES, SKIN OR RESPIRATORY SYSTEM. FLAMMABLE!

PAGE 3

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PN: 516011670 PAGE FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII. OTHER HANDLING AND STORAGE CONDITIONS: STORE AWAY FROM OXIDIZERS. KEEP FROM HEAT, SPARKS, AND OPEN FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AVOID BREATHING VAPORS. CONTAINER DISPOSITION: IF EMPTY CONTAINER RETAINS PRODUCT RESIDUES, ALL LABEL PRECAUTIONS MUST BE OBSERVED. STORE AWAY FROM IGNITION SOURCES WITH ALL DRUM CLOSURES IN PLACE. OFFER CONTAINER TO RECONDITIONER OR RECYCLER. ENSURE RECONDITIONER OR RECYCLER IS AWARE OF THE PROPERTIES OF THE CONTENTS. SPECIAL PRECAUTIONS: PRODUCT HAS A SHELF LIFE OF 24 MONTHS. \* \* \* \* \* \* \* \* \* SECTION X - TRANSPORTATION INFORMATION \* \* \* \* \* \* \* \* \* \* DOT SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S. - 3 - UN1993 - II (CONTAINS ISOPROPANOL, HEAVY AROMATIC NAPHTHA) IATA SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S. - 3 - UN1993 - II (CONTAINS ISOPROPANOL, HEAVY AROMATIC NAPHTHA) IMO SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL, HEAVY AROMATIC NAPHTHA) -CLASS 3.2 - UN1993 - II (15.6'C) MS 3-07 CAN SHIPPING DESCRIPTION: · FLAMMABLE LIQUID, N.O.S. - CLASS 3 - UN1993 - II (CONTAINS ISOPROPANOL, HEAVY AROMATIC NAPHTHA) ADR SHIPPING DESCRIPTION: 1993 FLAMMABLE LIQUID, N.O.S. - 3, ITEM 3(B) - ADR (CONTAINS ISOPROPANOL, HEAVY AROMATIC NAPHTHA) \* \* \* \* \* \* \* \* \* SECTION XI - ENVIRONMENTAL EVALUATION \* \* \* \* \* \* \* \* \* \* EPA SUPERFUND (SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y FIRE: Y CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY) 12,500 LBS OR 1673 GALLONS C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES) PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS) ISOPROPANOL 67-63-0 31-60 %

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	OMPONENTS LIS			CAL INVE	NTORIES		
Т	SCA YES CE	PA YES EE	CN/D A	COIN N/D	NPR NE	DR	SM NE
R F	XTRACTION MET	אד. אאד ידפאריד	CONTENTS				
	RSENIC:	IN LIQUID >		SOLID >	500 MG/KG	NO	
	ARIUM :				10000 MG/KG		
	ADIUM:	IN LIQUID >				NO	
	HROMIUM (VI) :					NO	
	HROMIUM(III):					NO	
	EAD:	IN LIQUID >			1000 MG/KG	NO	
	ERCURY :	IN LIQUID >			•	NO	
	ELENIUM:	-				NO	
	ILVER:	IN LIQUID >				NO	
	NTIMONY:	IN LIQUID >	15 MG/L,	SOLID >	500 MG/KG	NO	
B	ERYLLIUM:				> 75 MG/KG	NO	
C	OBALT:	IN LIQUID >	80 MG/L,	SOLID >	8000 MG/KG	NO	
C	OPPER:	IN LIQUID >	25 MG/L,	SOLID >	2500 MG/KG	NO	
F	LUORIDE:	IN LÍQUID >	180 MG/L,	SOLID >	18000 MG/KG	NO	
M	OLYBDENUM:	IN LIQUID >	350 MG/L,	SOLID >	3500 MG/KG	NO	
N	ICKEL:	IN LIQUID >	20 MG/L,	SOLID >	2000 MG/KG	NO	
Tł	HALLIUM:	IN LIQUID >				NO	
V	ANADIUM:	IN LIQUID >				NO	
Z	INC:	IN LIQUID >				NO	
	YANIDE:	IN LIQUID >				NO	
	25:	IN LIQUID >				NO	
	RGANO-TIN:	IN LIQUID	OR		100 MG/L		EVALUATED
	RGANO-PHOS:	IN LIQUID			100 MG/L		EVALUATED
	IN:	IN LIQUID	OR	SOLID >	100 MG/L	NOT	EVALUATED
	ERSISTENT ORGA		0.0	COLTD .	100 MG/T	NOT	
ł	ALOGENS :	IN LIQUID	OR	SOLID >	100 MG/L	NOT	EVALUATED
G. 01	THER COMPONENT	rs					
CC	NTAINS BENZEN	ЛЕ				NO	
CC	NTAINS TOLUEN	1E				NO	
CC	NTAINS XYLENE	3				NO	
RE	PORTABLE SPIL	LL QUANTITY H	FOR BENZENE	C, TOLUEN	E, XYLENE	NOT	APPLICABLE
				261			
H. EP	PA - RCRA (HAZ	SARDOUS WASIE	5), 40 CFR	201			
	F PRODUCT BECC	•			CRITERIA OF	а на	ZARDOUS
	IGNITABILITY	ž					
	NITED KINGDOM XICITY CATEGO		ICAL NOTIFI	CATION S	CHEME)	NOT	EVALUATED
* * *	* * * * * *	* * * * * *	* * * * *	* * * *	* * * * * *	* *	* * * * * * *
DATA VARIO		TO BE CORREC	CT. HOWEVE E MANUFACTU	R, AS SU RER AND	CH AS IT HAS INDEPENDENT	BEE LABO	N OBTAINED FRO RATORIES, IT I

GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN

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PAGE 6

BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSL PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

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Farmington New Meaico Rocky Mountain N.W.A.
Attention: HARLEN
Company: ENZROTECA
From: ROBERT SM274
Date: 1/-22 Time: 4:00pm
Number of pages (including cover sheet)
Fax No. (505) 327-2534 Telephone No. (505) 324-3500

BC-140 - HAL-TANK PAGE 1 MATERIAL SAFETY DATA SHEET DATE: 07-22-98 HALLIBURTON ENERGY SERVICES REVISED DATE 06-24-9 DUNCAN, OKLAHOMA 73536 EMERGENCY TELEPHONE: 580/251-4689 OR 580/251-3569 AFTER HOURS: 580/251-3760 \* \* \* \* \* \* \* \* \* \* \* SECTION I - PRODUCT DESCRIPTION \* \* \* \* \* \* \* \* \* \* \* \* \* \* CHEMICAL CODE: BC-140 - HAL-TANK PART NUMBER: 51601089 PKG QTY: 330 GALLON TANK APPLICATION: CROSSLINKING AGENT SERVICE USED: STIMULATION \* \* \* \* \* \* \* \* \* \* \* \* SECTION II - COMPONENT INFORMATION \* \* \* \* \* \* \* \* \* \* \* PERCENT TLV PEL ETHYLENE GLYCOL 11-30 % C 50 PPM C 50 PPM MONOETHANOLAMINE 1-10 % 3 PPM 3 PPM \* \* \* \* \* \* \* \* \* \* \* \* \* SECTION III - PHYSICAL DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* PROPERTY MEASUREMENT APPEARANCE DARK LIQUID ODOR GLYCOL SPECIFIC GRAVITY (H2O=1) 1.221 BULK DENSITY 10.17 LB/GAL PH. 7.28 SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H20 N/D BIODEGRADABILITY NOT DETERMINED PERCENT VOLATILES N/D EVAPORATION RATE (BUTYL ACETATE=1) N/D VAPOR DENSITY N/D VAPOR PRESSURE (MMHG) N/D BOILING POINT (760 MMHG) N/D POUR POINT N/D FREEZE POINT N/D NOT EVALUATED SOLUBILITY IN SEAWATER PARTITION COEF (OCTANOL IN WATER) NOT EVALUATED \* \* \* \* \* \* \* \* \* \* SECTION IV - FIRE AND EXPLOSION DATA \* \* \* \* \* \* \* \* \* \* \* \* NFPA(704) RATING: HEALTH 1 FLAMMABILITY 0 REACTIVITY 0 SPECIAL NONE FLASH MTHD TCC FLASH POINT N/D AUTOIGNITION TEMPERATURE ND ND FLAMMABLE LIMITS (% BY VOLUME) LOWER N/D UPPER N/D EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL OR CARBON DIOXIDE. SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING

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PN: 516010890 PAGE 2 APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL. UNUSUAL FIRE AND EXPLOSION HAZARDS: INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE TOXIC GASES. \* \* \* \* \* \* \* \* \* \* \* \* \* SECTION V - HEALTH HAZARD DATA \* \* \* \* \* \* \* \* \* \* \* \* \* CALIFORNIA PROPOSITION 65: PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65. CARCINOGENIC DETERMINATION: PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN "NTP, IARC, OSHA, OR, ACIGH". ACCORDING TO : PRODUCT TOXICITY DATA: NOT DETERMINED PRODUCT TLV: NOT DETERMINED ROUTES OF EXPOSURE: EYE OR SKIN CONTACT, INHALATION. EYE: MAY CAUSE MODERATE TO SEVERE IRRITATION, AND IN EXTREME CASES SEVERE BUT TRANSIENT EYE INJURY. SKIN: CONTACT MAY CAUSE SKIN IRRITATION. INHALATION: MIST OR HEATED VAPORS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION RESULTING IN GIDDINESS, HEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS. INGESTION: CONTAINS ETHYLENE GLYCOL, MAY CAUSE HEART, KIDNEY AND BRAIN DISORDERS. CHRONIC EFFECTS: REPEATED AND/OR PROLONGED EXPOSURE AT LOW LEVELS MAY RESULT IN KIDNEY DISORDERS, REPRODUCTIVE DISORDERS, AND ADVERSE EYE EFFECTS. CONTAINS ETHYLENE GLYCOL WHICH MAY CAUSE KIDNEY, LIVER, HEART, BLOOD & BRAI DISORDERS. ETHYLENE GLYCOL HAS BEEN SHOWN TO CAUSE DEVELOPMENTAL AND REPRODUCTIVE EFFECTS IN LABORATORY ANIMALS. THESE FINDINGS ARE OF UNCERTAI TO HUMANS. ETHYLENE GLYCOL HAS PRODUCED DOSE RELATED TERATOGENIC EFFECTS IN RATS AND MICE, WHEN GIVEN BY GAVAGE OR DRINKING WATER AT HIGH DOSES. TERATOGENIC EFFECTS WERE ALSO PRODUCED BY INHALATION IN VERY HIGH CONCENTRATIONS, BUT ONLY IN MICE. THE DATA SUGGESTS ETHYLENE GLYCOL MAY CAUSE BIRTH DEFECTS. OTHER SYMPTOMS AFFECTED: MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE INCLUDE SKIN DISORDERS AND ALLERGIES, LIVER DISORDER, AND EYE DISEASE. ----- EMERGENCY AND FIRST AID PROCEDURES -------EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION. SKIN: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH

CLOTHING BEFORE REUSE.

PN: 516010890 PAGE 3 INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION. INGESTION: GIVE UP TO TWO (2) QUARTS OF WATER AND INDUCE VOMITING. NEVER GIVE ANYTHIN BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION. \* \* \* \* \* \* \* \* \* \* \* \* SECTION VI - REACTIVITY DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STABILITY: STABLE CONDITIONS TO AVOID: NOT APPLICABLE. INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS AND DEHYDRATING AGENTS. HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE AND/OR CARBON MONOXIDE AND UNIDENTIFIED HYDROCARBON VAPORS. HAZARD POLYMERIZATION: WON"T OCCUR CONDITIONS TO AVOID: NOT APPLICABLE. \* \* \* \* \* \* \* \* \* \* SECTION VII - SPILL OR LEAK PROCEDURES \* \* \* \* \* \* \* \* \* \* \* STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AND STOP LEAK WHERE SAFE. CONTAIN AND ABSORB SPILL WITH AN INERT MATERIAL. SCOOP UP AND REMOVE. PREVENT RUNOFF FROM ENTERING SEWERS, LAKES, RIVERS, STREAMS OR PUBLIC WATER SUPPLIES. WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. CONTAC HALLIBURTON HEALTH, SAFETY, AND ENVIRONMENT DEPARTMENTS IN DUNCAN, OK FOR THE APPROPRIATE DISPOSAL METHOD. \* \* \* \* \* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \* \* RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT): ORGANIC VAPOR CHEMICAL CARTRIDGE RESPIRATOR WITH A DUST-MIST FILTER. VENTILATION: USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION. PROTECTIVE GLOVES: IMPERVIOUS RUBBER GLOVES. EYE PROTECTION: WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM. OTHER PROTECTIVE EQUIPMENT: RUBBER APRON TO PREVENT DIRECT SKIN CONTACT. \* \* \* \* \* \* \* \* \* \* \* \* \* SECTION IX - SPECIAL PRECAUTIONS \* \* \* \* \* \* \* \* \* \* \* \* \* \* PRECAUTIONARY LABELING BC-140 - HAL-TANK 516.010890 WARNING! MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS.

PAGE 4

MAY CAUSE IRRITATION TO THE EYES, SKIN OR RESPIRATORY SYSTEM. CONTAINS ETHYLENE GLYCOL WHICH MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII. OTHER HANDLING AND STORAGE CONDITIONS: STORE AWAY FROM OXIDIZERS. STORE IN A COOL WELL VENTILATED LOCATION. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID DUST ACCUMULATIONS. AVOID BREATHING VAPORS. CONTAINER DISPOSITION: IF CONTAINER RETAINS PRODUCT RESIDUES, LABEL PRECAUTIONS MUST BE OBSERVED. STORE CONTAINER WITH CLOSURES IN PLACE. OFFER EMPTY CONTAINER TO RECONDI-TIONOR OR RECYCLER FOR RECONDITIONING OR DISPOSAL. ENSURE RECONDITIONER OR RECYCLER IS AWARE OF THE PROPERTIES OF THE CONTENTS. SPECIAL PRECAUTIONS: PRODUCT HAS A SHELF LIFE OF 36 MONTHS. \* \* \* \* \* \* \* \* \* \* SECTION X - TRANSPORTATION INFORMATION \* \* \* \* \* \* \* \* \* \* \* DOT SHIPPING DESCRIPTION: NOT RESTRICTED IATA SHIPPING DESCRIPTION: NOT RESTRICTED IMO SHIPPING DESCRIPTION: NOT RESTRICTED CAN SHIPPING DESCRIPTION: NOT RESTRICTED ADR SHIPPING DESCRIPTION: NOT RESTRICTED \* \* \* \* \* \* \* \* \* \* SECTION XI - ENVIRONMENTAL EVALUATION \* \* \* \* \* \* \* \* \* \* \* EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y FIRE: N CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY) NOT EVALUATED C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES) PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS) 107-21-1 11-30 % ETHYLENE GLYCOL E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES TSCA YES CEPA YES EEC N/D ACOIN N/D NPR NE DRSM NE F. EXTRACTION METAL AND TRACE CONTENTS

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	ARSENIC:	IN LIQUID	>	5 MG/L,	SOLID > 50	00 MG/KG	NOT	EVALUATED
	BARIUM :	IN LIQUID	>	100 MG/L,	SOLID > 10	0000 MG/KG	NOT	EVALUATED
	CADIUM:	IN LIQUID	>	1 MG/L,	SOLID > 10	00 MG/KG	NOT	EVALUATED
	CHROMIUM(VI):	IN LIQUID	>	5 MG/L,	SOLID > 50	00 MG/KG	NOT	EVALUATED
	CHROMIUM(III):				SOLID > 25	500 MG/KG	NOT	EVALUATED
	LEAD:			5 MG/L,	SOLID > 10		NOT	EVALUATED
	MERCURY:	IN LIQUID	>	0.2 MG/L,	SOLID > 20	000 MG/KG	NOT	EVALUATED
	SELENIUM:	IN LIQUID	>	1 MG/L,	SOLID > 10	00 MG/KG	NOT	EVALUATED
	SILVER:	IN LIQUID	>	5 MG/L,	SOLID > 50	00 MG/KG		EVALUATED
	ANTIMONY:	IN LIQUID	>	15 MG/L,	SOLID > 50	00 MG/KG	NOT	EVALUATED
	BERYLLIUM:	IN LIQUID	>	0.75 MG/L	, SOLID > 7	75 MG/KG	NOT	EVALUATED
	COBALT:	IN LIQUID	>	80 MG/L,	SOLID > 80	000 MG/KG	NOT	EVALUATED
	COPPER:	IN LIQUID	>	25 MG/L,	SOLID > 25	500 MG/KG	NOT	EVALUATED
	FLUORIDE:	IN LIQUID	>	180 MG/L,	SOLID > 18	8000 MG/KG	NOT	EVALUATED
	MOLYBDENUM:	IN LIQUID	>	350 MG/L,	SOLID > 35	500 MG/KG	NOT	EVALUATED
	NICKEL:	IN LIQUID	>	20 MG/L,	SOLID > 20	000 MG/KG	NOT	EVALUATED
	THALLIUM:	IN LIQUID	>	7 MG/L,	SOLID > 70	00 MG/KG	NOT	EVALUATED
	VANADIUM:	IN LIQUID	>	24 MG/L,	SOLID > 24	400 MG/KG	NOT	EVALUATED
	ZINC:			250 MG/L,			NOT	EVALUATED
	CYANIDE:			250 MG/L,			NOT	EVALUATED
	H2S:	IN LIQUID	>	500 MG/L,	SOLID > 50	DO MG/KG	NOT	EVALUATED
	ORGANO-TIN:	IN LIQUID		OR	SOLID > 10		NOT	EVALUATED
	ORGANO-PHOS:	-		OR	SOLID > 10		NOT	EVALUATED
	TIN:	IN LIQUID		OR	SOLID > 10	OO MG∕L	NOT	EVALUATED
	PERSISTENT ORGA			•	•			
	HALOGENS:	IN LIQUID		OR	SOLID > 10	DO MG/L	NOT	EVALUATED
C	OTHER COMPONENT	re						
G.	CONTAINS BENZEN						NO	
	CONTAINS DENZER						NO	
	CONTAINS YOLGON						NO	
	REPORTABLE SPII		. 1	OR BENZEN		VVIENE		APPLICABLE
	INDEDICATION STAT	DD QOMMIII		ON BENZEN	5, TODOBNE,	, AILENE	NOT	AFFUICADLE
н.	EPA - RCRA (HAZ	ZARDOUS WAS	STE	E), 40 CFR	261			
	IF PRODUCT BECC	OMES A WASI	ΓE,	IT DOES N	NOT MEET TH	HE CRITERIA	A OF	A
	HAZARDOUS WASTE	3						
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TOXICITY CATEGORY NOT EVALUATED 

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FRO VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT I GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR

CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY

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PAGE 6

OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSL PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

LOSURF-300 NONIONIC SURFACTANT - HAL-TANK PAGE 1 MATERIAL SAFETY DATA SHEET DATE: 07-22-98 HALLIBURTON ENERGY SERVICES REVISED DATE 06-14-9 DUNCAN, OKLAHOMA 73536 EMERGENCY TELEPHONE: 580/251-4689 OR 580/251-3569 AFTER HOURS: 580/251-3760 \* \* \* \* \* \* \* \* \* \* \* SECTION I - PRODUCT DESCRIPTION \* \* \* \* \* \* \* \* \* \* \* \* \* \* CHEMICAL CODE: LOSURF-300 NONIONIC SURFACTANT - HAL-TANK PART NUMBER: 51600179 PKG QTY: 330 GALLON TANK APPLICATION: NONEMULSIFIER SERVICE USED: STIMULATION \* \* \* \* \* \* \* \* \* \* \* SECTION II - COMPONENT INFORMATION \* \* \* \* \* \* \* \* \* \* \* \* PERCENT TLVPELISOPROPANOL 31-60 % 400 PPM 400 PPM AROMATIC SOLVENT 11-30 % 100 PPM 100 PPM 1-10 % 10 PPM 10 PPM NAPHTHALENE \* \* \* \* \* \* \* \* \* \* \* \* \* SECTION III - PHYSICAL DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* PROPERTY MEASUREMENT APPEARANCE AMBER LIQUID ODOR SOLVENT SPECIFIC GRAVITY (H2O=1) .910 BULK DENSITY 7.59 LB/GAL NOT DETERMINED PH SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H20 DISPERSES BIODEGRADABILITY N/D PERCENT VOLATILES 46-50 EVAPORATION RATE (BUTYL ACETATE=1) N/D VAPOR DENSITY N/D VAPOR PRESSURE (MMHG) N/D BOILING POINT (760 MMHG) N/D POUR POINT N/D FREEZE POINT N/D SOLUBILITY IN SEAWATER NOT EVALUATED PARTITION COEF (OCTANOL IN WATER) NOT EVALUATED \* \* \* \* \* \* \* \* \* \* SECTION IV - FIRE AND EXPLOSION DATA \* \* \* \* \* \* \* \* \* \* \* \* NFPA(704) RATING: HEALTH 1 REACTIVITY 0 FLAMMABILITY 4 SPECIAL NONE FLASH POINT 63 F / 17 C FLASH MTHD PMCC AUTOIGNITION TEMPERATURE ND ND FLAMMABLE LIMITS (% BY VOLUME) LOWER N/D UPPER N/D EXTINGUISHING MEDIA: USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE. SPECIAL FIRE FIGHTING PROCEDURES:

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PAGE 2

USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES. FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL. UNUSUAL FIRE AND EXPLOSION HAZARDS: MAY BE IGNITED BY HEAT, SPARKS, OR FLAMES. FIGHT FIRE FROM A SAFE DISTANCE AND FROM A PROTECTED LOCATION. HEAT MAY BUILD PRESSURE AND RUPTURE CLOSED CONTAINERS, SPREADING THE FIRE AND INCREASING THE RISK OF BURNS AND INJURIES. INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND NITROGEN OXIDES. \* \* \* \* \* \* \* \* \* \* \* \* SECTION V - HEALTH HAZARD DATA \* \* \* \* \* \* \* \* \* \* \* \* \* CALIFORNIA PROPOSITION 65: PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65. CARCINOGENIC DETERMINATION: PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH". PRODUCT TOXICITY DATA: AQU TLM96: 3.3-10 PPM(BROWN SHRIMP) PRODUCT TLV: NOT ESTABLISHED ----- EFFECTS OF EXPOSURE -----ROUTES OF EXPOSURE: EYE OR SKIN CONTACT, INHALATION. EYE: MAY CAUSE EYE IRRITATION. SKIN: FREQUENT OR PROLONGED CONTACT WILL DRY AND DEFAT THE SKIN, POSSIBLY LEADING TO IRRITATION AND DERMATITIS. REPEATED CONTACT MAY SENSITIZE THE SKIN. INHALATION: HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. THIS MAY BE EVIDENCED BY GIDDINESS, HEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS. VAPORS, MIST OR SPRAY MAY CAUSE IRRITATION. INGESTION: ASPIRATION INTO LUNGS BY INGESTION OR VOMITING, MAY CAUSE CHEMICAL PNEUMONITIS RESULTING IN EDEMA AND HEMORRAGE AND MAY BE FATAL. SYMPTOMS INCLUDE INCREASED RESPIRATORY RATE AND BLUISH DISCOLORATION OF SKIN. COUGHING AND GAGGING ARE OFTEN NOTED AT THE TIME OF ASPIRATION. CHRONIC EFFECTS: CHRONIC OVEREXPOSURE MAY CAUSE LIVER AND KIDNEY DISORDERS. OTHER SYMPTOMS AFFECTED: BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS. BREATHING OF VAPOR AND/OR MISTS MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE. ----- EMERGENCY AND FIRST AID PROCEDURES -------EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION. SKIN:

INHALATION:

CLOTHING BEFORE REUSE.

#### PAGE 3

PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING! ASPIRATION INTO LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS. \* \* \* \* \* \* \* \* \* \* \* \* SECTION VI - REACTIVITY DATA \* \* \* \* \* \* \* \* \* \* \* \* \* \* \* STABILITY: STABLE CONDITIONS TO AVOID: HEAT, SPARKS AND OPEN FLAME. INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZERS. HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND/OR CARBON DIOXIDE. HAZARD POLYMERIZATION: WON"T OCCUR CONDITIONS TO AVOID: NOT APPLICABLE. \* \* \* \* \* \* \* \* \* SECTION VII - SPILL OR LEAK PROCEDURES \* \* \* \* \* \* \* \* \* \* \* STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AREA AND STOP LEAK WHERE SAFE. REMOVE IGNITION SOURCES. CONTAIN AND ABSORB SPILL WITH SAND OR OTHER INERT MATERIAL. SCOOP OR SWEEP UP USING NON-SPARKING TOOLS. IN ENCLOSED AREAS, WEAR SELF-CONTAINED BREATHING APPARATUS. WASTE DISPOSAL METHOD: GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE. \* \* \* \* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \* \* RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT): ORGANIC VAPOR CARTRIDGE RESPIRATOR WITH A FULL FACEPIECE. VENTILATION: USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION. LOCAL EXHAUST VENTILATION MUST BE DESIGNED FOR EXPLOSIVE ATMOSPHERES (NEC CLASS I EQUIPMENT). PROTECTIVE GLOVES: IMPERVIOUS RUBBER GLOVES. EYE PROTECTION: GOGGLES AND/OR FACE SHIELD. OTHER PROTECTIVE EQUIPMENT: RUBBER APRON TO PREVENT DIRECT SKIN CONTACT. \* \* \* \* \* \* \* \* \* \* \* \* SECTION IX - SPECIAL PRECAUTIONS \* \* \* \* \* \* \* \* \* \* \* \*

IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. SEEK MEDICAL ATTENTION. WASH

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION,

PN: 516001790

PRECAUTIONARY LABELING LOSURF-300 NONIONIC SURFACTANT - HAL-TANK516.001790 WARNING! MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. MAY CAUSE EYE IRRITATION. MAY CAUSE DEFATTING OF SKIN WHICH MAY LEAD TO IRRITATION OR DERMATITIS. FLAMMABLE! FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII. OTHER HANDLING AND STORAGE CONDITIONS: STORE AWAY FROM OXIDIZERS. KEEP FROM HEAT, SPARKS, AND OPEN FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. AVOID BREATHING VAPORS. CONTAINER DISPOSITION: EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING LANDFILL OPERATOR'S AUTHORIZATION. \* \* \* \* \* \* \* \* \* \* SECTION X - TRANSPORTATION INFORMATION \* \* \* \* \* \* \* \* \* \* DOT SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S. - 3 - UN1993 - II (CONTAINS ISOPROPANOL) IATA SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S. - 3 - UN1993 - II (CONTAINS ISOPROPANOL) IMO SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S. (CONTAINS ISOPROPANOL) -CLASS 3.2 - UN1993 - II (16'C) MDG PAGE 3230 CAN SHIPPING DESCRIPTION: FLAMMABLE LIQUID, N.O.S. - CLASS 3 - UN1993 - II (CONTAINS ISOPROPANOL) ADR SHIPPING DESCRIPTION: 1993 FLAMMABLE LIQUID, N.O.S. - 3, ITEM 3(B) - ADR (CONTAINS ISOPROPANOL) \* \* \* \* \* \* \* \* \* \* SECTION XI - ENVIRONMENTAL EVALUATION \* \* \* \* \* \* \* \* \* \* EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y FIRE: Y CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY) N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)

PN: 516001790

PAGE 5

PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS) ISOPROPANOL 67-63-0 31-60 % NAPHTHALENE 91-20-3 1-10 % E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES CEPA NE EEC N/D TSCA YES ACOIN N/D NPR NE DRSM NE F. EXTRACTION METAL AND TRACE CONTENTS ARSENIC: IN LIQUID > 5 MG/L, SOLID > 500 MG/KG NO IN LIQUID > 100 MG/L, SOLID > 10000 MG/KG NO BARIUM : CADIUM: IN LIQUID > 1 MG/L, SOLID > 100 MG/KG NO CHROMIUM(VI): IN LIQUID > 5 MG/L, SOLID > 500 MG/KG NO CHROMIUM(III): IN LIQUID > 560 MG/L, SOLID > 2500 MG/KG NO IN LIQUID > 5 MG/L, SOLID > 1000 MG/KG LEAD: NO MERCURY: IN LIQUID > 0.2 MG/L, SOLID > 2000 MG/KG NO SELENIUM: IN LIQUID > 1 MG/L, SOLID > 100 MG/KG NO IN LIQUID > 5 MG/L, SOLID > 500 MG/KG SILVER: NO ANTIMONY: IN LIQUID > 15 MG/L, SOLID > 500 MG/KG NO IN LIQUID > 0.75 MG/L, SOLID > 75 MG/KG BERYLLIUM: NO COBALT: IN LIQUID > 80 MG/L, SOLID > 8000 MG/KG NO COPPER: IN LIQUID > 25 MG/L, SOLID > 2500 MG/KG NO FLUORIDE: IN LIQUID > 180 MG/L, SOLID > 18000 MG/KG NO IN LIQUID > 350 MG/L, SOLID > 3500 MG/KG MOLYBDENUM: NO NICKEL: IN LIQUID > 20 MG/L, SOLID > 2000 MG/KG NO IN LIQUID > 7 MG/L, SOLID > 700 MG/KG THALLIUM: NO VANADIUM: IN LIQUID > 24 MG/L, SOLID > 2400 MG/KG NO IN LIQUID > 250 MG/L, SOLID > 5000 MG/KG ZINC: NO CYANIDE: IN LIQUID > 250 MG/L, SOLID > 250 MG/KG NO IN LIQUID > 500 MG/L, SOLID > 500 MG/KG H2S: NO IN LIQUID OR SOLID > 100 MG/L ORGANO-TIN: NO IN LIQUID OR SOLID > 100 MG/LORGANO-PHOS: NO IN LIQUID OR TTN: SOLID > 100 MG/L NO PERSISTENT ORGANO-HALOGENS: IN LIQUID OR SOLID > 100 MG/L NO G. OTHER COMPONENTS CONTAINS BENZENE NO CONTAINS TOLUENE NO CONTAINS XYLENE NO REPORTABLE SPILL QUANTITY FOR BENZENE, TOLUENE, XYLENE NOT APPLICABLE H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261 IF PRODUCT BECOMES A WASTE, IT DOES MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED BY US EPA BECAUSE OF: IGNITABILITY

I. UNITED KINGDOM - DOE (CHEMICAL NOTIFICATION SCHEME) TOXICITY CATEGORY NOT EVALUATED

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THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FRO VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT I GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSL PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

District 1 - (505) 393-6161       New Mexico         Rio Baszos Road       Energy Minerals and Natural Resource         Oil Conservation Division       Oil Conservation Division         Otic III - (505) 334-6178       2040 South Pacheco Street         Nico Brazos Road       Santa Fe, New Mexico 87505         NM 87410       (505) 827-7131	•
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 1. RCRA Exempt: 1. RCRA Exempt:	4. Generator PESCO
Verbal Approval Received: Yes 🔀 No 🛄	5. Originating Site Hara Yared
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotaly
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Maxico
7. Location of Material (Street Address or ULSTR)	5680 45. HWY 64 FARMINGTON, NM 87410
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accondentator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accondentation of the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Solibs generated from cleaning production storage trades, separators, delivered are only those consigned.</li> </ul>	for transport.
Estimated Volume ( © cy Known Volume (to be entered by the ope	rator at the end of the haul) $-\frac{1113}{3}$ cy
SIGNATURE: Waste Management FacilityAuthonized Agent Waste Management FacilityAuthonized Agent TYPE OR PRINT NAME: Harlan M. Brown TELE	anager DATE: <u>/२./५.११</u> EPHONE NO. 505-632-0615
(This space for State Use) APPROVED BY: DEMY 2. Fand TITLE: Feolog APPROVED BY: Chali Torr TITLE: <u>Delvty</u>	DATE: 12/16/99 DATE: 12/16/99 DATE: 12/16/99

Jn: 92142

### **CERTIFICATE OF WASTE STATUS**

2. Destination Name:
Envirotech Soil Remediation Facility
Landfarm #2
Hilltop, New Mexico
Location of the Waste (Street address &/or ULSTR);
Mainyard, stored in 55 gallon drums
& 18 Cubic Foot Steel Boxes.
· ·
refurbishing production storage tanks,
production equipment.
· · ·
· · · · ·
representative for:
y, Inc. do hereby certify that,
ery Act (RCRA) and Environmental Protection Agency's July,
Waste is: (Check appropriate classification)
MPT oilfield waste which is non-hazardous by characteristic
or by product identification
on-exempt non-hazardous waste defined above.
on-exempt non-hazardous waste defined above.
on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): Other (description):
mentation is attached (check appropriate items):
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mentation is attached (check appropriate items): Other (description):
mentation is attached (check appropriate items): Other (description):
mentation is attached (check appropriate items): Other (description):
mentation is attached (check appropriate items):
mentation is attached (check appropriate items): Other (description):
mentation is attached (check appropriate items): Other (description):



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### Process Equipment & Service Company, Inc.

5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 • 87499 FARMINGTON, NEW MEXICO PHONE: (505) 327-2222 • FAX: (505) 327-7550

#### NORM SURVEY DATA SHEET

Facility / location: Pesco	Date: 12-7-99
Meter Model: DOSIMETER 3007A Serial No:	9808-238
Detector Model: DOSIMETER 3012 Serial No: 2	201-887-7100
Calibration Date: 4-5-99	
Battery Check: ( )	
Background Radiation Level: 0.03 mR/hr	
Description of material surveyed: Solid WASTE MATER	L(A
Item / Materia	l Surveyed:
Waste Material:approx. gals Equipment: Manufacturer:N/A	mR/hr: 0-03
Serial No: NA	
Description: N/A	
Job No: 1/A	
Comments: 14 ContAINERS	

Survey Conducted by: (Print Name) (Signature) (Signature)

Distric: I - (505) 393-6161       New Mexico         P. O. Box, 3500       Hot %, NM 88241-1980         Hot %, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         P' trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	DEC 2 2 1999 USubmit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Reviewed & Approved by RA & DF. 16:15	4. Generator VASTAR Resources
Verbal Approval Received: Yes No Z (2.14.99) Envirotech Soil Remedia.	5. Originating Site Locations
2. Management Facility Destination Facility Landfarm #2 5796 US Highway 64	6. Transporter Easistate
3. Address of Facility Operator Farmington, NM 87401	8. State Colorado > Non Hopic
7. Location of Material (Street Address or ULSTR)	SER ATTACHER CUS.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept on exempt wastes must be accept on exempt wastes must be accept proved to accept non-exempt wastes must be accept proved.</li> <li>B. All requests for approval to accept non-exempt wastes must be accept proved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Cleanup of soil contructed with a contracted wit</li></ul>	mpanied by necessary chemical analysis to in of origin. No waste classified hazardous by if for transport. If or transport. If a compressor luke If 1999 INTO DINTO Multed Medivered hand delivered
SIGNATURE: Harlan M. Brown TITLE: Landfarm M. TYPE OR PRINT NAME:	anager DATE: 12.13.99 EPHONE NO. 505-632-0615
(This space for State Use) APPROVED BY: Demy G. Ferry TITLE: Feolog APPROVED BY: Tom Composed TITLE: Funde	<u>DATE: 12/16/97</u> <u>Lan Chill</u> DATE: 12/20/97

12-14-99;12:25PM;ENVIROTECH	;5056321865	<b>#</b> 2/2
Intrip. 1 (505) 393-6161       New Mexico         D. Box (980       Energy Minerals and Natural Resource         bbs, NM 88241-1980       Energy Minerals and Natural Resource         inter II - (505) 748-1283       Oil Conservation Division         S. First       2040 South Pacheco Street         wis, NM 88210       Santa Fe, New Mexico 8750.         Y Rio Brazos Road       (505) 827-7131	DEC 17 1999	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: D Non-Exempt:	4. Generator VASTA	2 Resource
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Lo	Dus cations
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Exu;	stach
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State South un ut	e -> Klaw & ( so
7. Location of Material (Street Address or ULSTR)	SEE ATTA color	CWS.
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be acc PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned	on of origin. No waste classified	
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accept ROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Cleanup of soil continuated with the solution of the soil continuated with the solution.</li> </ul>	on of origin. No waste classified	I hazardous by
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accept ROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Cleanup of soil continuated with the solution of the soil continuated with the solution.</li> </ul>	th wased compared	I hazardous by
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<ul> <li>B. All requests for approval to accept non-exempt wastes must be accept ROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned and the Generator's certification of the second are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Clean up of Soil Contentionated with a contentionated with a content of the second are only those consigned and the generator's certification of the second are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Clean up of Soil Contentionated with a content of the second are only those consigned and the second are only those consigned are only those consigned are only those consigned are only those consigned and the second are only those consigned are only those consigned</li></ul>	on of origin. No waste classified d for transport. th used compose ECEIVED DEC 2 U 1999 DEC 2 U 1999 DEC 2 U 1999 DEC 3 DEC 3	Thazardous by
B. All requests for approval to accept non-exempt wastes must be accept non-exempt wastes certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned and only those consigned are only those consigned and the generator's certification listing or testing will be approved. BRIEF DESCRIPTION OF MATERIAL: Clean up of soil continuated with a conti	on of origin. No waste classified d for transport. th used components DEC 2 U 1999 DEC 3 DEC	$\frac{1}{2 \cdot 13 \cdot 79}$

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Diartic: 1 - (505) 393-6161       New Mexico         P. O. Sox 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         District II - (505) 334-6178       2040 South Pacheco Street         Tresia, NM 88210       Santa Fe, New Mexico 87505         Virict III - (505) 334-6178       Santa Fe, New Mexico 87505         Rio Brazos Road       (505) 827-7131	ON Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Reviewed Approved by RA & DF. 16:15	4. Generator VASTAR Resources
Verbal Approval Received:YesNoYes2. Management Facility DestinationEnvirotech Soil Remedia. Facility Landfarm #2	5. Originating Site Locations
2. Management Facility DestinationFacility Landfarm #23. Address of Facility Operator5796 US Highway 64 Farmington, NM 87401	6. Transporter Easisisofach, 8. State Southamutre Colorado Thankopico
7. Location of Material (Street Address or ULSTR)	SEE ATTA CHEd CWS.
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Cleanup of soil contantiated with oil.	for transport.
Estimated Volume (60 cm cy Known Volume (to be entered by the ope	prator at the end of the haul) cy
SIGNATURE: Harlan M. Brown TITLE: Landfarm M. TYPE OR PRINT NAME: Harlan M. Brown TELL	anager DATE: <u>۱۲۰۱۵،۹۹</u> EPHONE NO. 505-632-0615
(This space for State Use) APPROVED BY: Demp & Fam TITLE: Geolog	
APPROVED BY: TITLE:	DATE:



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (506) 334-5178 Fax (505)334-5170

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Västar Resources, Inc.	Envirotech Inc.
115375 Memorial Drive	
Houston, TX 77079	Soil Remediation Remediation Facility
	Landfarm #2, Hilltop, New Mexico
3. Originating Site (name):	5796 US Hwy 64, Farmington, NM 87401 Location of the Waste (Street address &/or ULSTR):
$\int \frac{1}{2} \int $	T-32N, R-10W) and Well site 17-3; 32-9
(SE/4, SW/4, Sec. 17, T-32N, R-9W)	
Southern Ute Indian Reservation	
La Plata County, Colorado Attach list of originating sites as appropriate	
4. Source and Description of Waste	····
4. Source and Description of Waste	
Soil contaminated with used compressor	engine lubricating oil.
L Margaret M. Obluda	representative for:
(Print Name)	
(Print Name) Vastar Resources, Inc.	do hereby certify that,
Vastar Resources, Inc.	
Vastar Resources, Inc.	y Act (RCRA) and Environmental Protection Agency's July,
Vastar Resources, Inc. according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
Vastar Resources, Inc. according to the Resource Conservation and Recover 1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July,
Vastar Resources, Inc. according to the Resource Conservation and Recover 1988, regulatory determination, the above described v EXEMPT oilfield waste X NON-EXEM	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification)
Vastar Resources, Inc. according to the Resource Conservation and Recover 1988, regulatory determination, the above described v EXEMPT oilfield waste X NON-EXEM	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic
Vastar Resources, Inc. according to the Resource Conservation and Recover 1988, regulatory determination, the above described v EXEMPT oilfield waste X NON-EXEM analysis or	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification
Vastar Resources, Inc. according to the Resource Conservation and Recover 1988, regulatory determination, the above described v EXEMPT oilfield waste X NON-EXEM	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification
Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above.
Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items):
Vastar Resources, Inc. according to the Resource Conservation and Recover 1988, regulatory determination, the above described v EXEMPT oilfield waste X NON-EXEM analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentat MSDS Information	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above.
Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items):
Vastar Resources, Inc. according to the Resource Conservation and Recover 1988, regulatory determination, the above described v EXEMPT oilfield waste X NON-EXEM analysis or and that nothing has been added to the exempt or nor For NON-EXEMPT waste the following documentat MSDS Information	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items):
Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items):
Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items): X Other (description): TCLP
Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items):
Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items): X Other (description): TCLP
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Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items): X Other (description): TCLP
Vastar Resources, Inc.         according to the Resource Conservation and Recover         1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, vaste is: (Check appropriate classification) PT oilfield waste which is non-hazardous by characteristic by product identification -exempt non-hazardous waste defined above. ion is attached (check appropriate items): X Other (description): TCLP

Title: Environmental Coordinator

Date: 12/6/99



### SOUTHERN UTE INDIAN TRIBE

December 9, 1999

Margaret M. Obluda Environmental Coordinator Vastar Resources, Inc. 15375 Memorial Drive Houston, TX 77079

Re: Tribal Notification of Transportation of Non-exempt Oil Field Waste 60 cubic yards of non-exempt, oil contaminated soil Vastar Resources, Inc., Treating Site 17-B, NENE Sec. 3 T32N R10W, Wellsite 17-3; 32-9, SESW Sec. 17 T32N R9W

Dear Ms, Obluda:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transport of 60 cubic yards of contaminated soil of RCRA non-exempt oil from the above referenced sites to a land farm in New Mexico. It is our understanding that the contaminated soil will be transported to Envirotech's landfarm in New Mexico.

