NM1-11

C-138

Date: 1998

Roger Anderson

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Williams Field Servic
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site San Juan 29-6 #4
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter W.F.S.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NE4 Sec30, T29N, R6W.

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:

Sludge From a reboiler refurbish

TCLP & MSDS SHEETS ATTACHED

RECEIVED
MAR 3 1 1998
OIL CON. DIV.
DIST. 3

4/1/98 + 4/2/98

Estimated Volume 1 dom cy Known Volume (to be entered by the operator at the end of the haul) 1661 cy

SIGNATURE: Barbara M. Brown TITLE: Landfarm Mngr. DATE: 3.31.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/31/98

APPROVED BY: Martyne J. Kilby TITLE: Env. Geologist DATE: 4/3/98

District I - (505) 393-6161
P. O. Box 1980
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New Mexico
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Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env. JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Williams Field Service
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site San Juan 29-6 #4
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter W.F.S.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NE4 Sec30, T29N, R6W.

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:

Sludge From a reboiler refurbish

TCLP & MSDS Sheets Attached

RECEIVED
MAR 3 1 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 1 dump cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan T. Brown TITLE: Landfarm Mngr. DATE: 3.31.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/31/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Williams Field Services 295 Chipeta Way Salt Lake City, Utah 84108	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
San Juan 29-6 # 4 CDP	NE 30-29-6
Attach list of originating sites as appropriate	

4. Source and Description of Waste

Solids from Reboiler on Glycol Reclaimer. Concentrated from site waste water disposal systems. This unit reclaims Glycol from waste water from all Manzanares Dist. CDP sites. Consists of 1 Drum of waste. Source of water is wash water and rain water collected from Compressor and Dehydrator skids.

I, Bill Beevers (Print Name) representative for:

Williams Field Services 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)

___ **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
- ✓ RCRA Hazardous Waste Analysis
- ✓ Chain of Custody
- ✓ Other (description): ~~TCLP Test~~ NORM Survey

Name (Original Signature): Bill Beevers

Title: Dist. Dehydration Specialist

Date: 2/25/98

PHILIP ENVIRONMENTAL

RADIATION & CONTAMINATION SURVEY LOG

PAGE 1 OF 1

Date: 2-19-98 Time: 1025

Project Name WFS 29-6 #4 CPD
Project Manager Chance
Client Company WFS

Project No.: 19182 Phase.Task: 1000 . 77
Site Location 29-6 #4 CPD
Site Address Rio Arriba County, NM

Survey performed by: Robert Thompson
SIGNATURE

Background Reading: 15 µR/hr

Exposure rate instrument: _____
TYPE, PROBE TYPE, SERIAL NUMBER

Battery check performed satisfactory?: ___

Calibration due date: _____ Calibration check/response reading: _____ µR/hr:

Count rate instrument: MODEL 3 SURVEY METER, SCINTILLATOR, 110254
TYPE, PROBE TYPE, SERIAL NUMBER

Battery check performed satisfactory?: Y

Calibration due date: 8-1-98 Calibration check/response reading: 390 µR/hr:

DATE	ITEM SURVEYED	EXPOSURE READING (µR/hr)	LOOSE CONTAMINATION (DPM/100cm²)	BACKGROUND READING µR/hr or DPM/100 cm²	INITIALS and EMPLOEE NUMBER
2-19-98	1 - DRUM	13	NA	15	RT - 9369

DPM = CPM / % Detector Efficiency

Percent efficiencies for the Ludlum 44-9 Geiger Muller "pancake" type probe are 30% for alpha particles and 10% for beta particles

Reviewed by: Chance 2/19/98

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.
* Arsenic	5.0	D004	Hexachlorobenzene	0.13	D032
* Barium	100.0	D005	Hexachlorobutadiene	0.5	D033
Benzene	0.5	D018	Hexachloroethane	3.0	D034
* Cadmium	1.0	D006	* Lead	5.0	D008
Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 Pesticide
Pesticide Chlordane	0.03	D020	* Mercury	0.2	D009
Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 Pesticide
Chloroform	6.0	D022	Methyl ethyl ketone	200.0	D035
* Chromium	5.0	D007	Nitrobenzene	2.0	D036
Cresol	200.0	D026	Pentachlorophenol	100.0	D037
m-Cresol	200.0	D024	Pyridine	5.0	D038
o-Cresol	200.0	D023	* Selenium	1.0	D010
p-Cresol	200.0	D025	* Silver	5.0	D011
Herbicide * 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 Herbicide
1,4-Dichlorobenzene	7.5	D027	Tetrachloroethylene	0.7	D039
1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 Pesticide
1,1-Dichloroethylene	0.7	D029	Trichloroethylene	0.5	D040
2,4-Dinitrotoluene	0.13	D030	2,4,5-Trichlorophenol	400.0	D041
Pesticide * Endrin	0.02	D012	2,4,6-Trichlorophenol	2.0	D042
Pesticide Heptachlor	0.008	D031	Vinyl chloride	0.2	D043

*-EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Bill Beevers
Williams Field Service
P.O. Box 215
Bloomfield, NM 87413

March 25, 1998

Mr. Beevers:

Enclosed, please find the reports for the sample received by our laboratory for analysis on February 27,1998.

If you have any questions about the result of the analysis, please don't hesitate to call at your convenience.

We appreciate your business!

Sincerely,

Sharon Williams
Organics Lab Supervisor

Enclosure

xc: File

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

WILLIAMS FIELD SERVICES

Case Narrative

On February 27, 1998, four samples were submitted to Inter-Mountain Laboratories - Farmington for analysis. The samples were received intact. The samples were identified by project "29-6 #4 CDP", and were analyzed for the parameters indicated on the accompanying Chain of Custody document #51865.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analyses of the samples reported herein are found in Test Methods For Evaluation of Solid Waste, SW-846, USEPA, 1986, and Methods For Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,

Sharon Williams
Organics Lab Supervisor

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
HSL VOLATILE COMPOUNDS

Client: **WILLIAMS FIELD SERVICE**
Sample ID: 29-6#4CDP
Project ID: None Given
Lab ID: B980937 03-00828
Matrix: Sludge

Date Reported: 03/23/98
Date Sampled: 02/27/98
Date Received: 03/03/98
Date Extracted: 03/10/98
Date Analyzed: 03/20/98

Parameter	Result	PQL	Regulatory Level	Units
1,1-Dichloroethene	ND	0.02	0.7	mg/L
1,2-Dichloroethane	ND	0.02	0.5	mg/L
2-Butanone (MEK)	0.4	0.1	200	mg/L
Benzene	ND	0.02	0.5	mg/L
Carbon Tetrachloride	ND	0.02	0.5	mg/L
Chlorobenzene	ND	0.02	100	mg/L
Chloroform	ND	0.02	6.0	mg/L
Tetrachloroethene (PCE)	ND	0.02	0.7	mg/L
Trichloroethene (TCE)	ND	0.02	0.5	mg/L
Vinyl Chloride	ND	0.02	0.2	mg/L
QUALITY CONTROL - Surrogate Recovery	**%**		**QC Limits**	
1,2-Dichloroethane-d4	118		80 - 120	
Toluene-d8	101		88 - 110	
Bromofluorobenzene	108		86 - 115	

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8260A Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.
Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.

Analyst E.O.

Reviewed

Inter·Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
HSL SEMI-VOLATILE COMPOUNDS

Client: **WILLIAMS FIELD SERVICE**
Sample ID: 29-6#4CDP
Project ID: None Given
Lab ID: B980937 03-00828
Matrix: Sludge

Date Reported: 03/23/98
Date Sampled: 02/27/98
Date Received: 03/03/98
Date Extracted: 03/12/98
Date Analyzed: 03/17/98

Parameter	Result	PQL	Regulatory Level	Units
1,4-Dichlorobenzene	ND	0.05	7.5	mg/L
2,4,5-Trichlorophenol	ND	0.1	400	mg/L
2,4,6-Trichlorophenol	ND	0.1	2.0	mg/L
2,4-Dinitrotoluene	ND	0.05	0.13	mg/L
Hexachloro-1,3-butadiene	ND	0.1	0.5	mg/L
Hexachlorobenzene	ND	0.1	0.13	mg/L
Hexachloroethane	ND	0.1	3.0	mg/L
m,p-Cresol	0.44	0.05	200	mg/L
Nitrobenzene	ND	0.05	2.0	mg/L
o-Cresol	0.285	0.05	200	mg/L
Pentachlorophenol	ND	0.25	100	mg/L
Pyridine	ND	0.1	5.0	mg/L

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
2-Fluorophenol	75	21 - 100
Phenol-d6	65	10 - 94
Nitrobenzene-d5	65	35 - 114
2-Fluorobiphenyl	85	43 - 116
2,4,6-Tribromophenol	0 ##	10 - 123
Terphenyl-d14	65	33 - 121

ND - Not Detected at Practical Quantitation Level (PQL)
- Surrogate Recovery not within control limits due to matrix/dilution effect.

Reference: Method 8270B, Gas Chromatography/Mass Spectrometry for Semivolatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.
Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.

Analyst _____ Reviewed _____

Inter-Mountain Laboratories, Inc.
1701 Phillips Circle
Gillette, Wyoming 82718

LAB QA/QC
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
METHOD BLANK

Date Analyzed: **03/17/98**
Lab ID: MBS98071
Matrix: Water
Date Extracted 03/12/98

Parameter	Result	PQL	Units
1,4-Dichlorobenzene	ND	0.01	mg/L
2,4,5-Trichlorophenol	ND	0.02	mg/L
2,4,6-Trichlorophenol	ND	0.02	mg/L
2,4-Dinitrotoluene	ND	0.01	mg/L
Hexachloro-1,3-butadiene	ND	0.02	mg/L
Hexachlorobenzene	ND	0.02	mg/L
Hexachloroethane	ND	0.02	mg/L
m,p-Cresol	ND	0.01	mg/L
Nitrobenzene	ND	0.01	mg/L
o-Cresol	ND	0.01	mg/L
Pentachlorophenol	ND	0.05	mg/L
Pyridine	ND	0.02	mg/L

QUALITY CONTROL - Surrogate Recovery	%
2,4,6-Tribromophenol	90
2-Fluorobiphenyl	77
2-Fluorophenol	67
Nitrobenzene-d5	78
Phenol-d6	54
Terphenyl-d14	75

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst _____ Reviewed _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	**Williams Field Services**		
Project:	29-6 #4 CDP	Date Reported:	03/11/98
Sample ID:	Reboiler Sludge	Date Sampled:	02/27/98
Laboratory ID:	0398G00828	Date Received:	02/27/98
Sample Matrix:	Sludge	Date Analyzed:	03/10/98

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	0.006	0.005	5	mg/L
Barium	0.07	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	0.10	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Spike Analysis / Blank Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Williams Field Services	Date Reported:	03/11/98
Project:	29-6 #4 CDP	Date Analyzed:	03/10/98
Sample Matrix:	Sludge	Date Received:	02/27/98

Spike Analysis

Parameter	Spike Result (mg/L)	Sample Result (mg/L)	Spike Added (mg/L)	Percent Recovery
Arsenic	0.041	0.02	0.025	80%*
Barium	0.93	0.08	1.00	85%
Cadmium	0.890	<0.004	1.000	89%
Chromium	0.88	0.02	1.00	86%
Lead	0.96	<0.05	1.00	96%
Mercury	0.006	<0.001	0.005	110%
Selenium	0.021	<0.005	0.025	84%*
Silver	0.06	<0.01	0.06	100%

Method Blank Analysis

Parameter	Result	Detection Limit	Units
Arsenic	ND	0.005	mg/L
Barium	ND	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.05	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0.005	mg/L
Silver	ND	0.01	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments: *Spike recovery failed to meet established QC limits due to matrix interferences.