Certification may be required by the state in New Mexico Oil Conservation Commission (NMOCCD) from your company, the transporter or generator. Transportation of this waste may be subject to other state and federal laws.

Sincerely,

hery A. Wescamp Cheryl L. Wiescamp

Cheryl L. Wiescamp Division Head Environmental Programs

# ENVIRO CCH LABS

November 29, 1999

Mr. Ross Kennemer Animas Environmental Services P.O. Box 5314 Farmington, NM 87499

Project No.: 908301

Dear Mr. Kennemer,

Enclosed is the analytical result for the sample collected from the location designated as "Vastar Resources Treatment Plant 7B and Southern Ute 17-3; 32-9 Composite". One soil sample was collected on 11/19/99, and received by the Envirotech laboratory on 11/22/99 for TCLP W/O Herbicides and Pesticides.

The samples were documented on Envirotech Chain of Custody No. 7574 and assigned Laboratory No. G493 (Excavated Soils) for tracking purposes.

The samples were analyzed 11/22/99 thru 11/24/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.** 

mistin M Walter

Christine M. Walters Laboratory Coordinator / Environmental Scientist

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CMW/cmw

C:/files/labreports/animas.wpd

# ENVIROTECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client	Animas Env. Serv.	Project #:	·908301
Sample ID:	Excavated Soils	Date Reported:	11-22-99
Lab ID#:	G493	Date Sampled:	11-19-99
Sample Matrix:	Soil	Date Received:	11-22-99
Preservative:	Cool	Date Analyzed:	11-22-99
Condition:	Cool and Intact	Chain of Custody:	7574
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 8.25	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criteria			
Parameter	Hazardous Waste Criterior	ı	
IGNITABILITY:		v as defined by 40 CFR, Subpart C, Sec direct contact with flame or flash point <	
CORROSIVITY:		y as defined by 40 CFR, Subpart C, Sec to 2.0 or pH greater than or equal to 12.	
REACTIVITY:	(i.e. Violent reaction with w	as defined by 40 CFR, Subpart C, Sec vater, strong base, strong acid, or the ge gases at STP with pH between 2.0 and	eneration
Reference:	40 CFR part 261 Subpart (	C sections 261.21 - 261.23, July 1, 199	2.
Comments:	Vastar Resources Tr	eatment Plant 7B and	

Vastar Resources Treatment Plant 7B and Southern Ute 17-3; 32-9 Composite.

Analyst

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## ENV ROTECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soils	Date Reported:	11-24-99
Laboratory Number:	G493	Date Sampled:	11-19-99
Chain of Custody:	7574	Date Received:	11-22-99
Sample Matrix:	TCLP Extract	Date Extracted:	11-22-99
Preservative:	Cool	Date Analyzed:	11-24-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0002	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0021	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	98%
		Bromofluorobenzene	99%
References:		Characteristic Leaching Procedure, SV	V-846, USEPA, July 1992.
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.		
Method 8010, Halogenated Volatile		ated Volatile Organic, SW-846, USEPA	A, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	Sept. 1994.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C section	on 261.24, July 1, 1992.
Comments:	Vastar Resources	Treatment Plant 7B and	
	Southern Ute 17-3	· 32-9 Composite	

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### ENVIROTECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS

Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soils	Date Reported:	11-24-99
Laboratory Number:	G493	Date Sampled:	11-19-99
Chain of Custody:	7574	Date Received:	11-22-99
Sample Matrix:	TCLP Extract	Date Extracted:	11-22-99
Preservative:	Cool	Date Analyzed:	11-24-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

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Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

Surrogate Recoveries:		Parameter		Percent Recovery
		2-Fluoropher 2,4,6-Tribrom		98% 99%
References:		, Toxicity Characteristic 46, USEPA, July 1992.	-	st Methods for Evaluating Solid
		), Separatory Funnel Lic 346, USEPA, July 1992.		est Methods for Evaluating Solid
	Method 8040	), Phenols, Test Method	ds for Evaluating Solid Wa	aste, SW-846, USEPA, Sept. 1986.
Note:	Regulatory L	imits based on 40 CFR	part 261 subpart C section	on 261.24, July 1, 1992.
Comments:		sources Treatmen Ute 17-3; 32-9 Con		
Analyst	L Oej.	<u>uu</u>	Review	tini M Walters

## Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soits	Date Reported:	11-24-99
Laboratory Number:	G493	Date Sampled:	11-19-99
Chain of Custody:	7574	Date Received:	11-22-99
Sample Matrix:	TCLP Extract	Date Extracted:	11-22-99
Preservative:	Cool	Date Analyzed:	11-23-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.
	Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: Vastar Resources Treatment Plant 7B and Southern Ute 17-3; 32-9 Composite.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

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Client:	Animas Env. Serv.	Project #:	908301
Sample ID:	Excavated Soils	Date Reported:	11-23-99
Laboratory Number:	G493	Date Sampled:	11-19-99
Chain of Custody:	7574	Date Received:	11-22-99
Sample Matrix:	TCLP Extract	Date Analyzed:	11-23-99
Preservative:	Cool	Date Extracted:	11-22-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory Level
	Concentration	Limit	
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	ND	0.001	5.0
Barium	1.74	0.001	21
Cadmium	ND	0.001	0.11
Chromium	ND	0.001	0.60
Lead	0.028	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.001	0.14

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.
	Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.
	Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission SW-846, USEPA. December 1996.
Note:	Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.
Comments:	Vastar Resources Treatment Plant 7B and Southern Ute 17-3; 32-9 Composite.
Analyst	C. aferra (Mistin M Walton Review



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### **QUALITY ASSURANCE / QUALITY CONTROL**

### DOCUMENTATION

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	11-24-99
Laboratory Number:	11-24-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-24-99
Condition:	N/A	Analysis Requested:	TCLP

		Detection	Regulatory Limits (mg/L)
	Concentration	Limit	
Parameter	(mg/L)	(mg/L)	
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

QA/QC Accep	tance Criteria	Parameter	Percent Recovery	
		Trifluorotoluene	100%	
		Bromofluorobenzene	100%	
References:		Characteristic Leaching Procedure, SW	V-846, USEPA, July 1992.	
		0, Purge-and-Trap, SW-846, USEPA, July 1992. 0, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.		
		Volatile Organics, SW-846, USEPA, S	•	
Note:	Regulatory Limits base	bry Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		
Comments:	QA/QC for sample G493.			

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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	11-24-99
Laboratory Number:	11-22-TCLP Vol	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	• N/A	Date Analyzed:	11-24-99
Condition:	N/A	Date Extracted:	11-22-99
		Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery		
		Trifluorotoluene 99%			
		Bromofluorobenzene	98%		
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, SW-	-846, USEPA, July 1992.		
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.				
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA,	Sept. 1994.		
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.		
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.				
Comments:	QA/QC for sample	G493.			

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplic	ate	Date Reported:	11-24-99
Laboratory Number:	G493		Date Sampled:	N/A
Sample Matrix:	TCLP Extract	t	Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	11-24-99
Condition:	N/A		Date Extracted:	11-22-99
		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0002	0.0002	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0021	0.0021	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachioroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

Jem F. ajenn Analyst

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# ENVIROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	11-24-99
Laboratory Number:	G493			Date Sample		N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	11-24-99
Condition:	N/A			Date Extracte	ed:	N/A
			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0002	0.050	0.0497	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0021	0.050	0.0519	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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# - NVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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#### EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Analytical Results		Detection	Regulatory
Condition:	N/A	Analysis Requested:	TCLP
Preservative:	N/A	Date Analyzed:	11-24-99
Sample Matrix:	2-Propanol	Date Received:	N/A
Laboratory Number:	11-24-TCA	Date Sampled:	N/A
Sample ID:	Laboratory Blank	Date Reported:	11-24-99
Client:	QA/QC	Project #:	N/A

Analytical Robbits	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G493.

en L. Certeren Analyst

Mistin M Walters

## ENV ROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	11-24-99
Laboratory Number:	11-22-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	11-22-99
Condition:	Cool & Intact	Date Analyzed:	11-24-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

Surrogate Recoveries:		Parameter	Percent Recovery
		2-Fluorophenol 2,4,6-Tribromophenol	98% 99%
References:		t, Toxicity Characteristic Leaching Procedur 846, USEPA, July 1992.	re Test Methods for Evaluating Solid
		0, Separatory Funnel Liquid-Liquid Extractio 846, USEPA, July 1992.	on, Test Methods for Evaluating Solid
	Method 8040	), Phenols, Test Methods for Evaluating So	lid Waste, SW-846, USEPA, Sept. 1986.
Note:	Regulatory L	imits based on 40 CFR part 261 subpart C	section 261.24, July 1, 1992.
Comments:	QA/QC fo	r sample G493.	
$\cap$	0		

Alem L. aferra Analyst

<u>Anistine of Walters</u> Review

## ENVIROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS Quality Assurance Report

		•		_
Client:	QA/QC	Project #:	N/A	
Sample ID:	Matrix Duplicate	Date Reported:	11-24-99	
Laboratory Number:	G493	Date Sampled:	N/A	
Sample Matrix:	TCLP Extract	Date Received:	N/A	
Preservative:	Cool	Date Extracted:	N/A	
Condition:	Cool & Intact	Date Analyzed:	11-24-99	
		Analysis Requested:	TCLP	

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference	
o-Cresol	ND	ND	0.020	0.0%	
p,m-Cresol	ND	ND	0.040	0.0%	
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%	
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%	
Pentachlorophenol	ND	ND	0.020	0.0%	

QA/QC Accep	tance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	Characteristic Leaching Procedure Test	Methods for Evaluating Solid
	Method 3510, Separato Waste, SW-846, USEPA	ry Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Wash	e, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based	I on 40 CFR part 261 subpart C section	261.24, July 1, 1992.
Comments:	QA/QC for sample	C 402	

Den R. aferra

Mistin M Waltus Review

## ENVIRO ECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

.

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	11-24-99
Laboratory Number:	11-23-TCBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	11-23-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)	
Pyridine	ND	0.020	5.0	
Hexachloroethane	ND	0.020	3.0	
Nitrobenzene	ND	0.020	2.0	
Hexachlorobutadiene	ND	0.020	0.5	
2,4-Dinitrotoluene	ND	0.020	0.13	
HexachloroBenzene	ND	0.020	0.13	

QA/QC Accept	ance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	99%
References:	Method 3510, Separate	Characteristic Leaching Procedure, S ory Funnel Liquid-Liquid Extraction, S matics and Cyclic Ketones, SW-846,	W-846, USEPA, July 1992.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.
Comments:	QA/QC for sample	G493.	

en f. aferen Analyst

Mistin M Walters Review

# ENVIROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QAVQC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	11-24-99
Laboratory Number:	11-22-TCBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	11-22-99
Condition:	Cool and Intact	Date Analyzed:	11-23-99
		Analysis Requested:	TCLP
		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	• ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	nce Criteria Parameter		Percent Recovery	
		2-fluorobiphenyl	98%	
References:	Method 1311, Toxicity Characteristic Leaching Procedu Method 3510, Separatory Funnel Liquid-Liquid Extracti		•	
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.	
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.	

Comments:

Den L. ajenen Analyst

Christini M Watters

# ENVIROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

0.0%

0.0%

0.0%

0.0%

0.020

0.020

0.020

0.020

Pyridine Hexachloroethane	ND ND	ND ND	0.0% 0.0%	0.020 0.020
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)
	Result	Result	Percent	Limit
	Sample	Duplicate		Det.
		Analysis Reques	sted:	TCLP
Condition:	N/A	Date Analyzed:		11-23-99
Preservative:	N/A	Date Extracted:		11-22-99
Sample Matrix:	TCLP Extract	Date Received:		N/A
Laboratory Number:	G493	Date Sampled:		N/A
Sample ID:	Matrix Duplicate	Date Reported:		11-24-99
Client:	QA/QC	Project #:		N/A

ND

ND

ND

ND

ND

ND

ND

ND

ND - Parameter not detected at the stated detection limit.

A/QC Acceptance Criteria		Parameter	Maximum Difference
		8090 Compounds	30%
References:	Method 1311, Toxicity Characteristic Leaching Procedure,		W-846, USEPA, July 1992.
	Method 3510, Separate	bry Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sect	iion 261.24, July 1, 1992.

Comments:

Nitrobenzene

Hexachlorobutadiene

2,4-Dinitrotoluene

HexachloroBenzene

P. ajenan

<u>Anistini Maeters</u> Review

### FNVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Spike		Spike Added	Sampli Martines	Spiked Sample			Acceptances Range
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	0.028	0.029	3.6%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.74	1.71	1.7%	0% - 30%
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Blank & Duplicate	nstrumen Blank	Method Blank	Detectio	n Sample	i Duplicate	⊑% Diff. <sup>t</sup> ∵	Acceptance Range
Condition:		N/A		Date Extra	acted:		N/A
Analysis Requested:		TCLP Meta	als	Date Ana	lyzed:		11-23-99
Sample Matrix:		TCLP Extra	act	Date Rec	eived:		N/A
Laboratory Number:		G493		Date Sam	pled:		N/A
Sample ID:		11-23-TCM	1 QA/QC	Date Rep	orted:		11-24-99
Client:		QA/QC		Project #:			N/A

Algenie	0.000			•••••	
Barium	1.00	1.74	2.73	99.6%	80% - 120%
Cadmium	0.250	ND	0.250	100.0%	80% - 120%
Chromium	0.250	ND	0.251	100.4%	80% - 120%
Lead	0.250	0.028	0.277	99.6%	80% - 120%
Mercury	0.125	ND	0.124	99.2%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.250	ND	0.250	100.0%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission, SW-846, USEPA, December 1996.

Comments:

Analyst

/ Mistin M Daeters Review

### CHAIN OF CUSTODY RECORD

Client / Project Name Animas EnJ.	Serv.		Project Location Transment	Uastu Amt7B	r Reson	2+12				,	ANALYS	IS / PAR	AMETER	IS			
Sampler: Rass Kun	Southurn WEE 17-3; 32-9 Composite			2		Г	r	<u> </u>									
Dampici. Faits (1000			9083	<u></u>			of ners	1 4							emarks		
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		No. of Containers	ACLP Co H & P							· · · · ·		
Excavited soils	11-19-99		G493	Soi			ح	/									
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														·			
							•										
linguished by: (Signatu			_	Date /	Time 0950	Receive			ire)	•					Date 2 <i>3 · 9</i> f	1	ime :SO
Relinquished by: (Signatu	ure)			0450	. (	Receive	<u>n7</u> d by: (	(Signatu	ire)		-,- <b>-</b> · · · ·	<u></u>				07	30
Relinquished by: (Signatu	(re)	<u> </u>				Receive	dbr	(Signati									
Theimquistied by. (bigitate	16)					neceive	u by. (	Gignatt	11 <del>0</del> )								
				ENV	IRO	TFC	'H	In	<b>C</b>	<u> </u>				Sample f	leceipt		
															Y	N	N/A
<b>7</b>					5796 U.S inaton, N				1				Rece	ived Intact		1	
~~				Farmington, New Mexico 87401 (505) 632-0615				Cool -	ice/Blue ice								

7574

District I - (505) 393-6161 P. O foor 1980 Hobbs. NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P' trict III - (505) 334-6178 Vito Brazos Road Arcs, NM 87410 District IV - (505) 827-7131 District IV - (505) 827-7131 District IV - (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	'SOLID WASTE
1. RCRA Exempt: Non-Exempt: 2	4. Generator E.P.F.S.
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Charles Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Ewvirotal
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Mayol co
7. Location of Material (Street Address or ULSTR)	Sec 16, TZGN, RIZED SJC. NW.
9. <u>Circle One</u> :	
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be according proved the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Lube cil Contamination Society Societ	on of origin. No waste classified hazardous by
Environmental Bureau Oil Conservation Division Estimated Volume(00 cy Known Volume (to be entered by the ope	17,1
GNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm M Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	DATE:     (2.15.99)       EPHONE NO.     505-632-0615
(This space for State Use) APPROVED BY: Demy 2, Paint TITLE: (-ec/cc) APPROVED BY: P. M. S. P.	DATE: 12/16/99 1. 20/97

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P' trict III - (505) 334-6178 Nito Brazos Road Artesia, NM 87410 District IY - (505) 827-7131 New Mexico Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	n Submit Origina
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator E.P.F.S.
Verbal Approval Received: Yes 🛄 No 属	5. Originating Site Cho-co Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eavirated
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Majol co
7. Location of Material (Street Address or ULSTR)	Sac 16, 726 N, RIZW SJK. NM.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept accept accept on exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>(ubse oil contamine to Soil</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by
SIGNATURE: <u>Harlan</u> M. Brown	erator at the end of the haul) cy Manager DATE: $(2 \cdot 1 \leq \cdot 99)$ , LEPHONE NO
(This space for State Use) APPROVED BY: Demy & Title: Geolo APPROVED BY: TITLE:	DATE: 12/16/99 DATE:

### **CERTIFICATE OF WASTE STATUS**

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1 0	Avelan Nama and A. ( )	
1. Gen	erator Name and Address:	2. Destination Name:
	El Paso Field Services Co.	Envirotech Soil Remediation Facility
	614 Reilly Avenue	Landfarm #2
	Farmington, NM 87401	Hilltop, New Mexico
3. Orig	Inating Site (name):	Location of Waste(Street address &/or ULSTR):
Chaco F	Plant	Section 16, T26N, R12W, San Juan Co., NM
	list of originating sites as appropriate	
4. Soui	rce and Description of Waste	
Soll con	taminated with lubricating oil	
l,	David Bays	representative for:
	(Print Name)	
	El Paso Field Services	Co. do hereby certify that,
accordir	ig to the Resource Conservation and Reco	overy Act (RCRA) and Environmental Protection Agency's July,
1300 10	gulatory determination, the above describe	Waste IS. (Check appropriate classification)
E	XEMPT Oilfield waste X NC	DN-EXEMPT oilfield waste which is non-hazardous by
·······		aracteristic analysis or by product identification
and that	nothing has been added to the exempt or	non-hazardous waste defined above.
For NO	I-EXEMPT waste only, the following docur	nentation is attached (check appropriate items):
	MSDS Information	Other (description)
	X RCRA Hazardous Waste A	
	Chain of Custody	
Name	(Original Signature):	L' Bay
Title:	Principal E	nvironmental Scientist
i lue.		
Date:	December	15, 1999

### 

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

October 25, 1999

Mr. John Lambdin El Paso Field Services P.O. Box 4990 Farmington, New Mexico 87499

> Project No.: 97057 Job No.: 705717

Dear John,

Enclosed are the analytical results for the sample collected from the location designated as "Chaco Plant". One soil sample was collected by Envirotech personnel on 09/30/99, and received by the Envirotech laboratory on 09/30/99 for Hazardous Waste Characterization analysis (TCLP Volatiles, Semi-volatiles, Trace Metals, Ignitability, Reactivity and Corrosivity).

The sample was documented on Envirotech Chain of Custody No. 7409 and assigned Laboratory No. G132 (SS-1) for tracking purposes.

The sample was extracted on 10/01/99 and analyzed 10/01/99 through 10/22/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted, **Envirotec**, **Inc.** 

Staby W. Seridler Environmental Scientist/Laboratory Manager

enc.

SWS\sws

97057-17.lb1/wpd

### ENVIROTECI **ABS**

#### PRACTICAL SOLUTIONS FOR A BETTLER TOMOBROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	705717 10-01-99
Lab ID#:	G132	Date Reported: Date Sampled:	09-30-99
Sample Matrix:	Soil	Date Received:	09-30-99
Preservative:	Cool	Date Analyzed:	10-01-99
Condition:	Cool and Intact	Chain of Custody:	7409
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 9.22	
REACTIVITY:	Negative		
RCRA Hazardous Waste Crite	eria		
Parameter	Hazardous Waste Criterion		
IGNITABILITY:		s defined by 40 CFR, Subpart C, Sec. act contact with flame or flash point < 6	
CORROSIVITY:	-	s defined by 40 CFR, Subpart C, Sec. 2.0 or pH greater than or equal to 12.5	
REACTIVITY:	(i.e. Violent reaction with wate	e defined by 40 CFR, Subpart C, Sec. 2 er, strong base, strong acid, or the gen ses at STP with pH between 2.0 and 1	neration
Reference:	40 CER part 261 Subpart C s	ections 261.21 - 261.23, July 1, 1992.	_

Comments:

Chaco Plant.

Analyst

Stacy W Sendler

Review

### ENV ROTECHELABS

#### PRACTICAL SOLUTIONS FOR A DEITTER TOMORROW.

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	10-06-99
Laboratory Number:	G132	Date Sampled:	09-30-99
Chain of Custody:	7409	Date Received:	09-30-99
Sample Matrix:	TCLP Extract	Date Extracted:	10-01-99
Preservative:	Cool	Date Analyzed:	10-05-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory	
	Concentration	Limit	Limits	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Vinyl Chloride	ND	0.0001	0.2	
1,1-Dichloroethene	ND	0.0001	0.7	
2-Butanone (MEK)	0.0028	0.0001	200	
Chloroform	ND	0.0001	6.0	
Carbon Tetrachloride	ND	0.0001	0.5	
Benzene	0.0182	0.0001	0.5	
1,2-Dichloroethane	ND	0.0001	0.5	
Trichloroethene	ND	0.0003	0.5	
Tetrachloroethene	ND	0.0005	0.7	
Chlorobenzene	ND	0.0003	100	
1,4-Dichlorobenzene	ND	0.0002	7.5	

QA/QC Accept	tance Criteria	Parameter	Percent Recovery				
		Trifluorotoluene	98%				
		Bromofluorobenzene	99%				
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.						
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.						
	Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.						
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	ept. 1994.				
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C sectio	n 261.24, July 1, 1992.				
Comments:	Chaco Plant.						

en L. aferen Analyst

Stacy W Sendler Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### **EPA METHOD 8040** PHENOLS

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	10-08-9 <del>9</del>
Laboratory Number:	G132	Date Sampled:	09-30-99
Chain of Custody:	7409	Date Received:	09-30-99
Sample Matrix:	TCLP Extract	Date Extracted:	10-01-99
Preservative:	Cool	Date Analyzed:	10-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recov	veries:	Parameter		Percent Recovery
		2-Fluorophenol 2,4,6-Tribromopheno	bl	98% 99%
References:		, Toxicity Characteristic Leachin 46, USEPA, July 1992.	g Procedure Test M	ethods for Evaluating Solid
		, Separatory Funnel Liquid-Liqui 46, USEPA, July 1992.	d Extraction, Test M	ethods for Evaluating Solid
	Method 8040	, Phenols, Test Methods for Eva	luating Solid Waste,	SW-846, USEPA, Sept. 1986.
Note:	Regulatory Li	mits based on 40 CFR part 261	subpart C section 20	61.24, July 1, 1992.
Comments:	Chaco Plai	nt.		
Analyst	? Qie	ele-	Review	tacy W Sendler

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	10-08-99
Laboratory Number:	G132	Date Sampled:	09-30-99
Chain of Custody:	7409	Date Received:	09-30-99
Sample Matrix:	TCLP Extract	Date Extracted:	10-01-99
Preservative:	Cool	Date Analyzed:	10-07-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.
	Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: Cha

Note:

Chaco Plant.

un R. Oyleum

Review Stacy W Sendler

#### PRACTICAL SOLUTIONS FOR A BEITTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	El Paso Field Services	Project #:	705717
Sample ID:	SS - 1	Date Reported:	11-05-99
Laboratory Number:	G132	Date Sampled:	09-30-99
Chain of Custody:	7409	Date Received:	09-30-99
Sample Matrix:	TCLP Extract	Date Analyzed:	11-04-99
Preservative:	Cool	Date Extracted:	10-01-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
L			
Arsenic	0.076	0.001	5.0
Barium	1.07	0.001	21
Cadmium	0.013	0.001	0.11
Chromium	0.002	0.001	0.60
Lead	0.460	0.001	0.75
Mercury	ND	0.0005	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,<br/>December 1996.Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total<br/>Metals, SW-846, USEPA, December 1996.Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by<br/>GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.Note:Regulatory Limits based on 40 CFR part 261 subpart C<br/>section 261.24, August 24, 1998.Comments:Chaco Plant.

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<u>/ hristini M Walless</u> Review



PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.

### **QUALITY ASSURANCE / QUALITY CONTROL**

### DOCUMENTATION

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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PRACTICAL SOLUTIONS FOR A BETTERTOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	10-06-99
Laboratory Number:	10-05-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-05-99
Condition:	N/A	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

Method 5030, Purge-and	Trifluorotoluene Bromofluorobenzene haracteristic Leaching Procedure, SW-84 I-Trap, SW-846, USEPA, July 1992.	100% 100% 46, USEPA, July 1992.
Method 5030, Purge-and	haracteristic Leaching Procedure, SW-8-	
Method 5030, Purge-and	-	46, USEPA, July 1992.
	I-Trap, SW-846, USEPA, July 1992.	
Method 8010 Halogenat		
mound of it, natogenat	ed Volatile Organic, SW-846, USEPA, S	Sept. 1994.
Method 8020, Aromatic V	/olatile Organics, SW-846, USEPA, Sep	t. 1994.
Regulatory Limits based	on 40 CFR part 261 Subpart C section 2	261.24, July 1, 1992.
QA/QC for sample (	G132.	
		Regulatory Limits based on 40 CFR part 261 Subpart C section 2 QA/QC for sample G132.

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Stacy W Sendler Review

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	10-06-99
Laboratory Number:	10-01-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-05-99
Condition:	N/A	Date Extracted:	10-01-99
		Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1.4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	99%
		Bromofluorobenzene	98%
References:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SW-	-846, USEPA, July 1992.
	Mathed 5020 Durge on	d Tran SW 846 LISEPA July 1992	

Neierences.	Method 1911, Toxicity Characteristic Leading Procedure, OW 040, OCE 7, Outparter.		
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.		
	Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.		
	Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.		

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

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Review Stacy W Sendler

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplicate		Date Reported:	10-06-99
Laboratory Number:	G132		Date Sampled:	N/A
Sample Matrix:	TCLP Extrac	t	Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	10-05-99
Condition:	N/A		Date Extracted:	10-01-99
		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0028	0.0029	0.0001	3.7%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0182	0.0177	0.0001	2.8%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.<br/>Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.<br/>Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.<br/>Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

,						
Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	10-06-99
Laboratory Number:	G132			Date Sample	ed:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	10-05-99
Condition:	N/A			Date Extract	ed:	10-01-99
	,		Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0028	0.050	0.0523	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0182	0.050	0.0680	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

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Review Stacy W Sendler

#### PRACTICAL SOLUTIONS FOR A DETTIER TOMORROW.

#### EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	10-08-99
Laboratory Number:	10-07-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-07-99
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	ries: Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromoph	enol 99 %
References:	Method 1311, Toxicity Characteristic Lea	aching Procedure Test Methods for Evaluating Solid

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Waste, SW-846, USEPA, July 1992.

Comments: QA/QC for sample G132.

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Review Stacy W Sendler

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#### PRACTICALISOLUTIONS FOR A BETWER TOMORROW

#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	10-08-99
Laboratory Number:	10-01-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-01-99
Condition:	Cool & Intact	Date Analyzed:	10-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	98%	
	2,4,6-Tribromophenol	99%	

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

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Stacy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A	
Sample ID:	Matrix Duplicate	Date Reported:	10-08-99	
Laboratory Number:	G132	Date Sampled:	N/A	
Sample Matrix:	TCLP Extract	Date Received:	· N/A	
Preservative:	Cool	Date Extracted:	N/A	
Condition:	Cool & Intact	Date Analyzed:	10-07-99	
		Analysis Requested:	TCLP	

	Sample Result	Duplicate Result	Detection Limit	Percent	
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference	
o-Cresol	ND	ND	0.020	0.0%	
p,m-Cresol	ND	ND	0.040	0.0%	
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%	
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%	
Pentachlorophenol	ND	ND	0.020	0.0%	

ND - Parameter not detected at the stated detection limit.

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Analyst

Was	<b>8040</b> od 1311, Toxicity Characteristic Le e, SW-846, USEPA, July 1992.	Compounds	30.0%
Was		aching Procedure Test Me	the de fac Freebration Datiet
		-	ernous for Evaluating Solid
	od 3510, Separatory Funnel Liquid e, SW-846, USEPA, July 1992.	-Liquid Extraction, Test Me	ethods for Evaluating Solid
Meth	od 8040, Phenols, Test Methods fo	or Evaluating Solid Waste,	SW-846, USEPA, Sept. 1986.
Note: Regi	latory Limits based on 40 CFR par	t 261 subpart C section 26	1.24, July 1, 1992.
Comments: QA	QC for sample G132.		

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PRACTICAL SOLUTIONS FOR A DETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	10-08-99
Laboratory Number:	10-07-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	10-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	99%
References:		Characteristic Leaching Procedure, S ory Funnel Liquid-Liquid Extraction, S	-
	•	matics and Cyclic Ketones, SW-846,	
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C sec	tion 261 24 July 1 1992

Comments:

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Stacy W Sendler Review

#### PRACTICAL SOLUTIONS FOR A BETTIER TOMORROW.

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

		•	
Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	10-08-99
Laboratory Number:	10-01-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-01-99
Condition:	Cool and Intact	Date Analyzed:	10-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	98%
References:	Method 1311, Toxicity Characteristic Leaching Procedure		SW-846, USEPA, July 1992.
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction, S	SW-846, USEPA, July 1992.
	Method 8090, Nitroaror	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	ction 261.24, July 1, 1992.

Comments:

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Stacy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

•					
Client:	QA/QC	Project #:		N/A	
Sample ID:	Matrix Duplicate	Date Reported:	10-08-99		
Laboratory Number:	ratory Number: G132			N/A	
Sample Matrix:	nple Matrix: TCLP Extract			N/A	
Preservative:	N/A	Date Extracted:		10-01-99	
Condition:	N/A	Date Analyzed:		10-07-99	
		Analysis Reque	ested:	TCLP	
	Sample	Duplicate	·····	Det.	
	Result	Result	Percent	Limit	
Parameter (mg/L)		(mg/L) Differenc		e (mg/L)	
Pyridine	ND	ND 0.0%		0.020	
Hexachloroethane	ND	ND 0.0%		0.020	
Nitrobenzene	ND	ND 0.0%		0.020	
Hexachlorobutadiene	ND	ND 0.0%		0.020	
2.4-Dinitrotoluene	ND	ND 0.0%		0.020	
2,4-Dinitrotoluene ND HexachloroBenzene ND		ND 0.0%			

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference		
		8090 Compounds	30%		
References:	ferences: Method 1311, Toxicity Characteristic Leaching Pro		W-846, USEPA, July 1992.		
	Method 3510, Separato	ory Funnel Liquid-Liquid Extraction, SV	<i>N-</i> 846, USEPA, July 1992 <i>.</i>		
	Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.				
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C secti	ion 261.24, July 1, 1992.		

Comments:

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Stacy W Sendler Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #	: .		N/A
Sample ID:		11-04-TCM	A QA/QC	Date Rep	ported:		11-05-99
Laboratory Number:		G132		Date San	npled:		N/A
Sample Matrix:		TCLP Extr	act	Date Rec	eived:		N/A
Analysis Requested	:	TCLP Met	als	Date Ana	ilyzed:		11-04-99
Condition:		N/A		Date Extr	racted:		N/A
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection	n Sample	e Duplicate	e % Diff.	Acceptance Range
ALL PROPERTIES IN THE PROPERTY AND	- Charles allowing the state of a	an an Milling a sample of	an in 1997 yang dagan dan kasar da	0.070	0.070	and pression and a subscription of the	A BARRING AND
Arsenic	ND	ND	0.001	0.076	0.076	0.0%	0% - 30%
Arsenic Barium	ND ND	ND ND	0.001	0.076 1.07	0.076 1.06	0.0% 0.4%	0% - 30% 0% - 30%
Barium	ND	ND	0.001	1.07	1.06	0.4%	0% - 30%
Barium Cadmium	ND ND	ND ND	0.001 0.001	1.07 0.013	1.06 0.013	0.4% 0.0%	0% - 30% 0% - 30%
Barium Cadmium Chromium	ND ND ND	ND ND ND	0.001 0.001 0.001	1.07 0.013 0.002	1.06 0.013 0.002	0.4% 0.0% 0.0%	0% - 30% 0% - 30% 0% - 30%
Barium Cadmium Chromium Lead	ND ND ND ND	ND ND ND ND	0.001 0.001 0.001 0.001	1.07 0.013 0.002 0.460	1.06 0.013 0.002 0.459	0.4% 0.0% 0.0% 0.2%	0% - 30% 0% - 30% 0% - 30% 0% - 30%

Spike Spike Sample Spiked Percent Acceptance Conc (mg/L) Added Sample Recovery Range

Arsenic	0.500	0.076	0.577	100.2%	80% - 120%
Barium	1.00	1.07	2.06	99.7%	80% - 120%
Cadmium	0.250	0.013	0.264	100.4%	80% - 120%
Chromium	0.250	0.002	0.251	99.6%	80% - 120%
Lead	0.250	0.460	0.709	99.9%	80% - 120%
Mercury	0.125	ND	0.125	100.0%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.250	ND	0.251	100.4%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples G132, G168, G181, G191 and G243.

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Mistine M Walters Review

### CHAIN OF CUSTODY RECORD

Client / Project Name	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Project Location							A		S / PARA	AMETER	s			
EL Paso Fie	12 Su	-ules	Chaco 1	0/ant													
Sampler:			Client No.				<u>د</u>								Remarks		
<u>EL Parso</u> Fis Sampler: <u>SLB</u>			Chaco Client No. 970	57.14	4		No. of Containers	4					F				
Sample No./	Sample	Sample	Lab Number		Sample		Cont Z	13					-	· ····			
Identification	Date	Time			Matrix					<u> </u>							
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				-	·····												
elinquished by: (Signatu	[]			Date	Time	Receive	od by:	(Signatu		_l			LL		Date	Т	ime
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					ington, N				1				Несе	ived Intact			
						632-0							Cool -	Ice/Blue Ic	e V	1	

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District I - (505) 393-6161 P. O. Box / 980 Hobber NM 88241-1980 District I - (505) 748-1283 811 S. First P. O. Box / 980 Hobber NM 88241-1980 District I - (505) 748-1283 B. District	Form C-138 Originated 8/8/95
811 S. First       Image: Construction Division         Artesia, NM 88210       Image: Construction Division         Image: Construction Division       Image: Constructindivision Division         Im	Submit Original Plus I Copy to appropriate District Office Env. JN: <u>98059-01</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator Compression
Verbal Approval Received: Yes 🔲 No 💁	5. Originating Site Wash bar
<b>2. Management Facility Destination</b> Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Dene Majoi co
7. Location of Material (Street Address or ULSTR)	1125 U.S. Har 550 AZTEC, NM 57910
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> </ul>	mpanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Sludge generated @ Wash rock F	in cleaning oil & gas
Compression & production agap	- to EAVEN)
RECEIVED	DEC 1 5 1999 DONO
DEC 2 n 1999	$ \begin{array}{c}                                     $
Environmental Bureau Oil Conservation Division	COLL GUELS 3
Not He	autedasultat
Estimated Volume	DE 7/14/01
SIGNATURE: Handfarm M Waste Management FacilityAuthorized Agent	
Harlon M Brown	EPHONE NO
	······································
(This space for State Use)	
APPROVED BY: Dent J. tem TITLE: Ceeloc	DATE: 12/18/97
APPROVED BY	and DATE: 12/20/95

Diarder I - (505) 393-6161 P. O'' Box 1980 Hobbs, NM 88241-1980 Diatrict II - (505) 748-1283 B11 5. First Artesia, NM 88210 Curcict III - (505) 334-6178 Thio Brazos Road Curc, NM 87410 Diatrict IV - (505) 827-7131 New Mexico Conservation Division Santa Fe, New Mexico 87505 (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Compression
Verbal Approval Received: Yes 🗋 No 😒	5. Originating Site Main Your
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Mapico
7. Location of Material (Street Address or ULSTR)	1125 U.S. Har 550 AZTEC, NM 57910
9. <u>Circle One</u> :	· · · · · · · · · · · · · · · · · · ·
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Studge gradient and Wash rock f Conceptossion & production comp	
Estimated Volume Z5 cy Known Volume (to be entered by the operation of the second secon	
(This space for State Use) APPROVED BY: Demy D. Hound TITLE: 6010	915 DATE: 12/16/99
APPROVED BY: TITLE:	DATE:

T	IT	Ľ	<b>E</b> :	
				-

UNIVERSALCOMPRESSION : SOSGELAGE

PAGE 03



### NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

DIL CONSERVATION DIVISION AZTEO DISTRICT DIFICE 1000 RIO BRAZDS RDAD AZTEC, NEW MEXICO 87419 (806) 334-5178 Fax (505)334-5170

GARY E. JOHNSON GOVERNOR

IENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: UNIVERSAL COMPRESSION 1125 US HWY 550 Aztec, NM 87410 3. Originating Site (name): 1125 US HWY 550 Aztec, NM 87410	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Huy 64, Farmington, NM 87401 Location of the Waste (Street address &/or ULSTR): Wash Bay 1125 US Huy 550 Aztic, NM 87410
Attach list of originating sites as appropriate 4. Source and Description of Waste	0
Waste water from cleani	ing of compression Equipment
1. GEORGE YEAGER Universal Compression.	representative for: do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described v	y Act (RCRA) and Environmental Protection Agency's July, Vaste is: (Check appropriate classification)
EXEMPT oilfield waste	PT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or non	exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documentat MSDS Information MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	ion is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of Na to 20 NMAC 3.1 subpart 1403.C and D.	aturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	

### NV ROTECHELABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

December 10, 1999

Ms. Cheryl Miller Universal Compression 1125 Hwy 64 Farmington, NM 87401

Project No.: 98059-03

Dear Ms. Miller,

Enclosed is the analytical result for the sample collected from the location designated as "U.S. Hwy 550". One Sludge and one soil sample were collected on 12/01/99, and received by the Envirotech laboratory on 12/01/99 for TCLP W/O Herbicides and Pesticides.

The samples were documented on Envirotech Chain of Custody No. 7581 and 7582 and assigned Laboratory No. G525 (Wash Bay Solids) and G526 (Compressor Lube) for tracking purposes.

The samples were analyzed 12/03/99 - 12/07/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.** 

i n

Christine M. Walters Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/univer.wpd

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compression	Project #:	805903		
Sample ID:	Wash Bay Solids	Date Reported:	12-03-99		
Lab ID#:	G525	Date Sampled:	12-01-99		
Sample Matrix:	Sludge	Date Received:	12-01-99		
Preservative:	Cool	Date Analyzed:	12-03-99		
Condition:	Cool and Intact	Chain of Custody:	7581		
Parameter	Result				
IGNITABILITY:	Negative				
CORROSIVITY:	Negative	pH = 7.28			
REACTIVITY:	Negative				
RCRA Hazardous Waste Criteria					
Parameter	Hazardous Waste Criterion				
IGNITABILITY:	- ·	defined by 40 CFR, Subpart C, Sec. 261.21. t contact with flame or flash point < 60° C.)			
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)				
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)				
Reference:	40 CFR part 261 Subpart C sec	tions 261.21 - 261.23, July 1, 1992.			

Comments:

U.S Hwy 550.

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compression	Project #:	805903
Sample ID:	Wash Bay Solids	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	12-01-99
Chain of Custody:	7581	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory	
	Concentration	Limit	Limits	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Vinyl Chloride	ND	0.0001	0.2	
1,1-Dichloroethene	ND	0.0001	0.7	
2-Butanone (MEK)	0.0026	0.0001	200	
Chloroform	ND	0.0001	6.0	
Carbon Tetrachloride	ND	0.0001	0.5	
Benzene	0.0050	0.0001	0.5	
1,2-Dichloroethane	ND	0.0001	0.5	
Trichloroethene	ND	0.0003	0.5	
Tetrachloroethene	ND	0.0005	0.7	
Chlorobenzene	ND	0.0003	100	
1,4-Dichlorobenzene	ND	0.0002	7.5	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery		
		Trifluorotoluene	98%		
		Bromofluorobenzene	99%		
References:	Method 1311, Toxicity C	haracteristic Leaching Procedure, SW	/-846, USEPA, July 1992.		
	Method 5030, Purge-and	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.			
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.					
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	ept. 1994.		
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C sectio	n 261.24, July 1, 1992.		
Comments:	U.S. Hwy. 550.				

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS

·		
Universal Compression	Project #:	805903
Wash Bay Solids	Date Reported:	12-07-99
G525	Date Sampled:	. 12-01-99
7581	Date Received:	12-01-99
TCLP Extract	Date Extracted:	12-03-99
Cool	Date Analyzed:	12-07-99
Cool & Intact	Analysis Requested:	TCLP
	Wash Bay Solids G525 7581 TCLP Extract Cool	Wash Bay SolidsDate Reported:G525Date Sampled:7581Date Received:TCLP ExtractDate Extracted:CoolDate Analyzed:

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	0.168	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	98%	
	2,4,6-Tribromophenol	99%	

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: U. S. Hwy. 550.

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Universal Compression	Project #:	805903
Wash Bay Solids	Date Reported:	12-07-99
G525	Date Sampled:	12-01-99
7581	Date Received:	12-01-99
TCLP Extract	Date Extracted:	12-03-99
Cool	Date Analyzed:	12-07-99
Cool and Intact	Analysis Requested:	TCLP
	Wash Bay Solids G525 7581 TCLP Extract Cool	Wash Bay SolidsDate Reported:G525Date Sampled:7581Date Received:TCLP ExtractDate Extracted:CoolDate Analyzed:

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.177	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery	÷

2-fluorobiphenyl

97%

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: U. S. Hwy. 550.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	805903
Sample ID:	Wash Bay Solids	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	12-01-99
Chain of Custody:	7581	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Analyzed:	12-08-99
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	Concentration	Det. Limit	Regulatory Level
Parameter	(mg/L)	(mg/L)	(mg/L)

Arsenic	0.013	0.001	5.0
Barium	0.399	0.001	21
Cadmium	0.064	0.001	0.11
Chromium	0.064	0.001	0.60
Lead	0.029	0.001	0.75
Mercury	0.007	0.001	0.025
Selenium	0.058	0.001	5.7
Silver	0.038	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,<br/>December 1996.Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total<br/>Metals, SW-846, USEPA, December 1996.Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission<br/>SW-846, USEPA. December 1996.Note:Regulatory Limits based on 40 CFR part 261 subpart C<br/>section 261.24, August 24, 1998.

Comments:

U. S. Hwy. 550.

- C. ajun Analyst

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### **QUALITY ASSURANCE / QUALITY CONTROL**

### DOCUMENTATION

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5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

## <u>∟∩VIROTECH L∩BS</u>

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

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Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-08-99
Laboratory Number:	12-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	100%
		Bromofluorobenzene	100%
eferences:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SW-	846, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA,	Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.
lote:	Regulatory Limits based	on 40 CFR part 261 Subpart C section	a 261.24, July 1, 1992.
Comments:	QA/QC for sample	G525 - G526.	

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### CPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

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Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-08-99
Laboratory Number:	12-03-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	12-03-99
		Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Percent Recovery		
		Trifluorotoluene	99%		
		Bromofluorobenzene	98%		
References:	Method 1311, Toxicity Cl	ty Characteristic Leaching Procedure, SW-846, USEPA, July 1992.			
	Method 5030, Purge-and	-Trap, SW-846, USEPA, July 1992.			
	Method 8010, Halogenat	ed Volatile Organic, SW-846, USEPA	, Sept. 1994.		
	Method 8020, Aromatic \	/olatile Organics, SW-846, USEPA, S	ept. 1994.		
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C section	n 261.24, July 1, 1992.		

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### Er A METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

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Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplicate		Date Reported:	12-08-99
Laboratory Number:	G525		Date Sampled:	N/A
Sample Matrix:	TCLP Extrac	t	Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	12-07-99
Condition:	N/A		Date Extracted:	12-03-99
	·	Duplicate		······································
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0026	0.0026	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0050	0.0050	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.<br/>Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.<br/>Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.<br/>Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

QA/QC for sample G525 - G526.

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### Er A METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Report	ed:	12-08-99
Laboratory Number:	G525			Date Sample	ed:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	12-07-99
Condition:	N/A			Date Extract	ed:	N/A
			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0026	0.050	0.0521	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0050	0.050	0.0548	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51 <b>-1</b> 47
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

o-Cresol n m-Cresol		0.020	200 200
Parameter	(mg/L)	(mg/L)	(mg/L)
Analytical Results	Concentration	Detection Limit	Regulatory Limit
Condition:	N/A	Analysis Requested:	TCLP
Preservative:	N/A	Date Analyzed:	12-07-99
Sample Matrix:	2-Propanol	Date Received:	N/A
Laboratory Number:	12-07-TCA-Blank	Date Sampled:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Client:	QA/QC	Project #:	N/A

0-016301		0.020	200	
p,m-Cresol	ND	0.040	200	
2,4,6-Trichlorophenol	ND	0.020	2.0	
2,4,5-Trichlorophenol	ND	0.020	400	
Pentachlorophenol	ND	0.020	100	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

R. ajun

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-07-99
Laboratory Number:	12-03-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)	
o-Cresol	ND	0.020	200	
p,m-Cresol	ND	0.040	200	
2,4,6-Trichlorophenol	ND	0.020	2.0	
2,4,5-Trichlorophenol	ND	0.020	400	
Pentachlorophenol	ND	0.020	100	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:		Parameter	Percent Recovery
· · ·		2-Fluorophenol	98%
		2,4,6-Tribromophenol	99%
References:		1, Toxicity Characteristic Leaching Procedure 3846, USEPA, July 1992.	Test Methods for Evaluating Solid
	Method 3510	0, Separatory Funnel Liquid-Liquid Extraction, 346, USEPA, July 1992.	Test Methods for Evaluating Solid
	Method 8040	), Phenols, Test Methods for Evaluating Solid	Waste, SW-846, USEPA, Sept. 198
Note:	Regulatory L	imits based on 40 CFR part 261 subpart C se	ction 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

h. ajum Analyst

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	otance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	Characteristic Leaching Procedure Test	Methods for Evaluating Solid
	Method 3510, Separato Waste, SW-846, USEPA	ry Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Wast	e, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C section	261.24, July 1, 1992.
Comments:	QA/QC for sample	G525 - G526.	

Analyst

/ Review

#### **PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	95%
References:	•	Characteristic Leaching Procedure, S	•
		ory Funnel Liquid-Liquid Extraction, S matics and Cyclic Ketones, SW-846,	· · · ·
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments:

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Review Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

		D-4	Description
		Analysis Requested:	TCLP
Condition:	Cool and Intact	Date Analyzed:	12-07-99
Preservative:	Cool	Date Extracted:	12-03-99
Sample Matrix:	TCLP Extract	Date Received:	N/A
Laboratory Number:	12-03-TBN-MB	Date Sampled:	N/A
Sample ID:	Method Blank	Date Reported:	12-07-99
Client:	QA/QC	Project #:	N/A

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)	
Pyridine	ND	0.020	5.0	
Hexachloroethane	ND	0.020	3.0	
Nitrobenzene	ND	0.020	2.0	
Hexachlorobutadiene	ND	0.020	0.5	
2,4-Dinitrotoluene	ND	0.020	0.13	
HexachloroBenzene	ND	0.020	0.13	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		2-fluorobiphenyl	101%	
References:	Method 1311, Toxicity	11, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		
	Method 3510, Separate	atory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.		
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.	
Note:	Regulatory Limits base	y Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		
Commonte:	OA/OC for comple	G525 - G526		

Comments:

- R. Opter Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:		N/A
Sample ID:	Matrix Duplicate	Date Reported:		12-07-99
Laboratory Number:	G526	Date Sampled:		N/A
Sample Matrix:	TCLP Extract	Date Received:	:	N/A
Preservative:	N/A	Date Extracted:	:	12-03-99
Condition:	N/A	Date Analyzed:		12 <b>-</b> 07-99
		Analysis Reque	ested:	TCLP
	Sample	Duplicate		Det.
	Result	Result	Percent	Limit
Parameter	(mg/L)	(mg/L)	Difference	(mg/L
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference	
		8090 Compounds	30%	
References:	Method 1311, Toxicity	1, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction, SV	V-846, USEPA, July 1992.	
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846, L	JSEPA, Sept. 1986.	
ote:	Regulatory Limits base	based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		

Comments:

en h. Qu'eun Analyst

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# Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	•	QA/QC		Project #:	<b>:</b> .		N/A
Sample ID:		12-08-TCN	1 QA/QC	Date Rep	orted:		12-08-99
Laboratory Number:		G525		Date Sam	npled:		N/A
Sample Matrix:		TCLP Extra	act	Date Rec	eived:		N/A
Analysis Requested:		TCLP Meta	als	Date Ana	lyzed:		12-08-99
Condition:		N/A		Date Extr	acted:		N/A
A STATE OF A	Instrument	Method	Detection	Sample	Duplicate	<b>%</b>	Acceptance
Conc. (mg/L)	Blank	Blank	Limit	- 24		Diff.	Range
Arsenic	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Barium	ND	ND	0.001	0.399	0.396	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.064	0.063	1.6%	0% - 30%
Chromium	ND	ND	0.001	0.064	0.064	0.0%	0% - 30%
Lead	ND	ND	0.001	0.029	0.029	0.0%	0% - 30%
Mercury	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.058	0.059	1.7%	0% - 30%
Silver	ND	ND	0.001	0.038	0.038	0.0%	0% - 30%
Spike		Spike	Sample	Spiked	Percent		Acceptance
Conc. (mg/L)		- Added	an indicated a	Sample	Recovery		Range
Arsenic		0.500	0.013	0.512	99.8%		80% - 120%
Barium		0.500	0.399	0.897	99.8%		80% - 120%
Cadmium		0.500	0.064	0.563	99.8%		80% - 120%
Chromium		0.500	0.064	0.563	99.8%		80% - 120%
Lead		0.500	0.029	0.528	99.8%		80% - 120%
Mercury		0.050	0.007	0.056	98.2%		80% - 120%
Selenium		0.500	0.058	0.557	99.8%		80% - 120%

ND - Parameter not detected at the stated detection limit.

0.500

0.038

References:

Silver

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

0.539

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples G525 - G526.

reccond Analyst

<u>Anistini Maeles</u> Review

100.2%

80% - 120%

# CHAIN OF CUSTODY RECORD

7581

Client / Project Name	<u> </u>		Project Location		····					······					··		
Universal Con Sampler: Harcon M. !	mpress	in.	U.S	stur s	50					P	NALYSI	57 PARA	AMETERS				
Sampler:			Client No.				S	~ *	]	1	}			Rer	narks		
HARLAN M.	BROW	し	980	59-03			No. of ontainer	7									
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		No. of Containers	121P									
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				ENV	'IRO <sup>-</sup>	TEC	CH		C.				Sa	ample Re	eceipt		
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				Earm	5796 U.S	S. High	nway Iovioc	64	4				Received I	ntact			
•				rann	ington, N (505)	632-0	)615	0/40	1				Cool - Ice/B	lue Ice	V		

Herel (505) 393-6161 O/Bar (980 Hobbs, NM 88241-1980 Distanti - (505) 748-1283 E Energy Mirerals and Natural Resource Old Conservation Divisio	es Department Originated 8/8/95
Intesia, NM 88210       DEC 2 - 1000       2040 South Pacheco Street         Inter III - (505) 334-6178       DEC 2 - 1000       Santa Fe, New Mexico 87505         Inter Road       Santa Fe, New Mexico 87505       Santa Fe, New Mexico 87505         Inter III - (505) 827-713       Santa Fe, New Mexico 87505       Santa Fe, New Mexico 87505         Inter III - (505) 827-713       Santa Fe, New Mexico 87505       Santa Fe, New Mexico 87505         Inter III - (505) 827-713       Santa Fe, New Mexico 87505       Santa Fe, New Mexico 87505         Inter III - (505) 827-713       Santa Fe, New Mexico 87505       Santa Fe, New Mexico 87505	Submit Original Plus 1 Copy to appropriate District Office
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🏹	4. Generator Compression
Verbal Approval Received: Yes 🔲 No 🔁	5. Originating Site Hartan Yand
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENUISOTESCH
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Mussice
7. Location of Material (Street Address or ULSTR)	LES HUY 550 A ETEC, NAL 87410
9. <u>Circle One</u> :	
<ul> <li>Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be according PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Clam up of spills & leaks of comp Various compression units in Main	Varde for over timel.
· · · · · · · · · · · · · · · · · · ·	ERVEN
RECEIVED	6 E C LA 5 1539
DEC 2 n 1999	AL DEC DUIDO
Environmental Bureau Oil Conservation Division	DECENTION DEC 1 5 1535 ONL CONTO DISTO 3
Estimated Volume <i>12</i> cy Known Volume (to be entered by the ope	U1
SIGNATURE: Waste Management FacilityAuthonized Agent Waste Management FacilityAuthonized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	Lanager         DATE: 12·15·97           EPHONE NO.         505-632-0615
(This space for State Use)	
APPROVED BY: Denn Betan TITLE: Geolog	<u>9 13</u> DATE: <u>12/16/97</u>
APPROVED BY: TITLE TIM Rue	10 Chief DATE: 0/20/99

Diatrict. I (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 Diatrict. II - (505) 748-1283 811 S. First Artesia, NM 88210 <sup>N1</sup> trict. III - (505) 334-6178 <sup>N</sup> Rio Brazos Road Acc, NM 87410 District. IV - (505) 827-7131	New Mexico inerals and Natural Resourc Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	n Submit Original
REQUEST	FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exemp	t: 🔀	4. Generator Compression
Verbal Approval Received: Ye		5. Originating Site Harbut Yand
2. Management Facility Destination	virotech Soil Remedia. Facility Landfarm #2	6. Transporter ENUIROTECT
	96 US Highway 64 mington, NM 87401	8. State New Marsico
7. Location of Material (Street Address	or ULSTR)	HES HOVE \$50 AZTER NUL 87410
Generator; one certificate per jol B. All requests for approval to acce PROVE the material is not-hazar listing or testing will be approved All transporters must certify the waste BRIEF DESCRIPTION OF MATERIAL:	b. apt non-exempt wastes must be acco dous and the Generator's certification	
Estimated Volume cy I SIGNATURE:	Known Volume (to be entered by the ope rized Agent Brown TITLE: Landfarm Ma TEL	
(This space for State Use) APPROVED BY:	2 Faint TITLE: Geolog	<u>B</u> DATE: <u>12/16/99</u>
APPROVED BY:	TITLE:	DATE:

UNIVERSALCOMPRESSION

PAGE 02

2



- 1

## NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW NEXICO B7419 (605) 334-5178 FBX (505)334-5170

GARY E. JOHNSON GOVERNOR

IENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

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1. Generator Name and Address:	2. Destination Name:
Universal Compression	Envirotech Inc. Soil Remediation Remediation Facility
Aztec, NM 87410	Landform #2, Hilltop,New Mexico
3. Originating Site (name):	5796 US Hwy 64 Farmington NM 87401 Location of the Waste (Street address &/or ULSTR):
	Vard
1125 US HWY 550	1125 USHWY 550
Aztec, NM 87410	Aztec, NM 87410
Attach list of originating sites as appropriate	/ igue / / ·
4. Source and Description of Waste	
misc. spills and leaks	from Compression Equipment
· · ·	U U
1, GEORGE YEAGER	representative for:
UnivErsal Compression,	do hereby certify that,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described	y Act (RCRA) and Environmental Protection Agancy's July,
	PT olifield waste which is non-hazardous by characteristic
ឧកឧរមុនទេ or	by product Montification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
	tion is attached (chack appropriate items).
For NON-EXEMPT waste the following documenta MSDS Information	Other (description):
V RCRA Hazardous Waste Analysis	
Chain of Custody	
Chain of Custody	
This wasts is in compliance with Regulated Levels of N	laturally Occurring Radioactive Material (NORM) pursuant
Chain of Custody	laturally Occurring Radioactive Material (NORM) pursuant
This wasts is in compliance with Regulated Levels of N	laturally Occurring Radioactive Material (NORM) pursuant
Chain of Custody This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D.	laturally Occurring Radioactive Material (NORM) pursuant
Chain of Custody This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D. Name (Original Signature):	laturally Occurring Radioactive Material (NORM) pursuant
Chain of Custody This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D.	laturally Occurring Radioactive Material (NORM) pursuant

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compression	Project #	805001
Sample ID:	Compressor Lube	Project #: Date Reported:	805901 12-03-99
Lab ID#:	G526 -	Date Sampled:	12-03-39
Sample Matrix:	Soil	Date Received:	12-01-99
Preservative:	Cool	Date Analyzed:	12-03-99
Condition:	Cool and Intact	Chain of Custody:	7582
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 8.29	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criteria			
Parameter	Hazardous Waste Criterion		
IGNITABILITY:	• •	e defined by 40 CFR, Subpart C, Sec. 2 act contact with flame or flash point < 6	
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)		
REACTIVITY:	(i.e. Violent reaction with wate	defined by 40 CFR, Subpart C, Sec. 2 or, strong base, strong acid, or the gene ses at STP with pH between 2.0 and 12	eration
Reference:	40 CFR part 261 Subpart C se	ections 261.21 - 261.23, July 1, 1992.	
Comments:	U.S Hwy 550.		

U.S Hwy 550.
 Field PHC; Spills & Leaks.

Analyst

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# TOV ROTECH LABS

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-08-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

· · · ·		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0023	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0138	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

QA/QC Acceptance Criteria		Parameter	Percent Recovery		
		Trifluorotoluene	98%		
		Bromofluorobenzene	99%		
References:	Method 1311, Toxicity C	icity Characteristic Leaching Procedure, SW-846, USEPA, July 19			
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.				
	Method 8010, Halogena	Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.			
	Method 8020, Aromatic	natic Volatile Organics, SW-846, USEPA, Sept. 1994.			
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.				
Comments:	U.S. Hwy. 550. Fie	eld PHC; Spills & Leaks.			

R. ajenan

Kristini Mulaeters

# FNVIROTECH LAS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07 <b>-</b> 99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: U. S. Hwy. 550. Field PHC; Spills & Leaks.

much. aferra Analyst

<u>/hristini n Walters</u> Review

# - NIROTECH LABS

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Universal Compression	Project #:	80590 <b>1</b>
Sample ID:	Compressor Lube	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

D	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: U. S. Hwy. 550. Field PHC; Spills & Leaks.

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Keview Dalles

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

		Det	Regulatory
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
Preservative:	Cool	Date Extracted:	12-03-99
Sample Matrix:	TCLP Extract	Date Analyzed:	12-08-99
Chain of Custody:	7582	Date Received:	12-01 <b>-</b> 99
Laboratory Number:	G526	Date Sampled:	12-01-99
Sample ID:	Compressor Lube	Date Reported:	12-08-99
Client:	Universal Compression	Project #:	805901

Deremeter	Concentration	Limit	
Parameter	(mg/L)	(mg/L)	(mg/L)

Arsenic	0.050	0.001	5.0
Barium	1.05	0.001	21
Cadmium	0.053	0.001	0.11
Chromium	0.025	0.001	0.60
Lead	0.073	0.001	0.75
Mercury	0.005	0.001	0.025
Selenium	0.029	0.001	5.7
Silver	0.098	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

U. S. Hwy. 550. Field PHC; Spills & Leaks.

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Mistini M Walters



PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.

# QUALITY ASSURANCE / QUALITY CONTROL

## DOCUMENTATION

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### **EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report**

		·	
Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-08-99
Laboratory Number:	12-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Accer	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	100%
		Bromofluorobenzene	100%
References:	Method 1311, Toxicity C	haracteristic Leaching Procedure, SW-	-846, USEPA, July 1992.
	Method 5030, Purge-and	I-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogenat	ed Volatile Organic, SW-846, USEPA,	Sept. 1994.
	Method 8020, Aromatic \	/olatile Organics, SW-846, USEPA, Se	ept. 1994.
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C sectior	n 261.24, July 1, 1992.
Comments:	QA/QC for sample (	C 526 C 526	

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-08-99
Laboratory Number:	12-03-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	12-03-99
		Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	99%
		Bromofluorobenzene	98%
eferences:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SW	-846, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA,	, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, So	ept. 1994.
Note:	Populatory Limits based	I on 40 CFR part 261 Subpart C section	n 261 24 July 1, 1992.

Comments:

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EFA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC		Project #:	N/A	
Sample ID:	Matrix Duplicate		Date Reported:	12-08-99	
Laboratory Number:	G525		Date Sampled:	N/A	
Sample Matrix:	TCLP Extrac	t	Date Received:	N/A	
Analysis Requested:	TCLP		Date Analyzed:	12-07-99	
Condition:	N/A		Date Extracted:	12-03-99	
		Duplicate	······································		
	Sample	Sample	Detection		
	Result	Result	Limits	Percent	
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference	
Vinyl Chloride	ND	ND	0.0001	0.0%	
1,1-Dichloroethene	ND	ND	0.0001	0.0%	
2-Butanone (MEK)	0.0026	0.0026	0.0001	0.0%	
Chloroform	ND	ND	0.0001	0.0%	
Carbon Tetrachloride	ND	ND	0.0001	0.0%	
Benzene	0.0050	0.0050	0.0001	0.0%	
1,2-Dichloroethane	ND	ND	0.0001	0.0%	
Trichloroethene	ND	ND	0.0003	0.0%	
Tetrachloroethene	ND	ND	0.0005	0.0%	
Chlorobenzene	ND	ND	0.0003	0.0%	
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%	

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ad.	12-08-99
Laboratory Number:	G525			Date Sample		N/A
Sample Matrix:	TCLP Extract			•		
				Date Receive		N/A
Analysis Requested:	TCLP			Date Analyze		12-07-99
Condition:	N/A			Date Extracte	ed:	N/A
	······		Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	-
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0026	0.050	0.0521	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0050	0.050	0.0548	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
						42-143
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

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### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

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<u> 'hristun' My Walter</u> Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-07-99
Laboratory Number:	12-03-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)	
o-Cresol	ND	0.020	200	
p,m-Cresol	ND	0.040	200	
2,4,6-Trichlorophenol	ND	0.020	2.0	
2,4,5-Trichlorophenol	ND	0.020	400	
Pentachlorophenol	ND	0.020	100	

Surrogate Recov	eries:	Parameter	Percent Recovery
		2-Fluorophenol 2,4,6-Tribromophenol	98% 99%
References:		, Toxicity Characteristic Leaching Proced 46, USEPA, July 1992.	ure Test Methods for Evaluating Solid
		, Separatory Funnel Liquid-Liquid Extract 46, USEPA, July 1992.	ion, Test Methods for Evaluating Solid
	Method 8040	, Phenols, Test Methods for Evaluating S	olid Waste, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Li	mits based on 40 CFR part 261 subpart (	Section 261.24, July 1, 1992.
Comments:	QA/QC for	sample G525 - G526.	
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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

QA/QC Acce	ptance Criteria:	Parameter	Maximum Difference
		8040 Compounds	30.0%
References:	Method 1311, Toxicity C Waste, SW-846, USEPA	haracteristic Leaching Procedure Test A, July 1992.	Methods for Evaluating Solid
	Method 3510, Separator Waste, SW-846, USEPA	y Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
	Method 8040, Phenols,	Test Methods for Evaluating Solid Wast	te, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C section	261.24, July 1, 1992.
Comments:	QA/QC for sample	G525 - G526.	
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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 **Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-07-99
	:	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

QA/QC Accept	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	95%
References:	•	Characteristic Leaching Procedure, S bry Funnel Liquid-Liquid Extraction, S	· · ·
	•	natics and Cyclic Ketones, SW-846,	· · ·
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.
Comments:	QA/QC for sample	G525 - G526.	

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)	
		Det.	Pogulatory	
		Analysis Requested:	TCLP	
Condition:	Cool and Intact	Date Analyzed:	12-07-99	
Preservative:	Cool	Date Extracted:	12-03-99	
Sample Matrix:	TCLP Extract	Date Received:	N/A	
Laboratory Number:	12-03-TBN-MB	Date Sampled:	N/A	
Sample ID:	Method Blank	Date Reported:	12-07-99	
Client:	QA/QC	Project #:	N/A	

	(	(	(((19,2))	
Pyridine	ND	0.020	5.0	
Hexachloroethane	ND	0.020	3.0	
Nitrobenzene	ND	0.020	2.0	
Hexachlorobutadiene	ND	0.020	0.5	
2,4-Dinitrotoluene	ND	0.020	0.13	
HexachloroBenzene	ND	0.020	0.13	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		2-fluorobiphenyl	101%	
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.			
	Method 3510, Separato	ry Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.	
	Method 8090, Nitroaron	natics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.	
Note:	Regulatory Limits based	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.	

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:		N/A		
Sample ID:	Matrix Duplicate	Date Reported:		12-07-99		
Laboratory Number:	G526	Date Sampled:		N/A		
Sample Matrix:	TCLP Extract	Date Received:		N/A		
Preservative:	N/A	Date Extracted:		12-03-99		
Condition:	N/A	N/A Date Analyzed:				
	· · · ·	Analysis Reque	sted:	TCLP		
	Sample	Duplicate		Det.		
	Result	Result	Percent	Limit		
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)		
Pyridine	ND	ND	0.0%	0.020		
Hexachloroethane	ND	ND	0.0%	0.020		
Nitrobenzene	ND	ND	0.0%	0.020		
Hexachlorobutadiene	ND	ND	0.0%	0.020		
2,4-Dinitrotoluene	ND	ND	0.0%	0.020		
HexachloroBenzene	ND	ND	0.0%	0.020		

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference	
		8090 Compounds	30%	
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.			
	Method 3510, Separato	bry Funnel Liquid-Liquid Extraction, S	SW-846, USEPA, July 1992.	
	Method 8090, Nitroaror	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.	
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.	

Comments:

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

	•						
Client:	QA/QC			Project #:	· .		N/A
Sample ID:	12-08-TCM QA/QC			Date Report	rted:		12-08-99
Laboratory Number:		G525		Date Samp	led:		N/A
Sample Matrix:		TCLP Extra	act	Date Recei	ved:		N/A
Analysis Requested:		TCLP Meta	ls	Date Analy	zed:		12-08-99
Condition:		N/A		Date Extrac			N/A
	strument	Method	Detecti	on Sample	Duplicate	8	
Conc. (mg/L)	Blank	Blank	Limit			Diff.	Range
Arsenic	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Barium	ND	ND	0.001	0.399	0.396	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.064	0.063	1.6%	0% - 30%
Chromium	ND	ND	0.001	0.064	0.064	0.0%	0% - 30%
Lead	ND	ND	0.001	0.029	0.029	0.0%	0% - 30%
Mercury	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.058	0.059	1.7%	0% - 30%
Silver	ND	ND	0.001	0.038	0.038	0.0%	0% - 30%
Spike	190 (S.F. 199) 99 (S.F. 199)	Spike	Sampl	e Spiked	Percent		Acceptance
Conc. (mg/L)		Added		Sample	Recovery		Range
Arsenic		0.500	0.013	0.512	99.8%		80% - 120%
Barium		0.500	0.399	0.897	99.8%		80% - 120%
Cadmium		0.500	0.064	0.563	99.8%		80% - 120%
Chromium		0.500	0.064	0.563	99.8%		80% - 120%

Cadmium	0.500	0.004	0.563	99.8%	80% - 120%
Chromium	0.500	0.064	0.563	99.8%	80% - 120%
Lead	0.500	0.029	0.528	99.8%	80% - 120%
Mercury	0.050	0.007	0.056	98.2%	80% - 120%
Selenium	0.500	0.058	0.557	99.8%	80% - 120%
Silver	0.500	0.038	0.539	100.2%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 6010B Analysis of Metals by Inductively Coupled Plasma-Atomic Emission, SW-846, USEPA, December 1996.

Comments:

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# CHAIN OF CUSTODY RECORD 7582

Client / Project Name	······································		Project Location				ANALYSIS / PARAMETERS							]	
Universal Con	-pressi	m	U.S	U.S. HWY 550											
Sampler.			Client No.				» 0	T				Remarks			1
Harcan a.	Brown		<b>ትይ</b>	=59-0	51	No. of	ntainers								1
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix	Ž	Containers 人人 んしん								1
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					5796 U.S				-		R	eceived Intact			-
20 				⊦arm	ington, N (505)	lew Mex 632-061		01			Co	ol - Ice/Blue Ice	4		

Diatrict I (505) 393-6161       New Mexico         P. Q. Box 1980       Energy Minerals and Natural Resourc         H5058, NM 88241-1980       Energy Minerals and Natural Resourc         District II - (505) 748-1283       Oil Conservation Division         811 5. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         P' trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	Submit Origina
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator ENERGY Sorvices
Verbal Approval Received: Yes 🗌 No 🖂	5. Originating Site Hanne Your
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENULROTECH
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Dowolapico
7. Location of Material (Street Address or ULSTR)	4109 E. Hainst Fanalyton New Horaco
9. <u>Circle One</u> :	
<ul> <li>Generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordent of the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Contributation of wash bay Solids</li> </ul>	n of origin. No waste classified hazardous by
Estimated Volume <u>30</u> cy Known Volume (to be entered by the ope SIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm Ma Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: <u>Harlan M. Brown</u> TELE	······································
(This space for State Use) APPROVED BY: Demy Di Title: Geolog APPROVED BY: Mantan othic TITLE: Geologis.	



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (500) 334-5178 Fax (505)334-5170

GARY E. JOHNSON governor

. \*

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: Dellibrition 4109 & Moun- Forming the Mana 3. Originating Site (name):	<ol> <li>Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401 Location of the Waste (Street address &amp;/or ULSTR):</li> </ol>			
Same as above - wash	Baya			
Attach list of originating sites as appropriate				
4. Source and Description of Waste				
Continuation of Wash Bay	Dolids			
1, DOUG HODGES (Print Name) Hallibuten Energy Services	representative for:			
Hallibutan Energy Services according to the Resource Conservation and Recover 1988, regulatory determination, the above described w	do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)			
EXEMPT oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification				
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.			
For NON-EXEMPT waste the following documentat	tion is attached (check appropriate items):			
MSDS Information	Other (description):			
RCRA Hazardous Waste Analysis Chain of Custody				

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature):	Doug Stacker
Title: <u>Mainterance</u>	Supervision

Date: 11-12-99

#### ≠ 2<u>/</u> 3



### **REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP

01/13/99

Printed Name

DOUGLAS HODGES

Title / Agency

MAINTENANCE SUP / HALLIBUATON

Address

4109 EMAIN

FARMINGTON NM

Signature

Douglas Abre 11-12-99

Date

# ENVIROTICA ....BS

January 28, 1999

Mr. Ed Shannon Halliburton Energy Services, Inc. 4109 East Main Street Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Shannon,

Enclosed are the analytical results for the sample collected from the location designated as "East Main, Farmington-Wash Bay Solids". One soil sample was collected by Envirotech personnel on 01/13/99, and delivered to the Envirotech laboratory on 01/13/99 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 6498 and assigned Laboratory No. E499 for tracking purposes. The sample was extracted on 01/18/99 and analyzed 01/18/99 through 01/27/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech**, **Inc.** 

zcy W Sendler

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tcip0199.lb1

# ENVIROTICHILABS

### PRACTICAL'SOLUTIONS FOR A BETTER TOMORROW

### SUSPECTED HAZARDOUS WASTE ANALYSIS

		-	
Client:	Halliburton	- Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-15-99
Lab ID#:	E499	Date Sampled:	01-13-99
Sample Matrix:	Soil	Date Received:	01-13-99
Preservative:	Cool	Date Analyzed:	01-15-99
Condition:	Cool and Intact	Chain of Custody:	6498
Parameter	Result		
	•		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 7.98	
REACTIVITY:	Negative		
RCRA Hazardous Waste Crite	eria		
Parameter	Hazardous Waste Criterio	n	
IGNITABILITY:	Characteristic of Ignitabilit	y as defined by 40 CFR, Subpart C, Sec. 2	61.21.
	(i.e. Sample ignition upon	direct contact with flame or flash point < 6	0° C.)
CORROSIVITY:		y as defined by 40 CFR, Subpart C, Sec. 2	
	(i.e. pH less than or equal	to 2.0 or pH greater than or equal to 12.5 ;	
REACTIVITY:		as defined by 40 CFR, Subpart C, Sec. 2	
	•	vater, strong base, strong acid, or the gene gases at STP with pH between 2.0 and 12	
Reference:	40 CFR part 261 Subpart (	C sections 261.21 - 261.23, July 1, 1992.	

Comments:

East Main, Farmington.

Itacy W Sendler

Review

# Envirotechelabs

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EFA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

		Detection	Desulators
Condition:	Cool & Intact	Analysis Requested:	TCLP
Preservative:	Cool	Date Analyzed:	- 01-19-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Chain of Custody:	6498	Date Received:	01-13-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Sample ID:	Wash Bay Solids	Date Reported:	01-19-99
Client:	Halliburton	Project #:	92132

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	98%
		Bromofluorobenzene	99%
References:	Method 1311, Toxicity (	city Characteristic Leaching Procedure, SW-846, USEPA, July 1992.	
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA	A, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	Sept. 1994.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

East Main, Farmington.

Analyst

tacy W Sendler Review

# ENVIROTE PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 8040 PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99 -
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.123	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	0.060	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.556	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid **References:** Waste, SW-846, USEPA, July 1992.

> Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

East Main, Farmington.

Luca Analys

Stacy W Sendler

Review

# ENVIROTECH \_\_\_\_BS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Olivest			
Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-22-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.054	0.020	5.0
Hexachloroethane	0.353	0.020	3.0
Nitrobenzene	0.202	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	• ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

98%

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

East Main, Farmington.

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tacy W Sendler Review

# Envirotechelabs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

-	-		
Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-23-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Analyzed:	01-23-99
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

	Concentration	Det. Limit	Regulatory Level	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Arsenic		0.0001	5.0	
Barium	1.53	0.001	21	
Cadmium	0.0329	0.0001 _	0.11	
Chromium	0.0301	0.0001	0.60	
Lead	0.0309	0.0001	0.75	
Mercury	ND	0.0001	0.025	
Selenium	ND	0.0001	5.7	
Silver	ND	0.0001	0.14	

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

East Main, Farmington.

Analyst

tacy W Sendler Review

# CHAIN OF CUSTODY RECORD

Client / Project Name HALLBURTON			Project Location EAST Main FARMINGTON				ANALYSIS / PARAMETERS								1			
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						632-0				. :			Coo	- Ice/Blue	lce	~		

6498

iurice I - (505) 393-6161 O. Box 1980 obbs. NM 88241-1980 Energy Minerals and Natural Resource	Form C-138 Originated 8/8/95
lutic II - (505) 748-1283 Oil Concernation Divisio	
1 S. First Conscivution Division resia, NM 88210 2040 South Pacheco Street	Submit Origina
"ulct III - (505) 334-6178 Santa Fe, New Mexico 87505	5 Plus I Čop
Rio Brazos Road (505) 827-7131	to appropriat District Offic
<u>atrict IV</u> - (505) 827-7131	Env. JN: <u>99043</u>
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🖂	4. Generator Hanovar Compression
Verbal Approval Received: Yes 🗋 No 🖂	5. Originating Site Unit 71453
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Mapico
7. Location of Material (Street Address or ULSTR)	1280 Thor King Rd. Farmington
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be account	ompanied by a certification of waste from the
Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be accept and the Conomistic approval is not becaution and the Conomistic approximation.	
PROVE the material is not-hazardous and the Generator's certificatio listing or testing will be approved.	n of origin. No waste classified nazardous by
All transporters must certify the wastes delivered are only those consigned	d for transport.
BRIEF DESCRIPTION OF MATERIAL:	۰ ۲
Soil Contamination w/ Engine lube oil	
	Devenuer
TCLP ATTACHED	ngreiar
	IN NOV 1 6 1999
	100 1 0 1535 ····
	OIL CON. DIV.
	DIST. 3
	the of statements of the statement of the
	,
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul) <u>3 drums</u> cy
£	······································
SIGNATURE: Harlen Tu Bronn TITLE: Landfarm M	anager DATE: 1(.12.99
Marte Management Exciliple, Apprind Agent	505-632-0615
TYPE OR PRINT NAME: Harlan M. Brown TEL	EPHONE NO
(This space for State Use)	
APPROVED BY: DEnny Se tem TITLE: C color	CIST DATE 11/1/1/0
	VALE: VALE:
APPROVED BY: Thinking This TITLE: Environmenter	
APPROVED BY: TITLE: Chuly TITLE: Chulonmunde	. 600 bg ist DATE: 11/16/99

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NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-6170

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
HANOUER COMPRESSOR CU.	Envirotech Inc.
1280 TROTKINE RU.	Soil Remediation Remediation Facility
FARMINGTON N-M. 87401	Landfarm #2, Hilltop,New Mexico
2. Originating Site (nome):	5796 IIS Hwy 64, Farmington, NM 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
UNIT 71453	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	·
NAUT. BAS ENB. CATCO 3007.	Oil
·	
L	
D	
1. OFORGE PHILLIPS	representative for:
(Print Name)	representative for: do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July,
HANOVER COMPRESSOR GC	2. do hereby certify that,
according to the Resource Conservation and Recov	ery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	J Waste is: (Check appropriate classification)
	MPT oilfield waste which is non-hazardous by characteristic
anaiysis o	or by product identification
and that nothing has been added to the exempt or n	on-exempt non-bazardous waste defined above.
For NON-EXEMPT waste the following document	ration is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
	······································
This waste is in compliance with Regulated Levels of	Naturally Occurring Radioactive Material (NORM) pursuant
o 20 NMAC 3.1 subpart 1403.C and D.	
•	
المرجعة المنتبع الالالية الأسماكين كالمشاعد فليستكف كالتكمي ويبالك بمواجعته ويستعوان ومعقورا ويستع	

Name (Origina	Signature): <u>Hize Pr</u>	Ato,
Title: <u>Emiss</u>	ION SPECIALIST	
Date: ////	0/99	

# FOUROTICH LOBS

October 25, 1999

Mr. George Phillips Hanover Compression, Inc. 1280 Troy King Road Farmington, New Mexico 87401

(505) 325-3220

Client No.: 99043 Job No.: 904302

Dear Mr. Phillips,

Enclosed are the analytical results for the sample collected from the location designated as "71453". One soil sample was collected by Hanover Compression personnel on 10/07/99, and delivered to the Envirotech laboratory on 10/07/99 for Hazardous Waste Characterization analysis (TCLP Volatiles, Semi-volatiles, Trace Metals, Ignitability, Reactivity and Corrosivity).

The sample was documented on Envirotech Chain of Custody No. 7420 and assigned Laboratory No. G168 (2 Barrel Comp.) for tracking purposes. The sample was extracted on 10/11/99 and analyzed 10/11/99 through 10/22/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It has been our pleasure doing business with you and we hope you will consider Envirotech for any of your future environmental contracting needs.

Respectfully submitted, **Envirotech, Inc.** 

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enclosure

SWS\sws\99043-02.lb1/wpd

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Hanover Compression	Project #:	904302
Sample ID:	4 Barrel Composite	Date Reported:	10-14-99
Lab ID#:	G168	Date Sampled:	10-07-99
Sample Matrix:	Soil	Date Received:	10-07-99
Preservative:	Cool	Date Analyzed:	10-11-99
Condition:	Cool and Intact	Chain of Custody:	7420
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 8.19	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criteria			
Parameter	Hazardous Waste Criterion		
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)		
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5 )		
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)		
Reference:	40 CFR part 261 Subpart C se	ections 261.21 - 261.23, July 1, 1992.	
Comments:	71453.		

P. Ceferen Analyst

Itacy W Sendler Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Hanover Compression	Project #:	904302
Sample ID:	4 Barrel Composite	Date Reported:	10-14-99
Laboratory Number:	G168	Date Sampled:	10-07-99
Chain of Custody:	7420	Date Received:	10-07-99
Sample Matrix:	TCLP Extract	Date Extracted:	10-11-99
Preservative:	Cool	Date Analyzed:	10-12-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

	· · · · · · · · · · · · · · · · · · ·	Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0086	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0295	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery		
		Trifluorotoluene	98%	•	
		Bromofluorobenzene	99%		
References:	Method 1311, Toxicity C	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.			
	Method 5030, Purge-and	030, Purge-and-Trap, SW-846, USEPA, July 1992. 010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.			
	Method 8010, Halogena				
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	ept. 1994.		
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.				

Comments: 71453.

L. ( Analyst

Stacy W Sendler

Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 8040 PHENOLS

Client:	Hanover Compression	Project #:	904302
Sample ID:	4 Barrel Composite	Date Reported:	10-15-99
Laboratory Number:	G168	Date Sampled:	10-07-99
Chain of Custody:	7420	Date Received:	10-07-99
Sample Matrix:	TCLP Extract	Date Extracted:	10-11-99
Preservative:	Cool	Date Analyzed:	10-14-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	0.078	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	98%	
	2,4,6-Tribromophenol	99%	

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Analyst

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

71453.

tacy W Sendler Review

# Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Hanover Compression	Project #:	904302
Sample ID:	4 Barrel Composite	Date Reported:	10-15-99
Laboratory Number:	G168	Date Sampled:	10-07-99
Chain of Custody:	7420	Date Received:	10-07-99
Sample Matrix:	TCLP Extract	Date Extracted:	10- <b>11-</b> 99
Preservative:	Cool	Date Analyzed:	10-14-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
	· ·	2-fluorobiphenyl	99%
References: Method 1311, Toxicity Characteristic Leaching Procedure Method 3510, Separatory Funnel Liquid-Liquid Extraction		-	
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		

Comments:

71453.

Stacy W Sendler Review

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

0.75

0.025

5.7

0.14

Client:	Hanover Compression	Project #:	904302
Sample ID:	4 Barrel Composite	Date Reported:	11-05-99
Laboratory Number:	G168	Date Sampled:	10-07-99
Chain of Custody:	7420	Date Received:	10-07-99
Sample Matrix:	TCLP Extract	Date Analyzed:	11-04-99
Preservative:	Cool	Date Extracted:	10-11-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.134	0.001	5.0
Barium	0.498	0.001	21
Cadmium	0.088	0.001	. 0.11
Chromium	0.031	0.001	0.60

0.001

0.001

0.001

0.0005

ND - Parameter not detected at the stated detection limit.

0.527

0.0071

0.108

0.028

 References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.
 Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Lead

Silver

Mercury

Selenium

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: 71453.