Reported by 

Reviewed by_____

Inter-Mountain Laboratories, Inc

2508 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Williams Field Services	Date Reported:	03/11/98
Project:	29-6 #4 CDP	Date Analyzed:	03/10/98
Sample Matrix:	Sludge	Date Received:	02/27/98

Known Analysis

Parameter	Found Result	Known Result	Percent Recovery	Units
Arsenic	0.010	0.010	100%	mg/L
Barium	0.94	1.00	94%	mg/L
Cadmium	1.010	1.000	101%	mg/L
Chromium	1.01	1.00	101%	mg/L
Lead	1.00	1.00	100%	mg/L
Mercury	0.004	0.004	100%	mg/L
Selenium	0.010	0.010	100%	mg/L
Silver	0.94	1.00	94%	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by _____

Reviewed by _____

imi
Inter- Mountain
Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Williams Field Services	29-6#4 CDP

Sampler: (Signature)	Chain of Custody Tape No.
Bill Barnes	

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	ANALYSES / PARAMETERS: RCRA	ANALYSES / PARAMETERS: TCLP	Remarks
1	2/27	1100		Reserve Pit Sludge	1	✓		one samples site 29-6#4 CDP
2	2/27	1100		"	1	✓		
3	2/27	1100		"	1	✓		
4	2/27	1100		"	1	✓		
								RECD COOL & INTACT

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Bill Barnes	2/27/98	1245	Sam Hughes	2-27-98	1243
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature)	Date	Time

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

1701 Phillips Circle
Gillette, Wyoming 82718
Telephone (307) 682-8945

2506 West Main Street
Farmington, NM 87401
Telephone (505) 326-4737

1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

11183 State Hwy. 30
College Station, TX 77845
Telephone (409) 776-8945

51865

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env JN: 92142-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☑ Non-Exempt: ☐ 3-20-98 10:00 Denny Foust Verbal Approval Received: Yes ☑ No ☐	4. Generator PESCO
	5. Originating Site Main Yard Production Equip
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	5680 U.S. Hwy 64 Farmington NM.

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:

Sludge, & Socios, & Scale from cleaning and refurbishing Oil & Gas Exploration & Production Equipment (Separators, dehys, Tanks, etc)

RECEIVED
MAR 3 1 1998
OIL CON. DIV.
DIST. 3

Estimated Volume ± 10 cy cy Known Volume (to be entered by the operator at the end of the haul) 12566 lbs cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 3-19-98
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 3/31/98

APPROVED BY: Jamie Bunch TITLE: _____ DATE: _____

Jn: 92142

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 **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Mainyard, stored in 55 gallon drums and/or 18 Cubic Foot Steel boxes.
4. Source and Description of Waste Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators, and other production equipment.	

I, Blake Wallace (Print Name) representative for: Process Equipment and Service Company, 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)

✓ **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
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Blake Wallace

Title: Service Manager

Date: 3-18-98

Don't Forget Message 3.20.98 10:00 AM

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 / FARMINGTON Date: 3-20-98

Meter Model: BICRON SURVEYOR 5D Serial No.: B980R

Detector Type: [PGM] Model Serial No.: B322R

[ ] Model Serial No.: _____

Battery Check [X] Source Check [ ]

Calibration Date: 1-18-98

Source Type: _____

Background Radiation Level: 15 microR/hr

Description of Equipment/Material Surveyed: Solid Waste out of production units and/or tanks

Item/Material Surveyed (Description, Serial Number, Size Quantity, etc.)	Maximum microR/hr.
CONTAINER #1	15
2	10
3	10
4	12
5	20
6	15
7	15
8	20

Comments: _____

Survey(s) Conducted By: GARY W. HOWE
(Print Name)
Gary W Howe
(Signature)

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 / FARMINGTON Date: 3-20-98

Meter Model: BICRON SURVEYOR 50 Serial No.: B 980R

Detector Type: [PGM] Model Serial No.: B 322R

[ ] Model Serial No.: _____

Battery Check [X] Source Check [ ]

Calibration Date: 1-18-98

Source Type: _____

Background Radiation Level: 15 microR/hr

Description of Equipment/Material Surveyed: Solid Waste out of production units and/or tanks

Item/Material Surveyed (Description, Serial Number, Size Quantity, etc.)	Maximum microR/hr.
Container # 9	15
10	25
11	12
12	15
13	12
14	15
15	12

Comments: _____

Survey(s) Conducted By: GARY W. HOWE
(Print Name)
Gary W Howe
(Signature)

Process Equipment & Service Company, Inc.

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FARMINGTON, NEW MEXICO
PHONE: (505) 327-2222 • FAX: (505) 327-7550

RECEIVED MAR 19 1998

Wednesday, March 18, 1998

Harlan Brown
ENVIROTECH INC.
5796 US Hwy. 64-3014
Farmington, NM 87401

Dear Harlan:

At this time we have approximately 15 of the 18 cubic foot steel boxes with exempt waste for disposal. Please schedule the disposal at the earliest possible date.

If you have any questions, please call.

Sincerely,

Blake Wallace

Blake Wallace
Service Manager

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env JN: 96052-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust Verbal 3.17.98 8:05	4. Generator Phillips Petroleum
	5. Originating Site Various Production
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Cimmarron
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Phillips PetCo Lower Yard 5525 Hwy 64 NBU 3004 Farmington, NM 87401

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:

Exempt petroleum Hydrocarbon contaminated waste generated from the clean up of various spills & leaks @ production locations.

San Juan 29-6 # 29A
San Juan 32-8 #245
San Juan 29-5 # 19A

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MAR 3 1 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) 3 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 3.12.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 3/31/98

APPROVED BY: Ernie Busch TITLE: " DATE: "

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NBU 3004 Farmington, N.M. 87401	Envirotech Landfarm Hilltop, N.M.

3. Originating Site (Name):
San Juan 29-6 # 29 A San Juan 32-8 # 245 San Juan 29-5 # 19 A
4. Source and Description of Waste:
Soil

I, Virgil Chavez representative for:

(Print Name)

Phillips Petroleum Company do hereby certify that, according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1998, 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 non-hazardous waste defined above.

For **EXEMPT** waste only, the following documentation is attached (check appropriate items)	For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items)
X NORM Survey	_____MSDS Information _____RCRA Hazardous Waste Analysis _____Chain of Custody _____NORM Survey _____Other (description)

Name (Original Signature): Virgil Chavez

Title: Environmental Specialist

Date: 3/11/98

INSPECTION FOR N.O.R.M. CONTAMINATION
CIMARRON OILFIELD SERVICES
ENVIRONMENTAL DIVISION

Location: Phillips Petroleum Lower Yard Date: March 11, 1998

Survey Instrument Model: 290 Last Calibrated: 8/11/97

Manufacturer: Victoreen

Item Description: Soil

Number of Pieces: 3 cubic yards

Location Where Items Originated:

Background Reading: .019 mR/hr

Highest **NORM** reading: .038 mR/hr (corrected for background)

Lowest **NORM** reading: .026 mR/hr (corrected for background)

Any samples taken? If so, how many? 0

3 cubic yards Pieces Inspected.

All Pieces found to be free of **NORM** contamination.

0 Pieces found to have **NORM** contamination.

Remarks:

Inspector: Virgil Chavez

What is final disposition: Envirotech Landfarm

Released to: Date:

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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

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Originated 8/8/95

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Plus 1 Copy
to appropriate
District Office

Env. JN: 97078-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ 2.24.98 8:06 Denny Foust verbal Verbal Approval Received: Yes ☒ No ☐	4. Generator NTUA
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	5. Originating Site Gas Sweetening Plt. Montezuma Creek UT.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	6. Transporter Gonzales Septic
7. Location of Material (Street Address or ULSTR)	8. State UTAH.
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.	SWQ, Sec 32, T40S, R24E, SJC, UT Navajo Nation

BRIEF DESCRIPTION OF MATERIAL:

Contamination of ~ H2O / Sulfur sludge generated @ Gas Sweetening plant.

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MAR 3 1 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 9615. cy Known Volume (to be entered by the operator at the end of the haul) 9615 cy

SIGNATURE: Houston Brown TITLE: Landfarm Mngr. DATE: 2.27.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 3/31/98

APPROVED BY: Ernie Busch TITLE: " DATE: "

Donnar Foust
Verbal
2-24-98
8:06.

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Navajo Tribal Utility Authority Box 1206 Shiprock, New Mexico	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): NTUA Gas Sweetening facility Montezuma Creek, Utah **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** SW4, Sec. 32, T40S, R24E San Juan County, Ut. Navajo Nation
4. Source and Description of Waste N.T.U.A. Gas Sweetening Facility Hydrocarbon contaminated water and sulfur sludge	

I, Abe Baleh, Inclowing (Print Name) representative for:

Navajo Tribal Utility Authority 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):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Abe Baleh

Title: Gas Foreman

Date: 2-23-98

THE NAVAJO NATION

ALBERT A. HALE
PRESIDENT

THOMAS E. ATCITTY
VICE PRESIDENT

December 16, 1997

Mr. Malcolm Dalton, General Manager
Navajo Tribal Utility Authority
P.O. Box 170
Fort Defiance, Arizona 86504

Dear Mr. Dalton:

The Navajo Nation Environmental Protection Agency has reviewed your request to contract with Envirotech to remove non-hazardous waste from the NTUA gas sweetening facility in Montezuma Creek, Utah. NNEPA hereby approves the request with the following conditions:

- Envirotech will dispose of the non-hazardous waste (water and sulfur solution) at the New Mexico Oil Conservation Division land farm in Hilltop, New Mexico.

- The NTUA gas sweetening facility in Montezuma Creek, Utah shall maintain records regarding the volumes of the waste transferred to Envirotech for final disposal and the dates waste is transported from the facility. NNEPA may request to review these records at any time.

- Envirotech shall maintain records of disposal in the event NNEPA requests documentation of disposal.

If you have any questions, please contact Ms. Gloria Notah, NNEPA-Resource Conservation & Recovery Program, at (520) 871-7751.

Sincerely,

Bennie Cohoe, Executive Director
Navajo Nation Environmental Protection Agency

xc: Harlan Brown, Envirotech, Inc., Farmington, NM
Gloria Notah, NNEPA-RCRP

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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

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MAR 11 1998
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 6/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env JN: 95026-02

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator B.J. Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3520 Southside River Road Farmington NM.

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:

Solids generated during Excavation of Acid Waste Tank (AWT) & Field Waste Tank (FWT).

TCLP ATTACHED AWT & FWT.

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MAR - 9 1998
OIL CON. DIV.
DIST. 3

25cy and five drums

Sent to Aztec 3-11-98

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) ____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/9/98

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 3/11/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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 1 Copy
to appropriate
District Office

Env JN: 95026-02

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator B.J. Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3520 Southside River Road Farmington, NM.

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:

Solids generated during Excavation of Acid Waste Tank (AWT) & Field Waste Tank (FWT).

TCLP ATTACHED AWT & FWT.

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OIL CON. DIV.
DIST. 3

Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/9/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

ORIGINATION LOCATION: BJ Services Co., 3250 Southside River Rd., Farmington, NM

SOURCE: Sludge from field waste tank, sludge + solids from acid waste tan

DISPOSAL LOCATION: Envirotech, Inc., Farmington, NM

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3."

I, the undersigned as the agent for the B. J. Services concur with the status of the waste from the subject site.

Name: Les Lamb

Title: Facilities Supervisor

Address: 3250 Southside River Road Farmington, N. M., 87401

Signature: Les Lamb

Date: 3/6/98

CERTIFICATE OF WASTE STATUS

1. Generator (Name): BJ Services Co, USA Address: 8701 New Trails Drive The Woodlands, TX 77381	3. Location (Street Address &/or ULSTR): 3250 Southside River Road Farmington, NM
2. Originating Site (Name): BJ Services Co, USA	4. Destination Name: Envirotech, Inc.

5. Source and Description of Waste

sludge from field waste tank, sludge + solids from acid waste tank

I, Les Baugh representative for: BJ Services Co, USA 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)

___ EXEMPT oilfield waste

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

For Non-exempt waste only the following documentation is attached (check appropriate items):

___ MSDS Information
✓ RCRA TCLP Analysis
✓ Chain of Custody
___ Other (Description)

Name (Signature): Les Baugh

Printed Name: Les Baugh

Title: Facilities Supervisor

Date: 3/10/98

Attach list of originating sites as appropriate.