Analyst

Christini M Walles Review

# CHAIN OF CUSTODY RECORD

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Client / Project Name			Project Location	1												
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Sampler:			Client No.					1	1				Re	marks		
GEURGE PH	lill:PS		904	4302		No. of	HSP HSP									
Sample No./	Sample Date	Sample Time	Lab Number		Sample Matrix	Ž	22									
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				FOV		TECH		$\mathbf{C}$				Sa	ample R	eceipt		•
														Y	N	N/A
						S. Highway New Mexic		1				Received I	ntact			
						632-0615						Cool - Ice/Bl	lue Ice			

	Reader Rife
District I       2 (505) 393-6161       New Mexico         No. Box 1980       Energy Minerals and Natural Resource         Hobbis, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         811 S. First       2040 South Pacheco Street         Ancesis, NM 88210       2040 South Pacheco Street         Y       LIII - (505) 334-6178	OR Submit Original S Plus I Copy
نوه Brazos Road د	Env. JN:
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 1. I. I. 99	4. Generator EPFS
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site ANGEL Pack Sina 2
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Moss Bocavating
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Mayoico
7. Location of Material (Street Address or ULSTR)	"" See. 8, TZTN, RIOW SJC, NW.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accept accept accept of a comparison of approval to accept non-exempt wastes must be accept accept and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
condangeta taak	of soil from a Leaking
11/4/99 12121 6245 0-13 2	lay (Trictor 1035 Excavely).
Estimated Volume 30	erator at the end of the haul) $2($ cy
Estimated Volume cy Known Volume (to be entered by the ope	rator at the end of the haul) cy
SIGNATURE: Handloom Frace Title: Landfarm M Waste Management FacilityAuthorized Agent	anager DATE:/ <u>0.30.9</u> 9
Harlan M Brown	EPHONE NO
s space for State Use)	
APPROVED BY: Demy De Rent TITLE: Geolo	<u>G (ST</u> DATE: <u>12/3/99</u>
APPROVED BY: Charlie T. Terren TITLE: Tieft K	DATE: 12/3/99

Downy Foust 11.1.99 9:45. M.M.

# **CERTIFICATE OF WASTE STATUS**

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_							
1. 0	Senerator Name and Address:	2. Destination Name:					
	El Paso Field Services Co.	Envirotech Soil Remediation Facility					
	614 Reilly Avenue	Landfarm #2					
	Farmington, NM 87401	Hilltop, New Mexico					
3. C	Driginating Site (name):	Location of Waste(Street address &/or ULSTR):					
Statio	on 2B-3B (Angel Peak Site 2)	Unit C - Section 8 - T27N - R10W, San Juan County, NM					
	tach list of originating sites as appropriate						
4. S	ource and Description of Waste						
Hydr	ocarbon contaminated soil from leaking conde	nsate storage tank					
$\bigcirc$	David Bays	representative for:					
,	(Print Name)						
	El Paso Field Services rding to the Resource Conservation and Recover regulatory determination, the above described	very Act (RCRA) and Environmental Protection Agency's July,					
X		-EXEMPT oilfield waste which is non-hazardous by acteristic analysis or by product identification					
and t	hat nothing has been added to the exempt or r	non-hazardous waste defined above.					
For N	ION-EXEMPT waste only, the following docum	entation is attached (check appropriate items):					
11-2-19	MSDS Information RCRA Hazardous Waste Ana Chain of Custody	Iysis Other (description)					
Name	e (Original Signature):	Ban					
Title:	Principal En	vironmental Scientist					
Date:	October 29,	1999					

urler J (505) 393-6161       New Mexico         9. Pox 1780       Energy Minerals and Natural Resource         tos. NM 88241-1980       Energy Minerals and Natural Resource         urler II - (505) 748-1283       Oil Conservation Division         VS. First       2040 South Pacheco Street         csia. NM 88210       Santa Fe, New Mexico 87505         Vict III - (505) 334-6178       Santa Fe, New Mexico 87505         Ni Brazos Road       (505) 827-7131	NOV 0 4 1999 Submit Origi
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Completions
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Stop
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Sarrano's
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Huns be usico
7. Location of Material (Street Address or ULSTR)	3650 BloomFoold they Formington Nol.
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Contrunation of oil/water separation</li> <li>DECEIVED</li> <li>NOV - 8 1999</li> </ul>	on of origin. No waste classified hazardous by
OIL COND DING Went to Estimated Volume Estimated Volume SIGNATURE: Halan M Brown Waste Management Facility Authonized Agent Harlan M Brown	[] GONo DUVo DUTL 3 Servane's 以名 4/12/01 perator at the end of the haul) cy
(This space for State Use) APPROVED BY: Demonstrate TITLE: GEOLO APPROVED BY: Mant	<u>913</u> <b>DATE</b> : <u>11/2/99</u>

District I = (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         District III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	n Submit Origina
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🎦 Non-Exempt: 🔀	4. Generator Completions
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Stop
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Servens's
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 37401	8. State plans be aprico
7. Location of Material (Street Address or ULSTR)	3650 BloomFrede Hur Farmington Nol.
<ul> <li>9. <u>Circle One</u>:</li> <li>A. All requests for approval to accept olifield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Condensation of a cit (wastes and the cit (wastes approve).</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by t for transport.
Estimated Volume Estimated Volume (to be entered by the ope	erator at the end of the haul)
SIGNATURE: Harlan M. Brown TITLE: Landfarm Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELE	anager DATE: <u>(0.27.99</u> EPHONE NO. 505-632-0615
(This space for State Use) APPROVED BY: Demy & Tem TITLE: Geolog	<u>gist</u> date: <u>11/2/99</u>
APPROVED BY: TITLE:	DATE:



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-5178 Fax (505)334-6170

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

	· · · · · · · · · · · · · · · · · · ·
1. Generator Name and Address: Smith IN TERNATIONAL Drilling & Completion	2. Destination Name: * Envirotech Inc.
3650 Bloom Fineld Hour,	Soil Remediation Remediation Facility
	Landfarm #2, Hilltop, New Mexico
Farmington, New 87401	5796 US Hwy 64. Farmington, NM 87401
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
5A.A.	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Wash bay Socias Qail/w	ater Separaton
Continuation.	· ·
L Frai SANKAET	representative for:
1, Eppie SANCHEZ	<u></u>
Smith International Drilling &	Completions do hereby certify that,
according to the Resource Conservation and Receiver	Completions do hereby certify that, y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	
	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or not	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	tion is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D.	Naturally Occurring Radioactive Material (NORM) pursuant

Name (Original Signature): Eprie 7 - Same
Title: District Manager FAR-1191
Date: 10-27-99



### **REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLF	<u>10.27.98</u>
Printed Name	Eppie Souther
Title / Agency	V District Algr.
Address	3650 Bloomfield blur
	Farmington, Nul
Signature	Eppie 7-dena
Date	10.27.99

**Analytical Results** 

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Smith Drilling and Completions 3650 Bloomfield Highway Farmington, NM

CLIENT:	SMITH INTERNATIONAL						
Project:	SD & C	Farmington, NM					
Lab Order:	9810105						

### **CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

The sludge sample was evaluated for hazardous waste characteristics using Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition. The stormwater sample was evaluated using Standard Methods and EPA Methods for Chemical Analysis of Water and Wastes.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives except where otherwise noted in the following.: The MS/MSD result for barium is slightly above the control limit. This was due to the fact that the TCLP extract being spiked had approximately twice the concentration of barium present than the spiking amount. The spike was only 6% above the control limit and the LSC and LCSD are both within control limits. Therefore no sample result was adversely affected.

#### WASTE EVALUATION

The sludge sample SL-1-SDC-NM (DHL ID# 9810105-01) had no results that exceeded TCLP or RCRA characterization limits and is therefore, non-hazardous for the parameters tested under the RCRA guidelines.



### FLASHPOINT ANALYTICAL RESULTS

DHL PROJECT # : 9810105 CLIENT: Smith International, Inc. CLIENT PROJECT # : N/A LOCATION: SD & C Farmington, NM

Ignitability (Flashpoint) Analyses of Solid

ANALYTICAL METHOD:	EPA 1010	SAMPLE DATE:	10/27/98
MATRIX:	Solid	SAMPLE REC'D:	10/27/98
ANALYST:	DL	SAMPLE CONDITION:	GOOD
REPORT GENERATED BY:	LB	ANALYSIS DATE:	11/7/98
QA REVIEW:	JD	HOLDING TIME (DAYS):	11
SAMPLE ID:	SL-1-SDC-NM		
Flashpoint	> 90 ° C	<b>=</b> ·	

Data Review

9810105.xis / FLASHPOINT

Page 1 of 1

#### **CLIENT:** SMITH INTERNATIONAL **Project Name:** SD & C Farmington, NM **Project No:** SD & C Farmington, NM Lab Order: 9810105

#### Client Sample ID: SL-1-SDC-NM Lab ID: 9810105-01A

Collection Date: 10/27/98 9:15:00 AM

#### Matrix: SLUDGE

Analyses	Result	RL	Qual Units	TCLP Limits	DF	Date Analyzed
TCLP SEMI-VOLATILES		SW1311/82	70C			Analyst: FL
1,4-Dichlorobenzene	ND	0.010	mg/L	7.5	· 1	11/17/98 7:56:00 PM
2,4,5-Trichlorophenol	ND	0.010	mg/L	400	1	11/17/98 7:56:00 PM
2,4,6-Trichlorophenol	ND	0.010	mg/L	2	1	11/17/98 7:56:00 PM
2,4-Dinitrotoluene	ND	0.010	mg/L	0.13	1	11/17/98 7:56:00 PM
2-Methylphenol	0.0132	0.010	mg/L	200	1	11/17/98 7:56:00 PM
3&4-Methylphenol	0.0148	0.010	mg/L	200	1	11/17/98 7:56:00 PM
Hexachlorobenzene	ND	0.010	mg/L	0.13	1	11/17/98 7:56:00 PM
Hexachlorobutadiene	ND	0.010	mg/L	0.5	1	11/17/98 7:56:00 PM
Hexachloroethane	ND	0.010	mg/L	3	1	11/17/98 7:56:00 PM
Nitrobenzene	ND	0.010	mg/L	2	1	11/17/98 7:56:00 PM
Pentachlorophenol	ND	0.010	mg/L	100	1	11/17/98 7:56:00 PM
Pyridine	ND	0.010	mg/L	5	1	11/17/98 7:56:00 PM
CLP VOLATILES		SW1311/826	50B			Analyst: FL
1,1-Dichloroethene	ND	0.0050	mg/L	0.7	1	11/4/98 5:35:00 PM
1,2-Dichloroethane	ND	0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
1,4-Dichlorobenzene	ND	0.0050	mg/L	7.5	1	11/4/98 5:35:00 PM
2-Butanone	ND	0.050	mg/L	200	1	11/4/98 5:35:00 PM
Benzene	0.00504	- 0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
Carbon tetrachloride	ND	0:0050	mg/L	0.5	1	11/4/98 5:35:00 PM
Chlorobenzene	ND	0.0050	mg/L	100	1	11/4/98 5:35:00 PM
Chloroform	ND	0.0050	mg/L	6	1	11/4/98 5:35:00 PM
Tetrachloroethene	ND	0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
Trichloroethene	ND	0.0050	mg/L	0.5	1	11/4/98 5:35:00 PM
Vinyl chloride	ND	0.0050	mg/L	0.2	1	11/4/98 5:35:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds TCLP Maximum Concentration Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

#### **CLIENT:** SMITH INTERNATIONAL Client Sample ID: SL-1-SDC-NM Lab ID: 9810105-01B **Project Name:** SD & C Farmington, NM **Project No:** SD & C Farmington, NM Collection Date: 10/27/98 9:15:00 AM Lab Order: 9810105 Matrix: SLUDGE TCLP

Analyses	Result	RL Qua	d Units	TCLP Limits	DF	Date Analyzed
TCLP MERCURY	S	W1311/7470A				Analyst: BZ
Mercury	0.0641	0.020	mg/L	0.2	1	11/4/98 1:10:00 PM
TCLP METALS	S	W1311/6010B				Analyst: BZ
Arsenic	ND	0.016	mg/L	5	1	11/4/98 4:03:00 PM
Barium	2.01	0.0060	mg/L	100	5	11/4/98 4:31:00 PM
Cadmium	ND	0.0029	mg/L	1	1	11/4/98 4:03:00 PM
Chromium	ND	0.012	mg/L	5	1	11/4/98 4:03:00 PM
Lead	0.0570	0.014	mg/L	5	1	11/4/98 4:03:00 PM
Selenium	ND	0.013	mg/L	<u></u> 1	1	11/4/98 4:03:00 PM
Silver	ND	0.0072	mg/L	5	1	11/4/98 4:03:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

- B Analyte detected in the associated Method Blank
- \* Value exceeds TCLP Maximum Concentration Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

CLIENT: Project Name: Project No: Lab Order:	SD & C	INTERNATIONAL Farmington, NM Farmington, NM		(	<b>Collection Date:</b>	SL-1-SDC-NM 9810105-01B 10/27/98 9:15:00 AM SLUDGE		
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	
PH SOIL pH		7.58	<b>SW9045B</b> 0		pH Units	1	Analyst: JV 11/3/98 9:50:00 AM	
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J - Analyte detected below quantitation limits

- B Analyte detected in the associated Method Blank
- \* Value exceeds Maximum Contaminant Level
- R RPD outside accepted recovery limits E - Value above quantitation range

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CLIENT:	SMITH INTERNATION	IAL		C	lient Sample ID:	SW-1-5	SDC-NM	
Project Name:	SD & C Farmington, N	М			Lab ID:	981010	5-02B	
Project No:	SD & C Farmington, N	М			<b>Collection Date:</b>	10/27/9	8 8:45:00 AM	
Lab Order:	9810105				Matrix:	AQUE	OUS	
Analyses		Result	RL	Qual	Units	DF	Date Analyze	ed
<b>FOTAL SUSPEN</b> Suspended Solid Filterable)	IDED SOLIDS s (Residue, Non-	<b>E160</b> 240	<b>).2</b> 5.0		mg/L	1	Analyst 11/3/98 4:00:00	
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Qualifiers:	ND - Not Detected at the Report	ing Limit			- Spike Recovery out			
· · .·	J - Analyte detected below quan		_		- RPD outside accept			
· .	<ul><li>B - Analyte detected in the association</li><li>* - Value exceeds Maximum Co</li></ul>		nk	E	- Value above quantit	ation range	3	

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Austin Analytical Laboratory 2401 Holly Street P. O. Box 1088 Austin, TX 78767-8814 (512) 505-7840 FAX: 505-7843

November 9, 1998

Jacob Vasquez DHL Analytical 2300 Double Creek Drive

Round Rock, Texas 78664 Phone:388-8222, Fax:388-8229

Enclosed is the laboratory report for the following sample batch:

Sample Batch ID: Job Number: Date Submitted: Submitted by: Received by: Sampler:

98104493 DHLANAL 10/29/98 11:10 Cindy Taylor E. Dudak-Pawlik

The attached analysis results were determined in accordance with the referenced test methods. If you have any question concerning this laboratory report, please contact us at (512) 505-7842.

Sincerely SUL

Larry K Mutschler Acting Laboratory Supervisor Austin Analytical Laboratory

enclosures

# Laboratory Report

Report Date: Monday, November 09, 1998

Client ID	SL-1-SDC-N	M (9810105-01C)			······		
Lab Sample ID	98104493 -	24493			<b>Collection Date</b>	10/27/98	9:15:00 AM
Date Submitted	10/29/98	11:10:00 AM			Sampler		
Submitted by	Cindy Taylo	r			Sample Matrix	SLUDGE	
Received by	E. Dudak-Pa	wlik			QC Sample ID	AA14537	
Parameter Name	3	Result(s)	Units	Reference	e Analys	sis Date	Reporting Limit
Reactive cyanide		179	mg/Kg as HCN	SW846.7	.3 11/6/98	3	25
Reactive sulfide		< 50	mg/Kg as H2S	SW846.7	.3 11/6/98	3	50
<u> </u>							
Client ID	SW-1-SDC-N	IM (9810105-02A)					
Lab Sample ID	98104493 -	24494			<b>Collection Date</b>	10/27/98	8:45:00 AM
Date Submitted	10/29/98	11:10:00 AM			Sampler		
Submitted by	Cindy Taylo	r			Sample Matrix	Water	
Received by	E. Dudak-Pa	wlik		QC Sample ID AA14538			
Parameter Name	•	Result(s)	Units	Reference	e Analys	is Date	Reporting Limit
Total Phosphate		5.84	mg/L as P	SM4500F	<b>2</b> 10/29/9	8	0.196
Client ID	SW-1-SDC-N	M (9810105-02C)					
Lab Sample ID	98104493 -	24495			Collection Date	10/27/98	8:45:00 AM
Date Submitted	10/29/98	11:10:00 AM			Sampler		
Submitted by	Cindy Taylo	•			Sample Matrix	Water	
Received by	E. Dudak-Pa	wlik			QC Sample ID	AA14539	
Parameter Name	)	Result(s)	Units	Referenc	e Analys	is Date	Reporting Limit
Oil and Grease		5.5	mg/L	E1664	11/4/98	L	2.9

Page 1 of 1

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# QC Report for sample batch: 98104493

Reactive cyanide		
QC Batch Number: CN-RX-1162		
Analysis Date: 11/06/98		
QC Sample ID: AA14537		
Method blank	< 0.004	mg HCN
Laboratory control standard	6.64	mg HCN
Laboratory control standard measurement	5.25	mg HCN
Laboratory control standard recovery	79.1	% Recovery
Oil and Grease	- <u></u> ,	
QC Batch Number: O&G_SP-1146		
Analysis Date: 11/04/98		
QC Sample ID: AA14569		
Method blank	< 2.9	mg/L
Laboratory control standard	40.0	mg/L
Laboratory control standard measurement	36.8	mg/L
Laboratory control standard recovery	92.0	% Recovery
Matrix spike added	40.0	mg/L
Matrix spiked sample result	39.2	mg/L
Matrix spike recovery	98.0	% Recovery
Desetive sulfide		
Reactive sulfide		
QC Batch Number: S-RX-1161		
Analysis Date: 11/06/98		
2C Sample ID: AA14537		
Method blank	< 0.0013	mg H2S
Laboratory control standard	-22.7	mg H2S
Laboratory control standard measurement	21.4	mg H2S
Laboratory control standard recovery	94.3	% Recovery
Total Phosphate aqueous		
2C Batch Number: TPO4-1121		
Analysis Date: 10/29/98		
QC Sample ID: AA14502		• •
Method blank	< 0.02	mg/L as P
Laboratory control standard	0.163	mg/L as P
Laboratory control standard measurement	0.163	mg/L as P
Laboratory control standard recovery	100 <sub>.</sub>	% Recovery
Laboratory control standard duplicate		mg/L as P
•	0.163	nig/c as i
Laboratory control standard duplicate measurement	0.163 0.157	mg/L as P
		-
Laboratory control standard duplicate measurement	0.157	mg/L as P

## QC Report for sample batch: 98104493

# Total Phosphate aqueous

#### QC Batch Number: TPO4-1123

Analysis Date: 10/29/98		
QC Sample ID: AA14538		
Matrix spike added	3.26	mg/L as P
Matrix spiked sample result	9.14	mg/L as P
Matrix spike recovery	101	% Recovery
Matrix duplicate	6.00	mg/L as P
Matrix duplicate relative percent deviation	2.70	RPD

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# Unspiked sample results:

Analysis parameter	Result	<u>Units</u>	QC Sample ID
Oil and Grease	< 2.9	mg/L	AA14569
Total Phosphate	5.84	mg/L as P	AA14538

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# CHAIN OF CUSTODY RECORD

	Holly Street Laboratory 2401 Holly Street	Client Sampler	)He Analytical	Dat	e 10-25-	.98
	Austin, TX 78702		Jacob Va	Page Page	ge <u></u> of_(	-
	(512) 505-7840 FAX (512) 505-7843	Cost Trac	king incident	W.O. Number	Batch Num	Well >
	Sample I.D./Description	Matrix	Date/Time	Analysis Request	TAT	Lab I.D.
			Collected	Alialysis Request	Request	Lad I.D.
1						
2	SL-1-SDC-NM (9810105-01C)	Sludge	10-27-98 9:15 Am	Reactivity	Huk	24493
	SW-1-SDC-NM (9810105-07A)	Water	10-27-98 8:45A	Total Phosphorus	I/wk	24494
3	SW-1-SDC-NM (9810105-07C)	Water	10-27-98 8:45AM	1664	Hwk	24495
4						
6		<b>1</b>				
6					+	
7					+	
8		<u> </u>		· ····································		
9	· · · · · · · · · · · · · · · · · · ·				+	
10						
10						, , ,
11						
12		· ·	· · · · · · · · · · · · · · · · · · ·		1	
ı:	List possible sample hazards         1. Relinquished by       Taylor       of       Date/Time_         2. Received by       Image: Control of the second sec		3 <u>  :</u>  0Am 8_11: 0am 		TSS, COD, TO PLM, PCM Matrix Types:	Fe, Cu, Ca, O&G, C, pH, Conductivity, I, Paint, Wipe, Filter,

#### CLIENT: SMITH INTERNATIONAL Work Order: 9810105

# QC SUMMARY REPORT

Project: SD & C Farmington, NM

Method Blank

Sample ID: MB-2252	Batch ID:	2252		Test Code:		SW60	010B	Unit	s: µg/	L	
	Run ID:	ICP_981	1104A	Analysis D	ate:	11/4/9	98 3:29:00 P	M Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%F	REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Arsenic		ND	16								
Barium		NÐ	1.3								
Cadmium		ND	2.9								
Chromium		ND	12				•				
Lead		ND	14								
Selenium		ND	13								
Silver		ND	7.2								
Sample ID: MB-2255	Batch ID:	2255	·····	Test Code:		SW82	260B	– Unit	s: µg/l		
	Run ID:	GCMS2	_981104A	Analysis Di	ate:	11/4/9	8 4:41:00 P	M Prep	Date: 11/4	4/98	
Analyte		Result	PQL	SPK value	%F	REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene		ND	5								
1,2-Dichloroethane		ND	5							-	
1,4-Dichlorobenzene		ND	5								
2-Butanone		ND	50								
Benzene		ND	5								
Carbon tetrachloride		ND	5	-				. ·			
Chlorobenzene		ND	5								
Chloroform		ND	5								
Tetrachloroethene		ND	5								
Trichloroethene		ND	5							•	
Vinyl chloride		ND	5								
Sample ID: MB-2256	Batch ID:	2256	····	Test Code:		SW13	11/7470	Units	s: mg/	L	
	Run ID:	CVAA_9	81104A	Analysis Da	ate:	11/4/9	8 1:10:00 P	M Prep	Date: 11/4	4/98	
Analyte		Result	PQL	SPK value	%R	REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
		ND	0.02								

Qualifiers:

ND - Not Detected at the Reporting Limit

R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

#### **CLIENT:** SMITH INTERNATIONAL Work Order: 9810105

# QC SUMMARY REPORT

Method Blank

**Project:** SD & C Farmington, NM

Sample ID: MB-2270	Batch ID:	2270		Test Code	: SW1	311/8270	Unit	s: mg/	L	
	Run ID:	GCMS3_	981117A	Analysis D	ate: 11/17	7/98 7:23:00	PM Prep	Date: 11/	6/98	
Analyte	F	Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene		ND	0.01							
2,4,5-Trichlorophènol		ND	0.01							
2,4,6-Trichlorophenol		ND	0.01							
2,4-Dinitrotoluene		ND	0.01							
2-Methylphenol		ND	0.01							
3&4-Methylphenol		ND	0.01							
Hexachlorobenzene		ND	0.01							
Hexachlorobutadiene		ND	0.01							
Hexachloroethane		ND	0.01							
Nitrobenzene		ND	0.01							
Pentachlorophenol		ND	0.01							
Pyridine		ND	0.01			•				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT:	SMITH INTERNATIONAL		<b>OC SUMMARY REPORT</b>
Work Order: Project:	9810105 SD & C Farmington, NM		Sample Duplicate
Sample ID: 98101	17-01E DUP Batch ID: TSS W-11/03/98	Test Code: E160.2	Units: ma/L

•	Run ID:	WC_981103B				-		Prep Date:		
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Suspended Solids (Residue, Non-Fi	ilter	42	5	0	0.0%	0	0	6.9%	20	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits,

B - Analyte detected in the associated Method Blank

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#### CLIENT: SMITH INTERNATIONAL Work Order: 9810105

#### **Project:** SD & C Farmington, NM

# **QC SUMMARY REPORT**

Sample Matrix Spike

Sample ID: 9810105-01B MS	Batch ID:	2252		Test Code	e: SW1	311/6010	Uni	ts: mg	/L	
	Run ID:	ICP_98	1104A	Analysis (	Date: 11/4/	98 4:11:00 F	PM Pre	p Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		1.054	0.016	1	105.4%	80	120			
Cadmium		0.981	0.0029	1	98.1%	80	120			
Chromium		0.8832	0.012	1	88.3%	80	120			
Lead		0.9112	0.014	1	85.4%	80	120			
Selenium		1.119	0.013	1	111.9%	80	120			
Silver		1.119	0.0072	1	111.9%	80	120			
Sample ID: 9810105-01B MS	Batch ID:	2252		Test Code	: SW1	311/6010	Unit	s: mg	/L	
	Run ID:	ICP_98	1104A	Analysis [	Date: 11/4/	98 4:39:00 F	PM Prej	p Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium		3.271	0.0065	1	126.1%	80	120			S
Sample ID: 9810105-01B MSD	Batch ID:	2252		Test Code	: SW1:	311/6010	Unit	s: mg/	۲ <u>ـ</u>	
	Run ID:	ICP_98	1104A	Analysis [	Date: 11/4/	98 4:19:00 F	PM Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		1.052	0.016 -	1	105.2%	80	120	0.2%	15	
Cadmium		0.9785	0.0029	1	97.9%	80	120	0.3%	15	
Chromium		0.883	0.012	1	88.3%	80	120	0.0%	15	
Lead		0.928	0.014	1	87.1%	80	120	1.8%	15	
Selenium		1.122	0.013	1	112.2%	80	120	0.3%	15	
Silver		1.08	0.0072	1	108.0%	80	120	3.6%	15	
Sample ID: 9810105-01B MSD	Batch ID:	2252		Test Code	: SW1	311/6010	Unit	s: mg/	۲ <u>۲</u>	
	Run ID:	ICP_98	1104A	Analysis D	Date: 11/4/	98 4:51:00 F	M Pre	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium		3.268	0.0065	1	125.8%	80	120	0.1%	15	S
Sample ID: 9811001-01A MS	Batch ID:	2255		Test Code	: SW8	260B	Unit	s: µg/l	L 1 V	
	Run ID:	GCMS2	_981104A	Analysis D	Date: 11/4/	98 8:16:00 F	M Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene		52.38	5	50	104.8%	75	125	•		
Benzene		50.28	5	50	100.6%	75	125			
Chlorobenzene		52.91	5	50	105.8%	75	125			
Toluene		48.03	5	50	96.1%	75	125			
Trichloroethene		52.02	5	50	104.0%	75	125	4		
Qualifiers: ND - Not Det	ected at the I				PD outside	accepted reco	wany limits			

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 18-Nov-98

# CLIENT: SMITH INTERNATIONAL Work Order: 9810105

# QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Project: SD & C Farmington, NM

Sample ID: 9811001-01A MSD	Batch ID:	2255		Test Code	e: SW8	260B	Unit	s: µg/l	L	
	Run ID:	GCMS2_	981104A	Analysis Date: 11/4/98 8:43:00 PM			M Prep Date: 11/4/98			
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit Qu	ual
1,1-Dichloroethene		51.53	5	50	103.1%	75	125	1.6%	20	
Benzene		49.4	5	50	98.8%	75	125	1.8%	20	
Chlorobenzene		52.41	5	50	104.8%	75	125	0.9%	20	
Toluene		46.94	5	50	93.9%	75	125	2.3%	20	
Trichloroethene		51.32	5	50	102.6%	75	125	1.4%	20	

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Qualifiers: 1

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

#### CLIENT: SMITH INTERNATIONAL

#### Date: 18-Nov-98

# QC SUMMARY REPORT

Laboratory Control Spike - generic

Work Order:9810105Project:SD & C Farmington, NM

Sample ID: LCS-2252	Batch ID:	2252		Test Code	e: SW6	010B	Unit	s: µg/	L	
	Run ID:	ICP_98	31104A	Analysis I	Date: 11/4/	98 3:37:00 F	M Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
Arsenic		1104	16	1000	110.4%	80	120			
Barium		1079	1.3	1000	107.9%	80	120			
Cadmium		1077	2.9	1000	107.7%	80	120			
Chromium		1034	12	1000	103.4%	80	120			
Lead		1093	· 14	1000	109.3%	80	120			
Selenium		1163	13	1000	116.3%	80	120			
Silver		1139	7.2	1000	113.9%	80	120			
Sample ID: LCSD-2252	Batch ID:	2252		Test Code	e: SW6	010B	Unit	s: µg/l		
	Run ID:	ICP_98	1104A	Analysis [	Date: 11/4/	98 3:45:00 F	PM Prep	Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic		1122	16	1000	112.2%	80	120	1.6%	15	
Barium		1093	1.3	1000	109.3%	80	120	1.3%	15	
Cadmium		1098	2.9	1000	109.8%	80	120	2.0%	15	
Chromium		1077	12	1000	107.7%	80	120	4.1%	15	
Lead		1094	14	1000	109.4%	80	120	0.1%	15	
Selenium		1171	13 -	1000	117.1%	80	120	0.6%	15	
Sample ID: LCSD-2252	Batch ID:	2252		Test Code	: SW6	010B	Units	s: µg/l		
	Run ID:	ICP_98	1104A	Analysis (	Date: 11/4/	98 3:55:00 P	M Prep	Date: 11/4	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	. %RPD	RPDLimit	Qual
Silver		1118	7.2	1000	111.8%	80	120	1.8%	15	

Qualifiers:

#### ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

#### CLIENT: SMITH INTERNATIONAL Work Order: 9810105

#### Project: SD & C Farmington, NM

# QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS-2255	Batch ID:	2255		Test Code	: SW8	260B	Uni	its: µg/	L	
	Run ID:	GCMS	2_981104A	Analysis E	)ate: 11/4/	98 4:14:00 F	PM Pre	p Date: 11/	4/98	
Analyte		Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qua
1,1-Dichloroethene		52.05	5	50	104.1%	75	125			
1,2-Dichloroethane		53.01	5	50	106.0%	75	125			
1,4-Dichlorobenzene		52.44	5	50	104.9%	75	125			
2-Butanone		182	50	200	91.0%	50	150			
Benzene		52.37	5	50	104.7%	75	125			
Carbon tetrachloride		54	5	50	108.0%	75	125			
Chlorobenzene		53.91	5	50	107.8%	75	125			
Chloroform		51.56	5	50	103.1%	75	125			
Tetrachloroethene		53.61	5	50	107.2%	75	125			
Trichloroethene		54.56	5	50	109.1%	75	125			
Vinyl chloride		58.02	5	50	116.0%	75	125			
Sample ID: LCS-2256	Batch ID:	2256	****	Test Code	: <b>SW</b> 1:	311/7470	Uni	ts: mg/	۲ <u>ـــــ</u> ـــــ	
	Run ID:	CVAA	_981104A	Analysis D	ate: 11/4/	98 1:10:00 P	M Pre	p Date: 11/	4/98	
Analyte	F	Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury		4.666	0.02	5	93.3%	77	120			
Sample ID: LCSD-2256	Batch ID:	2256		Test Code	: SW1:	311/7470	Unit	ts: mg/	ե Լ	
	Run ID:	CVAA_	981104A	Analysis D	ate: 11/4/	98 1:10:00 P	M Pre	p Date: 11/	4/98	
Analyte	F	Result	PQL	SPK value	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Мегсигу										
Mercury		4.373	0.02	5	87.5%	77	120	6.5%	15	
Sample ID: LCS-2270	Batch ID:	4.373 	0.02	5 Test Code		77 311/8270	120 Unit		<del>.</del>	·····.
		2270	0.02 3_981117A	Test Code	: <b>SW</b> 1:		Unit		 L	
Sample ID: LCS-2270	Batch ID: Run ID:	2270		Test Code	: <b>SW</b> 1:	311/8270	Unit	ts: mg/	 L	Qual
Sample ID: LCS-2270 Analyte	Batch ID: Run ID: F	2270 GCMS	3_981117A	Test Code Analysis D	: SW1: ate: 11/17	311/8270 7/98 6:50:00	Unit PM Pre	ts: mg/ p Date: 11/	L 6/98	Qual
	Batch ID: Run ID: F	2270 GCMS Result	3_981117A PQL	Test Code Analysis D SPK value	: SW1: ate: 11/17 %REC .	311/8270 /98 6:50:00 LowLimit	Unit PM Pre HighLimit	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene	Batch ID: Run ID: F	2270 GCMS Result 0.03	3_981117A PQL 0.01	Test Code Analysis D SPK value 0.04	s SW1: ate: 11/17 %REC . 75.0%	311/8270 7/98 6:50:00 LowLimit 40	Unit PM Pre HighLimit 140	ts: mg/ p Date: 11/	L 6/98	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	Batch ID: Run ID: F	2270 GCMS: Result 0.03 0.0308	3_981117A PQL 0.01 0.01	Test Code Analysis D SPK value 0.04 0.04	: SW1: ate: 11/17 %REC. 75.0% 77.0%	311/8270 //98 6:50:00 LowLimit 40 40	Unit PM Pre HighLimit 140 140	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene	Batch ID: Run ID: F	2270 GCMS: Result 0.03 0.0308 0.0338	3_981117A PQL 0.01 0.01 0.01	Test Code Analysis D SPK value 0.04 0.04 0.04	: SW1: ate: 11/17 %REC. 75.0% 77.0% 84.5%	311/8270 7/98 6:50:00 LowLimit 40 40 40	Unit PM Pre HighLimit 140 140 140	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 2-Methylphenol	Batch ID: Run ID: F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2270 GCMS: Result 0.03 0.0308 0.0338 0.0338	3_981117A PQL 0.01 0.01 0.01 0.01	Test Code Analysis D SPK value 0.04 0.04 0.04 0.04	: SW1: ate: 11/17 %REC. 75.0% 77.0% 84.5% 45.0%	311/8270 //98 6:50:00 LowLimit 40 40 40 40 40	Unit PM Pre HighLimit 140 140 140 140	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene 2,4,5-Trichlorophenol	Batch ID: Run ID: F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2270 GCMS: Result 0.03 0.0308 0.0338 0.038 0.038	3_981117A PQL 0.01 0.01 0.01 0.01 0.01	Test Code Analysis D SPK value 0.04 0.04 0.04 0.04 0.04	: SW1: ate: 11/17 %REC 75.0% 77.0% 84.5% 45.0% 72.0% 83.0% 87.0%	311/8270 //98 6:50:00 LowLimit 40 40 40 40 40 40	Unit PM Pre HighLimit 140 140 140 140 140 140 140 140	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 2-Methylphenol 3&4-Methylphenol	Batch ID: Run ID: F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2270 GCMS: Result 0.03 0.0308 0.0338 0.0338 0.018 0.0288 0.0664	3_981117A PQL 0.01 0.01 0.01 0.01 0.01 0.01	Test Code Analysis D SPK value 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	: SW1: ate: 11/17 %REC 75.0% 77.0% 84.5% 45.0% 72.0% 83.0%	311/8270 /98 6:50:00 LowLimit 40 40 40 40 40 40 40	Unit PM Pre HighLimit 140 140 140 140 140 140 140	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 2-Methylphenol 3&4-Methylphenol Hexachlorobenzene	Batch ID: Run ID: F	2270 GCMS: Result 0.03 0.0308 0.0338 0.0338 0.018 0.0288 0.0664 0.0348	3_981117A PQL 0.01 0.01 0.01 0.01 0.01 0.01 0.01	Test Code Analysis D SPK value 0.04 0.04 0.04 0.04 0.04 0.04 0.08 0.04	: SW1: ate: 11/17 %REC 75.0% 77.0% 84.5% 45.0% 72.0% 83.0% 87.0%	311/8270 /98 6:50:00 LowLimit 40 40 40 40 40 40 40 40 40	Unit PM Pre HighLimit 140 140 140 140 140 140 140 140	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 2-Methylphenol 3&4-Methylphenol Hexachlorobenzene Hexachlorobutadiene	Batch ID: Run ID: F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2270 GCMS: Result 0.03 0.0308 0.0338 0.018 0.0288 0.0664 0.0348 0.0332	3_981117A PQL 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Test Code Analysis D SPK value 0.04 0.04 0.04 0.04 0.04 0.08 0.04 0.04	: SW1: ate: 11/17 %REC 75.0% 77.0% 84.5% 45.0% 72.0% 83.0% 83.0% 83.0%	311/8270 /98 6:50:00 LowLimit 40 40 40 40 40 40 40 40 40 40	Unit PM Pre HighLimit 140 140 140 140 140 140 140 140 140	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual
Sample ID: LCS-2270 Analyte 1,4-Dichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4-Dinitrotoluene 2-Methylphenol 3&4-Methylphenol Hexachlorobenzene Hexachlorobutadiene Hexachloroethane	Batch ID: Run ID: F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2270 GCMS: Result 0.03 0.0308 0.0338 0.0338 0.018 0.0288 0.0664 0.0348 0.0332 0.0244	3_981117A PQL 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.0	Test Code Analysis D SPK value 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.0	: SW1: ate: 11/17 %REC 75.0% 77.0% 84.5% 45.0% 72.0% 83.0% 83.0% 83.0% 61.0%	311/8270 /98 6:50:00 LowLimit 40 40 40 40 40 40 40 40 40 40	Unit PM Pre HighLimit 140 140 140 140 140 140 140 140 140	ts: mg/ p Date: 11/	L 6/98 RPDLimit	Qual

Qualifiers:

ND - Not Detected at the Reporting Limit

R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Méthod Blank

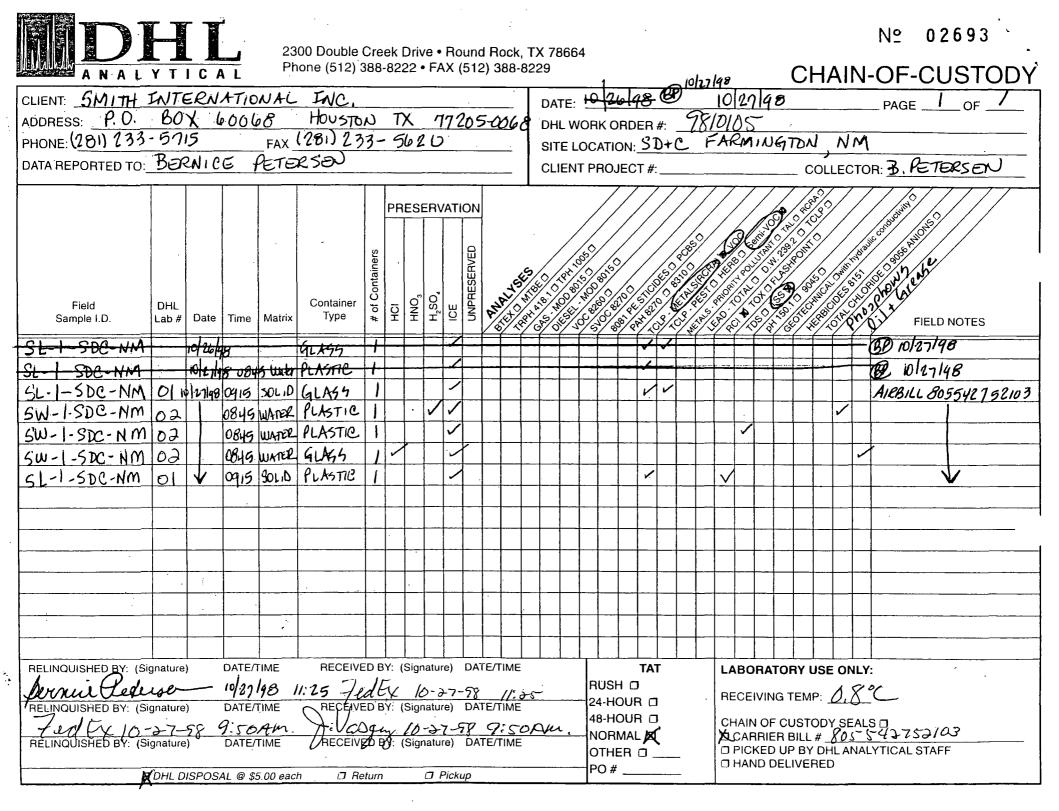
S - Spike Recovery outside accepted recovery limits

# Spreadsheet

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Smith Drilling and Completions 3650 Bloomfield Highway Farmington, NM

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District I - (505) 393-6161       New Mexico         P. O. Box 1980       Hobba NM 88241-1980       Energy Nunerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         Virtict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Playa Ministeds &
Verbal Approval Received: Yes 🔀 No 🔲	5. Originating Site HGU WELL # 230
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduiro Lech.
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Nordel Stico - UND.
7. Location of Material (Street Address or ULSTR)	500 500 50235; T31N RIGW.
9. <u>Circle One</u> :	
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be according PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Classe up of a created aid upset a	on of origin. No waste classified hazardous by
Estimated Volume cy Known Volume (to be entered by the ope	erator at the end of the haul)
SIGNATURE: Harlan M. Brown TITLE: Landfarm M. Brown TEL	Manager       DATE: /0./8.99         505-632-0615         EPHONE NO.
(This space for State Use) APPROVED BY: Demy De Terry TITLE: Geolo APPROVED BY: Form De TITLE: Geolo	0915T DATE: 11/3/99
APPROVED BY:	DATE:



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR OL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIG BRAZOS ROAD AZTEC, NEW MEXICO 87410 [505] 334-6178 Fax (505)334-6170

JENNIFER A. SALISBURY CABINET SECRETARY

# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: PLAYA Minerals & Energy, Inc.	2. Destination Name: EnviroTech, Inc.
650 N. Sam Houston Pkwy. E. #500 Houston, Texas 77060	Soil Remediation - Remediation Facility 5796 U.S. Hwy. 64, Farmington, NM 87401
<ul> <li>3. Originating Site (name): Central Resources, Inc. Horseshoe Gallup Well #230 SW 1/4 SW 1/4, Sec. 35 T31N R16W Ute Mountain Ute Reservation Attach Hat of Originating Sites an appropriate</li> <li>4. Source and Description of Waste Flowline ruptured HGU Well #230 conta with approx. 1 bbl of produced crude</li> </ul>	Location of the Waste (Street address &/or ULSTR): aminating approx. 4 to 5 yds. of soil oil.
·	
I, Mark L. Ehrman (Priot Name)	representative for:
PLAYA Minerals & Energy, Inc.	do hereby certify that,
	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described v	
	IPT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or nor	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documenta MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	tion is attached (check appropriate items): Other (description):
This waste is in compliance with Regulated Levels of N to 20 NMAC 3.1 subpart 1403.C and D.	laturally Occurring Radioactive Material (NORM) pursuant
Name (Original Signature):	
Title: Regulatory & Environmental	
Date: 10/08/99	

OIL CONSERVATION DIVISION - 2040 \$ Pachaco-Santa Fe. NM. 87606 - (506) #77-7111



## UTE MOUNTAIN UTE TRIBE

P.O. Box 248 Towaoc, Colorado 81334-0248 (970) 565-3751

October 8, 199

OCT 12 1-

**FNVIROTECH INC.** 

Mark Ehrman Playa Minerals and Energy Inc. 650 North Sam Houston Parkway E., Suite 500 Houston, TX 77060

Re: Notification of Transportation of Petroleum Contaminated Soil - Exempt Central Resources Horseshoe Gallup Unit -SW ¼, SW ¼ Section 35, T 31 N, R 16 W Ute Mountain Ute Reservation

Dear Mr. Ehrman:

Thank you for notifying the Ute Mountain Ute Environmental Programs Department of the transportation of oil field waste from the above referenced site to an approved disposal site in New Mexico. It is our understanding that petroleum contaminated soil will be removed to the Envirotech disposal facility in Farmington, New Mexico.