Submit 3 copies to Appropriate District Office

DISTRICT I
P.O.Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S Pacheco
Santa Fe, New Mexico 87504-2088

Form C-117 A
Revised 4-1-91

PERMIT NO. 3-589

TANK CLEANING, SEDIMENT OIL REMOVAL, TRANSPORTATION OF MISCELLANEOUS HYDROCARBONS AND DISPOSAL PERMIT

Operator or Owner B J Services Address 3250 Southside River Road

Lease or Facility Name B J Services Location W1/2 SW1/4 NW1/4 Sec 13
U.L. - Sec. - Twp. - Rge.
T29N, R13W, NMPM San Juan

OPERATION TO BE PERFORMED:

☒ Tank Cleaning ☒ Sediment Oil Removal ☒ Transportation of Miscellaneous Hydrocarbons

Operator or Owner Representative authorizing work Rick Johnston

Date Work to be Performed 3/11/98

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OIL CON. DIV.
DIST. 3

TANK CLEANING DATA Tank Number _____ Volume _____

Tank Type Upright 400 BBL Volume Below Load Line _____

SEDIMENT OIL OR MISCELLANEOUS HYDROCARBON DATA

Sediment Oil from: ☐ Pit ☐ Cellar ☒ Other

MISCELLANEOUS OIL

Tank Bottoms From: ☐ Pipeline Station ☐ Crude Terminal ☐ Refinery ☒ Other*

Catchings From: ☐ Gasoline Plant ☐ Gathering Lines ☐ Salt Water Disposal System ☐ Other*

Pipeline Break Oil or Spill ☐

*Other (Explain) Tank bottoms from field waste tanks from oilfield treating activities.

VOLUME AND DESTINATION: Estimated Volume 80 Bbls. Field test volume of good oil _____ Bbls.
(Not required prior to Division approval)

Destination (Name and Location of treating plant or other facility) Envirotech Landfarm II
Hilltop - Angel Peak, south of Bloomfield, New Mexico

DESTRUCTION OF SEDIMENT OIL BY: ☐ Burning ☐ Pit Disposal ☐ Use on Roads or firewalls ☒ Other

(Explain) Will be taken to landfarm

Location of Destruction _____

Justification of Destruction _____

CERTIFICATION: (APPLICATION MAY BE MADE BY EITHER OF THE FOLLOWING)

I hereby certify that the infomation above is true and complete to the best of my knowledge and belief.

Owner B J Services Transporter _____

By Tim Smith Address _____

Title Facilities Supervisor Signature _____

Date 3/10/98 Title _____ Date _____

OIL CONSERVATION DIVISION

Approved By Jerry Sexton Title Geologist Date 3/11/98

A COPY OF THIS FORM MUST BE ON LOCATION DURING TANK CLEANING, REMOVAL OF SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS, AND MUST BE PRESENTED WITH TANK BOTTOMS, SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS AT THE TREATING PLANT TO WHICH IT IS DELIVERED.

DISTRIBUTION BY OCD	
	Santa Fe
	File
	Operator
	Transporter (2)

Certificate of Analysis

Quanterra Incorporated
5307 Industrial Oaks Boulevard, Suite 160
Austin, Texas 78735

512 892-6684 Direct
512 892-6652 Fax

Quanterra

RECEIVED
MAR 16 1998
OIL CON. DIV.
DIST. 3

ANALYTICAL REPORT

PROJECT NO. RCRA

Farmington, NM

Lot #: I8B150103

Rick Johnson

B.J. Services Company

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

March 4, 1998

Quanterra
Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

I8B150103

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
FWT-BACKFILL 02/12/98 10:15 001				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	14000	1100	mg/kg	MCAWW 418.1
Corrosivity	7.6	1.0	No Units	SW846 9045A
Percent Moisture	8.4	0.50	%	OCLP OLM03.1
AWT-BACKFILL 02/12/98 10:30 002				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	110	11	mg/kg	MCAWW 418.1
Corrosivity	7.9	1.0	No Units	SW846 9045A
Percent Moisture	8.8	0.50	%	OCLP OLM03.1
AWT-SOLIDS/SLUDGE 02/12/98 11:00 003				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	49000	2900	mg/kg	MCAWW 418.1
Corrosivity	9.5	1.0	No Units	SW846 9045A
Percent Moisture	30.1	0.50	%	OCLP OLM03.1
FWT-SLUDGE 02/12/98 13:00 004				
Benzene	0.18	0.050	mg/L	SW846 8260A
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	550000	10000	mg/kg	MCAWW 418.1
Corrosivity	5.1	1.0	No Units	SW846 9045A
Percent Moisture	52.2	0.50	%	OCLP OLM03.1

Quanterra
Environmental Services

ANALYTICAL METHODS SUMMARY

I8B150103

PARAMETER	ANALYTICAL METHOD
% Moisture, Decanted-CLP	OCLP OLM03.1
Corrosivity	SW846 9045A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Total Recoverable Petroleum Hydrocarbons	MCAWW 418.1
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

Quanterra
Environmental Services

SAMPLE SUMMARY

I8B150103

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CFDA2	001	FWT-BACKFILL	02/12/98	10:1
CFDA3	002	AWT-BACKFILL	02/12/98	10:3
CFDA4	003	AWT-SOLIDS/SLUDGE	02/12/98	11:0
CFDA5	004	FWT-SLUDGE	02/12/98	13:0

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

TCLP GC/MS Semivolatiles

Lot-Sample #...:	I8B150103-001	**Work Order #...:**	CFDA2107	**Matrix.....:**	SOLID
Date Sampled...:	02/12/98 10:15	**Date Received..:**	02/14/98		
Leach Date.....:	02/16/98	**Prep Date.....:**	02/18/98	**Analysis Date..:**	02/26/98
Leach Batch #..:	P804704	**Prep Batch #...:**	8049233	**Analysis Time..:**	13:46
Dilution Factor:	1				
% Moisture.....:	8.4				

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(21 - 100)
Phenol-d5	85	(10 - 94)
Nitrobenzene-d5	75	(35 - 114)
2-Fluorobiphenyl	59	(43 - 116)
2,4,6-Tribromophenol	76	(10 - 123)
Terphenyl-d14	93	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

TCLP GC/MS Volatiles

Lot-Sample #...: I8B150103-001 **Work Order #...:** CFDA210J **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
Leach Date.....: 02/23/98 **Prep Date.....:** 02/27/98 **Analysis Date..:** 02/28/98
Leach Batch #..: P805602 **Prep Batch #...:** 8062161 **Analysis Time..:** 00:41
Dilution Factor: 1
% Moisture.....: 8.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	94	(86 - 115)
Toluene-d8	100	(88 - 110)
Dibromofluoromethane	99	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-BACKFILL

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8B150103-002 **Work Order #...:** CFDA3107 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:30 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 15:49
Dilution Factor: 1
% Moisture.....: 8.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	76	(21 - 100)
Phenol-d5	89	(10 - 94)
Nitrobenzene-d5	74	(35 - 114)
2-Fluorobiphenyl	57	(43 - 116)
2,4,6-Tribromophenol	79	(10 - 123)
Terphenyl-d14	88	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-BACKFILL

TCLP GC/MS Volatiles

Lot-Sample #...: I8B150103-002 **Work Order #...:** CFDA310J **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:30 **Date Received..:** 02/14/98
Leach Date.....: 02/23/98 **Prep Date.....:** 02/27/98 **Analysis Date..:** 02/28/98
Leach Batch #..: P805602 **Prep Batch #...:** 8062161 **Analysis Time..:** 01:15
Dilution Factor: 1
% Moisture.....: 8.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	95	(86 - 115)
Toluene-d8	98	(88 - 110)
Dibromofluoromethane	100	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-SOLIDS/SLUDGE

TCLP GC/MS Semivolatiles

Lot-Sample #...:	I8B150103-003	**Work Order #...:**	CFDA4107	**Matrix.....:**	SOLID
Date Sampled...:	02/12/98 11:00	**Date Received..:**	02/13/98		
Leach Date.....:	02/16/98	**Prep Date.....:**	02/18/98	**Analysis Date..:**	02/26/98
Leach Batch #..:	P804704	**Prep Batch #...:**	8049233	**Analysis Time..:**	16:20
Dilution Factor:	1				
% Moisture.....:	30				

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	79	(21 - 100)
Phenol-d5	96 *	(10 - 94)
Nitrobenzene-d5	106	(35 - 114)
2-Fluorobiphenyl	58	(43 - 116)
2,4,6-Tribromophenol	51	(10 - 123)
Terphenyl-d14	90	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

* Surrogate recovery is outside stated control limits.

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

Surrogates outside acceptance criteria due to demonstrated matrix effect.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-SOLIDS/SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #...: I8B150103-003 **Work Order #...:** CFDA410J **Matrix.....:** SOLID
Date Sampled...: 02/12/98 11:00 **Date Received..:** 02/13/98
Leach Date.....: 02/23/98 **Prep Date.....:** 02/27/98 **Analysis Date..:** 02/28/98
Leach Batch #..: P805602 **Prep Batch #...:** 8062161 **Analysis Time..:** 01:49
Dilution Factor: 1
% Moisture.....: 30

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	92	(86 - 115)
Toluene-d8	100	(88 - 110)
Dibromofluoromethane	97	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-SLUDGE

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8B150103-004 **Work Order #...:** CFDA5107 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 13:00 **Date Received..:** 02/13/98
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 16:50
Dilution Factor: 1
% Moisture.....: 52

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	83	(21 - 100)
Phenol-d5	94	(10 - 94)
Nitrobenzene-d5	76	(35 - 114)
2-Fluorobiphenyl	59	(43 - 116)
2,4,6-Tribromophenol	69	(10 - 123)
Terphenyl-d14	45	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #...:	I8B150103-004	**Work Order #...:**	CFDA510J	**Matrix.....:**	SOLID
Date Sampled...:	02/12/98 13:00	**Date Received..:**	02/13/98		
Leach Date.....:	02/23/98	**Prep Date.....:**	02/27/98	**Analysis Date..:**	02/28/98
Leach Batch #..:	P805602	**Prep Batch #...:**	8062161	**Analysis Time..:**	02:23
Dilution Factor:	1				
% Moisture.....:	52				

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	**0.18**	**0.050**	**mg/L**	**SW846 8260A**
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	89	(86 - 115)
Toluene-d8	97	(88 - 110)
Dibromofluoromethane	97	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

General Chemistry

Lot-Sample #...: I8B150103-001 **Work Order #...:** CFDA2 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
% Moisture.....: 8.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	**7.6**	**1.0**	**No Units**	**SW846 9045A**	**02/16/98**	**8047188**
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	**>150**	**>150**	**deg F**	**SW846 1010**	**02/15-02/16/98**	**8047152**
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	**8.4**	**0.50**	**%**	**OCLP OLM03.1**	**02/17-02/18/98**	**8048212**
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	220	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	220	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	**14000**	**1100**	**mg/kg**	**MCAWW 418.1**	**02/24-02/25/98**	**8055155**
		Dilution Factor: 100				
		Analysis Time..: 13:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-BACKFILL

General Chemistry

Lot-Sample #...: I8B150103-002 Work Order #...: CFDA3 Matrix.....: SOLID
Date Sampled...: 02/12/98 10:30 Date Received..: 02/14/98
% Moisture.....: 8.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	7.9	1.0	No Units	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	>150	>150	deg F	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	8.8	0.50	%	OCLP OLM03.1	02/17-02/18/98	8048212
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	220	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	220	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	110	11	mg/kg	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1				
		Analysis Time..: 13:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-SOLIDS/SLUDGE

General Chemistry

Lot-Sample #...: I8B150103-003 Work Order #...: CFDA4 Matrix.....: SOLID
Date Sampled...: 02/12/98 11:00 Date Received..: 02/13/98
% Moisture.....: 30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	9.5	1.0	No Units	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	>150	>150	deg F	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	30.1	0.50	%	OCLP OLM03.1	02/17-02/18/98	8048212
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	290	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	290	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	49000	2900	mg/kg	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 200				
		Analysis Time..: 13:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-SLUDGE