Certification may be required by the State of New Mexico Oil Conservation Commission (NMOCD) from your company, the transporter or the generator. Transportation of this waste may be subject to other state and federal laws. The Ute Mountain Ute Tribe accepts no liability associated with the disposal of this waste.

Sincerely,

Cindy Crist/Director Environmental Programs Department Ute Mountain Ute Tribe

Cc: Harlan Brown, Envirotech Gordon Hammond, UMU Energy Department Ilyse Auringer, BLM

District I -: (505) 393-6161       New Mexico         P O Box 1980       Hotbs, NM 88241-1980         Hotbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         P' trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator 5 500 500
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Harry Yawal
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Serveno's
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	B. State Num Hapico
7. Location of Material (Street Address or ULSTR)	1515 W. Hurray Dr. Farminday
<ul> <li>9. <u>Circle One:</u></li> <li>A. All requests for approval to accept olifield exempt wastes will be accondentator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accondentator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accondentator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accondentator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accondentator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accondentator; one certification and the Generator's certification isting or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Wank bay Solidos</li> <li>Compression Creenhouling</li> <li>DE</li> <li><u>Compression Creenhouling</u></li> <li><u>OILL</u></li> <li><u>Weven Hauled</u></li> <li><u>DE</u></li> <li><u>Estimated Volume</u></li> <li><u>20 bbls</u> cy Known Volume (to be entered by the openation)</li> </ul>	mpanied by necessary chemical analysis to not origin. No waste classified hazardous by for transport. $DECEVED$ OCI 2 1 1999 ODL COMO DIVO CEIVED OCI - 6 1999 COMO DIVO DIVO DIVO DIVO DIVO DIVO DIVO DIVO
SIGNATURE: Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown (This space for State Use) APPROVED BY: Memory Rent Title: Geolo	EPHONE NO
APPROVED BY: Minten Mint - TITLE: Environm	unto 1 Geolog St DATE: 10/18/99

	New Mexico als and Natural Resource Dil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	ON Submit Original
REQUEST FOR	APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀		4. Generator 5 Tero an 8 an
Verbal Approval Received: Yes 🛄	No 🔀	5. Originating Site Hanne Youral
2. Management Facility Destination Fac	otech Soil Remedia. ility Landfarm #2	6. Transporter Servens's
3. Address of Facility Operator 5796 UK Farming	S Highway 64 gton, NM 87401	8. State Man Hapter
7. Location of Material (Street Address or UL	STR)	1515 W. Hurray Dr. Farminghan
Generator; one certificate per job. B. All requests for approval to accept not PROVE the material is not-hazardous listing or testing will be approved. All transporters must certify the wastes delir BRIEF DESCRIPTION OF MATERIAL: Washbay Socios TCLP Attack Compressor overhau	n-exempt wastes must be accordand the Generator's certification vered are only those consigned and the Generator's certification vered are only those consigned DEC DEC 0C	EIVED T - 6 1999 GUILLE LIVE DIST. 2:
SIGNATURE: Herber Miller	TITLE: Landfarm M	fanager DATE: /D.6.??
Waste Management FacilityAuthorized Ag TYPE OR PRINT NAME:	jent	EPHONE NO
(This space for State Use)		
APPROVED BY: peny Dr Ze	ent TITLE: Beoloc	<u>G15</u> DATE: <u>198199</u>
APPROVED BY:	TITLE:	DATE:

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCÉS DEPARTMENT

OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Far (505)334-6170

# 21 2

;5056321865

GARY E. JOHNSON GOVERNOR

JENNIFER A. SALISBURY CABINET SECRETARY

## **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: Stewart & Stevenson Power Inc. 1515 Nest Murray Drive Farmington, NM 87401	<ol> <li>Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</li> </ol>
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Stewart & Stevenson Power Inc. 1515 West Murray Drive Farmington, NM 87401	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Wash Bay Sludge Pit	

١,	Dale Stevens		represer	ntative for:
	Stewart & Stevenson Po		C. do he	reby certify that,
			nd Recovery Act (RCRA) and Environmental Protec described waste is: (Chack appropriate classification)	tion Agency's July,
	EXEMPT oilfield waste		NON-EXEMPT oilfield waste which is non-hazardou: analysis or by product identification	s by characteristic
and	that nothing has been added to	o the exi	mpt or non-exempt non-hazardous waste defined a	ibove.
For	NON-EXEMPT waste the fo	llowing	locumentation is attached (check appropriate items	s):

**MSDS** Information

- Other (description):
- ХΧ **RCRA Hazardous Waste Analysis**

- XX Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature):	Dale	Steven

Title: Branch Manager

Date: 10/6/99

OCT 06 '99 14:23



### ANALYTICAL RESULTS FOR

Stewart & Stevenson Power 1515 W. Murray Drive Farmington, New Mexico 87401 Attn: Dale Stevens

Name of Collector : Wayne Work

ASSIGNED<br/>TRANS-ENVIRO #CUSTOMER<br/>IDSAMPLE<br/>MATRIXSITE, DATE &<br/>TIME OF COLLECTION990125-04-A---SludgeFarmington,<br/>New Mexico<br/>P.O. #452135

Laboratory Information : Sample was refrigerated upon receipt

and analyzed as received. Released by:

TRANS-ENVIRO ANALYTICAL SERVICES, INC.

Mark Kalmeyer

Lab Manager

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Alter Artesperger

H.Sitzbkhan Husein Sitabkhan President/Lab Director

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Page 1 of 7

19701 SOUTH MILES ROAD, WARRENSVILLE HEIGHTS, OHIO 44128 TEL: (216) 663-0806 • FAX: (216) 663-0656

### Laboratory Accreditation's and Certifications

OHIO EPA DIVISION of DRINKING and GROUNDWATER - 4041 PA Dept. of ENVIRONMENTAL RESOURCES - 68-434 NEW YORK STATE Dept. of HEALTH - 11167 STATE of TENNESSEE Div. of UNDERGROUND STORAGE TANKS ALABAMA Dept. of ENVIRONMENTAL MANAGEMENT - 41020 KENTUCKY Dept. of ENVIRONMENTAL PROTECTION - 90085 STATE of MICHIGAN Dept. of PUBLIC HEALTH WEST VIRGINIA Dept. of ENVIRONMENTAL PROTECTION- 238 AMERICAN INDUSTRIAL HYGIENE ASSOCIATION - 18677 OHIO Dept. of HEALTH LEAD PROGRAM - 10023

#### **Assumed Client Responsibility and Disclaimer**

Trans-Enviro Analytical Services, Inc. (TEAS) shall provide the services contained in accordance with good laboratory practice (GLP), and accepted analytical procedures and shall be free from material defect in workmanship. The analytical data is limited to findings based upon the sample received for analysis and/or information provided by the client. TEAS's sole obligation hereunder shall be to reperform services which are materially deficient because of TEAS's failure to perform said services in accordance with the Agreement and the standards of the laboratory analytical protocol. Any such deficiencies should be reported in writing to TEAS within thirty days of the discovery thereof, but in no event later than one year from the performance of the services by TEAS.

Except as aforementioned, TEAS makes no express or implied warranty of merchantability of fitness for a particular purpose on the services and/or related materials furnished by TEAS. In no event shall TEAS be liable for any indirect, special or consequential damages, nor shall TEAS be liable in any event, including its obligation to reperform, for any losses, damages or claims in excess of the amount paid to TEAS for the services performed. Date : 02/02/99

Date Received : 01/25/99 Date Extracted: 01/27-29/99 Date Analyzed : 02/01/99 Power

Analysis For : Stewart & Stevenson Power

TRANS-ENVIRO # : 990125-04-A

Customer I.D. : ---

### TCLP CONTAMINANTS

PARAMETER/(EPA HW No. <sup>1</sup> )		DL mg/L	<u>RL mg/L</u>	RESULTS mg/L
Benzene	(D018)	0.05	0.5	0.072
Carbon tetrachloride	(D019)	0.05	0.5	BDL
Chlorobenzene	(D021)	0.05	100.0	BDL
Chloroform	(D022)	0.05	6.0	BDL
o-Cresol	(D023)	0.1	200.0	BDL
m&p-Cresol (D024)	(D025)	0.2	200.0	BDL
Cresol, total	(D026)	0.3	200.0	BDL
1,4-Dichlorobenzene	(D027)	0.05	7.5	BDL
1,2-Dichloroethane	(D028)	0.05	0.5	BDL
1,1-Dichloroethylene	(D029)	0.05	0.7	BDL
2,4-Dinitrotoluene	(D030)	0.1	0.13	BDL
Hexachlorobenzene	(D032)	0.1	0.13	BDL
Hexachlorobutadiene	(D033)	0.1	0.5	BDL
Hexachloroethane	(D034)	0.1	3.0	BDL
Methyl ethyl ketone	(D035)	0.5	200.0	BDL
Nitrobenzene	(D036)	0.1	2.0	BDL
Pentachlorophenol	(D037)	0.5	100.0	BDL
Pyridine	(D038)	0.1	5.0	BDL
Tetrachloroethylene	(D039)	0.05	0.7	BDL
Trichloroethylene	(D040)	0.05	0.5	BDL
2,4,5-Trichlorophenol	(D041)	0.1	400.0	BDL
2,4,6-Trichlorophenol	(D042)	0.1	2.0	BDL
Vinyl chloride	(D043)	0.05	0.2	BDL

DL = Detection Limit RL = Regulatory Limit

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BDL = Below Detection Limit 1 = Hazardous Waste Number

Method : EPA SW 846(8260,8270,1311)

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TRANS-ENVIRO ANALYTICAL SERVICES, INC.

19701 SOUTH MILES ROAD, WARRENSVILLE HEIGHTS, OHIO 44128 TEL: (216) 663-0808 • FAX: (216) 663-0656

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### SURROGATE

TRANS-ENVIRO # : 990125-04-A

Customer I.D. : ---

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SURROGATE	% RECOVERY	<u>% ACCEPTABLE LIMITS</u>
Volatile Organic Compounds		
Dibromofluoromethane Toluene-d8 Bromofluorobenzene	115 107 103	86 - 118 88 - 110 86 - 115
Semi-Volatile Organic Compounds		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol	69 62 69 99 71 66	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$

TRANS-ENVIRO ANALYTICAL SERVICES, INC. 19701 SOUTH MILES ROAD, WARRENSVILLE HEIGHTS, OHIO 44128 TEL: (216) 663-0808 • FAX: (216) 663-0656

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Date : 02/02/99

Date	Received :	01/25/99
Date	Extracted:	01/27/99
Date	Analyzed :	01/29/99

Analysis For : Stewart & Stevenson Power

TRANS-ENVIRO # : 990125-04-A

Customer I.D. : ---

		CHARACTERISTIC O METALS	of TCLP	
<u>ELEMENT/(</u>	EPA HW No. <sup>1</sup> )	DL mg/L	<u>RL mg/L</u>	RESULTS mg/L
Arsenic Barium Cadmium Chromium Lead Mercury Selenium Silver	(D004) (D005) (D006) (D007) (D008) (D009) (D010) (D011)	0.336 0.015 0.027 0.026 0.136 0.0004 0.397 0.009	5.0 100.0 1.0 5.0 5.0 0.2 1.0 5.0	BDL <b>1.63</b> BDL BDL BDL BDL BDL BDL

RL = Regulatory Limit

- DL = Detection Limit
- BDL = Below Detection Limit
- 1 = Hazardous Waste Number

Methods : Extraction - EPA SW 846(1311) Mercury - EPA SW 846(7470) Other metals - EPA SW 846(6010)

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TRANS-ENVIRO ANALYTICAL SERVICES, INC. 19701 SOUTH MILES ROAD, WARRENSVILLE HEIGHTS, OHIO 44128 TEL: (216) 663-0808 • FAX: (216) 663-0656

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### METHOD BLANK

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## TCLP CONTAMINANTS

PARAMETER/(EPA HW No. <sup>1</sup> )		DL mg/L	<u>RL mg/L</u>	<u>RESULTS mg/L</u>
Benzene	(D018)	0.05	0.5	BDL
Carbon tetrachloride	(D019)	0.05	0.5	BDL
Chlorobenzene	(D021)	0.05	100.0	BDL
Chloroform	(D022)	0.05	6.0	BDL
o-Cresol	(D023)	0.1	200.0	BDL
m&p-Cresol (D024)	(D025)	0.2	200.0	BDL
Cresol, total	(D026)	0.3	200.0	BDL
1,4-Dichlorobenzene	(D027)	0.05	7.5	BDL
1,2-Dichloroethane	(D028)	0.05	0.5	BDL
1,1-Dichloroethylene	(D029)	0.05	0.7	BDL
2,4-Dinitrotoluene	(D030)	0.1	0.13	BDL
Hexachlorobenzene	(D032)	0.1	0.13	BDL
Hexachlorobutadiene	(D033)	0.1	0.5	BDL
Hexachloroethane	(D034)	0.1	3.0	BDL
Methyl ethyl ketone	(D035)	0.5	200.0	BDL
Nitrobenzene	(D036)	0.1	2.0	BDL
Pentachlorophenol	(D037)	0.5	100.0	BDL
Pyridine	(D038)	0.1	5.0	BDL
Tetrachloroethylene	(D039)	0.05	0.7	BDL
Trichloroethylene	(D040)	0.05	0.5	BDL
2,4,5-Trichlorophenol	(D041)	0.1	400.0	BDL
2,4,6-Trichlorophenol	(D042)	0.1	2.0	BDL
Vinyl chloride	(D043)	0.05	0.2	BDL

DL = Detection Limit RL = Regulatory Limit

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BDL = Below Detection Limit 1 = Hazardous Waste Number

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Method : EPA SW 846(8260,8270)

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TRANS-ENVIRO ANALYTICAL SERVICES, INC. 19701 SOUTH MILES ROAD, WARRENSVILLE HEIGHTS, OHIO 44128 TEL: (216) 663-0808 • FAX: (216) 663-0656

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### METHOD BLANK

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SURROGATE RECOVERIES

SURROGATE	% RECOVERY	<u>% ACCEPTABLE LIMITS</u>
Volatile Organic Compounds		
Dibromofluoromethane Toluene-d8 Bromofluorobenzene	105 106 90	86 - 118 88 - 110 86 - 115
Semi-Volatile Organic Compounds		
Nitrobenzene-d5 2-Fluorobiphenyl Terphenyl-d14 2-Fluorophenol Phenol-d6 2,4,6-Tribromophenol	54 41 57 58 40 32	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$

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TRANS-ENVIRO ANALYTICAL SERVICES, INC.

19701 SOUTH MILES ROAD, WARRENSVILLE HEIGHTS, OHIO 44128 TEL: (216) 663-0808 • FAX: (216) 663-0656

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#### CHARACTERISTIC of TCLP METALS

<u>ELEMENT/(</u>	EPA HW No. <sup>1</sup> )	DL mg/L	RL mg/L	<u>RESULTS mg/L</u>
Arsenic	(D004)	0.336	5.0	BDL
Barium	(D005)	0.015	100.0	BDL
Cadmium	(D006)	0.027	1.0	BDL
Chromium	(D007)	0.026	5.0	BDL
Lead	(D008)	0.136	5.0	BDL
Mercury	(D009)	0.0002	0.2	BDL
Selenium	(D010)	0.397	1.0	BDL
Silver	(D011)	0.009	5.0	BDL

RL = Regulatory Limit

DL = Detection Limit

- BDL = Below Detection Limit
- 1 = Hazardous Waste Number

Methods : Mercury - EPA SW 846(7470) Other metals - EPA SW 846(6010)

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TRANS-ENVIRO ANALYTICAL SERVICES, INC. 19701 SOUTH MILES ROAD, WARRENSVILLE HEIGHTS, OHIO 44128 TEL: (216) 663-0808 • FAX: (216) 663-0656

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19701 SOUTH MILES ROA	AIN-OF-CUSTO ANALYTICAL S WARRENSVILLE H 663-0808 FAX: (210	SERVICES, I HEIGHTS, OHIO		COMP	ANY	+04-				(	CUSTO	MER I			DN 515 W. Murray Drive
TEL: (210)	000-000 PAN. (21)	5) 005-0050			ACT NAM										nington, NM
COLLECTOR(S) NAME(S) prin	Navne Nork			CONT		ट _ग्रम् प्र	ne c		RAME				cm_		STATE/ZIPNew_Mexico
COLLECTOR(S) SIGNATURE( TURN-AROUND (circle): PRIORITY SERVICE APPROV	i) <u>[]aqad</u> 24-hr 48-hr		)ne Week	Regular (	Regular TCLP		SVOC	metals							PHONE (505) <u>325-5071</u> FAX (505) <u>326-4218</u> Purchase Order No <u>452135</u>
	ngton, New M			1		1.0	$\mathbf{C}$	C							SAMPLES WILL BE DISPOSED OF IN ACCORDANCE WITH TRANS-ENV
DATE LOGGED: 12	P VERBAL	RESULTS DUE:		SALESPERSC	N:	(L.)	C L	てい							ANALYTICAL SERVICES, INC.'S TERMS & CONDITIONS.
T-E-A-S #	CUSTOMER SAMPLE	DATE		SAMPLE MATRIX	No. of CON- TAINERS	+		[ 							REMARKS
T90125-0-1A				Slitteft		X	X	X						+	
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Relinquished by (sign)	<u>,</u>	ate/Time	Received by	(sign)				Date/	Time		Report to	o be ser	t (if diffe	rent that	n customer information):
Relinquished by (sign) Relinquished by (sign)		ate/Time rate/Time	Received by					Date/ Date/			Report to		t (if diffe	rent that	n customer information):
	Ð		Received by Received fo				1/2:		Time				t (if diffe	rent tha	n customer information):

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District I - (505) 393-6161 P. O. Box 1965 Hobbs 3-4M 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Protect III - (505) 334-6178 Rio Brazos Road c, NM 87410 District IV - (505) 827-7131 New Mexico Energy Minerals and Natural Resource Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	n OCT 1 8 1999 Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator Williems Fi-la Sarvice
Verbal Approval Received: Yes 🗋 No 🖂	5. Originating Site Horse Conyon Rebeiler
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter was
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Junity and a co
7. Location of Material (Street Address or ULSTR)	5 26, T 30 N, R9W.
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accepted and the generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Configuration of the second sec</li></ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by d for transport.
Estimated Volume L	erator at the end of the haul) cy
SIGNATURE: Harlan M. Brown TITLE: Landfarm M	Ianager       DATE: (0.6.99)         505-632-0615
(This space for State Use) APPROVED BY: Demy & Team TITLE: Geolog APPROVED BY: Multiple John TITLE: Emprone	DATE: 10/3/99 model Geologist DATE: 10/18/19

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District Î - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hóbbs. NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         D' trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator Willieus Field Sarvice
Verbal Approval Received: Yes 🗋 No 🖂	5. Originating Site Horse Canyon Reberlar
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter was
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Junithanco
7. Location of Material (Street Address or ULSTR)	5 ac 26, T30N, R9W,
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerators for approval to accept non-exempt wastes must be accordenerator and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Contramediation of Reboilter Studies</li> <li>TCLP &amp; Novens Amarsis</li> <li>DIF</li> </ul>	mpanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Estimated Volume L L L cy Known Volume (to be entered by the open	rator at the end of the haul) cy
SIGNATURE: Harlan M. Brown TITLE: Landfarm Ma Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELE	Anager       DATE: [0.6.99]         505-632-0615         PHONE NO.
(This space for State Use) APPROVED BY: Demy Bettern TITLE: Geolog.	<u>tst</u> date: <u>10/8/99</u>
APPROVED BY: TITLE:	DATE:

## **CERTIFICATE OF WASTE STATUS**

2. Destination Name: EAUIROTECH; LANDERDAL#2 5796 U.S. Hurry 64 Facuington Dul. 87401 Location of the Waste (Street address &/or ULSTR):
5796 U.S. Hurr 64 Farmington, Dur. 87401
Facmington, Duc. 87401
· · · · · · · · · · · · · · · · · · ·
representative for:
do hereby certify that,
very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
EMPT oilfield waste which is non-hazardous by characteristic or by product identification
ion-exempt non-hazardous waste defined above.
umentation is attached (check appropriate items): Other (description):

PESCO

## NORM SURVEY DATA SHEET

Williams field		
Facility / location: HOLSE CANYON	CDP	Date: 9-29-99
Meter Model: DOSIMETER 3007A	Serial No: 9808-2	38
Detector Model: DOSIMETER 3012	Serial No: 201-88	7-7100
Calibration Date: 4-5-99		
Battery Check: ( 1/-)		
Background Radiation Level: 0.0. m	R/hr	
Description of material surveyed: WASTE Solids FROM	REDOILER	(slulge)
Item / N         Waste Material:	<u> </u>	veyed: 1R/hr: <u>0-03</u>
Comments:		
Survey Conducted by: <u>GARY W Ha</u> (Print Name) <u>Jaryld Har</u> (Signature)	ی در 	



March 5, 1999

Mr. Bill Beevers Williams Field Service, Inc. Manzanares District P.O. Box 215 Bloomfield, NM 87413

(505) 320-4642 Fax (505) 632-4781

Project No.: 97050 Job No.: 705004

Dear Mr. Beevers,

Enclosed are the analytical results for one liquid sample collected from the location designated as "Horse Canyon". One liquid sample identified as "Waste Water" was collected by WFS designated personnel on 02/22/99, and delivered to the Envirotech laboratory on 02/22/99 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Trace Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 6615 and assigned Laboratory No. E696 for tracking purposes. The sample was analyzed 02/22/99 through 03/05/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It has been our pleasure doing business with you and we hope you will consider Envirotech, Inc. for any of your future environmental contracting needs.

Respectfully submitted, **Envirotech, Inc.** 

Stacy W./Sendler 🗸 Environmental Scientist/Laboratory Manager

enclosure

SWS\sws\97050-04.lb2/wpd

## WROTI

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 1311 **TOXICITY CHARACTERISTIC** LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Williams Field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	03-03-99
Laboratory Number:	E696	Date Sampled:	02-22-99
Chain of Custody:	6615	Date Received:	02-22-99
Sample Matrix:	Water	Date Analyzed:	03-03-99
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
		Det.	Regulatory
1	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	0.0473	0.0001	5.0
Barium	0.219	0.001	21
Cadmium	0.0083	0.0001	0.11
Chromium	0.0963	0.0001	0.60
Lead	0.0211	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	0.0171	0.0001	5.7
Silver	ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, References: December 1996.

> Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

> Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

Horse Canyon.

Analyst

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## EUVIROTECH LOBS

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Williams Field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	02-26-99
Lab ID#:	E696	Date Sampled:	02-22-99
Sample Matrix:	Water	Date Received:	02-22-99
Preservative:	Cool	Date Analyzed:	02-23-99
Condition:	Cool and Intact	Chain of Custody:	6615
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 6.87	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criteri	a		
Parameter	Hazardous Waste Criterion	·	
IGNITABILITY:	÷ .	s defined by 40 CFR, Subpart C, Sec. 2 ect contact with flame or flash point < 6	
CORROSIVITY:	-	as defined by 40 CFR, Subpart C, Sec. 3 2.0 or pH greater than or equal to 12.5	
REACTIVITY:	(i.e. Violent reaction with wat	s defined by 40 CFR, Subpart C, Sec. 2 er, strong base, strong acid, or the gene ses at STP with pH between 2.0 and 12	eration
Reference:	40 CFR part 261 Subpart C s	ections 261.21 - 261.23, July 1, 1992.	
Commonts:	Horse Canvon		

Comments:

Horse Canyon.

. L. Cepace

Stacy W Sendler Review

## FOVIROTECHALABS

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Williams Field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	03-01-99
Laboratory Number:	E696	Date Sampled:	02-22-99
Chain of Custody:	6615	Date Received:	02-22-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	02-26-99
Condition:	Cool & Intact	Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.637	0.0001	200
Chloroform	ND .	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.303	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	0.0035	0.0003	0.5
Tetrachloroethene	0.0012	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery			
		Trifluorotoluene	98%			
		Bromofluorobenzene	99%			
References:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SW-	-846, USEPA, July 1992.			
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.				
	Method 8010, Halogena	Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.				
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.			
Note:	Regulatory Limits based	1 on 40 CFR part 261 Subpart C sectior	n 261.24, July 1, 1992.			
Comments:	Horse Canyon.					

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tacy W. Indle Review

# ENVIROTECH LABS

## EPA METHOD 8040 PHENOLS

Client:	Williams field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	03-01-99
Laboratory Number:	E696	Date Sampled:	02-22-99
Chain of Custody:	6615	Date Received:	02-22-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-01-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	4.53	0.020	200
p,m-Cresol	6.08	0.040	200
2,4,6-Trichlorophenol	1.05	0.020	2.0
2,4,5-Trichlorophenol	17.1	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	98%	
	2,4,6-Tribromophenol	99%	

## References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: Horse Canyon.

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tacy W. Jendle Review

## ENVIROTECHLABS

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Williams field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	03-01-99
Laboratory Number:	E696	Date Sampled:	02-22-99
Chain of Custody:	6615	Date Received:	02-22-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-01-99
Condition:	Cool and Intact	Analysis Requested:	TCLP
		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	0.236	0.020	5.0
Hexachloroethane	0.350	0.020	3.0
Nitrobenzene	0.207	0.020	2.0
Hexachlorobutadiene	0.430	0.020	0.5
2,4-Dinitrotoluene	0.076	0.020	0.13
HexachloroBenzene	0.100	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	100%
References:	· · ·	Characteristic Leaching Procedure, S	
	-	ory Funnel Liquid-Liquid Extraction, S matics and Cyclic Ketones, SW-846,	
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments: Horse Canyon.

tary W. Jendler Review



## QUALITY ASSURANCE / QUALITY CONTROL

## DOCUMENTATION

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

# FOVIRO CCHPLABS

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-01-99
Laboratory Number:	02-26-TCV Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-26-99
Condition:	N/A	Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	100%
		Bromofluorobenzene	100%
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, SW-	-846, USEPA, July 1992.
	Method 5030, Purge-an	nd-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA,	Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.
Note:	Regulatory Limits based	d on 40 CFR part 261 Subpart C sectior	1 261.24, July 1, 1992.
Comments:	QA/QC for samples	s E695 - E696.	

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## ENVIROTECHILABS

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### Li A METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Vinyl Chloride	ND	0.0001	0.2
Parameter	(mg/L)	(mg/L)	(mg/L)
	Concentration	Limit	Limits
		Detection	Regulatory
		Analysis Requested:	TCLP
Condition:	N/A	Date Extracted:	02-22-99
Preservative:	N/A	Date Analyzed:	02-26-99
Sample Matrix:	TCLP Extract	Date Received:	N/A
Laboratory Number:	02-22-TV-MB	Date Sampled:	N/A
Sample ID:	Method Blank	Date Reported:	03-01-99
Client:	QA/QC	Project #:	N/A

vinyi Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chioroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene Bromofluorobenzen	99% 98%
References:	Method 1311 Toxicity (	Characteristic Leaching Procedure,	
		d-Trap, SW-846, USEPA, July 1992	
		ated Volatile Organic, SW-846, USE	
		Volatile Organics, SW-846, USEPA	
Note:	Regulatory Limits based	l on 40 CFR part 261 Subpart C sec	ction 261.24, July 1, 1992.
Comments:	QA/QC for samples	s E695 - E696.	
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Analyst	- qui	Review	

## Envirotech Labs

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplica	te	Date Reported:	03-01-99
Laboratory Number:	E695		Date Sampled:	N/A
Sample Matrix:	TCLP Extract		Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	02-26-99
Condition:	N/A	`	Date Extracted:	N/A
		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples E695 - E696.

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## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	03-01-99
Laboratory Number:	E695			Date Sample	ed:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	02-26-99
Condition:	N/A			Date Extracte	ed:	N/A
			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples E695 - E696.

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# ENVIROTECH LABS

## EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-01-99
Laboratory Number:	03-01-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-01-99
Condition:	. <b>N/A</b>	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
-	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ŇD	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

 References:
 Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

 Waste, SW-846, USEPA, July 1992.

 Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

 Waste, SW-846, USEPA, July 1992.

 Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

 Note:
 Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

Analysi

tacy W. Jende-Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-01-99
Laboratory Number:	02-22-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-22-99
Condition:	Cool & Intact	Date Analyzed:	03-01-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)	
o-Cresol	ND	0.020	200	
p,m-Cresol	ND	0.040	200	
2,4,6-Trichlorophenol	ND	0.020	2.0	
2,4,5-Trichlorophenol	ND	0.020	400	
Pentachlorophenol	ND	0.020	100	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

QA/QC for samples E695 - E696.

Ānalyst

Jende Review



## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-01-99
Laboratory Number:	E695	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	03-01-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	0.708	0.701	0.020	1.0%
2,4,5-Trichlorophenol	0.222	0.219	0.020	1.1%
Pentachlorophenol	0.091	0.090	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria:	Parameter	Maximum Difference	
		8040 Compounds	30.0%	
References:	Method 1311, Toxicity C Waste, SW-846, USEP,	Characteristic Leaching Procedure Test A, July 1992.	Methods for Evaluating Solid	
	Method 3510, Separato Waste, SW-846, USEP,	ry Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid	
	Method 8040, Phenois,	Test Methods for Evaluating Solid Was	te, SW-846, USEPA, Sept. 1986.	
Note:	Regulatory Limits based	Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.		
Comments:	QA/QC for samples	s E695 - E696.		
Le Dece Analyst	-h. Qu'uc	Review	cyl lender	

## ENVIROTECH LABS

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

QA/QC	Project #:	N/A
Laboratory Blank	Date Reported:	03-01-99
03-01-TBN-Blank	Date Sampled:	N/A
Hexane	Date Received:	N/A
N/A	Date Extracted:	N/A
N/A	Date Analyzed:	03-01-99
	Analysis Requested:	TCLP
	Laboratory Blank 03-01-TBN-Blank Hexane N/A	Laboratory BlankDate Reported:03-01-TBN-BlankDate Sampled:HexaneDate Received:N/ADate Extracted:N/ADate Analyzed:

		Det.	Regulatory	
	Concentration	Limit	Limit	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Pyridine	ND	0.020	5.0	
Hexachloroethane	ND	0.020	3.0	
Nitrobenzene	ND	0.020	2.0	
Hexachlorobutadiene	ND	0.020	0.5	
2,4-Dinitrotoluene	ND	0.020	0.13	
HexachloroBenzene	ND	0.020	0.13	

ND - Parameter not detected at the stated detection limit.

tance Criteria	Parameter	Percent Recovery		
	2-fluorobiphenyl	99%		
Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.				
Method 8090, Nitroaror	thod 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.			
Regulatory Limits base	ory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.			
	Method 3510, Separato Method 8090, Nitroaro	<b>2-fluorobiphenyl</b> Method 1311, Toxicity Characteristic Leaching Procedure, S Method 3510, Separatory Funnel Liquid-Liquid Extraction, S Method 8090, Nitroaromatics and Cyclic Ketones, SW-846,		

Comments:

QA/QC for samples E695 - E696.

L. Queen Analyst

Mary W. Jende

## ENVIROTICH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

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0.13 0.13

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-01-99
Laboratory Number:	02-22-BN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-22-99
Condition:	Cool and Intact	Date Analyzed:	03-01-99
		Analysis Requested:	TCLP
		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0

0.020

0.020

0.020

ND - Parameter not detected at the stated detection limit.

Hexachlorobutadiene

HexachloroBenzene

2,4-Dinitrotoluene

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	98%
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		
Method 3510, Separate		ory Funnel Liquid-Liquid Extraction,	SW-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846	, USEPA, Sept. 1986.
Note:	te: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992		ction 261.24, July 1, 1992.

Comments:

QA/QC for samples E695 - E696.

ND

ND

ND

ferre Analyst

V. Jende Review

# ENVIROTECH LABS

## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

		,			
Client:	QA/QC Project #:		N/A		
Sample ID:	Matrix Duplicate	Date Reported:		03-01-99	
Laboratory Number:	E695	Date Sampled:		N/A	
Sample Matrix:	TCLP Extract	Date Received:		N/A	
Preservative:	N/A	Date Extracted:		02-22-99	
Condition:	N/A	Date Analyzed:		03-01-99	
		Analysis Reque	sted:	TCLP	
	Sample	Duplicate	· · · · · · · · · · · · · · · · ·	Det.	
	Result	Result	Percent	Limit	
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)	
Pyridine	ND	ND	0.0%	0.020	
Hexachloroethane	0.056	0.055	1.0%	0.020	
Nitrobenzene	ND	ND	0.0%	0.020	
Hexachlorobutadiene	ND	ND	0.0%	0.020	
2,4-Dinitrotoluene	ND	ND	0.0%	0.020	
HexachloroBenzene	ND	ND	0.0%	0.020	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference	
		8090 Compounds	30%	
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.			
	USEPA, Sept. 1986.			
Note:	Regulatory Limits based	Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		

Comments:

QA/QC for samples E695 - E696.

Leeu Analyst

Review

# ENVIROTECH LABS

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #:		N/A				
Sample ID:		03-03-TCM QA/QC			orted:		03-03-9 <del>9</del>			
Laboratory Number:		E695		Date Sam	pled:	N/A				
Sample Matrix:		TCLP Extract			eived:		N/A			
Analysis Requested:		TCLP Metals			yzed:		03-03-99			
Condition:		N/A		Date Extra	icted:	N/A				
Arsenic	ND	ND	0.0001	0.0437	0.0435	0.5%	0% - 30%			
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection	Sample	Duplicate	% Diff.	Acceptance Range			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.0001	0.0407	0.0455	0.5%	0% - 30%			
Barium	ND	ND	0.001	0.891	0.896	0.5%	0% - 30% 0% - 30%			
Barium Cadmium										
	ND	ND	0.001	0.891	0.896	0.6%	0% - 30%			
Cadmium	ND ND	ND ND	0.001 0.0001	0.891 0.0173	0.896 0.0174	0.6% 0.6%	0% - 30% 0% - 30%			
Cadmium Chromium	ND ND ND	ND ND ND	0.001 0.0001 0.0001	0.891 0.0173 ND	0.896 0.0174 ND	0.6% 0.6% 0.0%	0% - 30% 0% - 30% 0% - 30%			
Cadmium Chromium Lead	ND ND ND ND	ND ND ND ND	0.001 0.0001 0.0001 0.0001	0.891 0.0173 ND 0.0149	0.896 0.0174 ND 0.0150	0.6% 0.6% 0.0% 0.7%	0% - 30% 0% - 30% 0% - 30% 0% - 30%			

Spike Sample Spiked Percent Acceptance Conc. (mg/L) Added Sample Recovery Range

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples E695, E696 and E755.

Analyst

Review

## CHAIN OF CUSTODY RECORD

Client/Project Name Williams Field Service			Project Location Horse Cany on					454	ANALYSIS / PARAMETERS								
Sampler:		Client No.			γ	0						Rei	narks				
BIN BEEVERS		97050-04			No. of Containers	5											
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix			Cont	TCLP									
WASTE WATER 2/22/99 1330		F696	Lia	ins		8	$\checkmark$										
				-													
													<b>_</b>				·
				_										<u></u>			
	-																
									·								
Relinquished by: (Signature)			Date	Time	Recei	ved by:	(Signatu	l ire)_/	$\bigcirc$	! 1	1	ŁŁ.,		ate	1	îme	
Bieg Banno		· · · · · · · · · · · · · · · · · · ·	722/99	1440	LA	Le	<u>~~</u>	<u>ζ.</u>	<u>Up</u>	in	<u>in</u>		2.2	2. 99	14	140	
Relinquished by: (Signature)						Recei	ved by:	(Signatu	ire)	V							
Relinquished by: (Signature)					Recei	eceived by: (Signature)											
	ENVIROTECH INC.							Sample Receipt									
													_	;	Y	N	N/A
					5796 U.S. Highway 64 Farmington, New Mexico 87401						Recei	ved Intact	-				
(505) 632								20	-				Cool - I	ce/Blue Ice	-		

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District       (505)       393-6161       New Mexico         P. O. Box 980       Hožbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505)       748-1283       Oil Conservation Division         811 S. First       Oil Conservation Division         Artesia, NM 88210       2040 South Pacheco Street         D'urict III - (505)       334-6178         Nio Brazos Road       Santa Fe, New Mexico 87505         Cost, NM 87410       (505)         District IV - (505)       827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: 9. 29.99	4. Generator NHOCD
Verbal Approval Received: Yes 🔽 No 🛄	5. Originating Site WARER Dispose
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Utorious EI Canbral
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Dens Kapico
7. Location of Material (Street Address or ULSTR)	N. 32. TSZW RAW SJC. Nor.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be acceptanerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be acceptane.</li> <li>B. All requests for approval to accept non-exempt wastes must be accepted and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>So(:As goncorted</li> <li>DECENVEN</li> <li>DECENVEN</li> <li>DILL CONLOR</li> <li>DILL CONLOR</li> </ul>	ompanied by necessary chemical analysis to on of origin. No waste classified hazardous by d for transport.
Estimated Volume 1200 cy Known Volume (to be entered by the op SIGNATURE: Haster Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	
(This space for State Use) APPROVED BY: Charles Terr TITLE: field APPROVED BY: X Furch TITLE: Geold	



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON GOVERNOR OIL CONSERVATION DIVISION AZTEC DISTRICT OFFICE 1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178 Fax (505)334-6170

JENNIFER A. SALISBURY CABINET SECRETARY

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address: South West Water Disposa / under New Mexico Oil Conservation Division Contract. 2040 South Pacheco Samta Fe, IVIM	2. Destination Name: Envirotech Landfurm II
3. Originating Site (name): Southwest Water Disposal Skimmer Pit	Location of the Waste (Street address &/or ULSTR): N-32-30W-09W San Juan County, New Mexito
Attach list of originating sites as appropriate	
4. Source and Description of Waste Solids +	Evomproduced water
1, Denny Foust (Print Name)	representative for:
New Mexico Oil Conservation &	ery Act (RCRA) and Environmental Protection Agency's July,
	MPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or no	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste the following documents MSDS Information	ation is attached (check appropriate items): Other (description):

- RCRA Hazardous Waste Analysis
- \_\_\_\_ Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name	(Original Signature): Denny Tan
Title:	Environmental Geologist
Date:	September 29, 1999

District I - (505) 393-6161       New Mexico         P. O. Box'1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         Distict II - (505) 748-1283       Oil Conservation Division         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         P' urict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131		
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt:     Non-Exempt:     Dun y Founds -       1. RCRA Exempt:     IS:30       IS:30     B: B0.99	4. Generator Durco	
Verbal Approval Received: Yes 🔀 No 🗋	5. Originating Site	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PSC	
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State fluenthepico	
7. Location of Material (Street Address or ULSTR)	2855 Southside River Re.	
during veterbing to rebuilding oil	n of origin. No waste classified hazardous by	
Estimated Volume <u>Sdrows</u> cy Known Volume (to be entered by the operator at the end of the haul) <u>Sdrums</u> cy SIGNATURE: <u>Harlan M. Brown</u> TITLE: <u>Landfarm Manager</u> <u>DATE: <u>8.30.99</u> TYPE OR PRINT NAME: <u>Harlan M. Brown</u> <u>TELEPHONE NO.</u> <u>505-632-0615</u></u>		
(This space for State Use) APPROVED BY: Demy S, Taun TITLE: Geolo APPROVED BY: Busch TITLE: 2	915 DATE: 10/1/99 DATE: 5	

08/30/99 13:34	FAX 505	3""	1481
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NATCO BETH

### **CERTIFICATE OF WASTE STATUS**

		_		۱ 
11.	Generator Name and Address:	2.	Destination Name:	
	Natco,2855 Southside River RD			1
			Envirotech Soil Remediation Facility	
			Landfarm #2	
			Hilltop, New Mexico	
3.	Originating Site (name):	يا	cation of the Waste (Street address &/or ULSTR): oil and gas production	
	Solida generated during the cleaning	ΟÏ	oil and gas production	
	eqipment, at Natco,s yard.			
1				
_	Attach list of originating sites as appropriate			<u> </u>
4.	Source and Description of Waste		leastime and stratehod list	
	Contaminated dirt and sluge, from varia	ous	locations see attaicied fist.	
			÷	
		-		
	Richard Lankert			
_ را	Fichard Carsharet		representative for:	
-	(Print Name)			
	National Tank Co. Farmington		do hereby certify	that,
acc	ording to the Resource Conservation and Recover	гү А	ct (RCRA) and Environmental Protection Agency's	July,
198	18, regulatory determination, the above described	was	te is: (Check appropriate classification)	
$\underline{\infty}$			oilfield waste which is non-hazardous by character	istic
	- analysis or	p p l	woduct identification	
ING	that nothing has been added to the exempt or no	11-0X	empt non-hazardous waste defined above.	
For	NON-EXEMPT waste only the following docum	nenti		
	MSDS Information		Other (description):	
	RCRA Hazardous Waste Analysis			
	Chain of Custody			
	(1, 1)	r#		
Van	ne (Original Signature):	<u>v</u>	·	
litte	: Shop toxman			
	1			
)ati	B: <u>8/30/99</u>			
	-		1	

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	WASTE SOLIDS	
COMPANY	LOCATION	JOB NUMBER
urlington	30-6#65a I# 328	73017300
	<u>30-6#65a I# 328</u> 1327	
	29-7#77A 1548	7299
	1335	<u>7233</u> 7243
	1291	7187
	1304	7410
	1112	7363
	1320 30-6#18A	
· · · · · · · · · · · · · · · · · · ·	1359	7393
	1333	7411
	1161	7319
	1334 29-7#64A	7297
	Herfino 1 #11	1122
	1529	
		7408
		7507
· · · · · · · · · · · · · · · · · · ·	1598	7588
	28-6 #85 1100	/528
	28-6 #213 1600	7590
ONG	Grassy canyon #1	7282
	Grassy canyon #2	7283
Crosstinbers	VCU # 14	7/138
	Abrans .11	7439
	Ute Mountain tribal	7440
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
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08/30	/99 13:34 FAX 505 227 1481 NATCO BETH	Ø 04
• J - ' . - '	( <u>NATCO</u> )	
	INSPECTION FOR N.O.R.M. CONTAMINATION	
	Location: Water, Furt. Yand Date: 8-30-99	
	Survey instrument model: Mod. 1 ud leur 3-98 Last calibrated: 8-12-99	
	Item description: _ Solid waste in Bacrels	
	Number of pieces:	
	Location where items originated: Southside of Building	
	Background reading: 13.5 uR/hr	
	Highest NORM reading: uR/hr (corrected for background)	
	Lowest NORM reading: uR/hr (corrected for background)	
	Any samples taken? If so, how many?	
	Pieces inspected.	
	<u> </u>	
	D Pieces found to have NORM contamination.	
	Remarks: All seven Rearels are safe to move	
	Inspector: Pete / Gale	
	What is final disposition? O.K. to Mare	 i
18 11 15 14,	Released to: Date: S - 3 F.t. wostside Grand level Albove Borredg - 3 F.t. North eite Grand level 15 11 S - 3 F.t. South side Ground level 13 11.5 5 - 3 F.t. Gast side Creand level 14.5 14 13.5	

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P'-trict III - (505) 334-6178 Nio Brazos Road rcc, NM 87410 District IV - (505) 827-7131 New Mexico Conservation Division Santa Fe, New Mexico 87505 (505) 827-7131	ON Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Rubert L. Barcass
Verbal Approval Received: Yes 📐 No 🔲	5. Originating Site Tocito Doma
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Let Oilfield Sarvice
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Numb Klapico
7. Location of Material (Street Address or ULSTR)	See 20, TZEN, RIBW
	on of origin. No waste classified hazardous by
Estimated Volume Estimated Volume (to be entered by the op SIGNATURE: Waste Management FacilityAuthorized Agent Harlan M. Brown	erator at the end of the haul) cy
(This space for State Use) APPROVED BY: Deny Point TITLE: Geolo APPROVED BY: EBunch TITLE:	<u>5137</u> DATE: <u>10/1/99</u> DATE: <u>5</u>

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### **CERTIFICATE OF WASTE STATUS**

ROBERT L. DAYLESS, PRODUCEP	2. Destination Name:
ROBERT L. DAYLESS, FRODUCER	
P.O. BOX 168	Envirotech Soil Remediation Facility Landfarm #2
FARMINGTON, NM 87499	Hillton New Merico
3. Originating Site (name); Tociro Dome (ENTRAL TANK D	Location of the Waste (Street address &/or ULSTR):
Taxin DAME (FNTRAL IANK O	ATTERY
SECTION 20, TEEN, RIBW	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SAN VAAL COUNTY, XMM,	
Attach list of originating sites as appropriate	
INASTE IS SPENT CHEMILAL	USED TO REMOVE HYDROGED JULFIDE AT LS AN (RON PYRITE COMPOUND INTRICE LONERING (RON JULFIDE)
FRAM NASURAL (MS. SULFATREN	AT IS AN (RON PYRITE COMPOUND
ON A MAY MATRIX, SPENT CH	YEMICAL CONFAINS IRON JULFIDE.
CHEMICAL LOOKS GIRE GREY	DUSTY GRAVEL
CHEMICHT LOOKE GIVE -	
1. Tom MCARTHY	
I. IOM IV CARINI	representative for:
ROBERT 6. BATLESS	do hereby certify that,
according to the Resource Conservation and Recover	Y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
	IPT olifield waste which is non-hazardous by characteristic
enalysis or	by product identification
	n avamat non haverdaux waste defined shave.
and that nothing has been added to the exempt or no	
For NON-EXEMPT waste only the following docum	nentation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	
1 to the	-VIII-
Name (Original Signature):	
Tide: CNGINEEL	NI
	<b>N</b>
Date: 9/16/99	

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 Bl1 S. First New Mexico Energy Minerals and Natural Resource Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 District IV - (505) 827-7131	Dn Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:     Non-Exempt:     Donny Forst	4. Generator EPES
Verbal Approval Received: Yes 🟹 No 🛄	5. Originating Site U (, barr; th-2
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Disside and co
7. Location of Material (Street Address or ULSTR)	"0" Sac 35, 7 30N, RQW, SJENAN
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accept ROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>BRIEF DESCRIPTION OF Seil content of the seil of the seill of the seil of the sei</li></ul>	on of origin. No waste classified hazardous by
Estimated Volume cy Known Volume (to be entered by the op SIGNATURE: TITLE: Landfarm I Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	
(This space for State Use) APPROVED BY: Deny Form TITLE: Geola APPROVED BY: England TITLE:	DATE:

### CERTIFICATE OF WASTE STATUS

3 1

•

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services Co.	Envirotech Soil Remediation Facility
614 Reilly Avenue	Landfarm #2
Farmington, NM 87401	Hilltop, New Mexico
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):
Ulibarri #2 Gas Weel	Unit O, Sec. 35, T30N, R9W. San Juan Co., New Mexico
Attach list of originating sites as appropriate 4. Source and Description of Waste	
4. Oblice and Description of Waste	
Soil contaminated with produced water and hydroc	arbons
·	
ı, David Bays	representative for:
(Print Name)	
El Paso Field Services	Co do hereby certify that,
according to the Resource Conservation and Recording to the Resource Conservation and Record 1988 regulatory determination, the above described	very Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
X EXEMPT Oilfield wasteNON	-EXEMPT oilfield waste which is non-hazardous by
char	acteristic analysis or by product identification
and that nothing has been added to the exempt or i	non-hazardous waste defined above.
For NON-EXEMPT waste only, the following docum	nentation is attached (check appropriate items):
MSDS Information RCRA Hazardous Waste Ana	Other (description)
Chain of Custody	
$\frown$	
Name (Original Signature):	Bag
Title: Principal Er	nvironmental Scientist
Date: Sept. 3, 199	99

<i>).</i>	
District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Division         S11 S. First       2040 South Pacheco Street         Nresia, NM 88210       2040 South Pacheco Street         Virtict III - (505) 334-6178       Santa Fe, New Mexico 87505         Rio Brazos Road       (505) 827-7131         District IV - (505) 827-7131       Santa Fe, New Mexico 87505	OR UU Submit Original
	SOLID WASTE
1. RCRA Exempt: I Non-Exempt: I Source Found	4. Generator PNU. Cus Traces s
Verbal Approval Received: Yes 🔂 No 🔲 🗲	5. Originating Site
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter PNEL
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Nume de aquico
7. Location of Material (Street Address or ULSTR)	SOO' St of DL. R & B, How 64
9. <u>Circle One</u> : Sec. 2	z T ZBN, RGW
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accept PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned. BRIEF DESCRIPTION OF MATERIAL: Compression oil continuity for a soil technology of the soil technology of the solution	d for transport.
Estimated Volume cy Known Volume (to be entered by the operation of the second signature in the second seco	
(This space for State Use) APPROVED BY: Memy Bitter TITLE: Geolo	
APPROVED BY: Muntine Oking TITLE: Emviron.	mutal ( Geologist DATE: 10/1/97

### **CERTIFICATE OF WASTE STATUS**

1

1. Generator Name and Address:	2. Destination Name:
Public Sarvice Co of Due Mexico	
603 W. Etch	Envirotech Soil Remediation Facility
FArmengton, New Mebles 87488	Landfarm #2
3. Originating Site (name):	Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR):
Trans nigsion line leak	Sec22 TZ3N RGW
Coursebor's , NM	500' N. of M.P.98 west stole of H
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Compressor dil contamu	and soil
1. Tony Condon Javia (Print Name) according to the Resource Conservation and Recover	representative for: do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	waste is: (Check appropriate classification)
EXEMPT oilfield waste NON-EXEM analysis or	APT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Other (description):
Name (Original Signature):	

Date: 8-17-99

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## FOUROTECHLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	PNM	Project #:	310801
Sample ID:	S - 1	Date Reported:	08-18-99
Lab ID#:	F928	Date Sampled:	08-17-99
Sample Matrix:	Soil	Date Received:	08-17-99
Preservative:	Cool	Date Analyzed:	08-18-99
Condition:	Cool and Intact	Chain of Custody:	7283
Parameter	Result		
IGNITABILITY:	Negative		
CORROSIVITY:	Negative	pH = 8.44	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criteria	ı		
Parameter	Hazardous Waste Criterio	n	
IGNITABILITY:	Characteristic of Ignitabili	y as defined by 40 CFR, Subpart C, S	ec. 261.21.
	(i.e. Sample ignition upon	direct contact with flame or flash poin	t < 60° C.)
CORROSIVITY:	Characteristic of Corrosivi	ty as defined by 40 CFR, Subpart C, S	Sec. 261.22.
	(i.e. pH less than or equal	to 2.0 or pH greater than or equal to 1	12.5)
REACTIVITY:	Characteristic of Reactivit	y as defined by 40 CFR, Subpart C, S	ec. 261.23.
	•	vater, strong base, strong acid, or the gases at STP with pH between 2.0 a	
Reference:	40 CFR part 261 Subpart	C sections 261.21 - 261.23, July 1, 1	992.
Comments:	Trans Line Counsel	or's, NM. Landfarm #2 Stagir	ng Area.

Yeur Analyst

tacy W Sendler Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

## IVIROT.

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 **TOXICITY CHARACTERISTIC** LEACHING PROCEDURE **TRACE METAL ANALYSIS**

Client:	PNM	Project #:	3108-01
Sample ID:	S - 1	Date Reported:	08-19-99
Laboratory Number:	F928	Date Sampled:	08-17-99
Chain of Custody:	7283	Date Received:	08-17-99
Sample Matrix:	TCLP Extract	Date Analyzed:	08-19-99
Preservative:	Cool	Date Extracted:	08-17-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	ND	0.001	5.0
Barium	0.80	0.01	21
Cadmium	ND	0.001	0.11
Chromium	ND	0.01	0.60
Lead	ND	0.05	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.01	0.14

ND - Parameter not detected at the stated detection limit.

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, References: December 1996. Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996. Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996. Regulatory Limits based on 40 CFR part 261 subpart C Note: section 261.24, August 24, 1998. Trans Line, Counselor's, NM. Landfarm #2 Staging Area. Comments:

line Ånalvst

Stacy W Sendler Review

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #	<b>t:</b>		N/A
Sample ID:		08-19-TCM QA/QC		Date Rep	Date Reported:		08-19-99
Laboratory Number:		F925		Date Sar	mpled:		N/A
Sample Matrix:		TCLP Extr	act	Date Red	ceived:		N/A
Analysis Requested:		TCLP Meta	als	Date Ana	alyzed:		08-19-99
Condition:		N/A	I/A Date Extracted: N/A		N/A		
	Instrument	and the second	Detectio	n Sampl	e a Duplicat	and the set of the second of the second	Acceptance
Conc: (mg/L)	Blank ND	Blank ND	Limit 0.001	ND	ND	Diff. 0.0%	Range 0% - 30%
Barium	ND	ND	0.01	0.20	0.20	0.0%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.01	0.01	0.01	0.0%	0% - 30%
Lead	ND	ND	0.05	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.01	ND	ND	0.0%	0% - 30%
Spike Conc. (mg/L)		Spike Added	Sample	Spike Sampl			Acceptance Range

Arsenic	0.100	ND	0.098	98.0%	80% - 120%
Barium	1.00	0.20	1.20	100.0%	80% - 120%
Cadmium	0.500	ND	0.490	98.0%	80% - 120%
Chromium	0.50	0.01	0.51	100.0%	80% - 120%
Lead	2.00	ND	2.00	100.0%	80% - 120%
Mercury	0.0250	ND	0.0248	99.2%	80% - 120%
Selenium	0.100	ND	0.097	97.0%	80% - 120%
Silver	0.50	ND	0.49	98.0%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples F925, F928, F931, F934 and F922.

fuce Analyst

tacy W Sendler

Review

# ENVIROTECH LABS

### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	PNM	Project #:	310801
Sample ID:	S - 1	Date Reported:	08-18-99
Laboratory Number:	F928	Date Sampled:	08-17-99
Chain of Custody No:	7283	Date Received:	08-17-99
Sample Matrix:	Soil	Date Extracted:	08-17-99
Preservative:	Cool	Date Analyzed:	08-18-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

		Det.
	Concentration	Limit
Parameter	(mg/Kg)	(mg/Kg)

Gasoline Range (C5 - C10)	578	0.2
Diesel Range (C10 - C28)	847	0.1
Total Petroleum Hydrocarbons	1,420	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Trans Line, Counselor's, NM. Landfarm #2 Staging Area.

R. Gjen

Stacy W Sendler Review

### VIROTEC

PRACTICAL SOLUTIONS FOR A BELTER TOMORROW

### EPA Method 8015 Modified **Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons**

### **Quality Assurance Report**

Client:	QA/QC		Project #:		N/A
Sample ID:	08-18-TPH QA	VQC	Date Reported:		08-18-99
Laboratory Number:	F928		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ide	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		08-18-99
Condition:	N/A		Analysis Request	ed:	ТРН
		د. محمد المحمد ا	un filme a course territo da accorda " de seconda secondario		2014
	I-Cal Date	Cal RF:	े C-Cal.RF	% Difference	Accept: Range -
Gasoline Range C5 - C10	06-17-99	1.2099E-001	1.2089E-001	0.08%	0 - 15%
Diesel Range C10 - C28	06-17-99	4.3747E-002	4.3677E-002	0.16%	0 - 15%
en la cura de la cura d	an to a the second s	e sere persent averages the			11114
Blank Conc. (mg/L - mg/Kg)		Concentration		Detection Lim	it
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons		ND		0.2	
ef an under som ander og ander en ander som ander som som som som at ander som ander som ander som at ander so					**
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference : A	Accept. Range	
Gasoline Range C5 - C10	578	576	0.4%	0 - 30%	
Diesel Range C10 - C28	847	844	0.3%	0 - 30%	
	and an and the state of the state	e i Markan da Markan Markan da Markan da Ma		et the state of the state of the	
Spike Conc. (mg/Kg)	Sample	THE STATE AND A CAMPACTURE AND A DATA ON A	Spike Result	a da o consecution a desta consecution a consecution a secular de la consecution de la consecution de la consec	Accept: Range
Gasoline Range C5 - C10	578	250	826	100%	75 - 125%
Diesel Range C10 - C28	847	250	1,090	99%	75 - 125%

ND - Parameter not detected at the stated detection limit.

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, References: SW-846, USEPA, December 1996.

Comments:

QA/QC for samples F928 - F930.

en L. ajence

Stacy W Sendler

Review

## ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	PNM	Project #:	310801
Sample ID:	S - 1	Date Reported:	08-18-99
Laboratory Number:	F928	Date Sampled:	08-17-99
Chain of Custody:	7283	Date Received:	08-17-99
Sample Matrix:	Soil	Date Analyzed:	08-18-99
Preservative:	Cool	Date Extracted:	08-17-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2,050	8.8
Toluene	425	8.4
Ethylbenzene	5,380	7.6
p,m-Xylene	48,640	10.8
o-Xylene	16,160	5.2
Total BTEX	72,660	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:		Parameter	Parameter		very
		Trifluorotoluer Bromofluorobe		100 100	
References:	Method 5030B December 199		Methods for Evaluating Sc	blid Waste, SW-846, U	SEPA,
	Method 8021B USEPA, Decer	· •	anics, Test Methods for Ev	aluating Solid Waste,	SW-846,
Comments:	Trans Line,	Counselor's, NM.	Landfarm #2 Stagir	ng Area.	

en L. Oficen

Stacy W Sendler Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

### **NVIR** -

#### CTICAL SOLUTIONS FOR A BETTLER TOMORROW

#### **EPA METHOD 8021 AROMATIC VOLATILE ORGANICS**

Client:	N/A	F	Project #:		N/A
Sample ID:	08-18-BTEX QA/Q		Date Reported:		08-18-99
Laboratory Number:	F928		Date Sampled:		N/A
Sample Matrix:	Soil	C	Date Received:		N/A
Preservative:	N/A	۵	Date Analyzed:		08-18-99
Condition:	N/A	F	Analysis:		BTEX
Calibration and	I-Cal RF	C-CallRF	%Diff.	Blank	Detect:
Detection Limits (ug/L)		Accept-Rang	e U - 15%	Conc	Limit
Benzene	3.6219E-001	3.6306E-001	0.2%	ND	0.2
Toluene	2.7867E-002	2.7917E-002	0.2%	ND	0.2
Ethylbenzene	4.1931E-002	4.2019E-002	0.2%	ND	0.2
p,m-Xylene	3.6569E-002	3.6661E-002	0.3%	ND	0.2
o-Xylene	3.1955E-002	3.2010E-002	0.2%	ND	0.1
	Sample	Duplicate	₩Diff	Accept Range	Detect. Limit
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene	Sample 2,050 425 5,380 48,640 16,160	2,010 2,010 414 5,250 47,480 15,860	2.0% 2.6% 2.4% 2.4% 1.9%	AcceptiRange 0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	8.8 8.4 7.6 10.8 5.2
Duplicate Conc. (ug/Kg)	2,050 425 5,380 48,640 16,160	2,010 414 5,250 47,480	2.0% 2.6% 2.4% 2.4% 1.9%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	8.8 8.4 7.6 10.8
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	2,050 425 5,380 48,640 16,160 Sample 2,050	2,010 414 5,250 47,480 15,860 Amount Spiked	2.0% 2.6% 2.4% 2.4% 1.9% Spiked Sample 2.	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	8.8 8.4 7.6 10.8 5.2 Accept Range 39 - 150
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p.m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	2,050 425 5,380 48,640 16,160 Sample 2,050 425	2,010 414 5,250 47,480 15,860 Amount Spiked 50.0 50.0	2.0% 2.6% 2.4% 2.4% 1.9% Spiked Sample 2,100 474	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 100%	8.8 8.4 7.6 10.8 5.2 Accept:Range 39 - 150 46 - 148
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p.m-Xylene o-Xylene Spike Conc. (ug/Kg) Benzene Toluene	2,050 425 5,380 48,640 16,160 Sample 2,050	2,010 414 5,250 47,480 15,860 Amount Spiked	2.0% 2.6% 2.4% 2.4% 1.9% Spiked Sample 2.	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	8.8 8.4 7.6 10.8 5.2 Accept Range 39 - 150
Duplicate Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene Spike Conc. (ug/Kg)	2,050 425 5,380 48,640 16,160 Sample 2,050 425	2,010 414 5,250 47,480 15,860 Amount Spiked 50.0 50.0	2.0% 2.6% 2.4% 2.4% 1.9% Spiked Sample 2,100 474	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30% % Recovery 100%	8.8 8.4 7.6 10.8 5.2 Accept:Range 39 - 150 46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996. Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

QA/QC for sample F928. Comments: haven Ånalyst

Itacy W Sendler Review

### CHAIN OF CUSTODY RECORD

Client / Project Name Tr	Frans IT	ne_	<b>Project Location</b>	hand	Farm t	<i>t</i> -2											
Client / Project Name Tr PNM / Cou Sampler:	nelan	5 Nul	Strain	Area		4		-		A	NALYSI	S / PAR	AMETER	5			
Sampler:		<u>ي در در او د</u>	Client No.	<u>v</u>		<u> </u>	S					[		R	emarks		
TA MES /	1 Can	sles	93/	08-	01		No. of Containers	X	s à	6	22	).					
Sample No./	Sample	Sample	Lab Number		Sample		No Conta	RCRA	たち	08	802 Bre						
Identification	Date	Time			Matrix			2	R P								
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				Farmi	ngton, N			8740	)1				<u> </u>	<u></u>			<del> </del>
-					(505)	632-	0615						Cool -	Ice/Blue Ice			

7283

Displict I - (505) 393-6161       New Mexico         P. D. Box 1980       Energy Minerals and Natural Resour         Mobbs, NM 88241-1980       Energy Minerals and Natural Resour         District II - (505) 748-1283       Oil Conservation Divisi         11 S. First       2040 South Pacheco Street         resia, NM 88210       Santa Fe, New Mexico 8750         '' trict III - (505) 334-6178       Santa Fe, New Mexico 8750         'Nio Brazos Road       (505) 827-7131	ion Submit Original
REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator EPPS
Verbal Approval Received: Yes 🛄 No 🔀	5. Originating Site Kutz Comp. Station
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State New Marsico
7. Location of Material (Street Address or ULSTR)	Kutz Plant SW/3 Sec15, T29N, R12W
9. <u>Circle One</u> :	SAN Juan Camby, NEL.
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Clean up of Lube oil spill from come DECEN OCI - 1 1 OIL COMO DUSTO 3	ed for transport. -pressor engines WED 1999 DIV
Estimated Volume cy Known Volume (to be entered by the op	perator at the end of the haul) <u>30</u> cy
SIGNATURE: <u>Harlan M. Brown</u> TITLE: <u>Landfarm</u> Waste Management FacilityAuthorized Agent Harlan M. Brown TEI	Manager         DATE: 9 · 1φ· 99           LEPHONE NO.         505-632-0615
(This space for State Use)	
APPROVED BY: Denny S. Pount TITLE: Geolog	<u>915</u> DATE: 10/1/99
APPROVED BY: Martyn J Ming- TITLE: Enviro	mmentel Geologist DATE: 10/1/99

### **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	nerator Name and Address: 2. Destination Name:					
El Paso Field Services Co. 614 Reilly Avenue	Envirotech Soil Remediation Facility Landfarm #2					
Farmington, NM 87401	Hilltop, New Mexico					
3. Originating Site (name):	Location of Waste(Street address &/or ULSTR):					
Kutz Plant	SW/3 Section 15, T29N, R12W, San Juan Co., NM					
Attach list of originating sites as appropriate						
4. Source and Description of Waste						
Lube oil spill from compressor engines						
I, David Bays (Print Name)	representative for:					
(Finit Name)						
El Paso Field Services according to the Resource Conservation and Reco 1988 regulatory determination, the above describe	very Act (RCRA) and Environmental Protection Agency's July,					
	<b>DN-EXEMPT</b> oilfield waste which is non-hazardous by racteristic analysis or by product identification					
and that nothing has been added to the exempt or	non-hazardous waste defined above.					
For <b>NON-EXEMPT</b> waste only, the following docur	nontation is attached (check appropriate items):					
MSDS Information RCRA Hazardous Waste A Chain of Custody	nalysis Other (description)					
Name (Original Signature):	in Bay					
Title: Principal E	nvironmental Scientist					
Date: September	14, 1999					

## Envirotech Labs

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 21, 1999

Mr. John Lambdin El Paso Field Services P.O. Box 4990 Farmington, New Mexico 87499

> Project No.: 97057 Job No.: 705716

Dear Mr. Lambdin,

Enclosed are the analytical results for the samples collected from the location designated as "Kutz Compressor Station". One soil sample was collected by Envirotech personnel on 09/16/99, and received by the Envirotech laboratory on 09/16/99 for Hazardous Waste Characterization analysis (Volatiles, Semi-volatiles, Metals, Ignitability, Reactivity and Corrosivity).

The sample was documented on Envirotech Chain of Custody No. 7400 and assigned Laboratory No. G086 for tracking purposes.

The sample was extracted on 09/17/99 and analyzed 09/16/99 through 09/21/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted, **Envirotech**, **Inc**.

tacy W Sendler

Stacy W. Sender Environmental Scientist/Laboratory Manager

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# ENVIROTECHLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	EPFS	Project #:	705716		
Sample ID:	Oil Stains @ C1 & C2	Date Reported:	09-17-99		
Lab ID#:	G086	Date Sampled:	09-16-99		
Sample Matrix:	Soil	Date Received:	09-16-99		
Preservative:	Cool	Date Analyzed:	09-17-99		
Condition:	Cool and Intact	Chain of Custody:	7400		
Parameter	Result				
IGNITABILITY:	Negative				
CORROSIVITY:	Negative	pH = 7.78			
REACTIVITY:	Negative				
RCRA Hazardous Waste Criteria					
Parameter	Hazardous Waste Criterion				
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)				
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5 )				
REACTIVITY:	(i.e. Violent reaction with wa	as defined by 40 CFR, Subpart C, Sec. 2 ter, strong base, strong acid, or the gen ases at STP with pH between 2.0 and 1	eration		
Reference:	40 CFR part 261 Subpart C	sections 261.21 - 261.23, July 1, 1992.			

Comments:

Kutz Compressor Station.

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# FNVIROTECHLABS

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	EPFS	Project #:	705716
Sample ID:	Oil Stains @ C1 & C2	Date Reported:	09-20-99
Laboratory Number:	G086	Date Sampled:	09-16-99
Chain of Custody:	7400	Date Received:	09-16-99
Sample Matrix:	TCLP Extract	Date Extracted:	09-17-99
Preservative:	Cool	Date Analyzed:	09-20-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
	(IIIg/L)	(iiig/L)	(119/٢)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0059	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0131	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	98%
		Bromofluorobenzene	99%
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, SW	-846, USEPA, July 1992.
	Method 5030, Purge-ar	nd-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA	, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	ept. 1994.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sectio	n 261.24, July 1, 1992.
Comments:	Kutz Compressor	Station.	

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# ENVIROTECI

#### ACTICAL SOLUTIONS FOR A BETTER TOMORRO

### **EPA METHOD 8040** PHENOLS

Client:	El Paso Field Services	Project #:	7057-16
Sample ID:	Oil Stains @ C1 & C2	Date Reported:	09-20-99
Laboratory Number:	G086	Date Sampled:	09-16-99
Chain of Custody:	7400	Date Received:	09-16-99
Sample Matrix:	TCLP Extract	Date Extracted:	09-17-99
Preservative:	Cool	Date Analyzed:	09-20 <b>-</b> 99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	98%	
	2,4,6-Tribromophenol	99%	

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid References: Waste, SW-846, USEPA, July 1992.

> Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992. Note:

Kutz Compressor Station. Comments:

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## ENVIROTEC

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 **Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics**

EPFS	Project #:	705716
Oil Stains @ C1 & C2	Date Reported:	09-20-99
G086	Date Sampled:	09 <b>-</b> 16-99
7400	Date Received:	09-16-99
TCLP Extract	Date Extracted:	09-17-99
Cool	Date Analyzed:	09-20-99
Cool and Intact	Analysis Requested:	TCLP
	Oil Stains @ C1 & C2 G086 7400 TCLP Extract Cool	Oil Stains @ C1 & C2Date Reported:G086Date Sampled:7400Date Received:TCLP ExtractDate Extracted:CoolDate Analyzed:

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.
	Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992. Note:

Kutz Compressor Station. Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	EPFS	Project #:	705716
Sample ID:	Oil Stains @ C1 & C2	Date Reported:	09-20-99
Laboratory Number:	G086	Date Sampled:	09-16-99
Chain of Custody:	7400	Date Received:	09-16-99
Sample Matrix:	TCLP Extract	Date Analyzed:	09-20-99
Preservative:	Cool	Date Extracted:	09-17- <del>9</del> 9
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
	Concentration	Det. Limit	Regulatory Level
Parameter	(mg/L)	(mg/L)	(mg/L)
		0.004	
Arsenic	ND	0.001	5.0
Barium	3.65	0.01	21
Barium Cadmium	3.65 0.023	0.01 0.001	21 0.11
Barium	3.65 0.023 ND	0.01 0.001 0.01	21 0.11 0.60
Barium Cadmium	3.65 0.023	0.01 0.001	21 0.11
Barium Cadmium Chromium	3.65 0.023 ND	0.01 0.001 0.01	21 0.11 0.60

0.01

ND - Parameter not detected at the stated detection limit.

ND

Silver

References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.
	Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.
	Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.
Note:	Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.
Comments:	Kutz Compressor Station.

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### **QUALITY ASSURANCE / QUALITY CONTROL**

### DOCUMENTATION

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## ENVIROTECHLABS

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-20-99
Laboratory Number:	09-20-TCLP Vol Blank	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-20-99
Condition:	N/A	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	
Falameter	(IIIg/L)	(ing/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	100%
		Bromofluorobenzene	100%
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, SW-	846, USEPA, July 1992.
Method 5030, Purge-and		d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA,	Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sectior	n 261.24, July 1, 1992.
Comments:	QA/QC for sample	G086.	

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

	······································	D. C. Alla	
		Analysis Requested:	TCLP
Condition:	N/A	Date Extracted:	09-17-99
Preservative:	N/A	Date Analyzed:	09-20-99
Sample Matrix:	TCLP Extract	Date Received:	N/A
Laboratory Number:	09-17-TV-MB	Date Sampled:	N/A
Sample ID:	Method Blank	Date Reported:	09-20-99
Client:	QA/QC	Project #:	N/A

		Detection	Regulatory	
	Concentration	Limit	Limits	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Vinyl Chloride	ND	0.0001	0.2	
1,1-Dichloroethene	ND	0.0001	0.7	
2-Butanone (MEK)	ND	0.0001	200	
Chloroform	ND	0.0001	6.0	
Carbon Tetrachloride	ND	0.0001	0.5	
Benzene	ND	0.0001	0.5	
1,2-Dichloroethane	ND	0.0001	0.5	
Trichloroethene	ND	0.0003	0.5	
Tetrachloroethene	ND	0.0005	0.7	
Chlorobenzene	ND	0.0003	100	
1,4-Dichlorobenzene	ND	0.0002	7.5	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		Trifluorotoluene	99%	
		Bromofluorobenzen	e 98%	
References:	Method 1311, Toxicity (	cicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		
	Method 5030, Purge-an	)30, Purge-and-Trap, SW-846, USEPA, July 1992.		
	Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.			
	Method 8020, Aromatic	natic Volatile Organics, SW-846, USEPA, Sept. 1994.		
Note:	Regulatory Limits based	based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		
Comments:	QA/QC for sample	mple G086.		
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## FNVIROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC		Project #:	N/A	
Sample ID:	Matrix Duplic	ate	Date Reported:	09-20-99	
Laboratory Number:	G086		Date Sampled:	N/A	
Sample Matrix:	TCLP Extract		Date Received:	N/A	
Analysis Requested:	TCLP		Date Analyzed:	09-20-99	
Condition:	N/A		Date Extracted:	09-17-99	
		Duplicate			
	Sample	Sample	Detection		
	Result	Result	Limits	Percent	
Parameter	(mg/L)	<u>(mg/L)</u>	(mg/L)	Difference	
Vinyl Chloride	ND	ND	0.0001	0.0%	
1,1-Dichloroethene	ND	ND	0.0001	0.0%	
2-Butanone (MEK)	0.0059	0.0059	0.0001	0.0%	
Chloroform	ND	ND	0.0001	0.0%	
Carbon Tetrachloride	ND	ND	0.0001	0.0%	
Benzene	0.0131	0.0134	0.0001	2.8%	
1,2-Dichloroethane	ND	ND	0.0001	0.0%	
Trichloroethene	ND	ND	0.0003	0.0%	
Tetrachloroethene	ND	ND	0.0005	0.0%	
Chlorobenzene	ND	ND	0.0003	0.0%	
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%	

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample G086.

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## FOUROTECHLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC			Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	ed:	09-20-99
Laboratory Number:	G086			Date Sample		N/A
Sample Matrix:	TCLP Extract			Date Receive		N/A
Analysis Requested:	TCLP			Date Analyze	ed:	09-20-99
Condition:	N/A			Date Extracte		09-17-99
	·		Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0059	0.050	0.0554	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0131	0.050	0.0629	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

QA/QC for sample G086.

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### FOUROTECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-20-99
Laboratory Number:	09-20-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-20-99
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
o-Cresol	ND	0.020	200
	ND ND	0.020 0.040	200 200
o-Cresol p,m-Cresol 2,4,6-Trichlorophenol			
p,m-Cresol	ND	0.040	200

ND - Parameter not detected at the stated detection limit.

Surrogate Recove	ries: Parameter	Percent Recovery			
	2-fluorophenol	98 %			
	2,4,6-tribromophenol	99 %			
References:	Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.				
	Method 3510, Separatory Funnel Liquid-Liquid Waste, SW-846, USEPA, July 1992.	i10, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid V-846, USEPA, July 1992.			
	luating Solid Waste, SW-846, USEPA, Sept. 1986.				
Note:	Regulatory Limits based on 40 CFR part 261	subpart C section 261.24, July 1, 1992.			

Comments: QA/QC for sample G086.

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Stacy W Sendler Review

## - NVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.

### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	09-20-99
Laboratory Number:	09-17-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-17-99
Condition:	Cool & Intact	Date Analyzed:	09-20-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G086.

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Stacy W Sendler

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# INVIROTECH LABS

### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-20-99
Laboratory Number:	G086	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	09-20-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:		Parameter	Maximum Difference		
		8040 Compounds	30.0%		
References:	Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.				
	Method 3510, Separator Waste, SW-846, USEPA	y Funnel Liquid-Liquid Extraction, Test , July 1992.	Methods for Evaluating Solid		
	Method 8040, Phenols, 1	Fest Methods for Evaluating Solid Wash	te, SW-846, USEPA, Sept. 1986.		
Note:	Regulatory Limits based	on 40 CFR part 261 subpart C section	261.24, July 1, 1992.		
Comments:	QA/QC for sample (	G086.			
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Review Mary W Sendler

## ENVIROTLCH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	09-20-99
Laboratory Number:	09-20-BN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-20-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery		
		2-fluorobiphenyl	99%		
References:	Method 3510, Separate	Characteristic Leaching Procedure, S bry Funnel Liquid-Liquid Extraction, S natics and Cyclic Ketones, SW-846,	W-846, USEPA, July 1992.		
Note:	Regulatory Limits base	ry Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.			

Comments:

QA/QC for sample G086.

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Stacy W Sendler Review

## FNVIROTECH \_ABS

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

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	- W	Det.	Regulatory
		Analysis Requested:	TCLP
Condition:	Cool and Intact	Date Analyzed:	09-20-99
Preservative:	Cool	Date Extracted:	09-17-99
Sample Matrix:	TCLP Extract	Date Received:	N/A
Laboratory Number:	09-17-BN-MB	Date Sampled:	N/A
Sample ID:	Method Blank	Date Reported:	09 <b>-</b> 20-99
Client:	QA/QC	Project #:	N/A

Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
L			(··· <b>ʒ</b> · <b>_</b> )
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accep	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	99%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, S	SW-846, USEPA, July 1992.
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.

Comments:

QA/QC for sample G086.

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Stacy W Sendler Review

# ENVIROTECHPLABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	nt: QA/QC		Project #:		
Sample ID:	Matrix Duplicate	Date Reported:		09-20-99	
Laboratory Number:	G086	Date Sampled:		N/A	
Sample Matrix:	TCLP Extract	Date Received:		N/A	
Preservative:	N/A	Date Extracted:		09-17-99	
Condition:	N/A	Date Analyzed:		09-20-99	
		Analysis Reque	sted:	TCLP	
· · · · · · · · · · · · · · · · · · ·	Sample	Duplicate		Det.	
	Result	Result	Percent	Limit	
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)	
Pyridine	ND	ND	0.0%	0.020	
Hexachloroethane	ND	ND	ND 0.0%		
Nitrobenzene	ND	ND	0.0%	0.020	
Hexachlorobutadiene	ND	ND	0.0%	0.020	
2,4-Dinitrotoluene	ND	ND	0.0%	0.020	
HexachloroBenzene	ND	ND	0.0%	0.020	

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference			
		8090 Compounds	30%			
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.					
	Method 3510, Separato	bry Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.			
	Method 8090, Nitroaror	natics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.			
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	tion 261.24, July 1, 1992.			

Comments:

QA/QC for sample G086.

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Stacy W Sendler Review

## FNVIROTECH LABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #:			N/A		
Sample ID:		09-20-TCM QA/QC		-					
•				Date Repo			09-20-99		
Laboratory Number:		G086		Date Sam			N/A		
Sample Matrix:		TCLP Extra		Date Rece		N/A			
Analysis Requested:		TCLP Meta	ls	Date Anal	yzed:		09-20-99		
Condition:		N/A		Date Extra	acted:		N/A		
	1	e de Zandreo III. e . 1000.000	Control Control of Con				an war ang		
Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	%	Acceptance		
Arsenic	ND	ND	0.001	ND	ND	Diff.	Range		
		•				0.0%	0% - 30%		
Barium	ND	ND	0.01	3.65	3.65	0.0%	0% - 30%		
Cadmium	ND	ND	0.001	0.023	0.022	4.3%	0% - 30%		
Chromium	ND	ND	0.01	ND	ND	0.0%	0% - 30%		
Lead	ND	ND	0.05	ND	ND	0.0%	0% - 30%		
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%		
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%		
Silver	ND	ND	0.01	ND	ND	0.0%	0% - 30%		
Spike	ten sa tina cian	Spike -	Sample	Spiked	Percent		Acceptance		
Conc. (mg/L)		Added	Gample	Spiked	No set an ann an		Range		
		AUGO		oampie	TANG COMPANY		avenie e		
Arsenic		0.100	ND	0.098	98.0%		80% - 120%		
Barium		1.00	3.65	4.64	99.8%		80% - 120%		
Cadmium		0.500	0.023	0.522	99.8%		80% - 120%		
Chromium		0.50	ND	0.50	100.0%		80% - 120%		
Lead		0.50	ND	0.50	100.0%		80% - 120%		
Mercury		0.0250	ND	0.0248	99.2%		80% - 120%		

ND - Parameter not detected at the stated detection limit.

0.100

0.50

**References:** 

Selenium

Silver

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

0.099

0.49

99.0%

98.0%

80% - 120% 80% - 120%

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples G086 and G097 - G098.

ND

ND

Jun Analyst

tacy W Sendler

Review

### CHAIN OF CUSTODY RECORD

7400

Client / Project Name			Project Location	ANALYSIS / PA			IS / PAR	PARAMETERS									
EPFS.			Kutz (	Compre	essor S	tatie	m				_						
Sampler:			Client No.			ω α					Remarks						
Harcino ul.	Brown	)	97	057-	- ( 6		No. of Containers	TCLP -16 HEP									
Sample No./	Sample	Sample	Lab Number		Sample		Sont Z	F3									
Identification	Date	Time			Matrix			<b>F</b> J			· · · · · · · · · · · · · · · · · · ·						
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Relinquished by: (Signate	ure)					Recei	ved by:	(Signatu	re)		l						
Relinquished by: (Signate	ure)					Recei	ved by:	(Signatu	re)								
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				122 H 3 K											Y	Ν	N/A
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				raim	ington, N (505)	632-(		0740	I				Cool - Ice/Blue	Ice	,		
					1/		-						)				

Internal I - #305) 393-6161       New Mexico         O. Nax 1980       Energy Minerals and Natural Resource         Obbs. NM 88241-1980       Energy Minerals and Natural Resource         Intrict II - (505) 748-1283       Oil Conservation Division         1 S. First       2040 South Pacheco Street         Testa, NM 88210       2040 South Pacheco Street         Testa, NM 88210       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	
	SOLID WASTE
1. RCRA Exempt: 🔲 Non-Exempt: 🔀	4. Generator Harri Burton
Verbal Approval Received: Yes 🔲 No 🔀	5. Originating Site Main Kand
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Exulto Lak
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Jun Krapico
7. Location of Material (Street Address or ULSTR)	8. State Num Krapico 4109 E. Main St Farming ton Doc 87401
All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Dispose of conference	for transport. Toil discovered @
TCLP Attached DEGE M AUG 3 OIL CO	No DOV.
Estimated Volume $3-4$ cy Known Volume (to be entered by the ope	
SIGNATURE: Harlan M. Brown TITLE: Landfarm M. Brown TELL	anager DATE: <u><u>\$.24.99</u> EPHONE NO. <u>505-632-0615</u></u>
(This space for State Use) APPROVED BY: Dent & ten TITLE: Geolog APPROVED BY: TITLE: Envir	DATE: 8/24/97 + DATE: 8/25/99

District I.       (505) 393-6161       New Mexico         P. O. Box 1980       Hobbs. NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Energy Minerals and Natural Resource         811 S. First       Oil Conservation Division         Artesia, NM 88210       2040 South Pacheco Street         D' trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Harci Burton
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Main Kard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Easuiro fach
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Num Russico
7. Location of Material (Street Address or ULSTR)	4109 E. dain St Forming ton, Doc 87401
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordent of the generator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be according PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Disposace of ended oil contentinate</li> <li>baniad unknowed draw, Souther</li> <li>TCLP Mffacthad</li> </ul>	for transport.
Estimated Volume $\frac{3-4}{2}$ cy Known Volume (to be entered by the oper	rator at the end of the haul) cy
SIGNATURE: Harlan M. Brown TITLE: Landfarm Ma Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TELE	
TYPE OR PRINT NAME:       Harlan M. Brown       TELE         (This space for State Use)       (This space for State Use)         APPROVED BY:       Demographic Kent       TITLE:         APPROVED BY:       TITLE:	PHONE NO

<b>CERTIFICATE OF</b>	WASTE	<b>STATUS</b>
-----------------------	-------	---------------

HALLIBURGON SHORN Services	2. Destination Name:
4109 W. alaly st.	Enviratech Soil Remediation Facility
Farmington, Due 57401	Landfarm #2 Hilltop, New Mexico
Originating Size (name):	Location of the Weste (Street address &/or ULSTR):
SAL	•
· •	
Arresh list of originating aires as appropriate Source and Descriptions of Wasts Patroleum Hydrochuz Bon Con aban up of "unknown" du	tenningtod Soil goversted dering run et 58 Coaster of Facility.
MARTY COX	representative for:
Hall burt 20 (Print Name)	de barele ander an
ي بي يو من بي	do hereby certify that ny Act (RCRA) and Environmental Protection Agency's July

EXEMPT offield waste

K NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exampt non-hezardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

MSDS Information

Other (description):

- <u>F</u> RCRA Hezardous Waste Analysis <u>K</u> Chein of Custody

Name	Original Signature): Marty City
Title:	Deslegist U
Date:	8-24-99



August 16, 1999

Mr. Marty Cox Entact - Halliburton Farmington 1616 Corporate Court #150 Irving, Texas 75038

Project No.: 98061-05

Dear Mr. Cox,

Enclosed are the analytical results for the samples collected from the location designated as "Halliburton Main Yard". Two soil samples were collected by Envirotech personnel on 08/04/99, and received by the Envirotech laboratory on 08/04/99 for Hazardous Waste Characterization analysis (TCLP Volatile Organics, Semi-volatile Organics, Trace Metals, Corrosivity, Reactivity, and Ignitability) and Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015.