General Chemistry

Lot-Sample #...: I8B150103-004 Work Order #...: CFDA5 Matrix.....: SOLID
Date Sampled...: 02/12/98 13:00 Date Received..: 02/13/98
% Moisture.....: 52

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	5.1	1.0	No Units	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	>150	>150	deg F	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	52.2	0.50	%	OCLP OLM03.1	02/17-02/18/98	8048212
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	420	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	420	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	550000	10000	mg/kg	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 500				
		Analysis Time..: 10:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

TCLP Metals

Lot-Sample #...: I8B150103-001 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA2108
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA2109
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA210A
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA210C
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA210D
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA210E
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA210F
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA210G
		Dilution Factor: 1				
		Analysis Time..: 08:53				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-BACKFILL

TCLP Metals

Lot-Sample #...: I8B150103-002 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:30 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA3108
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA3109
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA310A
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA310C
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA310D
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA310E
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA310F
		Dilution Factor: 1				
		Analysis Time..: 15:59				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA310G
		Dilution Factor: 1				
		Analysis Time..: 09:05				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: AWT-SOLIDS/SLUDGE

TCLP Metals

Lot-Sample #...: I8B150103-003 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 11:00 **Date Received..:** 02/13/98
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA4108
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA4109
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA410A
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA410C
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA410D
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA410E
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA410F
		Dilution Factor: 1				
		Analysis Time..: 16:01				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA410G
		Dilution Factor: 1				
		Analysis Time..: 09:07				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
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B.J. SERVICES COMPANY

Client Sample ID: FWT-SLUDGE

TCLP Metals

Lot-Sample #...: I8B150103-004 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 13:00 **Date Received..:** 02/13/98
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA5108
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA5109
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA510A
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA510C
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA510D
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA510E
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA510F
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA510G
		Dilution Factor: 1				
		Analysis Time..: 09:09				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

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Environmental Services

QC DATA ASSOCIATION SUMMARY

I8B150103

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
002	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
003	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
004	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8061186	8061073
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082

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METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8B150103 **Work Order #...:** CFDN9109 **Matrix.....:** SOLID
MB Lot-Sample #: I8B160000-214
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 12:45
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
Phenol-d5	88	(10 - 94)
Nitrobenzene-d5	68	(35 - 114)
2-Fluorobiphenyl	50	(43 - 116)
2,4,6-Tribromophenol	71	(10 - 123)
Terphenyl-d14	90	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Environmental Services

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 **Work Order #...:** CFLX7101 **Matrix.....:** SOLID
MB Lot-Sample #: I8C030000-161

Prep Date.....: 02/27/98 **Analysis Time..:** 17:18
Analysis Date..: 02/27/98 **Prep Batch #...:** 8062161
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	97	(88 - 110)
Dibromofluoromethane	96	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
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METHOD BLANK REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8B160000-214 **Prep Batch #...:** 8051213						
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDN9106
		Dilution Factor: 1				
		Analysis Time..: 08:49				
MB Lot-Sample #: I8B160000-214 **Prep Batch #...:** 8049226						
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9107
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9108
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDN9101
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDN9102
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9103
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9104
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDN9105
		Dilution Factor: 1				
		Analysis Time..: 14:17				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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METHOD BLANK REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D101		MB Lot-Sample #:	I8B240000-155	
	ND	10	mg/kg	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2101		MB Lot-Sample #:	I8C020000-186	
	ND	10	mg/kg	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1				
		Analysis Time..: 10:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: I8B150103 Work Order #...: CFETD101 Matrix.....: SOLID
LCS Lot-Sample#: I8B180000-233
Prep Date.....: 02/18/98 Analysis Date..: 02/26/98
Prep Batch #...: 8049233 Analysis Time..: 13:16
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Pyridine	**0.40**	**0.18**	**mg/L**	**45**	**SW846 8270B**
1,4-Dichlorobenzene	**0.40**	**0.25**	**mg/L**	**63**	**SW846 8270B**
o-Cresol	**0.40**	**0.34**	**mg/L**	**84**	**SW846 8270B**
m-Cresol & p-Cresol	**0.80**	**0.69**	**mg/L**	**87**	**SW846 8270B**
Hexachloroethane	**0.40**	**0.25**	**mg/L**	**64**	**SW846 8270B**
Nitrobenzene	**0.40**	**0.30**	**mg/L**	**76**	**SW846 8270B**
Hexachlorobutadiene	**0.40**	**0.24**	**mg/L**	**60**	**SW846 8270B**
2,4,6-Trichlorophenol	**0.40**	**0.27**	**mg/L**	**67**	**SW846 8270B**
2,4,5-Trichlorophenol	**0.40**	**0.27**	**mg/L**	**67**	**SW846 8270B**
2,4-Dinitrotoluene	**0.40**	**0.28**	**mg/L**	**70**	**SW846 8270B**
Hexachlorobenzene	**0.40**	**0.35**	**mg/L**	**88**	**SW846 8270B**
Pentachlorophenol	**0.40**	**0.35**	**mg/L**	**87**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(21 - 100)
Phenol-d5	93	(10 - 94)
Nitrobenzene-d5	74	(35 - 114)
2-Fluorobiphenyl	61	(43 - 116)
2,4,6-Tribromophenol	78	(10 - 123)
Terphenyl-d14	104	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 **Work Order #...:** CFLX7102 **Matrix.....:** SOLID
LCS Lot-Sample#: I8C030000-161
Prep Date.....: 02/27/98 **Analysis Date..:** 02/27/98
Prep Batch #...: 8062161 **Analysis Time..:** 17:52
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Vinyl chloride	**0.50**	**0.71**	**mg/L**	**142**	**SW846 8260A**
1,1-Dichloroethylene	**0.50**	**0.65**	**mg/L**	**129**	**SW846 8260A**
Chloroform	**0.50**	**0.50**	**mg/L**	**100**	**SW846 8260A**
1,2-Dichloroethane	**0.50**	**0.47**	**mg/L**	**94**	**SW846 8260A**
Methyl ethyl ketone	**0.50**	**0.13**	**mg/L**	**27**	**SW846 8260A**
Carbon tetrachloride	**0.50**	**0.57**	**mg/L**	**113**	**SW846 8260A**
Trichloroethylene	**0.50**	**0.52**	**mg/L**	**104**	**SW846 8260A**
Benzene	**0.50**	**0.51**	**mg/L**	**101**	**SW846 8260A**
Tetrachloroethylene	**0.50**	**0.56**	**mg/L**	**112**	**SW846 8260A**
Chlorobenzene	**0.50**	**0.52**	**mg/L**	**104**	**SW846 8260A**
1,4-Dichlorobenzene	**0.50**	**0.53**	**mg/L**	**107**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	96	(88 - 110)
Dibromofluoromethane	104	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity			Work Order #: CFDLG101 LCS Lot-Sample#: I8B160000-188				
	9.0	9.2	No Units	101	SW846 9045A	02/16/98	8047188
			Dilution Factor: 1				
			Analysis Time..: 14:00				
Flashpoint			Work Order #: CFDMP101 LCS Lot-Sample#: I8B160000-152				
	81	81	deg F	100	SW846 1010	02/15-02/16/98	8047152
			Dilution Factor: 1				
			Analysis Time..: 10:00				
Reactive Cyanide			Work Order #: CFDE0102 LCS Lot-Sample#: I8B160000-136				
	40	2.9	mg/L	7.3	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1				
			Analysis Time..: 16:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFH8D102 LCS Lot-Sample#: I8B240000-155				
	250	210	mg/kg	86	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1				
			Analysis Time..: 00:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFLG2102 LCS Lot-Sample#: I8C020000-186				
	250	230	mg/kg	91	MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1				
			Analysis Time..: 13:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity			Work Order #: CFDLG101 LCS Lot-Sample#: I8B160000-188				
	9.0	9.2	No Units	101	SW846 9045A	02/16/98	8047188
			Dilution Factor: 1				
			Analysis Time..: 14:00				
Flashpoint			Work Order #: CFDMP101 LCS Lot-Sample#: I8B160000-152				
	81	81	deg F	100	SW846 1010	02/15-02/16/98	8047152
			Dilution Factor: 1				
			Analysis Time..: 10:00				
Reactive Cyanide			Work Order #: CFDE0102 LCS Lot-Sample#: I8B160000-136				
	40	2.9	mg/L	7.3	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1				
			Analysis Time..: 16:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFH8D102 LCS Lot-Sample#: I8B240000-155				
	250	210	mg/kg	86	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1				
			Analysis Time..: 00:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFLG2102 LCS Lot-Sample#: I8C020000-186				
	250	230	mg/kg	91	MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1				
			Analysis Time..: 13:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8B180000-226 **Prep Batch #...:** 8049226							
Barium	2.0	2.0	mg/L	100	SW846 6010A	02/18-02/19/98	CFETA101
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Cadmium	0.050	0.054	mg/L	109	SW846 6010A	02/18-02/19/98	CFETA102
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Chromium	0.20	0.20	mg/L	101	SW846 6010A	02/18-02/19/98	CFETA103
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Lead	0.50	0.46	mg/L	93	SW846 6010A	02/18-02/19/98	CFETA104
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Selenium	2.0	1.9	mg/L	94	SW846 6010A	02/18-02/19/98	CFETA105
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Silver	0.050	0.046	mg/L	93	SW846 6010A	02/18-02/19/98	CFETA106
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Arsenic	2.0	2.0	mg/L	100	SW846 6010A	02/18-02/19/98	CFETA107
			Dilution Factor: 1				
			Analysis Time..: 14:20				
LCS Lot-Sample#: I8B200000-213 **Prep Batch #...:** 8051213							
Mercury	0.0050	0.0049	mg/L	99	SW846 7470A	02/20-02/24/98	CFG8X101
			Dilution Factor: 1				
			Analysis Time..: 08:51				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: I8B150103 **Work Order #...:** CFETD101 **Matrix.....:** SOLID
LCS Lot-Sample#: I8B180000-233
Prep Date.....: 02/18/98 **Analysis Date..:** 02/26/98
Prep Batch #...: 8049233 **Analysis Time..:** 13:16
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Pyridine	**45**	**(1.0- 144)**	**SW846 8270B**
1,4-Dichlorobenzene	**63**	**(26 - 112)**	**SW846 8270B**
o-Cresol	**84**	**(21 - 137)**	**SW846 8270B**
m-Cresol & p-Cresol	**87**	**(19 - 126)**	**SW846 8270B**
Hexachloroethane	**64**	**(26 - 102)**	**SW846 8270B**
Nitrobenzene	**76**	**(42 - 120)**	**SW846 8270B**
Hexachlorobutadiene	**60**	**(33 - 111)**	**SW846 8270B**
2,4,6-Trichlorophenol	**67**	**(19 - 122)**	**SW846 8270B**
2,4,5-Trichlorophenol	**67**	**(29 - 123)**	**SW846 8270B**
2,4-Dinitrotoluene	**70**	**(31 - 106)**	**SW846 8270B**
Hexachlorobenzene	**88**	**(42 - 120)**	**SW846 8270B**
Pentachlorophenol	**87**	**(12 - 156)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(21 - 100)
Phenol-d5	93	(10 - 94)
Nitrobenzene-d5	74	(35 - 114)
2-Fluorobiphenyl	61	(43 - 116)
2,4,6-Tribromophenol	78	(10 - 123)
Terphenyl-d14	104	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 Work Order #...: CFLX7102 Matrix.....: SOLID
LCS Lot-Sample#: I8C030000-161
Prep Date.....: 02/27/98 Analysis Date..: 02/27/98
Prep Batch #...: 8062161 Analysis Time..: 17:52
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Vinyl chloride	**142**	**(1.0- 251)**	**SW846 8260A**
1,1-Dichloroethylene	**129**	**(59 - 155)**	**SW846 8260A**
Chloroform	**100**	**(51 - 136)**	**SW846 8260A**
1,2-Dichloroethane	**94**	**(49 - 155)**	**SW846 8260A**
Methyl ethyl ketone	**27**	**(25 - 250)**	**SW846 8260A**
Carbon tetrachloride	**113**	**(71 - 240)**	**SW846 8260A**
Trichloroethylene	**104**	**(71 - 157)**	**SW846 8260A**
Benzene	**101**	**(37 - 151)**	**SW846 8260A**
Tetrachloroethylene	**112**	**(46 - 157)**	**SW846 8260A**
Chlorobenzene	**104**	**(37 - 160)**	**SW846 8260A**
1,4-Dichlorobenzene	**107**	**(75 - 137)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	96	(88 - 110)
Dibromofluoromethane	104	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity		Work Order #: CFDLG101	LCS Lot-Sample#: I8B160000-188		
	101	(90 - 110)	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Flashpoint		Work Order #: CFDMP101	LCS Lot-Sample#: I8B160000-152		
	100	(95 - 105)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1			
		Analysis Time..: 10:00			
Reactive Cyanide		Work Order #: CFDE0102	LCS Lot-Sample#: I8B160000-136		
	7.3	(1.0- 64)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1			
		Analysis Time..: 16:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D102	LCS Lot-Sample#: I8B240000-155		
	86	(70 - 130)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1			
		Analysis Time..: 00:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2102	LCS Lot-Sample#: I8C020000-186		
	91	(70 - 130)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1			
		Analysis Time..: 13:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity		Work Order #: CFDLG101	LCS Lot-Sample#: I8B160000-188		
	101	(90 - 110)	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Flashpoint		Work Order #: CFDMP101	LCS Lot-Sample#: I8B160000-152		
	100	(95 - 105)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1			
		Analysis Time..: 10:00			
Reactive Cyanide		Work Order #: CFDE0102	LCS Lot-Sample#: I8B160000-136		
	7.3	(1.0- 64)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1			
		Analysis Time..: 16:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D102	LCS Lot-Sample#: I8B240000-155		
	86	(70 - 130)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1			
		Analysis Time..: 00:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2102	LCS Lot-Sample#: I8C020000-186		
	91	(70 - 130)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1			
		Analysis Time..: 13:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8B180000-226 **Prep Batch #...:** 8049226					
Barium	100	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA101
Cadmium	109	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA102
Chromium	101	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA103
Lead	93	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA104
Selenium	94	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA105
Silver	93	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA106
Arsenic	100	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA107
LCS Lot-Sample#: I8B200000-213 **Prep Batch #...:** 8051213					
Mercury	99	(80 - 120)	SW846 7470A Dilution Factor: 1 Analysis Time..: 08:51	02/20-02/24/98	CFG8X101