The samples were documented on Envirotech Chain of Custody No. 7260 and assigned Laboratory Nos. F815 (SE Corner Stockpile) and F816 (SE Corner Pit) for tracking purposes.

The samples were analyzed 08/05/99 through 08/10/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, Envirotech, Inc. Tacy W Sendler

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enc.

SWS\sws

98061-05.lb1/wpd



#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Entact	Project #:	806105
Sample ID:	SE Corner Stockpile	Date Reported:	08-06-99
Lab ID#:	F815	Date Sampled:	08-04-99
Sample Matrix:	Soil	Date Received:	08-04-99
Preservative:	Cool	Date Analyzed:	08-06-99
Condition:	Cool and Intact	Chain of Custody:	7260
Parameter	Result		]
IGNITABILITY:	Negative		
	negative		
CORROSIVITY:	Negative	pH = 6.79	
REACTIVITY:	Negative		
RCRA Hazardous Waste Criteria			
Parameter	Hazardous Waste Criterion		
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)		
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)		
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)		
Reference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.		
Comments:	Halliburton Main Yard	. Unknown Drum Soil.	

Comments:

Halliburton Main Yard. Unknown Drum Soil.

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Stacy W Sendler

Review

## **NVIROT CHOLABS**

#### A METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Entact	Project #:	806105
Sample ID:	SE Corner Stockpile	Date Reported:	08-10-99
Laboratory Number:	F815	Date Sampled:	08-04-99
Chain of Custody:	7260	Date Received:	08-04-99
Sample Matrix:	TCLP Extract	Date Extracted:	08-06-99
Preservative:	Cool	Date Analyzed:	08-10-99
Condition:	Cool & Intact	Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0014	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0035	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery		
		Trifluorotoluene 98%			
	· ·	Bromofluorobenzene	99%		
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.				
	• •	Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.			
		Volatile Organics, SW-846, USEPA,			
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.				
Comments:	SE Corner Stockpile. Unknown Drum Soil.				

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Stacy W Lendler

# ENVIROTECIO LABS

#### ćPA METHOD 8040 PHENOLS

Client:	Entact	Project #:	806105
Sample ID:	SE Corner Stockpile	Date Reported:	08-10-99
Laboratory Number:	F815	Date Sampled:	08-04-99
Chain of Custody:	7260	Date Received:	08-04-99
Sample Matrix:	TCLP Extract	Date Extracted:	08-06-99
Preservative:	Cool	Date Analyzed:	08-10-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.054	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ŇD	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery		
	2-Fluorophenol	98%		
	2,4,6-Tribromophenol	99%		

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Halliburton Main Yard. Unknown Drum Soil.

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Stacy W Sendler

# ENVIRO COM LABS

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	Entact	Project #:	806105
Sample ID:	SE Corner Stockpile	Date Reported:	08-10-99
Laboratory Number:	F815	Date Sampled:	08-04-99
Chain of Custody:	7260	Date Received:	08-04-99
Sample Matrix:	TCLP Extract	Date Extracted:	08-06-99
Preservative:	Cool	Date Analyzed:	08-10-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	100%
References:	Method 3510, Separato	od 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. od 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. od 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.	
Note:	Regulatory Limits based	Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.	
Comments:	Halliburton Main Y	ard. Unknown Drum Soil.	

Jean h. ajum

Stacy W Sendler

# ENVIROTECIO LABS

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Entact	Project #:	806105
Sample ID:	SE Corner Stockpile	Date Reported:	08-10-99
Laboratory Number:	F815	Date Sampled:	08-04-99
Chain of Custody:	7260	Date Received:	08-04-99
Sample Matrix:	TCLP Extract	Date Analyzed:	08-10-99
Preservative:	Cool	Date Extracted:	08-06-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
A	ND	0.004	
Arsenic	ND	0.001	5.0
Barium	1.36	0.01	21
Cadmium	ND	0.001	0.11
Chromium	0.01	0.01	0.60
Lead	0.20	0.05	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.001	5.7

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

ND

Comments:

Silver

Halliburton Main Yard. Unknown Drum Soil.

Stacy W Lendler Review

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### **QUALITY ASSURANCE / QUALITY CONTROL**

#### DOCUMENTATION

1

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

### Enviro "CCIO LABS ACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### A METHODS 8010/8020 **AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	08-10-99
Laboratory Number:	08-10-TCLP Vol	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-10-99
Condition:	N/A	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachioride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	. ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene	100%
		Bromofluorobenzene	100%
References:	Method 1311, Toxicity C	Characteristic Leaching Procedure, SW-	846, USEPA, July 1992.
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEPA,	Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.
Note:	Regulatory Limits based	I on 40 CFR part 261 Subpart C section	261.24, July 1, 1992.
Comments:	QA/QC for samples	s F814 - F815.	

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Stacy W Sendler Review

# ENV ROTECHO LABS

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#### A METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QAVQC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	08-10-99
Laboratory Number:	08-06-TCLP Vol	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-10-99
Condition:	N/A	Date Extracted:	08-06-99
		Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

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ND - Parameter not detected at the stated detection limit.

QA/QC Accep	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	99%
		Bromofluorobenzene	98%
References:	· · ·	haracteristic Leaching Procedure, SW	/-846, USEPA, July 1992.
	-	I-Trap, SW-846, USEPA, July 1992. ted Volatile Organic, SW-846, USEPA	Sont 1994
		Volatile Organics, SW-846, USEPA, S	•
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C sectio	n 261.24, July 1, 1992.
Comments:	QA/QC for samples	5 F814 - F815.	
()	POI		Itacy W Sendler
Analyst	n. yu	Review	

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# ENVIROTECH LAB \*

#### AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplic	ate	Date Reported:	08-10-99
Laboratory Number:	F814		Date Sampled:	N/A
Sample Matrix:	Water		Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	08-10-99
Condition:	N/A		Date Extracted:	N/A
		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	0.0060	0.0060	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	0.0002	0.0002	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0042	0.0042	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chiorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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Stacy W Sendler Review

### ROT-C ICAL SOLUTIONS FOR A BETTER TOMORROW

#### METHODS 8010/8020 AROMATIC / HALOGENATED **VOLATILE ORGANICS QUALITY ASSURANCE REPORT**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	08-10-99
Laboratory Number:	F814	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	08-10-99
Condition:	N/A	Date Extracted:	N/A

			Spiked			SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept.
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	0.0060	0.050	0.0554	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	0.0002	0.050	0.0499	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0042	0.050	0.0540	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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Stacy W Sendler Review

## FAV ROTFCH LABS

#### EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

100

0.020

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	08-10-99
Laboratory Number:	08-10-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-10-99
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
L' L			

ND - Parameter not detected at the stated detection limit.

Pentachlorophenol

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

ND

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples F814 - F815.

R. ajun Analyst

Stacy W Sendler Review

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#### EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	08-10-99
Laboratory Number:	08-06-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	08-06-99
Condition:	Cool & Intact	Date Analyzed:	08-10-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recove	ries: Parameter	Percent Recovery
	2-Fluorophenol 2,4,6-Tribromophenol	98% 99%
References:	Method 1311, Toxicity Characteristic Leaching P Waste, SW-846, USEPA, July 1992.	rocedure Test Methods for Evaluating Solid
	Method 3510, Separatory Funnel Liquid-Liquid E Waste, SW-846, USEPA, July 1992.	xtraction, Test Methods for Evaluating Solid
	Method 8040, Phenols, Test Methods for Evalua	ting Solid Waste, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based on 40 CFR part 261 sub	opart C section 261.24, July 1, 1992.
Comments:	QA/QC for samples F814 - F815.	
Analyst	. Ofen	Stacy W Sendler Review

#### AV ROTICH LABS CAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 PHENOLS **Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	08-10-99
Laboratory Number:	F814	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	08-10-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

8040 Compounds	30.0%
aracteristic Leaching Procedure Test I July 1992.	Methods for Evaluating Solid
	Methods for Evaluating Solid
st Methods for Evaluating Solid Wast	e, SW-846, USEPA, Sept. 1986.
n 40 CFR part 261 subpart C section	261.24, July 1, 1992.
	tacy W Send
	Funnel Liquid-Liquid Extraction, Test July 1992. est Methods for Evaluating Solid Wast n 40 CFR part 261 subpart C section <b>F814 - F815.</b>

Review



#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	08-10-99
Laboratory Number:	08-10-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	08-10-99
		Analysis Requested:	TCLP
		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND		0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accept	tance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	99%
References:	•	Characteristic Leaching Procedure, S	•
	Method 3510, Separat	ory Funnel Liquid-Liquid Extraction, S	W-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

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Stacy W Sendler Review



#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	08-10-99
Laboratory Number:	08-06-TBN-MB	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool and Intact	Date Analyzed:	08-10-99
		Analysis Requested:	TCLP

	Concentration	Det. Limit	Regulatory Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0,5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	100%
References:	Method 1311, Toxicity Characteristic Leaching Procedure		SW-846, USEPA, July 1992.
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction,	SW-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846	, USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C se	ction 261.24, July 1, 1992.

Comments:

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Stacy W Sendler

# ENVIROT. CPLABS

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	08 <b>-</b> 10-99
Laboratory Number:	F814	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	08-10-99
		Analysis Requested:	TCLP

	Sample	Duplicate	. D	Det.
Parameter	Result (mg/L)	Result	Percent Difference	
	(119/٢)	(mg/L)		(mg/L)
Pyridine	ND ·	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference
		8090 Compounds	30%
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, S	W-846, USEPA, July 1992.
	Method 3510, Separato	ry Funnel Liquid-Liquid Extraction, SV	<i>N-</i> 846, USEPA, July 1992.
	Method 8090, Nitroaron	natics and Cyclic Ketones, SW-846, L	JSEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C secti	ion 261.24, July 1, 1992.

Comments:

P. Que

Stacy W Sendler Review

# INV ROUTOR \_ABS

#### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #:			N/A	
Sample ID:		08-10-TCN	I QA/QC	Date Rep	orted:		08-10-99	
Laboratory Number:		F814		Date San	npled:		N/A	
Sample Matrix:		Water		Date Rec	eived:		N/A	
Analysis Requested:		TCLP Meta	als	Date Analyzed:			08-10-99	
Condition:		N/A		Date Extr	•		N/A	
Blank & Duplicate	Instrument	Method	Detection		. Duplicate	%	Acceptance	
Conc. (mg/L)	Blank	Blank	Limit			Diff.	Range	
Arsenic	ND ND	ND	0.001	ND	ND	0.0%	0% - 30%	
Barium	ND	ND	0.01	0.22	0.22	0.0%	0% - 30%	
Cadmium	ND	ND	0.001	0.024	0.024	0.0%	0% - 30%	
Chromium	ND	ND	0.01	0.23	0.23	0.0%	0% - 30%	
Lead	ND	ND	0.05	ND	ND	0.0%	0% - 30%	
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%	
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%	
Silver	ND	ND	0.01	ND	ND	0.0%	0% - 30%	

Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.100	ND	0.098	98.0%	80% - 120%
Barium	1.00	0.22	1.20	98.4%	80% - 120%
Cadmium	0.500	0.024	0.523	99.8%	80% - 120%
Chromium	0.25	0.23	0.47	97.9%	80% - 120%
Lead	1.00	ND	0.99	99.0%	80% - 120%
Mercury	0.0250	ND	0.0249	99.6%	80% - 120%
Selenium	0.100	ND	0.097	97.0%	80% - 120%
Silver	1.00	ND	0.99	99.0%	80% - 120%

Spike Spike Sample Spiked Percent Acceptance

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples F789, F814 and F815.

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Stacy W Sendler Review

### CHAIN OF CUSTODY RECORD

7260

Client / Project Name		<u> </u>	Project Location		<del></del>							METERO	·			
ENTACT			Anuisu				4		AN	IALYSIS	D/ PARA	METERS				
Sampler: Hotelma H	A 1310	1)	Client No.	GRAG	5-1-6 <b>2</b> Sample	thus _ s	-CLP	5			•		Re	marks		
Sample No./		ı—·		7006	Samala	No. c	Containers SOLS TOLF									
Identification	Sample Date	Sample Time	Lab Number		Sample Matrix	ိ ပိ	14,1	6								
SECORNER Stockpilve	8.4.99	14:10	1-815		Suil	2	~					na	Kwo Joil	<b>س</b> ما	Dri	~~~
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					•	32-0615		•				Cool - Ice/Bl	ue Ice		-	

District I - (505) 393-6161       New Mexico         O Box 1930       Iobida NM 88241-1980         Iobida NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         11 S. First       2040 South Pacheco Street         'resia, NM 88210       2040 South Pacheco Street         'resia, NM 88210       Santa Fe, New Mexico 87505         'resia, NM 87410       (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator BJ. Services
Verbal Approval Received: Yes 🛄 No 😡	5. Originating Site Harn Yang
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eautrofach
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Den kunstico
7. Location of Material (Street Address or ULSTR)	3250 Souther River Rond Formington Nous Marico 87401
9. <u>Circle One</u> :	
<ul> <li>B. All requests for approval to accept non-exempt wastes must be accorded proved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Certification of Wash Bay Solid</li> </ul>	s of crigin. No waste classified hazardous by
TCLP Attached	DEGEUVED N AUG 3 0 1999
- · · ·	OIL CON. DIV. DIST. 3
Estimated Volume 30 cy Known Volume (to be entered by the ope	erator at the end of the haul) $-62$ cy
SIGNATURE: Harlan M. Brown TITLE: Landfarm M. Brown TEL	anager     DATE:     8.2.4.99       EPHONE NO.     505-632-0615
(This space for State Use) APPROVED BY: A Conformation State Use) APPROVED BY: Manting Time TITLE: Enc. Ge	

District I - (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 'urict\_III - (505) 334-6178 Rio Brazos Road Lic, NM 87410 District IV - (505) 827-7131

#### New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

Form C-138 Originated 8/8/95

> Submit Original Plus I Copy to appropriate **District** Office

#### Env. JN: 92(0)

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1.	RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator BJ. Sorvices			
	Verbal Approval Received: Yes 🚺 No 😡	5. Originating Site Main Kang			
2.	Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter East of Lach			
3.	Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Daw knappies			
7.	Location of Material (Street Address or ULSTR)	3250 Southable River Road Farmington Dow Marico 8740			

- 9. Circle One:
  - A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
  - B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

TCLP Attached

Continuation of Wuch Bay SoliDS

Estimated Volume 30 cy Known Volume	(to be entered by the operator at the end	of the haul) cy
SIGNATURE: Horlow Brown	TITLE: Landfarm Manager	DATE: 8.24.99
Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME:Harlan M. Brown	TELEPHONE NO.	505-632-0615
(This space for State Use) APPROVED BY: Demy D. Lem	TITLE: GCOlOGIST	
APPROVED BY:	TITLE:	DATE:

### **CERTIFICATE OF WASTE STATUS**

. ..

1. Generator Name and Address:	2. Destination Name:
BJ Services 3250 Soutphile Rives Road	
3250 Soutphile Kines King	Envirotech Soil Remediation Facility
Formington, New Mex 87401	Landfarm #2
3 -	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
-11	•
SAA	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	· · · · · · · · · · · · · · · · · · ·
Wash bay solids	
e e e e e e e e e e e e e e e e e e e	
	· · · ·
1. Les BAugh	
Les DAUght	representative for:
RT Server (marrie)	do hereby certify that,
according to the Resource Conservation and Recove	ry Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
EXEMPT oilfield waste 🛛 📈 NON-EXEM	MPT oilfield waste which is non-hazardous by characteristic
	r by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docur	
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
X Chain of Custody	
	<u>λ</u>
	/
Name (Original Signature): Ty Deut	$\sim$
Title: Faultien Superior	
Date: 8/23/99	



#### **REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCL	P 12-23-98
Printed Nam	ne Les Brugh
Title / Agen	cy Fac. Super:
Address	3250 Southside hive bood
	Farmington, New My. 8740/
Signature	for band
Date	8/23/99

# FAVIROTECHALABS

January 28, 1999

Mr. Les Baugh B. J. Services, Inc. 3220 Bloomfield Highway Farmington, New Mexico 87401

Project No.: 92101

Dear Mr. Baugh,

Enclosed are the analytical results for the sample collected from the location designated as "Farmington, NM - Wash Bay Solids". One soil sample was collected by Envirotech personnel and delivered to the Envirotech laboratory on 01/13/99 for Hazardous Waste Characterization analysis (TCLP Volatiles, Semi-volatiles, Trace Metals, Corrosivity, Reactivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 6501 and assigned Laboratory No. E503 for tracking purposes.

The sample was extracted on 01/18/99 and analyzed 01/18/99 through 01/27/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.** 

acy W Sendler

Stacy W. Sentiler Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92101lb4.wpd

### Envirotech<sup>®</sup>Labs

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	B J Services	Project #:				
Sample ID:	Wash Bay Solids	Date Reported:	01-15-99			
Lab ID#:	E503	Date Sampled:	01-13-99			
Sample Matrix:	Soil	Date Received:	01-13-99			
Preservative:	Cool	Date Analyzed:	01-15-99			
Condition:	Cool and Intact	Chain of Custody:	6501			
Parameter	Result					
	Negative					
CORROSIVITY:	Negative	pH = 8.87				
REACTIVITY:	Negative					
RCRA Hazardous Waste Crite	ria					
Parameter	Hazardous Waste Criterio	n				
IGNITABILITY: Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.						

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

REACTIVITY: Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

Comments:

CORROSIVITY:

Wash Bay, Farmington, NM.

Analyst

tacy W Sendler

Review

### FNV ROTECH ABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay Solids	Date Reported:	01-19-99
Laboratory Number:	E503	Date Sampled:	01-13-99
Chain of Custody:	6501	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-19-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0078	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	otance Criteria	Parameter	Percent Recovery
		Trifluorotoluene Bromofluorobenzene	98% 99%
References:	Method 1311, Toxicity C	ity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.	
	Method 5030, Purge-and	d-Trap, SW-846, USEPA, July 1992.	
	Method 8010, Halogena	ted Volatile Organic, SW-846, USEF	PA, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA,	Sept. 1994.
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C sect	tion 261 24. July 1, 1992.

Comments:

Wash Bay, Farmington, NM.

Analyst

Stacy W Sendler Review

### - NVIROTEC: PLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA METHOD 8040 \_\_\_\_\_PHENOLS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay Solids	Date Reported:	01-21-99
Laboratory Number:	E503	Date Sampled:	01-13-99
Chain of Custody:	6501	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.120	0.020	200
p,m-Cresol	0.075	0.040	200
2,4,6-Trichlorophenol	0.530	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.556	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

### References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Wash Bay, Farmington, NM.

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### - NVIROTEC: PLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay Solids	Date Reported:	01-22-99
Laboratory Number:	E503	Date Sampled:	01-13-99
Chain of Custody:	6501	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
·····	· · · · · · · · · · · · · · · · · · ·		
Pyridine	ND	0.020	5.0
Hexachloroethane	0.172	0.020	3.0
Nitrobenzene	0.604	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accept	ance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	97%
References:	•	ethod 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.	
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.		
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		
Comments:	Wash Bay, Farmin	aton. NM.	

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## Envirotechelabs

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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### EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	B. J. Services	Project #:	92101
Sample ID:	Wash Bay Solids	Date Reported:	01-23-99
Laboratory Number:	E503	Date Sampled:	01-13-99
Chain of Custody:	6501	Date Received:	01-13-99
Sample Matrix:	Soil	Date Analyzed:	01-23-99
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.0001	5.0
Barium	1.17	0.001	21
Cadmium	0.0611	0.0001	0.11
Chromium	0.0168	0.0001	0.60
Lead	0.0586	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.0001	5.7
Silver	ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

Wash Bay, Farmington, NM.

Leun Analyst

Stacy W Sendler Review



#### PRACTICAL SOLUTIONS FOR A BETTIER TOMORROW

## QUALITY ASSURANCE / QUALITY CONTROL

## DOCUMENTATION

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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## EPA METHODS 8010/8020 **AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report**

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Parameter	Concentration (mg/L)	Limit (mg/L)	Limits (mg/L)
		Detection	Regulatory
Condition:	N/A	Analysis Requested:	TCLP
Preservative:	N/A	Date Analyzed:	01-19-99
Sample Matrix:	TCLP Extract	Date Received:	N/A
Laboratory Number:	01-19-TCV-Blank	Date Sampled:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-19-99
Client:	QA/QC	Project #:	N/A

	(	(	(
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5
•			

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		Trifluorotoluene 100%		
		Bromofluorobenzene	100%	
References:	Method 1311, Toxicity	xicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		
	Method 5030, Purge-a	ge-and-Trap, SW-846, USEPA, July 1992.		
	Method 8010, Halogen	enated Volatile Organic, SW-846, USEPA, Sept. 1994.		
	Method 8020, Aromatic	volatile Organics, SW-846, USEPA, S	Sept. 1994.	
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sectio	on 261.24, July 1, 1992.	

Comments:

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tacy W Sendler Review

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### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-19-99
Laboratory Number:	01-18-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	01-18-99
		Analysis Requested:	TCLP
		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		Trifluorotoluene	99%	
		Bromofluorobenzene	98%	
References:	Method 1311, Toxicity	ity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.		
	Method 5030, Purge-ai	e-and-Trap, SW-846, USEPA, July 1992.		
	Method 8010, Halogen	enated Volatile Organic, SW-846, USEPA, Sept. 1994.		
	Method 8020, Aromatic	atic Volatile Organics, SW-846, USEPA, Sept. 1994.		
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C section	on 261.24, July 1, 1992.	

Comments:

Stacy W Sendler Review

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 **AROMATIC / HALOGENATED** VOLATILE ORGANICS **QUALITY ASSURANCE REPORT**

Client:	QA/QC		Project #:	N/A
Sample ID:	Matrix Duplicat	e	Date Reported:	01-19-99
Laboratory Number:	E499		Date Sampled:	N/A
Sample Matrix:	TCLP Extract	•	Date Received:	N/A
Analysis Requested:	TCLP		Date Analyzed:	01-19-99
Condition:	N/A		Date Extracted:	N/A
		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.09
Chloroform	ND	ND	0.0001	0.09
Carbon Tetrachloride	ND	ND	0.0001	0.09
Benzene	ND	ND	0.0001	0.0
1,2-Dichloroethane	ND	ND	0.0001	0.09
Trichloroethene	ND	ND	0.0003	0.0
Tetrachloroethene	ND	ND	0.0005	0.0
Chlorobenzene	ND	ND	0.0003	0.0
1,4-Dichlorobenzene	ND	ND	0.0002	0.0

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

QA/QC for samples E499 and E503.

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Stacy W Sendler

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A -
Sample ID:	Matrix Spike	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	<b>99%</b> .	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

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Stacy W Sendler Review

## ENVIROTECHABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS

## **Quality Assurance Report**

Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-21-99
Laboratory Number:	01-21-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
Parameter	Concentration (mg/L)	Limit (mg/L)	Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

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#### PRACTICAL SOLUTIONS FOR A TOMORROV

## EPA METHOD 8040 PHENOLS

**Quality Assurance Repor** 

Client:	QA/QC	T Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-21-99
Laboratory Number:	01-18-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	<sup></sup> N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichiorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

**References:** Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

> Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

QA/QC for samples E499 and E503.

Comments:

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### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## **EPA METHOD 8040** PHENOLS

**Quality Assurance Report** 

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	0.123	0.122	0.020	1.0%
p,m-Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	0.060	0.059	0.020	1.0%
2,4,5-Trichiorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	0.556	0.551	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

	Method 1311, Toxicity C Waste, SW-846, USEPA	8040 Compounds	<b>30.0%</b>
		haracteristic Leaching Procedure Test	Matheodo Con Frankradian Onlid
			Methods for Evaluating Solid
	Method 3510, Separator Waste, SW-846, USEP/	y Funnel Liquid-Liquid Extraction, Test A, July 1992.	Methods for Evaluating Solid
,	Method 8040, Phenols,	Test Methods for Evaluating Solid Was	te, SW-846, USEPA, Sept. 1986.
Note:	Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.		
Comments:	QA/QC for samples	E499 and E503.	

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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QA/QC	Project #:	N/A
Laboratory Blank	Date Reported:	01-22-99
01-21-TBN - Blank	Date Sampled:	N/A
Hexane	Date Received:	. N/A
N/A	Date Extracted:	N/A
N/A	Date Analyzed:	01-21-99
	Analysis Requested:	TCLP
	Laboratory Blank 01-21-TBN - Blank Hexane N/A	Laboratory BlankDate Reported:01-21-TBN - BlankDate Sampled:HexaneDate Received:N/ADate Extracted:N/ADate Analyzed:

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Accept	ance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	96%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, S	SW-846, USEPA, July 1992.
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction, S	SW-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		

Comments:

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QUALITY ASSURANCE REPORT-

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-22-99
Laboratory Number:	01-18-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/Ä
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool and Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	95%
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.		
		matics and Cyclic Ketones, SW-846,	
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		

Comments:

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Stacy W Sendler Review



PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8090 **Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics-**QA/QC Matrix Duplicate Report

0.0%

0.020

	•				
Client:	QA/QC	Project #:	_`	N/A	
Sample ID:	Matrix Duplicate	Date Reported:		01-22-99	
Laboratory Number:	E499	Date Sampled:		N/A	
Sample Matrix:	TCLP Extract	Date Received:		N/A 01-18-99	
Preservative:	N/A	Date Extracted:			
Condition:	N/A	Date Analyzed:		01-21-99	
		Analysis Reque	sted:	TCLP	
	Sample	Duplicate		Det.	
	Result	Result	Percent	Limit	
Parameter	(mg/L)	(mg/L)	Difference	(mg/L)	
Pyridine	0.054	0.053	1.0%	0.020	
Hexachloroethane	0.353	0.349	1.0%	0.020	
Nitrobenzene	0.202	0.200	0.9%	0.020	
Hexachlorobutadiene	ND	ND	0.0%	0.020	
2,4-Dinitrotoluene	ND	ND	0.0%	0.020	
•					

ND

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference
		8090 Compounds	30%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure, S	SW-846, USEPA, July 1992.
	Method 3510, Separate	ory Funnel Liquid-Liquid Extraction, S	SW-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	d on 40 CFR part 261 Subpart C sec	ction 261.24, July 1, 1992.

Comments:

**HexachloroBenzene** 

QA/QC for samples E499 and E503.

ND

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## FNVIROTECHARBS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	QA/QC	Project #:	. N/A
Sample ID:	01-23-TCM QA/QC	Date Reported:	01-23-99
Laboratory Number:	E449	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	01-23-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mpf.)	inatrument Blank	Blank	Deuction	Sample	Duplicato	DIA.	Acceptance Rango
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.53	1.53	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.0329	0.0324	1.5%	0% - 30%
Chromium	ND	ND	0.0001	0.0301	0.0300	0.3%	0% - 30%
Lead	ND	ND	0.0001	0.0309	0.0307	0.6%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

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Arsenic	0.1000	ND	0.0997	99.7%	80% - 120%
Barium	1.000	1.53	2.53	100.0%	80% - 120%
Cadmium	0.0500	0.0329	0.0826	99.6%	80% - 120%
Chromium	0.0500	0.0301	0.0802	100.1%	80% - 120%
Lead	0.1000	0.0309	0.131	99.8%	80% - 120%
Mercury	0.0250	ND	0.0248	99.2%	80% - 120%
Selenium	0.1000	ND	0.0998	99.8%	80% - 120%
Silver	0.0500	ND	0.0499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

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Itacy W Sendler Review

## CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location	um.				A	NALYSIS /	PARAME	TERS	<u> </u>	: ;	<u></u>	
BJ SERVICES WASH BA			<u></u>			r	·			<u>-</u>	 		
Sampler: Morris D. young	Client No.		ers	2 2						Re	marks	· .	
	92101		No. of Containers	2 2							1		
Sample No./ Sample Sample Identification Date Time	Lab Number	Sample Matrix	2 20	K 3						· <b>- · · · ·</b> · · · ·	ļ		
WASH BAY SULLS 1/13/99 15:5.	E 503 5	oiL											
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elinquished by: (Signature)	Date	Time Receiv	ed by: (	Signatur	e)	$\bigcirc$	LL	<u>I</u>	L	D	ate	Т	me
Marin Grenz	1/13/99		le		P. (	the	cen-		-	1.1	3.99	16	:2[
Relinquished by: (Signature)		Receiv	ed by: (	Signatur	e)	ł					ł		
Relinquished by: (Signature)		Receive	ed by: (	Signatur	e)								
	FOV	IROTEC	7,1		,				Sa	mple Re	sceipt	<u>      </u> _	
					ø.						Y	N	N/A
		796 U.S. High ngton, New Me						R	leceived In	tact	2	-	
		(505) 632-0						Co	ol - Ice/Blu	ie Ice	L	/	

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District i - (505) 393-6161 P. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 11 S. First Wresia, NM 88210 Writer III - (505) 334-6178 Nio Brazos Road -c, NM 87410 District IV - (505) 827-7131 $O[[] CO[N]_{O}]$ $O[[] CO[N]_{O}]$	n Submit Original
	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Halliburton Ealorgy Services
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Hain Theo
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eautotal
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87.401	8. State Draw Whareder
7. Location of Material (Street Address or ULSTR)	409 E. Male. Formineton Durbly Hates
<ul> <li>B. All requests for approval to accept non-exempt wastes must be according PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Continuation of work bory solids delivered are only the solids delivered are solid to the solid delivered are only the solid delivered are only the solid delivered are solid to the solid delivered are solid delivered</li></ul>	n of origin. No waste classified hazardous by
Estimated Volume cy Known Volume (to be entered by the op	erator at the end of the haul) $\frac{153}{2}$ cv
SIGNATURE: <u>Waste Management FacilityAuthorized Agent</u> Harlan M. Brown TEL	Manager     DATE:
	9 is DATE: 8/24/69 
APPROVED BY: Marlyn J. Kalz- TITLE: Zavinon	UAIE: UAIE:

Diatrict I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         Diatrict II - (505) 748-1283       Oil Conservation Divisio         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         D'urict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🗹	4. Generator Eaboray Sorvices
Verbal Approval Received: Yes 🗋 No 🔀	5. Originating Site Main Young
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduardean
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Dim Whater
7. Location of Material (Street Address or ULSTR)	409 E. Hale. Forming for Dup black Co
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordenerator; one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordenerator.</li> <li>PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> </ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Continuation of work boy solids d TCLP = REAFFINATion Staten Estimated Volume - 80 cy Known Volume (to be entered by the ope	

SIGNATURE: toula Que Branco	TITLE: Landfarm Manager	- DATE: 5.29.99
Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME:Harlan M. Brown	TELEPHONE NO.	505-632-0615
(This space for State Use) APPROVED BY:	t- Celait	DATE: 8/24/90

APPROVED BY:         TITLE:         DATE:	

## **CERTIFICATE OF WASTE STATUS**

1

1. Generator Name and Address:	2. Destination Name:
Hallebuton Energy Services 4109 E Main Farmington M Mex 87401 3. Originating Site (name):	Envirotech Soil Remediation Facility Landfarm #2 <u>Hilltop, New Mexico</u> Location of the Waste (Street address &/or ULSTR):
	4109 & Main
Wash Bay Stalove Holding Anen	Farington MMex-
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Wash Boy Delido ( continue	Tim
1, DOUG HODGES Holdfish Engy Serve	representative for:
Happet & (Print Name)	do hereby certify that,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ry Act (RCRA) and Environmental Protection Agency's July,
	MPT oilfield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):

Name (Original Signature):	Doug Hoolgen
Title: Maintenance	Superinsin
Date: 8 /23/99	

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## **REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP <u>1-13-99</u>
Printed Name DOUG HODGES
Title / Agency Thounterere Aupencion
Address 4109 E Main
Farmington MThes
Signature Doug Klerker
Date <u>\$/23/99</u>

# ENVIROTEC LABS

January 28, 1999

Mr. Ed Shannon Halliburton Energy Services, Inc. 4109 East Main Street Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Shannon,

Enclosed are the analytical results for the sample collected from the location designated as "East Main, Farmington-Wash Bay Solids". One soil sample was collected by Envirotech personnel on 01/13/99, and delivered to the Envirotech laboratory on 01/13/99 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 6498 and assigned Laboratory No. E499 for tracking purposes. The sample was extracted on 01/18/99 and analyzed 01/18/99 through 01/27/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.** 

y W Sendler

Stacy W. Sendler Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tclp0199.lb1

## ENVIROTEC

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## SUSPECTED HAZARDOUS WASTE ANALYSIS

GNITABILITY:	Negative		
Parameter	Result		
	·····		
Condition:	Cool and Intact	Chain of Custody:	6498
Preservative:	Cool	Date Analyzed:	01-15-99
Sample Matrix:	Soil	Date Received:	01-13-99
Lab ID#:	E499	Date Sampled:	01-13-99
Sample ID:	Wash Bay Solids	Date Reported:	01-15-99
Client:	Halliburton	Project #:	92132

**CORROSIVITY:** pH = 7.98 Negative **REACTIVITY:** Negative

**RCRA Hazardous Waste Criteria** 

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < $60^{\circ}$ C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sutfide or Cyanide gases at STP with pH between 2.0 and 12.5)
erence:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Reference:

Comments:

East Main, Farmington.

tacy W Sendler

Review

## ENV RO ECHPLABS

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA THODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

			· ·
Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-19-99
Laboratory Number:	E499 -	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	~ 0 <b>1</b> -19-99
Condition:	Cool & Intact	Analysis Requested:	TCLP
Ľ.		Detection	Regulator
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyi Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		Trifluorotoluene 98%	
		Bromofluorobenzene	99%
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, SW-	846, USEPA, July 1992.
÷		nd-Trap, SW-846, USEPA, July 1992.	
		ated Volatile Organic, SW-846, USEPA,	Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, Se	ept. 1994.
Note:	Regulatory Limits based	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.	
Comments:	s: East Main, Farmington.		

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Stacy W Sendler Review

# ENVIRO ECHPLABS

## EPA METHOD 8040 PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99 -
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.123	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	0.060	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachiorophenol	0.556	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluoropheno!	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

East Main, Farmington.

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Review

# ENV RO ECH LABS

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics

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Oliante		Desis et du	min
Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-22-98
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool and Intact	Analysis Requested:	TCLP
		Det.	Regulatory
	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Pyridine	0.054	0.020	5.0
Hexachloroethane	0.353	0.020	3.0
Nitrobenzene	0.202	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5

0.020

0.020

ND - Parameter not detected at the stated detection limit.

2,4-Dinitrotoluene

**HexachloroBenzene** 

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		2-fluorobiphenyl	98%	
References:		Characteristic Leaching Procedure, S		
	-	paratory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992. roaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.		
Note:	Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.		tion 261.24, July 1, 1992.	
Comments:	East Main, Farming	gton.		

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tacy W Sendler Review

## Envirotechelabs

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

—			
Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-23-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	<b>6498</b>	Date Received:	01-13-99
Sample Matrix:	Soil	Date Analyzed:	01-23-99
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

· ·		Det.	Regulatory	
	Concentration	Limit	Level	
Parameter	(mg/L)	(mg/L)	(mg/L)	
Arsenic	ND	0.0001	5.0	
Barium	1.53	0.001	21	
Cadmium	0.0329	0.0001 -	0.11	
Chromium	0.0301	0.0001	0.60	
Lead	0.0309	0.0001	0.75	
Mercury	ND	0.0001	0.025	
Selenium	ND	0.0001	5.7	
Silver	ND	0.0001	0.14	

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments:

Note:

East Main, Farmington.

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tacy W Sendler Review

# FOURO ECH LABS

## QUALITY ASSURANCE / QUALITY CONTROL

## DOCUMENTATION

## ENVIROTECHPLABS

### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### E. → METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

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Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-19-99
Laboratory Number:	01-19-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Analysis Requested:	TCLP
	······	Detection	Regulatory
•	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		Trifluorotoluene	100%	
		Bromofluorobenzene	100%	
References:	Method 1311, Toxicity Cha	aracteristic Leaching Procedure, SV	/-846, USEPA, July 1992.	
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.			
	Method 8010, Halogenate	d Volatile Organic, SW-846, USEPA	A, Sept. 1994.	
	Method 8020, Aromatic Vo	platile Organics; SW-846, USEPA, S	Sept. 1994.	
Note:	Regulatory Limits based o	n 40 CFR part 261 Subpart C sectio	on 261.24, July 1, 1992.	

0.0003

0.0002

Comments:

Chlorobenzene

1,4-Dichlorobenzene

QA/QC for samples E499 and E503.

ND

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Stacy W Sendler Review

## FOVIRO ECHPLOBS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-19-99
Laboratory Number:	01-18-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	01-18-99
		Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	ptance Criteria	Parameter	Percent Recovery
		Trifluorotoluene	99%
		Bromofluorobenzene	98%
References:	Method 1311, Toxicity (	Characteristic Leaching Procedure, SW	V-846, USEPA, July 1992.
	Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.		
	Method 8010, Halogena	ated Volatile Organic, SW-846, USEPA	A, Sept. 1994.
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA, S	Sept. 1994.
Note:	Regulatory Limits baser	d on 40 CFR part 261 Subpart C section	on 261.24. July 1, 1992.

Comments:

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tacy W Sendler Review

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

#### METHODS 8010/8020 EP/ **AROMATIC / HALOGENATED VOLATILE ORGANICS** QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	<sup></sup> 01-19-99
Condition:	N/A	Date Extracted:	N/A

	<u> </u>	Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND .	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

**Comments:** 

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tacy W Sendler Review

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

,						
Client:	QA/QC		<u>.</u>	Project #:		N/A
Sample ID:	Matrix Spike			Date Reporte	əd:	01-19-99
Laboratory Number:	E499			Date Sample	d:	N/A
Sample Matrix:	TCLP Extract			Date Receive	ed:	N/A
Analysis Requested:	TCLP			Date Analyze	ed:	01-19-99
Condition:	N/A			Date Extract	ed:	<b>N/A</b>
			Spiked	·		SW-846
	Sample	Spike	Sample	Det.		% Rec.
	Result	Added	Result	Limit	Percent	Accept
Parameter	(mg/L)	(mg/L)	(mg/L)	(mg/L)	Recovery	Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	` <del>9</del> 9%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	<b>98%</b>	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	· 99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992. Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992. Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

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Stacy W Sendler Review

## ENVIRO ECHPLABS

#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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## EPA METHOD 8040 PHENOLS Quality Assurance Report

---Laboratory Blank----

Client:	QAVQC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-21-99
Laboratory Number:	01-21-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-21-99
Condition:	N/A	Analysis Requested:	TCLP
Analytical Results		Detection	Regulatory
-	Concentration	Limit	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

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tacy W Sendler Review

## PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## **EPA METHOD 8040** PHENOLS **Quality Assurance Report**

•			
Client:	QA/QC	Project #:	Ň/A
Sample ID:	Method Blank	Date Reported:	01-21-99
Laboratory Number:	01-18-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid **References:** Waste, SW-846, USEPA, July 1992.

> Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments:

Note:

tacy W Sendler Review



#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS

**Quality Assurance Report** 

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

······································	Sample Result	Duplicate Result	Detection Limit	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
o-Cresol	0.123	0.122	0.020	1.0%
p,m-Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	0.060	0.059	0.020	1.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	0.556	0.551	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

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		Maximum Difference
	8040 Compounds	30.0%
•	•	Vethods for Evaluating Solid
		Methods for Evaluating Solid
Method 8040, Phenols,	Test Methods for Evaluating Solid Wast	e, SW-846, USEPA, Sept. 1986.
Regulatory Limits based	on 40 CFR part 261 subpart C section	261.24, July 1, 1992.
QA/QC for samples	E499 and E503.	
POI		tacy W Sendler
	Waste, SW-846, USEP/ Method 3510, Separator Waste, SW-846, USEP/ Method 8040, Phenols, Regulatory Limits based	Method 1311, Toxicity Characteristic Leaching Procedure Test F Waste, SW-846, USEPA, July 1992. Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test F Waste, SW-846, USEPA, July 1992. Method 8040, Phenols, Test Methods for Evaluating Solid Waste Regulatory Limits based on 40 CFR part 261 subpart C section QA/QC for samples E499 and E503.