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8049226									
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704									
Silver									
	ND	1.0	0.99	mg/L	99		SW846 6010A	02/18-02/19/98	CFDA210W
	ND	1.0	1.0	mg/L	101	1.4	SW846 6010A	02/18-02/19/98	CFDA210X
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Arsenic									
	ND	5.0	4.9	mg/L	98		SW846 6010A	02/18-02/19/98	CFDA2110
	ND	5.0	4.9	mg/L	98	0.32	SW846 6010A	02/18-02/19/98	CFDA2111
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Barium									
	ND	50.0	53.2	mg/L	101		SW846 6010A	02/18-02/19/98	CFDA210K
	ND	50.0	53.7	mg/L	102	1.0	SW846 6010A	02/18-02/19/98	CFDA210L
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Cadmium									
	ND	1.0	0.92	mg/L	91		SW846 6010A	02/18-02/19/98	CFDA210M
	ND	1.0	0.93	mg/L	92	1.0	SW846 6010A	02/18-02/19/98	CFDA210N
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Chromium									
	ND	5.0	4.8	mg/L	96		SW846 6010A	02/18-02/19/98	CFDA210P
	ND	5.0	4.9	mg/L	97	0.82	SW846 6010A	02/18-02/19/98	CFDA210Q
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Lead									
	ND	5.0	4.5	mg/L	91		SW846 6010A	02/18-02/19/98	CFDA210R
	ND	5.0	4.6	mg/L	92	0.70	SW846 6010A	02/18-02/19/98	CFDA210T
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Selenium									
	ND	1.0	0.90	mg/L	90		SW846 6010A	02/18-02/19/98	CFDA210U
	ND	1.0	0.91	mg/L	91	1.5	SW846 6010A	02/18-02/19/98	CFDA210V
				Dilution Factor: 1					
				Analysis Time..: 14:27					

MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8051213
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

(Continued on next page)

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	ND	0.001	0.00089	mg/L	89		SW846 7470A	02/20-02/24/98	CFDA2114
	ND	0.001	0.00081	mg/L	81	9.4	SW846 7470A	02/20-02/24/98	CFDA2115

Dilution Factor: 1
Analysis Time..: 09:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Semivolatiles

Client Lot #...:	I8B150103	**Work Order #...:**	CFDA2112-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I8B150103-001		CFDA2113-MSD		
Date Sampled...:	02/12/98 10:15	**Date Received..:**	02/14/98		
Leach Date.....:	02/16/98	**Prep Date.....:**	02/18/98	**Analysis Date..:**	02/26/98
Leach Batch #..:	P804704	**Prep Batch #...:**	8049233	**Analysis Time..:**	15:19
Dilution Factor:	1				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	**ND**	**0.40**	**0.30**	**mg/L**	**76**		**SW846 8270B**
	ND	**0.40**	**0.30**	**mg/L**	**75**	**1.8**	**SW846 8270B**
m-Cresol & p-Cresol	**ND**	**0.80**	**0.64**	**mg/L**	**80**		**SW846 8270B**
	ND	**0.80**	**0.63**	**mg/L**	**78**	**2.0**	**SW846 8270B**
1,4-Dichlorobenzene	**ND**	**0.40**	**0.23**	**mg/L**	**56**		**SW846 8270B**
	ND	**0.40**	**0.23**	**mg/L**	**57**	**1.3**	**SW846 8270B**
2,4-Dinitrotoluene	**ND**	**0.40**	**0.29**	**mg/L**	**72**		**SW846 8270B**
	ND	**0.40**	**0.31**	**mg/L**	**79**	**8.2**	**SW846 8270B**
Hexachlorobenzene	**ND**	**0.40**	**0.21**	**mg/L**	**53**		**SW846 8270B**
	ND	**0.40**	**0.22**	**mg/L**	**55**	**5.0**	**SW846 8270B**
Hexachlorobutadiene	**ND**	**0.40**	**0.23**	**mg/L**	**57**		**SW846 8270B**
	ND	**0.40**	**0.24**	**mg/L**	**59**	**3.6**	**SW846 8270B**
Hexachloroethane	**ND**	**0.40**	**0.24**	**mg/L**	**59**		**SW846 8270B**
	ND	**0.40**	**0.25**	**mg/L**	**62**	**4.0**	**SW846 8270B**
Nitrobenzene	**ND**	**0.40**	**0.28**	**mg/L**	**70**		**SW846 8270B**
	ND	**0.40**	**0.29**	**mg/L**	**73**	**4.2**	**SW846 8270B**
Pentachlorophenol	**ND**	**0.40**	**0.27**	**mg/L**	**68**		**SW846 8270B**
	ND	**0.40**	**0.28**	**mg/L**	**71**	**4.4**	**SW846 8270B**
Pyridine	**ND**	**0.40**	**0.29**	**mg/L**	**72**		**SW846 8270B**
	ND	**0.40**	**0.30**	**mg/L**	**76**	**5.0**	**SW846 8270B**
2,4,5-Trichlorophenol	**ND**	**0.40**	**0.30**	**mg/L**	**74**		**SW846 8270B**
	ND	**0.40**	**0.32**	**mg/L**	**79**	**7.0**	**SW846 8270B**
2,4,6-Trichlorophenol	**ND**	**0.40**	**0.28**	**mg/L**	**69**		**SW846 8270B**
	ND	**0.40**	**0.28**	**mg/L**	**70**	**2.0**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
	71	(21 - 100)
Phenol-d5	83	(10 - 94)
	87	(10 - 94)
Nitrobenzene-d5	67	(35 - 114)
	70	(35 - 114)
2-Fluorobiphenyl	57	(43 - 116)
	55	(43 - 116)
2,4,6-Tribromophenol	67	(10 - 123)
	71	(10 - 123)
Terphenyl-d14	64	(33 - 141)
	50	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...:	I8B150103	**Work Order #...:**	CFFV210E-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I8B200120-002		CFFV210F-MSD		
Date Sampled...:	02/19/98 10:30	**Date Received..:**	02/20/98		
Leach Date.....:	02/23/98	**Prep Date.....:**	02/27/98	**Analysis Date..:**	02/27/98
Leach Batch #..:	P805602	**Prep Batch #...:**	8062161	**Analysis Time..:**	19:00
Dilution Factor:	1				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Vinyl chloride	**ND**	**0.50**	**0.68**	**mg/L**	**136**		**SW846 8260A**
	ND	**0.50**	**0.70**	**mg/L**	**140**	**2.8**	**SW846 8260A**
1,1-Dichloroethylene	**ND**	**0.50**	**0.50**	**mg/L**	**100**		**SW846 8260A**
	ND	**0.50**	**0.55**	**mg/L**	**110**	**9.0**	**SW846 8260A**
Chloroform	**ND**	**0.50**	**0.48**	**mg/L**	**96**		**SW846 8260A**
	ND	**0.50**	**0.48**	**mg/L**	**95**	**0.20**	**SW846 8260A**
1,2-Dichloroethane	**ND**	**0.50**	**0.46**	**mg/L**	**91**		**SW846 8260A**
	ND	**0.50**	**0.47**	**mg/L**	**94**	**2.5**	**SW846 8260A**
Methyl ethyl ketone	**ND**	**0.50**	**0.13**	**mg/L**	**26**		**SW846 8260A**
	ND	**0.50**	**0.15**	**mg/L**	**30**	**14**	**SW846 8260A**
Carbon tetrachloride	**ND**	**0.50**	**0.53**	**mg/L**	**106**		**SW846 8260A**
	ND	**0.50**	**0.55**	**mg/L**	**110**	**4.0**	**SW846 8260A**
Trichloroethylene	**ND**	**0.50**	**0.52**	**mg/L**	**104**		**SW846 8260A**
	ND	**0.50**	**0.53**	**mg/L**	**106**	**2.7**	**SW846 8260A**
Benzene	**ND**	**0.50**	**0.48**	**mg/L**	**96**		**SW846 8260A**
	ND	**0.50**	**0.50**	**mg/L**	**99**	**3.2**	**SW846 8260A**
Tetrachloroethylene	**ND**	**0.50**	**0.59**	**mg/L**	**119**		**SW846 8260A**
	ND	**0.50**	**0.55**	**mg/L**	**110**	**7.8**	**SW846 8260A**
Chlorobenzene	**ND**	**0.50**	**0.52**	**mg/L**	**103**		**SW846 8260A**
	ND	**0.50**	**0.52**	**mg/L**	**105**	**1.2**	**SW846 8260A**
1,4-Dichlorobenzene	**ND**	**0.50**	**0.52**	**mg/L**	**103**		**SW846 8260A**
	ND	**0.50**	**0.53**	**mg/L**	**105**	**1.6**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	90	(86 - 115)
	93	(86 - 115)
Toluene-d8	103	(88 - 110)
	95	(88 - 110)
Dibromofluoromethane	102	(86 - 118)
	101	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide			WO#: CFD2Q10K-MS/CFD2Q10L-MSD			MS Lot-Sample #: I8B140105-001				
	ND	40	0.20	N	mg/kg	0.51		SW846 7.3.3	02/16-02/17/98	8047136
	ND	40	0.20	N	mg/kg	0.49	4.0	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1							
			Analysis Time..: 16:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA310K-MS/CFDA310L-MSD			MS Lot-Sample #: I8B150103-002				
	110	270	270	N	mg/kg	57		MCAWW 418.1	02/24-02/25/98	8055155
	110	270	200	N	mg/kg	32	29	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1							
			Analysis Time..: 13:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA510K-MS/CFDA510L-MSD			MS Lot-Sample #: I8B150103-004				
	550000	520	480000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
	550000	520	540000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1							
			Analysis Time..: 10:00							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide			WO#: CFD2Q10K-MS/CFD2Q10L-MSD			MS Lot-Sample #: I8B140105-001				
	ND	40	0.20	N	mg/kg	0.51		SW846 7.3.3	02/16-02/17/98	8047136
	ND	40	0.20	N	mg/kg	0.49	4.0	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1							
			Analysis Time..: 16:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA310K-MS/CFDA310L-MSD			MS Lot-Sample #: I8B150103-002				
	110	270	270	N	mg/kg	57		MCAWW 418.1	02/24-02/25/98	8055155
	110	270	200	N	mg/kg	32	29	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1							
			Analysis Time..: 13:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA510K-MS/CFDA510L-MSD			MS Lot-Sample #: I8B150103-004				
	550000	520	480000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
	550000	520	540000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1							
			Analysis Time..: 10:00							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8049226							
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704							
Silver	99	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210W
	101	(80 - 120)	1.4	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210X
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Arsenic	98	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA2110
	98	(80 - 120)	0.32	(0-20)	SW846 6010A	02/18-02/19/98	CFDA2111
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Barium	101	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210K
	102	(80 - 120)	1.0	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210L
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Cadmium	91	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210M
	92	(80 - 120)	1.0	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210N
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Chromium	96	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210P
	97	(80 - 120)	0.82	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210Q
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Lead	91	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210R
	92	(80 - 120)	0.70	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210T
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Selenium	90	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210U
	91	(80 - 120)	1.5	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210V
		Dilution Factor: 1					
		Analysis Time..: 14:27					
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8051213							
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704							
Mercury	89	(75 - 125)			SW846 7470A	02/20-02/24/98	CFDA2114
	81	(75 - 125)	9.4	(0-20)	SW846 7470A	02/20-02/24/98	CFDA2115
		Dilution Factor: 1					
		Analysis Time..: 09:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...:	I8B150103	Work Order #...:	CFDA2112-MS	Matrix.....:	SOLID
MS Lot-Sample #:	I8B150103-001		CFDA2113-MSD		
Date Sampled...:	02/12/98 10:15	Date Received..:	02/14/98		
Leach Date.....:	02/16/98	Prep Date.....:	02/18/98	Analysis Date..:	02/26/98
Leach Batch #..:	P804704	Prep Batch #...:	8049233	Analysis Time..:	15:19
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	**76**	**(21 - 137)**			**SW846 8270B**
	75	**(21 - 137)**	**1.8**	**(0-70)**	**SW846 8270B**
m-Cresol & p-Cresol	**80**	**(19 - 126)**			**SW846 8270B**
	78	**(19 - 126)**	**2.0**	**(0-94)**	**SW846 8270B**
1,4-Dichlorobenzene	**56**	**(26 - 112)**			**SW846 8270B**
	57	**(26 - 112)**	**1.3**	**(0-40)**	**SW846 8270B**
2,4-Dinitrotoluene	**72**	**(31 - 106)**			**SW846 8270B**
	79	**(31 - 106)**	**8.2**	**(0-55)**	**SW846 8270B**
Hexachlorobenzene	**53**	**(42 - 120)**			**SW846 8270B**
	55	**(42 - 120)**	**5.0**	**(0-39)**	**SW846 8270B**
Hexachlorobutadiene	**57**	**(33 - 111)**			**SW846 8270B**
	59	**(33 - 111)**	**3.6**	**(0-40)**	**SW846 8270B**
Hexachloroethane	**59**	**(26 - 102)**			**SW846 8270B**
	62	**(26 - 102)**	**4.0**	**(0-44)**	**SW846 8270B**
Nitrobenzene	**70**	**(42 - 120)**			**SW846 8270B**
	73	**(42 - 120)**	**4.2**	**(0-40)**	**SW846 8270B**
Pentachlorophenol	**68**	**(12 - 156)**			**SW846 8270B**
	71	**(12 - 156)**	**4.4**	**(0-76)**	**SW846 8270B**
Pyridine	**72**	**(1.0- 144)**			**SW846 8270B**
	76	**(1.0- 144)**	**5.0**	**(0-95)**	**SW846 8270B**
2,4,5-Trichlorophenol	**74**	**(29 - 123)**			**SW846 8270B**
	79	**(29 - 123)**	**7.0**	**(0-63)**	**SW846 8270B**
2,4,6-Trichlorophenol	**69**	**(19 - 122)**			**SW846 8270B**
	70	**(19 - 122)**	**2.0**	**(0-64)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
	71	(21 - 100)
Phenol-d5	83	(10 - 94)
	87	(10 - 94)
Nitrobenzene-d5	67	(35 - 114)
	70	(35 - 114)
2-Fluorobiphenyl	57	(43 - 116)
	55	(43 - 116)
2,4,6-Tribromophenol	67	(10 - 123)
	71	(10 - 123)
Terphenyl-d14	64	(33 - 141)
	50	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...:	I8B150103	**Work Order #...:**	CFFV210E-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I8B200120-002		CFFV210F-MSD		
Date Sampled...:	02/19/98 10:30	**Date Received..:**	02/20/98		
Leach Date.....:	02/23/98	**Prep Date.....:**	02/27/98	**Analysis Date..:**	02/27/98
Leach Batch #..:	P805602	**Prep Batch #...:**	8062161	**Analysis Time..:**	19:00
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	**136**	**(1.0- 251)**			**SW846 8260A**
	140	**(1.0- 251)**	**2.8**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethylene	**100**	**(59 - 155)**			**SW846 8260A**
	110	**(59 - 155)**	**9.0**	**(0-30)**	**SW846 8260A**
Chloroform	**96**	**(51 - 136)**			**SW846 8260A**
	95	**(51 - 136)**	**0.20**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**91**	**(49 - 155)**			**SW846 8260A**
	94	**(49 - 155)**	**2.5**	**(0-30)**	**SW846 8260A**
Methyl ethyl ketone	**26**	**(25 - 250)**			**SW846 8260A**
	30	**(25 - 250)**	**14**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**106**	**(71 - 240)**			**SW846 8260A**
	110	**(71 - 240)**	**4.0**	**(0-30)**	**SW846 8260A**
Trichloroethylene	**104**	**(71 - 157)**			**SW846 8260A**
	106	**(71 - 157)**	**2.7**	**(0-30)**	**SW846 8260A**
Benzene	**96**	**(37 - 151)**			**SW846 8260A**
	99	**(37 - 151)**	**3.2**	**(0-30)**	**SW846 8260A**
Tetrachloroethylene	**119**	**(46 - 157)**			**SW846 8260A**
	110	**(46 - 157)**	**7.8**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**103**	**(37 - 160)**			**SW846 8260A**
	105	**(37 - 160)**	**1.2**	**(0-30)**	**SW846 8260A**
1,4-Dichlorobenzene	**103**	**(75 - 137)**			**SW846 8260A**
	105	**(75 - 137)**	**1.6**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	90	(86 - 115)
	93	(86 - 115)
Toluene-d8	103	(88 - 110)
	95	(88 - 110)
Dibromofluoromethane	102	(86 - 118)
	101	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CFD2Q10K-MS/CFD2Q10L-MSD				MS Lot-Sample #: I8B140105-001	
	0.51 N	(1.0 - 64)			SW846 7.3.3	02/16-02/17/98	8047136
	0.49 N	(1.0 - 64)	4.0	(0-213)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA310K-MS/CFDA310L-MSD				MS Lot-Sample #: I8B150103-002	
	57 N	(70 - 130)			MCAWW 418.1	02/24-02/25/98	8055155
	32 N	(70 - 130)	29	(0-30)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1					
		Analysis Time..: 13:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA510K-MS/CFDA510L-MSD				MS Lot-Sample #: I8B150103-004	
	NC	(70 - 130)			MCAWW 418.1	03/01-03/03/98	8061186
	NC	(70 - 130)		(0-30)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1					
		Analysis Time..: 10:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CFD2Q10K-MS/CFD2Q10L-MSD				MS Lot-Sample #: I8B140105-001	
	0.51 N	(1.0 - 64)			SW846 7.3.3	02/16-02/17/98	8047136
	0.49 N	(1.0 - 64)	4.0	(0-213)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA310K-MS/CFDA310L-MSD				MS Lot-Sample #: I8B150103-002	
	57 N	(70 - 130)			MCAWW 418.1	02/24-02/25/98	8055155
	32 N	(70 - 130)	29	(0-30)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1					
		Analysis Time..: 13:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA510K-MS/CFDA510L-MSD				MS Lot-Sample #: I8B150103-004	
	NC	(70 - 130)			MCAWW 418.1	03/01-03/03/98	8061186
	NC	(70 - 130)		(0-30)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1					
		Analysis Time..: 10:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Work Order #...:** CFD2Q-SMP CFD2Q-DUP **Matrix.....:** SOLID

Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #: I8B140105-001		
	ND	ND	mg/kg	0	(0-213)	SW846 7.3.3	02/16-02/17/98	804713
			Dilution Factor: 1					
			Analysis Time..: 16:00					
Reactive Sulfide						SD Lot-Sample #: I8B140105-001		
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	02/16/98/17/98	804713
			Dilution Factor: 1					
			Analysis Time..: 00:00					

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Work Order #...:** CFD2Q-SMP CFD2Q-DUP **Matrix.....:** SOLID

Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint						SD Lot-Sample #: I8B140105-001		
	>150	>150	deg F	0.0	(0-20)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1						
		Analysis Time..: 00:00						
Corrosivity						SD Lot-Sample #: I8B140105-001		
	6.5	6.4	No Units	0.62	(0-20)	SW846 9045A	02/16/98/16/98	8047188
		Dilution Factor: 1						
		Analysis Time..: 00:00						

3

Chain of Custody Record

CHAIN OF CUSTODY NUMBER

* 0 0 0 8 7 3 - 0 0 1 *

ISB150103

Quanterra

QUA-4149 (1097)

Client	Project Manager	Date
B.J. SERVICES	Rick Johnson	02/03/1998
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**
3250 SOUTHSIDE RIVER ROAD	(505) 327-6222 / (281) 363-7595	QUANTERRA - AUSTIN
City / **State** / **Zip Code**	**Site Contact**	
FARMINGTON / NM / 87401	Rick Johnson C/O LES BAUGH	
Project Number/Name	**Carrier/Waybill Number**	
Farmington, NM		

Page 1 of 1

Contract/Purchase Order/Quote Number
CONTRACT / PURCHASE ORDER # : Farmington,NM RCRA QUOTE: 22409

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: %MOISTURE	TRPH	CN	SULFIDE	FLASH	MS8270	MS8021	MS7000	CTOTAL
~~FWT - Backfill~~	~~2/12/98~~	~~1015~~	~~SOLID~~	~~1000mL~~	~~CLEAR GL~~	~~3~~	~~None~~	GOOD 4.5°C JM	X	X	X	X	X	X	X	X	X
~~AWT - Backfill~~		~~1050~~	~~SOLID~~	~~1000mL~~	~~CLEAR GL~~	~~3~~	~~None~~		X	X	X	X	X	X	X	X	X
AWT - Solids/Sludge		1100	Solid	1000 ml	Clear GL	3	None	~~RECD~~ RECD 2/13/98	X	X	X	X	X	X	X	X	X
FWT - Sludge		1300	Sludge	500ml	Clear GL	3	None		X	X	X	X	X	X	X	X	X

Special Instructions: Include COC, Custody Seals, Blue Ice — 10 sets - 120ml & 250ml - Protocol B
2 sets - 1L -Protocol A

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☒ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
(A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☐ Normal ☐ Rush ☐ Other _____

QC Level
☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: Cam Klein	2/4/98	1800	1. Received By		
2. Relinquished By: Rick N. Johnson	2/12/98	~~1800~~ 1700	2. Received By: AIRBORNE EXPRESS		
3. Relinquished By			3. Received By	2-14-98	1005

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Roger Anderson

District I · (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II · (505) 748-1283
811 S. First
Artesia, NM 88210
District III · (505) 334-6178
1 Rio Brazos Road
Aztec, 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

RECEIVED
MAR 11 1998
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original Plus 1 Copy to appropriate District Office

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton E.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter T.B.A.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington, NM

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:

Continuation of Wash Bay Solids

TCLP & Reaffirmation Statement Attached.

RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec 3-11-98

Estimated Volume 20 cy cy Known Volume (to be entered by the operator at the end of the haul) 78 cy

SIGNATURE: [signature] TITLE: Landfarm Manager DATE: 3-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: [signature] TITLE: Geologist DATE: 3/9/98

APPROVED BY: [signature] TITLE: Env Geologist DATE: 3/11/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
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District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
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Roger Anderson

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator Halliburton E.S.
	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter T.B.A.
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MAR - 9 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec 3-11-98

Estimated Volume 20 cy cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Landfarm Manager DATE: 3-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: _____ TITLE: Geologist DATE: 3/9/98

APPROVED BY: _____ TITLE: Env Geologist DATE: 3/11/98

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District Office

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter T.B.A.
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BRIEF DESCRIPTION OF MATERIAL:

Continuation of Wash Bay Solids

TCLP & Reaffirmation Statement Attached.

RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: Landfarm Manager DATE: 3.6.98
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: [signature] TITLE: Geologist DATE: 3/9/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401 **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Solids stabilization pad East side of Main Yard Facility 4109 E. Main Street Farmington, New Mexico
4. Source and Description of Waste Continuation of wash bay solids; mud and related material generated at truck wash bay	

I, E.O. Shannon (Print Name) representative for:

_____ 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)

___ **EXEMPT** oilfield waste

xx **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
xx RCRA Hazardous Waste Analysis
xx Chain of Custody
___ Other (description):

Name (Original Signature): E.O Shannon

Title: Maint Sup V.

Date: 03-07-98

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 12-22-98

Printed Name E O Shannon

Title / Agency Maint Supt

Address 4109 E Main St

Farmington N.M.

Signature E O Shannon

Date 03-02-98

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	12-29-97
Lab ID#:	C728	Date Sampled:	12-23-97
Sample Matrix:	Solid	Date Received:	12-23-97
Preservative:	Cool	Date Analyzed:	12-23-97
Condition:	Cool & Intact	Chain of Custody:	5698

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**8.52**
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, East Main St., Farmington, NM.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	100%

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: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

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ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	01-02-98
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	100%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **Halliburton, East Main St., Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.189	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.047	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.030	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: **Halliburton, East Main St., Farmington, NM.**

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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 Composite	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Analyzed:	01-06-98
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.015**	**0.0001**	**5.00**
Barium	**1.62**	**0.001**	**100**
Cadmium	**0.001**	**0.0001**	**1.00**
Chromium	**0.006**	**0.0001**	**5.00**
Lead	**0.051**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

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

Comments: **Halliburton, East Main St., Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-02-98
Laboratory Number:	12-31-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-31-97
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	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, Sept. 1994.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-02-98
Laboratory Number:	12-23-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-31-97
Condition:	N/A	Date Extracted:	12-23-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	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, Sept. 1994.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-31-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 C728 and C748 - C751.**

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ENVIRO-CHEM LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-31-97
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	0.0502	0.0001	100%	28-163
1,1-Dichloroethene	ND	0.050	0.0491	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0489	0.0001	98%	47-132
Chloroform	ND	0.050	0.0489	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.050	0.0493	0.0001	99%	43-143
Benzene	ND	0.050	0.0498	0.0001	96%	39-150
1,2-Dichloroethane	ND	0.050	0.0497	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0492	0.0003	98%	35-146
Tetrachloroethene	ND	0.050	0.0482	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0487	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0510	0.0002	101%	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 C728 and C748 - C751.

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ENVIRO-TECH 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:	01-02-98
Laboratory Number:	01-02-TCA.BLNK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	101 %
	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. 19

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENVIROTECH 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:	01-02-98
Laboratory Number:	12-23-TCA.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Date Analyzed:	01-02-98
		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	101%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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ENVIROTECH LABS

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:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-02-98
		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, 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 C728 and C748 - C751.**

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ENVIROTECH 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:	01-02-98
Laboratory Number:	12-31-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:	12-31-97
		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 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: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENVIROTECH 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:	Method Blank	Date Reported:	01-02-98
Laboratory Number:	12-23-TBN.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool and Intact	Date Analyzed:	12-31-97
		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	**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: **QA/QC for samples C728 and C748 - C751.**

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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:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-31-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.189	0.192	1.7%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	0.047	0.049	5.4%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	0.030	0.031	2.4%	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, 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: **QA/QC for samples C728 and C748 - C751.**

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THOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-06-98
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.0001
Barium	ND	ND	0.001
Cadmium	ND	ND	0.0001
Chromium	ND	ND	0.0001
Lead	ND	ND	0.0001
Mercury	ND	ND	0.0001
Selenium	ND	ND	0.0001
Silver	ND	ND	0.0001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	12-23-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	0.015	0.015	0.0%
Barium	1.62	1.62	0.0%
Cadmium	0.001	0.001	0.0%
Chromium	0.006	0.006	0.0%
Lead	0.051	0.051	0.0%
Mercury	ND	ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	30 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	12-23-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	0.100	0.015	0.114	99%
Barium	1.00	1.62	2.62	100%
Cadmium	0.050	0.001	0.051	100%
Chromium	0.050	0.006	0.056	100%
Lead	0.100	0.051	0.151	100%
Mercury	0.025	ND	0.025	100%
Selenium	0.100	ND	0.100	100%
Silver	0.050	ND	0.050	100%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

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5698

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
HALIBURTON	HALIBURTON EAST MAIN ST. FARMINGTON, N.M.	
Sampler: (Signature) Marvin D. Young	Chain of Custody Tape No. 92132	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o H&P						Remarks
WASH BAY Composite	12/23/97	7:27	C728	Solid	1	✓						
					Sample received cool & intact							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marvin Young	12/23/97	8:05	[signature]	7-23-97	0805
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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
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District Office

Env JN: 97078-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ 3-2-98 Denny Foust Verbal Approval Received: Yes ☒ No ☐	4. Generator NTUA 5. Originating Site Montezuma Creek Gas Sweetening Plt.
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter Garcia Septic
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State UT (NW NAT) → NM.
7. Location of Material (Street Address or ULSTR)	SW4, Sec 30, T40S, R24E San Juan County, Ut. Navajo Nation

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:

Continuation of Hydrocarbon Contaminated water & sulfur sludge.

RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 966l. cy Known Volume (to be entered by the operator at the end of the haul) 966l.s cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 3-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/9/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 3/10/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Navajo Tribal Utility Authority Box 1206 Shiprock, New Mexico 87420	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): N.T.U.A. Gas Sweetening Facility Montezuma Creek, Utah **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** SW 4, Sec. 32, T40S, R24E, San Juan country, Ut. Navajo Nation
4. Source and Description of Waste N.T.U.A. Gas Sweetening Facility Hydrocarbon contaminated water and Sulfur Sludge	

I, Abe Balchinclowing (Print Name) representative for:

Navajo Tribal Utility Authority 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):

- ✓ MSDS Information
- __ RCRA Hazardous Waste Analysis
- __ Chain of Custody
- __ Other (description):

Name (Original Signature): Abe Balchinclowing

Title: Gas Foreman

Date: 3-06-98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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1000 Rio Brazos Road
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New Mexico
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Oil Conservation Division
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ 2.23.98 DF Verbal. P.M Verbal Approval Received: Yes ☐ No ☐	4. Generator Burlington Resources
	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter E.V. Trucking
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 14, T29N, R 11W, SJC, NM PM

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:

Soil contaminated w/ Amine & water mixture.
(cleanup of bar ditch @ Plant entrance).

RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 36 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 3.6.98
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/9/98

APPROVED BY: Chris Eustice TITLE: Geologist DATE: 3/10/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BURLINGTON RESOURCES 3535 EAST 30th STREET FARMINGTON, NM 87402	Envirotech Landfarm (ESRF) Hilltop, New Mexico
3. Originating Site (name): Val Verde Plant Attach list of originating sites as appropriate.	Location of the Waste (Street address &/or ULSTR): Section 14, Township 29N, Range 11W
4. Source and Description of Waste: Excavated soil from amine water mixture release that occurred 2/18/98.	

I, Jeff Schoenbacher representative for:

BURLINGTON RESOURCES 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

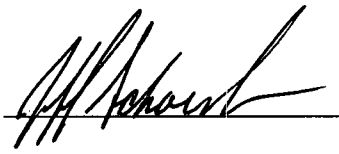
NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

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):

MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody

Other (description):

Name (Original Signature): 

Title: STAFF ENVIRONMENTAL REPRESENTATIVE

Date: 2/23/98

District I - (505) 393-6161
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1 Rio Brazos Road
...c, NM 87410
District IV - (505) 827-7131

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Energy Minerals and Natural Resources Department
Oil Conservation Division
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Donna Foust 2.13.98 10:20 A.M.	4. Generator Navajo Tribal Utility Authority
	5. Originating Site Gas Sweetening Plt. Montezuma Creek
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter Garcia Septic
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Utah/Navajo Nat → NM.
7. Location of Material (Street Address or ULSTR)	SW 4, Sec 32, T 40 S, R 24 E, SJC., UT. Navajo Nation

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:

Hydrocarbon Contaminated and Sulfur sludge from gas sweetening plant @ Montezuma Creek Utah

RECEIVED
FEB 23 1998
OIL CON. DIV.
DIST. 3

9661

Estimated Volume 9 bbl. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 2.20.98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny B. Foust TITLE: Geologist DATE: 2/24/98

APPROVED BY: Chris Eustice TITLE: Geologist DATE: 2/24/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
NAVAJO TRIBAL Utility Authority Box 1206 Shiprock, New Mexico	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): NTUA Gas Sweetening Facility Montezuma Creek, Utah Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** SW4, Sec. 32, T40S, R24E, San Juan County, UT. Navajo Nation
4. Source and Description of Waste NTUA Gas Sweetening Facility Hydrocarbon contaminated water and sulfur sludge.	

I, Abe Balchinclowing (Print Name) representative for:

Navajo Tribal Utility Authority 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):

- ✓ MSDS Information
- ___ RCRA Hazardous Waste Analysis
- ___ Chain of Custody
- ___ Other (description):

Name (Original Signature): Abe Balchinclowing

Title: Gas Foreman

Date: 2-13-98

THE NAVAJO NATION

ALBERT A. HALE
PRESIDENT

THOMAS E. ATCITTY
VICE PRESIDENT

December 16, 1997

Mr. Malcolm Dalton, General Manager
Navajo Tribal Utility Authority
P.O. Box 170
Fort Defiance, Arizona 86504

Dear Mr. Dalton:

The Navajo Nation Environmental Protection Agency has reviewed your request to contract with Envirotech to remove non-hazardous waste from the NTUA gas sweetening facility in Montezuma Creek, Utah. NNEPA hereby approves the request with the following conditions:

- Envirotech will dispose of the non-hazardous waste (water and sulfur solution) at the New Mexico Oil Conservation Division land farm in Hilltop, New Mexico.

- The NTUA gas sweetening facility in Montezuma Creek, Utah shall maintain records regarding the volumes of the waste transferred to Envirotech for final disposal and the dates waste is transported from the facility. NNEPA may request to review these records at any time.

- Envirotech shall maintain records of disposal in the event NNEPA requests documentation of disposal.

If you have any questions, please contact Ms. Gloria Notah, NNEPA-Resource Conservation & Recovery Program, at (520) 871-7751.

Sincerely,

Bennie Cohoe, Executive Director
Navajo Nation Environmental Protection Agency

xc: Harlan Brown, Envirotech, Inc., Farmington, NM
Gloria Notah, NNEPA-RCRP

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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...c, NM 87410
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New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division

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Santa Fe, New Mexico 87505
(505) 827-7131

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☑ Non-Exempt: ☐ Verbal Approval Received: Yes ☑ No ☐ Denny Foust Verbal 2.5.98 14:10	4. Generator ROBERT L. BAYLESS
	5. Originating Site Northridge #2
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Bayless
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	SW4 NW4 Sec 3 T29N, R13W San Juan County, NM P.M.