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### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-22-99
Laboratory Number:	01-21-TBN - Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachiorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References:Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments:

tacy W Sendler Review

# ENV ROTECHICAL SOLUTIONS FOR A BETTER TOMORROW

### EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics - QUALITY ASSURANCE REPORT-

Client:	QAVQC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-22-99
Laboratory Number:	01-18-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-9 <del>9</del>
Condition:	Cool and Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery
		2-fluorobiphenyl	95%
References:	Method 1311, Toxicity	1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.	
	Method 3510, Separat	ory Funnel Liquid-Liquid Extraction, S	SW-846, USEPA, July 1992.
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C sec	ction 261.24, July 1, 1992.

Comments:

QA/QC for samples E499 and E503.

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#### PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics QA/QC Matrix Duplicate Report

			•
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-22-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-18-99
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

	Sample	Duplicate		Det.
Parameter	•		Percent	Limit
	(mg/L)	(mg/L)	Difference	(mg/L)
Pyridine	0.054	0.053	1.0%	0.020
Hexachloroethane	0.353	0.349	1.0%	0.020
Nitrobenzene	0.202	0.200	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2.4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Maximum Difference				
		8090 Compounds	30%				
References:	Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.						
	Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.						
	Method 8090, Nitroaro	matics and Cyclic Ketones, SW-846,	USEPA, Sept. 1986.				
Note:	Regulatory Limits base	ed on 40 CFR part 261 Subpart C sect	ion 261.24, July 1, 1992.				

Comments:

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# ENVIRO CCHP \_ BETTER TOMORROW

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:		QA/QC		Project #:			N/A
Sample ID: 01-23-TCM C		QA/QC Date Reported:				01-23-99	
Laboratory Number: E449			Date Sampled:			N/A	
Sample Matrix: TCLP Extract		র	Date Received:			N/A	
Analysis Requested: TCLP Metals		5	Date Analyzed:			01-23-99	
Condition: N/A		Date Extracted:		N/A			
Blank & Jucilicate	(netain@it	All the second		Sample			Acceptance
Conc. (mg/L) Arsenic	Blank ND	etanik ND	Lineli 0.0001	ND	ND	0.0%	Range 0% - 30%
Barium	ND	ND	0.001	1.53	1.53	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.0329	0.0324	1.5%	0% - 30%
Chromium	ND	ND	0.0001	0.0301	0.0300	0.3%	0% - 30%
Lead	ND	ND	0.0001	0.0309	0.0307	0.6%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Arsenic	0.1000	NĎ	0.0997	99.7%	80% - 120%
Barium	1.000	1.53	2.53	100.0%	80% - 120%
Cadmium	0.0500	0.0329	0.0826	99.6%	80% - 120%
Chromium	0.0500	0.0301	0.0802	100.1%	80% - 120%
Lead	0.1000	0.0309	0.131	99.8%	80% - 120%
Mercury	0.0250	ND	0.0248	99.2%	80% - 120%
Selenium	0.1000	ND	0.0998	99.8%	80% - 120%
Silver	0.0500	ND	0.0499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

**References:** 

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

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Stacy W Sendler Review

# CHAIN OF CUSTODY RECORD

Client / Project Name			Project Location EAST P FARMIN	nains JGTON	)					A	NALYS	IS / PAR/	AMETEI	RS		I		
Sampler:			Client No.				Ŕ	\$ 3						ļ	Remarka	;		
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1		gample Time	Lab Number		Sample Matrix		No. of Containers	TCLP W/0 H										-
Whow Bay Socords	1/13/9	12:10	E499	50	iL		1							I	·			
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Relinquished by: (Signature	)					Receiv	ed by:	(Signatu	nte)									
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					5796 U.S ington, <b>I</b>				1				Rec	ceived Intact		Ĺ		
· · · · · · · · · · · · · · · · · · ·						632-0							Cool	- Ice/Blue Ic	• 🗸	T		

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Matrict I = (505) 393-6161       New Mexico         O. Box 1980       Energy Minerals and Natural Resource         Obbs: NM 88241-1980       Energy Minerals and Natural Resource         Matrict II - (505) 748-1283       Oil Conservation Division         11 S. First       2040 South Pacheco Street         resia, NM 88210       Santa Fe, New Mexico 87505         ' utict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	on Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:         Non-Exempt:         0 ouny foust           1. RCRA Exempt:         8 14.99           15:35	4. Generator E.P.F.S.
Verbal Approval Received: Yes No Devinotech Soil Remedia.	5. Originating Site Autol Poulo
2. Management Facility Destination Facility Landfarm #2	6. Transporter Essuivotech
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Weyou co
7. Location of Material (Street Address or ULSTR)	NE4 NE4 Sec 8, TZ7N R IDW SJC
PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL: Class up of Soil & gravel contomina Fluids	d for transport.
DEGE N SEP	当[[VED] - 2 1999
OIL CO DI	DN. DIV. St. 3
Estimated Volume cy Known Volume (to be entered by the op	perator at the end of the haul) $\frac{12}{2}$ cy
SIGNATURE: How Brown TITLE: Landfarm Management FacilityAuthorized Agent TYPE OR PRINT NAME: Harlan M. Brown TEL	Manager DATE: <u> </u>
(This space for State Use) APPROVED BY: Demy Dr. Part TITLE: Geola APPROVED BY: State TITLE:	DATE:

## **CERTIFICATE OF WASTE STATUS**

. t- •

<ol> <li>Destination Name:</li> <li>Envirotech Soil Remediation Facility Landfarm #2</li> </ol>
Hilltop, New Mexico
Location of Waste(Street address &/or ULSTR):
NE/4 of NE/4 of Sec. 8, T27N, R10W, San Juan Co., NM
carbons from pigging operations
· · · · · · · · · · · · · · · · · · ·
representative for:
Co do hereby certify that,
very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
I-EXEMPT oilfield waste which is non-hazardous by racteristic analysis or by product identification
non-hazardous waste defined above.
nentation is attached (check appropriate items):
alysis Other (description)
il Ban
nvironmental Scientist
1999

O. Box 1980         Energy Minerals and N           Jobbs, NM 88241-1980         Energy Minerals and N           Harrier II - (505) 748-1283         Oil Conse           11 S. First         2040 So           rtesia, NM 88210         2040 So           "trict III - (505) 334-6178         Santa Fe,	ervation Division uth Pacheco Street New Mexico 87505 05) 827-7131	-	ment : <u>921</u>	Or	orm C-138 iginated 8/8/95 Submit Original Plus 1 Copy to appropriate District Office
REQUEST FOR APPRO	VAL TO ACCEPT SC			stern Gu	
1. RCRA Exempt: 🔀 Non-Exempt: 🛄	5.12.99	4. Gene		Regour SAN Ju	res
		5. Orig	inating Site		Plant
2. Management Facility Destination Facility I	oil Remedia. Landfarm #2	6. Tran	sporter Ha	scoreda	<u>⊷</u> .
3. Address of Facility Operator 5796 US Highv Farmington, N		8. State	ا نسمام ه	Hopi co	
7. Location of Material (Street Address or ULSTR)	9	9 Re	6500		
All transporters must certify the wastes delivered are BRIEF DESCRIPTION OF MATERIAL: P <sup>8</sup> 93 <sup>6</sup> mg liber wooder; Hormis attached	only those consigned for	transpor	<b>t.</b>		
Estimated Volume Cy Known Volume (te	be entered by the operate	or at the e	nd of the ha	iul)_ <u>19</u>	су
SIGNATURE: Harlon Bromo	TITLE: Landfarm Mana	iger	DA	TE: 8.12	. ? ?
Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME:Harlan M. Brown	TELEP		<b>5</b> 505-63	32-0615	
(This space for State Use) APPROVED BY: Demy G. Ken	TITLE: <u>Feolog</u>	57	DA	TE: <u>8/3</u>	+/97

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DATE:

TITLE:

Kinch

APPROVED BY:\_\_

Date: 8-12-99

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1. Generator Name and Address:	2. Destination Name:
Western Gas Resources	
P.O. Box 70	Envirotech Soil Remediation Facility
	Landfarm #2
Kirtland, N.M. 87417	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
San Juan River Plant	•
99 Rd 6500	
Kintland NM. 87417 Attach list of originating sites as appropriate	
Waste sludge From pipe	ling plaging operations
Dry and clay like mate	ind
Ury and clay like male	1/4'
TPL	
1, Tim Bates (Print Name)	representative for:
(Print Name) Western Gas Resources	do hereby certify that,
according to the Resource Conservation and Recover	y Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	
	IPT oilfield waste which is non-hazardous by characteristic
analysis or	by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum	
MSDS Information RCRA Hazardous Waste Analysis	Other (description):
Chain of Custody	
~ /	د است. به ان بر بین ۲۸۸۸ این استان بر این استان بر بر بر بر با ۲۹ رو بر بر بین با ۲۰ رو بر بر از ۲۰ و می می اس 
1. D.K.	
Name (Original Signature): Batas	
Title: <u>Field Supervisor</u>	

JUN 23 '98 09:35 FR WESTERN GAS FNG

393 450 6969 TO SAN WAN Soil with 430 pC. is considered using by NMED

K. M'Evers T. Bates

Anderen

N RADIATION SERVICES, INC.

1726 Wooddale Court • Baton Rouge, Louisiana 70806 1 (800) 401-4277 • Fax (504) 927-6822

1 (800)

ARS Tracking Number: ARS-97-0924 P.O. Number: 215618 Client I.D.: GO2354 ARS Sample I.D.: ARS-97-3412 Date Sampled: N/A Date Received: 10/10/97 Time Sampled: N/A Time Received 0945 Type of Sample: Solid Date of Report 10/16/97

Analysis Description	Analysis Result	Analysis Error ±20	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Ra-226	0.82	0.27	0.11	pCi/g	EPA 901.1M	10/13/97 1149	SB
Ra-228	0.03	0.02	0.01	pCi/g	EPA 901.1M	10/13/97 1149	SB
Pb 210	15.33	0.71	0.17	pCi/g	EPA 901.1M	10/13/97 1149	SB
Total Activity	16.86	N/A	N/A	pCi/g	EPA 901.1M	10/13/97 1149	SB

Quality Assurance Review

Post-It™ brand fax transmittal	memo 7671 # of pages >
To Harlan Brown	From Tim Bates
Co.	Co.
Dept.	Phone #
Fax #	Fax #

Notes: American Radiation Services, Inclassumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analyzis itself. Reproduction of this report in less than full requires the written consent of the client.

District I - (505) 393-6161 P. O. Box 1980 Hobba, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 C. trict III - (505) 334-6178 New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 8750 (505) 827-7131	on RECEIVED Submit Original
REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🔀	4. Generator Coasta)
Verbal Approval Received: Yes No	5. Originating Site CR 4579 Say Juan, County
2. Management Facility Destination Envirotech	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Hiny #64 Ferring for NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Mile Marker #2	
9. <u>Circle One</u> : Juano County	
	on of origin. No waste classified hazardous by ed for transport. Con $HDAX LA30$
JUL 3 0 1969	0 El Mar 3000-30
OF CON. DIV.	17 ED 5 1999
OIL COR	-
Estimated Volume ————— cy Known Volume (to be entered by the o	
Waste Management FacilityAuthorized Agent	Ast. DATE: 7/29/99 LEPHONE NO. 50.5-632-0615
(This space for State Use) APPROVED BY: 1 Sent TITLE: (-eo/ APPROVED BY: Marting Rich- TITLE: Environ	0913 DATE: 7/30/99 mentul Gerbyit DATE: 8-3-99

District I - (505) 393-6161 P. Q. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Citrict III - (505) 334-6178 NRio Brazos Road Citrict IV - (505) 827-7131 District IV - (505) 827-7131 New Mexico Oil Conservation Divis 2040 South Pacheco Stree Santa Fe, New Mexico 875 (505) 827-7131	sion Submit Original
REQUEST FOR APPROVAL TO ACCE	PT SOLID WASTE
1. RCRA Exempt: 🛄 Non-Exempt: 🖄	4. Generator Coasta)
Verbal Approval Received: Yes 🛄 No 🛄	5. Originating Site CR 4599 Say Juan, County
2. Management Facility Destination Envirotech Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Hury #64 Fourmington, NM 87401	
7. Location of Material (Street Address or ULSTR) CIR 4599 San	- ,
9. <u>Circle One</u> : Juano County	
Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be a PROVE the material is not-hazardous and the Generator's certifica listing or testing will be approved. All transporters must certify the wastes delivered are only those consig BRIEF DESCRIPTION OF MATERIAL:	ation of origin. No waste classified hazardous by ned for transport.
New Motor Cil mixture of Chev Conoc	Ceo ISW40
RECEIVED Cond	CO GEO 15W40 CO El Mar. 3000-30
OML GON. DIV. DIST. 3	
Estimated Volume cy Known Volume (to be entered by the	operator at the end of the haul) cy
SIGNATURE: CROROL BOOML TITLE: Adm.	Asst. DATE: 7/29/99
	ELEPHONE NO. 50.5-632-0615
(This space for State Use) APPROVED BY: Sent TITLE: G-CO APPROVED BY: TITLE:	<u>DATE:</u> DATE: 7/30/99 DATE:

7/29/99- 10: 10 AM Verbal approval Denny Foust- OCD

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# **CERTIFICATE OF WASTE STATUS**

1. Generator Name and Address:	2. Destination Name:
Coastal Chemical #10 County Road 5911	Envirotech Soil Remediation Facility Landfarm #2
Farmington, NM \$7401 3. Originating Site (name):	Hilltop, New Mexico Location of the Waste (Street address &/or ULSTR):
	of Nighway 64@ Blanco NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste 159 Salo New Motor Oil - Cheu	no co GeO 15W40 spill Sonoco Elmar 3000-30
13203000	no co Geo 15W40 / Sould P
la gal	
	onoco 21 mar 3000-30
1. Bon Boatward	representative for:
<u>according to the Resource Conservation and Recover</u> 1988, regulatory determination, the above described	do hereby certify that, ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
EXEMPT oilfield waste X NON-EXEM analysis or	APT oilfield waste which is non-hazardous by characteristic by product identification
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	nentation is attached (check appropriate items): Other (description):
Name (Original Signature): Box Boatur	ing 4
Title: Material Handling Ma	nager

Date: 7/29/99



MOTCO082

Revised 6-DEC-1997

Printed 9-DEC-1997

## HYDROCLEAR EL MAR Low Ash Supreme Engine Oil

"HYDROCLEAR" is	a trademark of Conoco.	
Grade	SAE 30, 40, 15W-40	
Product Use Natural Gas Eng	ine Oil	
Tradenames and Sy 47513, 47514, 4	nonyms 7515 - Conoco Base Codes	
Company Identific MANUFACTURER/DI	<b>ation</b> STRIBUTOR Conoco, Inc.	·#/
	P.O. Box 2197 Houston, TX 77252	

## COMPOSITION/INFORMATION ON INGREDIENTS

Components Material	CAS Number %	
Highly refined base oils	>75	
Proprietary additives	<25	

If oil mist is generated, exposure limits apply.

## HAZARDS IDENTIFICATION

## Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

"USED" Motor Oil -There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

#### Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

#### FIRST AID MEASURES

#### First Aid INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

## INGESTION

Material poses an aspiration hazard. If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

(Continued)

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## FIRST AID MEASURES(Continued)

#### Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

## FIRE FIGHTING MEASURES

## Flammable Properties

Flash Point	470 F	(243	C)	Method:	000	(Grade	30)
	510 F	(266	C)	Method:	COC	(Grade	40)
	420 F	(216	C)	Method:	COC	(Grade	15W-40)

Flash point(s) given above are typical values.

Autoignition		Undetermined
Flammable limit	s in Air,	% by Volume
LEL	•	Undetermined
UEL		Undetermined
		and the second statement of th

NFPA Classification Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

## ACCIDENTAL RELEASE MEASURES

#### Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, and flame.

#### Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

## HANDLING AND STORAGE

#### Handling (Personnel)

Avoid breathing mist. Avoid contact with eyes. Avoid prolonged contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

#### Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

## Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

#### EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls VENTILATION Normal shop ventilation.

Personal Protective Equipment RESPIRATORY PROTECTION

None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

PROTECTIVE GLOVES Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

EYE PROTECTION Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT Coveralls with long sleeves if splashing is probable.

OTHER PRECAUTIONS Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

#### # Exposure Guidelines

Applicable Exposure Limits

If oil	l mist ïs	generated,	exposure limits apply.	,
PEL	(OSHA)	•	5 mg/m3, 8 Hr. TWA	
TLV	(ACGIH)		5 mg/m3, 8 Hr. TWA, S	STEL 10 mg/m3
	(1.0 = = )		Notice of Intended Ch	

(Continued)

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#### EXPOSURE CONTROLS/PERSONAL PROTECTION(Continued)

AEL \* (DuPont)

5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors) 5 mg/m3, 8 Hr. TWA

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

## PHYSICAL AND CHEMICAL PROPERTIES

#### Physical Data

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Boiling Point Vapor Pressure Vapor Density % Volatiles Evaporation Rate Solubility in Water pH Odor Form Color Specific Gravity Density Not Available Nil >1 (Air=1.0) Nil Insoluble Undetermined Petroleum Hydrocarbon (mild). Liquid. Brown (light). 0.87-0.88 @ 60 F (16 C) 7.26-7.33 lb/gal @ 60 F (16 C)

#### STABILITY AND REACTIVITY

Chemical Stability Stable

Conditions to Avoid Heat, sparks, and flames.

Incompatibility with Other Materials Incompatible or can react with oxidizers.

#### Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

#### Polymerization

Polymerization will not occur.

## TOXICOLOGICAL INFORMATION

#### Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

## TOXICOLOGICAL INFORMATION(Continued)

Following information based on components or similar material.

ACUTE TOXICITY: Oral Toxicity: LD50 >5000 mg/kg (rats) Dermal Toxicity: LD50 >2000 mg/kg (rabbits) Eye Irritation: Not expected to be an eye irritant. Inhalation: Mists or vapors may cause irritation.

## ECOLOGICAL INFORMATION

Ecotoxicological Information No specific aquatic data available for this product.

## **DISPOSAL CONSIDERATIONS**

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

#### Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

## TRANSPORTATION INFORMATION

Shipping Information DOT Not regulated.

ICAO/IMO Not restricted.

## REGULATORY INFORMATION

U.S. Federal Regulations OSHA HAZARD DETERMINATION Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND Not applicable; this material is covered by the CERCLA petroleum exclusion.

## **REGULATORY INFORMATION**(Continued)

SARA, TITLE III, 302/304 Extremely Hazardous Substance: None

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute: NoChronic: NoFire: NoReactivity: NoPressure: No

SARA, TITLE III, 313 Toxic Chemical: None

TSCA

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

#### RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient Reportable Quantity Petroleum Hydrocarbons. Film or sheen upon or discoloration of any water surface.

## State Regulations (U.S.) CALIFORNIA "PROP 65"

The material contains ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

Ingredient	Benzene (CAS # 71-43-2) <0.01%
Ingredient	Acetaldehyde (CAS # 75-07-0) <0.01%
Ingredient	Cadmium <0.01%
Ingredient	Arsenic <0.01%
Ingredient	1,3-Butadiene (CAS # 106-99-0) <0.01%
Ingredient	Lead <0.01%
<b>~</b>	

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT Ingredients subject to Act - None

## REGULATORY INFORMATION(Continued)

## **Canadian Regulations**

. . . .

This is not a WHMIS Controlled Product.

Transport/Medical Emergency Phone Number: 1-613-348-3616

This material contains an ingredient which is being notified and tracked by its manufacturer. Export into Canada may only occur when the active exporting party participates in the tracking procedure.

## OTHER INFORMATION

NFPA, NPCA-HMIS				
NFPA Rating				
Health	0			
Flammability	1			
Reactivity	0			
NPCA-HMIS Rating				
Health	1			
Flammability	1			
Reactivity	0			
Personal Protection	rating to be	supplied by	user depending	on use
conditions.				

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility	for M	ISDS :	MSDS Coordinator
Address		:	Conoco Inc.
>		:	PO Box 2197
>		:	Houston, TX 77252
Telephone		:	1-281-293-5550

# Indicates updated section.

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End of MSDS

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# **Material Safety Data Sheet**

Page 1 of 7

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## CHEVRON Gas Engine Oil HDAX Low Ash SAE 30

PRODUCT NUMBER(S): CPS232327 CPS238118

#### COMPANY IDENTIFICATION

EMERGENCY TELEPHONE NUMBERS

Chevron USA Products Company Environmental, Safety, and Health Room 2900 575 Market St. San Francisco, CA 94105-2856 HEALTH (24 hr): (800)231-0623 or (510)231-0623 (International) TRANSPORTATION (24 hr): CHEMTREC (800)424-9300 or (202)483-7616

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500 Environmental, Safety, & Health Info: (415) 894-1899 Product Information: (800) 582-3835

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON Gas Engine Oil HDAX Low Ash SAE 30

#### CONTAINING

COMPONENTS	AMOUNT	limit/qty	AGENCY/TYPE
HYDROTREATED DIST., HVY PA	RA		
Chemical Name: DISTILLATES	, HYDROTREATED	HEAVY PARAFFINIC	
CAS64742547	90.0%	5 mg/m3 (mist)	ACGIH TWA
	•	10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	osha pel
ADDITIVES INCLUDING THE	FOLLOWING		
ZINC ALKARYL DITHIOPHOSPHA			
Chemical Name: ZINC ALKARY	l dithiophosph	ATE	
CAS54261675	< 1.5%		
Revision Number: 5	Revision Date:	01/11/95 MSD	S Number: 004210
NDA - No Data	Available	NA - Not Applicab	le

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSD8 Standard (2400.1) by the Toxicology and Health Risk Assessment Unit. CRTC, P.O. Box 4054, Richmond, CA 94804 COMPOSITION COMMENT:

All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

TLV - Threshold Limit ValueTWA - Time Weighted AverageSTEL - Short-term Exposure LimitTPQ - Threshold Planning QuantityRQ - Reportable QuantityPEL - Permissible Exposure LimitC - Ceiling LimitCAS - Chemical Abstract Service NumberAl-5 - Appendix A Categories() - Change Has Been Proposed

## 3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS EYE: This substance is not expected to cause prolonged or significant eye irritation. SKIN: This substance is not expected to cause prolonged or significant skin irritation. The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. INGESTION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed. INHALATION: The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled. Prolonged or repeated breathing of petroleum oil mist can cause respiratory irritation. SIGNS AND SYMPTOMS OF EXPOSURE: INHALATION: Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

## 4. FIRST AID MEASURES

EYE: No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn. SKIN: No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing. INGESTION: If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical

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Page 3 of 7

advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital. INHALATION: If respliatory discomfort or irritation occurs, move the person to fresh

## 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: (COC) 410F (210C) Min. AUTOIGNITION: NDA FLAMMABILITY LIMITS (\$ by volume in air): Lower: NA Upper: NA EXTINGUISHING MEDIA: CO2, Dry Chemical, Foam, Water Fog NFPA RATINGS: Health 1; Flammability 1; Reactivity 0. FIRE FIGHTING INSTRUCTIONS: For fires involving this material, do not enter any enclosed or confined

air. See a doctor if discomfort or irritation continues.

fire space without proper protective equipment, including self-contained breathing apparatus. COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides

of sulfur, nitrogen and phosphorous.

## 6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616 ACCIDENTAL RELEASE MEASURES: Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil. surface water or groundwater. Clean up small spills using appropriate

techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

## 7. HANDLING AND STORAGE

HANDLING AND STORAGE:

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or drum may rupture with explosive force. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT EYE/FACE PROTECTION:

CHEVRON Gas Engine Oil HDAX Low Ash SAE 30

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Page 4 of 7

No special eye protectio. S usually necessary. SKIN PROTECTION: No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing. RESPIRATORY PROTECTION: No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required. ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION; Dark amber liquid. pH: NDA VAPOR PRESSURE: NA VAPOR DENSITY (AIR=1):NA BOILING POINT: NA FREEZING POINT: NDA MELTING POINT: NA Soluble in hydrocarbon solvents; insoluble in water. SOLUBILITY: SPECIFIC GRAVITY: 0.88 @ 15.6/15.6C EVAPORATION RATE: NA 11.0 cSt @ 100C (Min.) VISCOSITY: PERCENT VOLATILE (VOL): NA

## **10. STABILITY AND REACTIVITY**

HAZARDOUS DECOMPOSITION PRODUCTS: NDA CHEMICAL STABILITY: Stable. CONDITIONS TO AVOID: No data available. INCOMPATIBILITY WITH OTHER MATERIALS: May react with strong oxidizing agents. such as chlorates, nitrates, peroxides, etc. HAZARDOUS POLYMERIZATION: Polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

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EVE EFFECTS: No product toxicology data available. The hazard evaluation was based on data on the components. SKIN EFFECTS: No product toxicology data available. The hazard evaluation was based on data on the components. ACUTE ORAL EFFECTS: No product toxicology data available. The hazard evaluation was based on data on the components. ACUTE INHALATION EFFECTS: No product toxicology data available. The hazard evaluation was based on data on the components. ADDITIONAL TOXICOLOGY INFORMATION: This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

This product contains zinc alkaryl dithiophosphate which is similar in toxicity to zinc alkyl dithiophosphate (2DDP). Several (2DDPs) have been reported to have weak mutagenic activity in cultured mammalian cells but only at concentrations that were toxic to the test cells. We do not believe that there is any mutagenic risk to workers exposed to 2DDPs.

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. See Chevron Material Safety Data Sheet No. 1793 for additional information on used motor oil.

## 12. ECOLOGICAL INFORMATION

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**ECOTOXICITY:** No data available. **ENVIRONMENTAL FATE:** This material is not expected to present any environmental problems other than those associated with oil spills.

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: Oil collection services and collection centers are available for used

motor oil recycling or disposal. Some service stations, automotive service centers, and retailers provide motor oil collection facilities.

Place contaminated materials in containers and dispose of in a manner Consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

## 14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE FEDERAL DOT DOT HAZARD CLASS: NOT APPLICABLE DOT IDENTIFICATION NUMBER: NOT APPLICABLE DOT PACKING GROUP: NOT APPLICABLE

#### 15. REGULATORY INFORMATION

SARA 311 CATEGORIES:	<ol> <li>Immediate (Acute) Here</li> <li>Delayed (Chronic) Here</li> <li>Fire Hazard:</li> <li>Sudden Release of Prof.</li> <li>Reactivity Hazard:</li> </ol>	alth Effects: NO NO
REGULATORY LISTS SEARCHE	D:	
03=NTP Carcinogen 04=CA Prop 65-Carcin 05=CA Prop 65-Repro Tox 06=IARC Group 1 07=IARC Group 2A 08=IARC Group 2B 09=SARA 302/304 10=PA RTK The following components	12=CERCLA 302.4 13=MN RTK 14=ACGIH TWA 15=ACGIH STEL 16=ACGIH Calc TLV	28=Canadian WHMIS 29=OSHA CEILING 30=Chevron STEL
lists indicated. ZINC ALKARYL DITHIOPHOSE is found on lists: 03 DISTILLATES, HYDROTREATE is found on lists: 14	1,11, Ed heavy paraffinic	

## 16. OTHER INFORMATION

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NFPA RATINGS: Health 1; Flammability 1; Reactivity 0; (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

**REVISION STATEMENT:** Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

## 

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Proprietary additives <15		
If uil mist is generated, exposure limits apply Ø8: 47 JAN 16, 1998	TEL NO: (713) 293-1440	#111144 PAGE:
conoco,		
CHEMICAL PRODUCT/COMPANY IDENTIFICATION	Post-it <sup>2</sup> Fax Note 7671 Date	pages -
HYDROCLEAR EL MAR GEO MOTC0086 Revised 6-DEC-1997	Condenia Co. Phone # Abberlilla Phone Fax # Fax	377-9280
Material Identification		
"EL MAR" is a regislered trademark of Conoco.		
"HYDROCLEAR" is a trademark of Conoco.		
Grade : SAE 15W-40, 30/40		
Product Use		
Natural Gas Engine Oil		
Tradenames and Synonyms		
47511, 47512 - Conoco Base Codes		
Company Identification		
MANUFACTURER/DISTRIBUTOR Conoco, Inc. P.O. Box 2197 Houston, TX 77252		
PHONE NUMBERS Product Information : 1-281-293-5550 Transport Emergency : CHEMTREC 1-800-424-9300 Medical Emergency : 1-800-441-3637		
COMPOSITION/INFORMATION ON INGREDIENTS		

Components

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## EYE CONTACT

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In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

## INGESTION

Material poses an aspiration hazard. If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

## Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

## **RE FIGHTING MEASURES**

## Flammable Properties

Flash Point : 445 F (229 C) Method: COC (grade 15W-40) 525 F (274 C) Method: COC (grade 30/40)

Flash point(s) given above are typical values.

Autoignition: UndeterminedFlammable limits in Air, % by VolumeLEL: UndeterminedUEL: Undetermined

NFPA Classification : Class IIIB Combuslible Liquid.

## **Extinguishing Media**

Water Spray, Foam, Dry Chemical, CO2.

## Fire Fighting Instructions

flush spills away from exposures.

\*Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNE sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, and flame.

## Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grand, or drill on or noar full or errupty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire ection Association
 recommendations. Store in a cool, dry race. Store in a well
 ventilated place. Store away from oxidizers, heat, sparks and tlames.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** 

VENTILATION Normal shop ventilation

**Personal Protective Equipment** 

## **RESPIRATORY PROTECTION**

None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

## **PROTECTIVE GLOVES**

Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

## EYE PROTECTION

Safety glasses with side shields.

## OTHER PROTECTIVE EQUIPMENT

Coveralls with long sleeves if splashing is probable.

#### OTHER PRECAUTIONS

Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

#### # Exposure Guidelines

 Applicable Exposure Limits

 If oil mist is generated, exposure limits apply.

 PEL (OSHA)
 : 5 mg/m3, 8 Hr. TWA

 TLV (ACGIH)
 : 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3

 Notice of Intended Changes (1997)

 5 mg/m3, 8 Hr. TWA, (As sampled by

AEL \* (DuPont) 5 mg/m3, 8 Hr 4

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

## PHYSICAL AND CHEMICAL PROPERTIES

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## **Physical Data**

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<b>Boiling Point</b>	: Not Available
Vapor Pressure	: Nil
Vapor Density	: >1 (Air=1.0)
% Volaliles	: Nil
Evaporation Rate	e : Nil
Solubility in Wate	er : Insoluble
Odor	; Petroleum Hydrocarbon (mild).
Form	: Liquid.
Color	: Brown (light).
Specific Gravity	: 0.86 @ 60 F (16 C)
Densily	: 7.21-7.28 Ib/gal @ 60 F (16 C)

## STABILITY AND REACTIVITY

ب « فه وهم ز» به « ۴ » بارند و را ۵ ترن ا جول عله زندگر بزرگ عنام هفت آن مسید. ان سید می مسیحه می مسیحه رسد

## **Chemical Stability**

Stable.

## **Conditions to Avoid**

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

## Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

## Polymerization

- - orgeneencontent mit stor occos,

## TOXICOLOGICAL INFORMATION

## Animal Data

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Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

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## "USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

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Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

#### **Container Disposal**

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

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## KANSPORTATION INFORMATION

Shipping Information

DOT Not regulated.

CAO/IMO Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

**OSHA HAZARD DETERMINATION** 

Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304 Extremely Hazardous Substance: None

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

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Acute : No Chronic : No Fire : No Reactivity : No Pressure : No

SARA, TITLE III, 313 Toxic Chemical: None

TSCA

Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

## RCRA

This material has been evaluated for RCRA characteristics and does ...ut meet hazardous waste criteria if discarded in its purchased orm. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria. The material contains the following in t

Ingredient : Petroleum Hydrocarbons. Reportable Quantity : Film or sheen upon or discoloration of any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65" Ingredients subject to Act - None

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT Ingredients subject to Act - None

**Canadian Regulations** 

This is not a WHMIS Controlled Product.

Transport/Medical Emergency Phone Number: 1-613-348-3616

OTHER INFORMATION

والإلام مربعه مسرد مسرد منار والمراجعات وراك كالأخراج والشور والمتري والمراجع والمراجع والمراجع والمراجع والمراجع

NFPA, NPCA-HMIS

NFPA Rating	
Health	:0
Flammability	: 1
Reactivity	: 0

NPCA-HMIS Rating		
Health	:1	
Flammability	: 1	
Reactivity	: 0	

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Muterial Safety Data Street rotates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. 
 >
 PO Box 2197

 >
 : Houston, TX 77252

 Telephone
 : 1-281-293-5550

# Indicates updated section.

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End of MSDS

District I 4(505) 393-6161 P. O. Box 1980 Hobby: NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Platrict III - (505) 334-6178 Nio Brazos Road Artes, NM 87410 District IV - (505) 827-7131 New Mexico Oil Conservation Divisio 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131	n Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt:         Mon-Exempt:         Down of Found to the second t	Naloco - 4. Generator
Verbal Approval Received: Yes X No	5. Originating Site Barson & Montain
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter & PLus wells
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State along Venezziao
7. Location of Material (Street Address or ULSTR)	"K" Soc 35, TZAN, & IZW.
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordent of the construction of the constructi</li></ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by I for transport.
SIGNATURE: Handfarm M Waste Management FacilityAuthorized Agent Handan M Brown	erator at the end of the haul)        cy         lanager       DATE: 7.23.99         EPHONE NO.       505-632-0615
(This space for State Use) APPROVED BY: Denny B. Tenny TITLE: Ged ( APPROVED BY: S. Buch TITLE:	DATE: 7/26/99 DATE: 8/5/9

Dun + Forst Uarbal 7.21.99 16:15

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1. Generator Name and Address:	2. Destination Name:
nmoch	2. Desunation Name:
	Envirotech Soil Remediation Facility
1000 Rio BRAZOS Rd	Landfarm #2
AZTEC 87410 3. Originating Site (name):	<u>Hilltop, New Mexico</u>
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
GAllegos CANYON UNIT #2	K-35-2914-12W
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
	· · · · · · · · · · · · · · · · · · ·
DR. Ming Fluid Generated from P	Ingging And Abondment Olelations
Low H20 Loss Bentonite mud	
Low House Bentonite Mud	
· · ·	
	<u></u>
CHADIE T PODD.	
$I_{i} = (\underline{P'''_{i}}) (\underline{P''''_{i}}) (\underline{P''''_{i}}) (\underline{P''''_{i}}) (\underline{P''''_{i}}) (\underline{P'''''_{i}}) (\underline{P'''''_{i}}) (\underline{P'''''_{i}}) (\underline{P'''''_{i}}) (\underline{P'''''''_{i}}) (P''''''''''''''''''''''''''''''''''''$	representative for:
I, <u>CHARIE T PERRIE</u> (Print Name) (Print Name)	do hereby certify that,
according to the Resource Conservation and Rec	covery Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above descri	
EXEMPT oilfield waste NON-I	
	EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification
anarys	as or by product identification
and that nothing has been added to the exempt of	or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following de	ocumentation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analys	is
Chain of Custody	
	2
Name (Original Signature): harly	
P.I. P. D. H	
Title: <u>Jield Kep </u>	
7	
Date: 7-22-99	

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 P'-trict III - (505) 334-6178 New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 District IV - (505) 827-7131	on Submit Original	
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE	
1. RCRA Exempt: 🔀 Non-Exempt: 🛄	4. Generator Halliburkon	
Verbal Approval Received: Yes 🛄 No 🛄	5. Originating Site Wallack SITE	
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Easuirstech.	
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Now be opico	
7. Location of Material (Street Address or ULSTR)	2600 Bloanfield HWT Farming ton Dus Respice	
9. <u>Circle One</u> :		
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport. BRIEF DESCRIPTION OF MATERIAL: Menceder Well Purge waler. DECENVED JNL - 8 1999 OUL COMP. DUNT Have led to Key Displayed Estimated Volume <u>6 bbl.</u> cy Known Volume (to be entered by the operator at the end of the haul) - cy		
SIGNATURE: Harlan M. Brown TITLE: Landfarm M. Brown	Manager       DATE: 7.6.99         .EPHONE NO.       505-632-0615	
(This space for State Use) APPROVED BY: Denmark, Round TITLE: CEO/C APPROVED BY: Denemark TITLE:	0 <u>9(3</u> DATE: <u>7/12/79</u> DATE: <u></u>	

1

1. Generator Name and Address: Halliburton	2. Destination Name:
4100 Clinton Drive	Envirotech Soil Remediation Facility
Houston, TX 77001-0093	Lendfarm #2 Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Former Wellex Facility	2600 Bloomfield Highway Farmington, NM
Attach list of originating sites as appropriate	0
4. Source and Description of Waste	
Monitor well purge wate	.r ·
ł	
, Marty Cox	representative for:
(Print Name) Hall, burton	do hereby cartify that,
1988, regulatory determination, the above describe $$ EXEMPT official waste $-$ NON-EX	very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT cilifield weste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or r	non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following doc MSDS information RCRA Hezardous Waste Analysis Chain of Custody	umentation is attached (check appropriate items): Other (description):
	casent for Hallilunton

Name (Original Signature): _	marty	Cox	cgent	for mutation
Title: <u>Geologist</u>	0		· · · · · · · · · · · · · · · · · · ·	
Date: ly le 19	79			-

District I - (505) 393-6161       New Mexico         P. O. Box 1980       Energy Minerals and Natural Resource         Hobbs, NM 88241-1980       Energy Minerals and Natural Resource         District II - (505) 748-1283       Oil Conservation Divisio         811 S. First       2040 South Pacheco Street         Artesia, NM 88210       2040 South Pacheco Street         D'-trict III - (505) 334-6178       Santa Fe, New Mexico 87505         Nio Brazos Road       (505) 827-7131	Submit Original
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: Duny Fourth 7.1.99 5:00 And	4. Generator PESCO
Verbal Approval Received: Yes 🔽 No 🔲	5. Originating Site Hain rend
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Eduirs Lach
<b>3. Address of Facility Operator</b> 5796 US Highway 64 Farmington, NM 87401	8. State Dund Mapico
7. Location of Material (Street Address or ULSTR)	5680 Harry 64 Formandon Due 87401
9. <u>Circle One</u> :	
<ul> <li>A. All requests for approval to accept oilfield exempt wastes will be accordent to accept one certificate per job.</li> <li>B. All requests for approval to accept non-exempt wastes must be accordent proved the material is not-hazardous and the Generator's certification listing or testing will be approved.</li> <li>All transporters must certify the wastes delivered are only those consigned.</li> <li>BRIEF DESCRIPTION OF MATERIAL:</li> <li>Socies generated from cleaning to a construct the second to accept from the second to accept the second to accept and the second to accept the sec</li></ul>	ompanied by necessary chemical analysis to n of origin. No waste classified hazardous by
Estimated Volume	erator at the end of the haul)
SIGNATURE: <u>Harlan M. Brown</u> TITLE: Landfarm M. Brown TEL	Ianager     DATE:     ア・し・そう       EPHONE NO.     505-632-0615
(This space for State Use) APPROVED BY: Demp Jown TITLE: GOO TO APPROVED BY: June TITLE:	<u>9137</u> DATE: <u>7/1/99</u> DATE:

## Jn: 92142

1. Generator Name and Address:	2. Destination Name:
PESCO 5680 Highway 64	Envirotech Soil Remediation Facility
Farmington, New Mexico 87401	Landfarm #2
Tarmingcon, new nexico 0/401	Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Process Equipment & Service Company	Mainyard, stored in 55 gallon drums
5680 US Highway 64	& 18 Cubic Foot Steel Boxes.
Farmington, New Mexico 87401	
Attech list of originating sites as appropriate	
4. Source and Description of Waste	· · · · · · · · · · · · · · · · · · ·
	efurbishing production storage tanks,
separators, dehydrators, and other p	
-	
Come Horse	representative for:
Gary Howe (Print Name)	
Process Equipment and Service Company	y, Inc. do hereby certify that,
according to the Resource Conservation and Recover	ary Act (RCRA) and Environmental Protection Agency's July,
According to the Resource Conservation and Recover 1988, regulatory determination, the above described K EXEMPT oilfield waste NON-EXE	ary Act (RCRA) and Environmental Protection Agency's July,
According to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste NON-EXE analysis o	waste is: (Check appropriate classification) WPT oilfield waste which is non-hazardous by characteristic r by product identification
According to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste NON-EXE analysis o and that nothing has been added to the exempt or no	Ary Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
According to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste	Ary Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): Other (description):
According to the Resource Conservation and Recover 988, regulatory determination, the above described EXEMPT oilfield waste	Ary Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. 
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Process Equipment & Service Company, Inc.

5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 • 87499 FARMINGTON, NEW MEXICO PHONE: (505) 327-2222 • FAX: (505) 327-7550

## NORM SURVEY DATA SHEET

Facility / location: PESCO YAR	d Date: 7-1-99
Meter Model: DOSIMETER 3007A Serial N	No: 9808-238
Detector Model: DOSIMETER 3012 Serial N	No: 201-887-7100
Calibration Date: 4-5-99	
Battery Check: (X)	
Background Radiation Level: <u>IS</u> CPM <u>0.025</u> mR	/hr 0.00025 R/hr
Description of material surveyed:	
Waste Material: <u>9 ContAiners</u> Equipment: Manufacturer:	rial Surveyed: CPM: 17 mR/hr: 0.0088 R/hr: 0.000038
Serial No: Description: Scale + Sludge Job No:	
Comments: 9 - 3' x 3' x 18" C	
Survey Conducted by: $Gazy W How \epsilon$ (Print Name)	
Mandel Howe	

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(Signature)