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:

Rusty Sand From a produced water tank

RECEIVED
FEB 23 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 6 drums cy Known Volume (to be entered by the operator at the end of the haul) 6 drums cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 2.20.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/24/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 2/24/98

RECEIVED JAN 11 1998 ENVIRONMENTAL DIV

D.F verbal Approval 2.5.98 14:10

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
ROBERT L. BAYLESS PO BOX 168 FARMINGTON, NM 87499	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): NORTHRIDGE #2 LEASE # SF078643 Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** SW4 NW4 Sec 3, T29N, R13W, SJC, NMPM.
4. Source and Description of Waste RUSTY SAND from a produced water tank.	

I, TOM MCCARTHY (Print Name) representative for:
ROBERT L. BAYLESS 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):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Tom McCarthy

Title: PETROLEUM ENGINEER

Date: 2/5/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
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District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division

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Santa Fe, New Mexico 87505
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Env JN: 97078-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ (Donny Foust Verbal 2.4.98 7:25 A.M.)	4. Generator Navajo Tribal Utility Authority
	5. Originating Site Montezuma Creek Gas Sweetning Plant.
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Garcia Septic
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Utah (Navajo Nat.) ⇒ N.M.
7. Location of Material (Street Address or ULSTR)	SW4, Sec 32, T40S, R24E San Juan County, Utah.

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:

Continuation of sludge/water from gas sweetening operation.
NNEPA Approval Attached.

RECEIVED
FEB - 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 9661 cy Known Volume (to be entered by the operator at the end of the haul) 9665 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 2-9-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/9/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 2/13/98

Verbal D.F.
2.4.98
7:25 A.M.

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Navajo Tribal Utility Authority Box 1206 Shiprock, New Mexico 87420	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Montezuma Creek Hydrogen Sulfide Gas Treating Facility South of Elkhorn operating Company, Montezuma Creek, Utah Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste used (spent) up waste Solution #136 Gas Treatment and water waste	

I, Abe Balchinclowing (Print Name) representative for:
Navajo Tribal Utility Authority 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):

- ✓ MSDS Information
- ___ RCRA Hazardous Waste Analysis
- ___ Chain of Custody
- ___ Other (description):

Name (Original Signature): Abe Balchinclowing

Title: Gas Foreman

Date: 2-02-98

THE NAVAJO NATION

ALBERT A. HALE
PRESIDENT

THOMAS E. ATCITTY
VICE PRESIDENT

December 16, 1997

Mr. Malcolm Dalton, General Manager
Navajo Tribal Utility Authority
P.O. Box 170
Fort Defiance, Arizona 86504

Dear Mr. Dalton:

The Navajo Nation Environmental Protection Agency has reviewed your request to contract with Envirotech to remove non-hazardous waste from the NTUA gas sweetening facility in Montezuma Creek, Utah. NNEPA hereby approves the request with the following conditions:

- Envirotech will dispose of the non-hazardous waste (water and sulfur solution) at the New Mexico Oil Conservation Division land farm in Hilltop, New Mexico.

- The NTUA gas sweetening facility in Montezuma Creek, Utah shall maintain records regarding the volumes of the waste transferred to Envirotech for final disposal and the dates waste is transported from the facility. NNEPA may request to review these records at any time.

- Envirotech shall maintain records of disposal in the event NNEPA requests documentation of disposal.

If you have any questions, please contact Ms. Gloria Notah, NNEPA-Resource Conservation & Recovery Program, at (520) 871-7751.

Sincerely,

Bennie Cohoe, Executive Director
Navajo Nation Environmental Protection Agency

xc: Harlan Brown, Envirotech, Inc., Farmington, NM
Gloria Notah, NNEPA-RCRP

District I - (505) 393-6161
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[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division

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Env JN: 96003-31

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator E.P.F.S.
	5. Originating Site Chaco Plant.
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Dawn Trucking
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SW4, Sec 16, T26N, R12W, SJC, NMPM.

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:

Sludge from CONTACT WASTE WATER PONDS (natural gas processing plant waste)

TCLP ATTACHED

Never Hauled

RECEIVED
FEB - 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 100 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 2-9-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/9/98

APPROVED BY: Martyne J. Kelly TITLE: Env Geologist DATE: 2/11/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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 1 Copy to appropriate District Office

Env JN: 96003-31

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Chaco Plant.
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7. Location of Material (Street Address or ULSTR)	SW4, Sec 16, T26N, R12W, SJC, NMPM.

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TCLP ATTACHED

RECEIVED
FEB - 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 100 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 2-9-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/9/98

APPROVED BY: _____ TITLE: _____ DATE: _____

RECEIVED FEB 6 1998

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): Chaco Plant Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): SW/4, Section 16, T26N, R12W, San Juan County, NM
4. Source and Description of Waste Sludge from contact waste water ponds (natural gas processing plant waste)	

I, David Bays 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)

____ **EXEMPT** Oilfield waste

__X__ **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
__X__ RCRA Hazardous Waste Analysis
____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: Feb. 4, 1998

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 12, 1998

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

Project No.: 97057

Dear Mr. Lambdin,

Enclosed are the analytical results for the sample collected from the location designated as "Chaco Plant - 'Dawn' Frac Tank". One soil sample identified as EPFS No. 980000 was collected by EPFS personnel on December 31, 1997, and received by the Envirotech laboratory on January 2, 1998 for Hazardous Waste Characterization analysis (Volatiles, Semi-volatiles, Metals, Ignitability, Reactivity and Corrosivity).

The sample was documented on Envirotech Chain of Custody No. 4084 and assigned Laboratory No. C773 (EPFS No. 980000) for tracking purposes.

Results of the analysis indicate that the material contained in the sample from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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.

Stacy W Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws 97057lb2.wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	El Paso Field Service	Project #:	97057
Sample ID:	980000	Date Reported:	01-08-98
Lab ID#:	C773	Date Sampled:	12-31-97
Sample Matrix:	Sludge	Date Received:	01-02-98
Preservative:	Cool	Date Analyzed:	01-06-98
Condition:	Cool & Intact	Chain of Custody:	4084

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**5.59**
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:	**Chaco Plant, "Dawn" Frac Tank.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Service	Project #:	97057
Sample ID:	980000	Date Reported:	01-08-98
Laboratory Number:	C773	Date Sampled:	12-31-97
Chain of Custody:	4084	Date Received:	01-02-98
Sample Matrix:	Sludge	Date Extracted:	01-06-98
Preservative:	Cool	Date Analyzed:	01-07-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0251	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	96%
	Bromofluorobenzene	100%

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: **Chaco Plant, "Dawn" Frac Tank.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	El Paso Field Service	Project #:	97057
Sample ID:	980000	Date Reported:	01-09-98
Laboratory Number:	C773	Date Sampled:	12-31-97
Chain of Custody:	4084	Date Received:	01-02-98
Sample Matrix:	Sludge	Date Extracted:	01-06-98
Preservative:	Cool	Date Analyzed:	01-09-98
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	99%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **Chaco Plant, "Dawn" Frac Tank.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	El Paso Field Service	Project #:	97057
Sample ID:	980000	Date Reported:	01-09-98
Laboratory Number:	C773	Date Sampled:	12-31-97
Chain of Custody:	4084	Date Received:	01-02-98
Sample Matrix:	Sludge	Date Extracted:	01-06-98
Preservative:	Cool	Date Analyzed:	01-08-98
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**0.215**	**0.020**	**5.0**
Hexachloroethane	**ND**	**0.020**	**3.0**
Nitrobenzene	**0.113**	**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, 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, "Dawn" Frac Tank.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	El Paso Field Service	Project #:	97057
Sample ID:	980000	Date Reported:	01-09-98
Laboratory Number:	C773	Date Sampled:	12-31-97
Chain of Custody:	4084	Date Received:	01-02-98
Sample Matrix:	Sludge	Date Analyzed:	01-09-98
Preservative:	Cool	Date Extracted:	01-06-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.003**	**0.0001**	**5.00**
Barium	**1.19**	**0.001**	**100**
Cadmium	**ND**	**0.0001**	**1.00**
Chromium	**0.008**	**0.0001**	**5.00**
Lead	**0.028**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

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

Comments: **Chaco Plant, "Dawn" Frac Tank.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIRO-TECH 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:	01-08-98
Laboratory Number:	01-07-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	96%
	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: **QA/QC for samples C773 and C780 - C781.**

Analyst

Review

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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:	Method Blank	Date Reported:	01-08-98
Laboratory Number:	01-06-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-98
Condition:	N/A	Date Extracted:	01-06-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	97%
	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, Sept. 1994.

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

Comments: **QA/QC for samples C773 and C780 - C781.**

Analyst

Review

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ENVIRO-TECH 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 Duplicate	Date Reported:	01-08-98
Laboratory Number:	C780	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-07-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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	0.0058	0.0058	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 C773 and C780 - C781.**

Analyst

Review

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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:	Matrix Spike	Date Reported:	01-08-98
Laboratory Number:	C780	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-07-98
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	0.0504	0.0001	101%	28-163
1,1-Dichloroethene	ND	0.050	0.0497	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0499	0.0001	100%	47-132
Chloroform	ND	0.050	0.0483	0.0001	97%	49-133
Carbon Tetrachloride	ND	0.050	0.0490	0.0001	98%	43-143
Benzene	0.0058	0.050	0.0552	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0488	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0493	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0489	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0492	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0483	0.0002	97%	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 C773 and C780 - C781.**

Analyst

Review

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ENVIROTECH 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:	01-09-98
Laboratory Number:	01-09-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-09-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	2,4,6-tribromophenol	98 %

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. 19

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

Comments: **QA/QC for samples C773 and C780 - C781.**

Analyst

Review

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ENVIROTECH 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:	01-09-98
Laboratory Number:	01-06-TCA.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-06-98
Condition:	Cool & Intact	Date Analyzed:	01-09-98
		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	101%
	2,4,6-Tribromophenol	97%

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. 19

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

Comments: **QA/QC for samples C773 and C780 - C781.**

Analyst

Review

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ENVIROTECH LABS

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:	01-09-98
Laboratory Number:	C780	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-09-98
		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, 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 C773 and C780 - C781.**

Analyst

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ENVIROTECH 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:	01-09-98
Laboratory Number:	01-08-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:	01-08-98
		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	**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: **QA/QC for samples C773 and C780 - C781.**

Analyst

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ENVIRO-TECH 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:	Method Blank	Date Reported:	01-09-98
Laboratory Number:	01-06-TBN.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-06-98
Condition:	Cool and Intact	Date Analyzed:	01-08-98
		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, 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: **QA/QC for samples C773 and C780 - C781.**

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:	01-09-98
Laboratory Number:	C780	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-08-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for samples C773 and C780 - C781.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-09-98
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-09-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.0001**
Barium	**ND**	**ND**	**0.001**
Cadmium	**ND**	**ND**	**0.0001**
Chromium	**ND**	**ND**	**0.0001**
Lead	**ND**	**ND**	**0.0001**
Mercury	**ND**	**ND**	**0.0001**
Selenium	**ND**	**ND**	**0.0001**
Silver	**ND**	**ND**	**0.0001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C773 and C780 - C781.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-09-98
Laboratory Number:	C780	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-09-98
Condition:	N/A	Date Extracted:	01-06-98

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.022**	**0.122**	**100%**
Barium	**1.00**	**5.58**	**6.59**	**100%**
Cadmium	**0.050**	**0.060**	**0.110**	**100%**
Chromium	**0.050**	**0.029**	**0.079**	**100%**
Lead	**0.100**	**0.349**	**0.448**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**0.012**	**0.112**	**100%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C773 and C780 - C781.**

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4084

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
EL PASO FIELD SERVICE JOHN LAMBDIN	CHACO PLANT	
Sampler: (Signature) Bill D. Heath	Chain of Custody Tape No. ~~[illegible]~~ 96003-31	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	T.C.L.P. METALS	T.C.L.P. ORGANICS	REACTIVITY	IGNITABILITY	CORROSIVITY		Remarks
980000	12-31-97	1055	C773	SLUDGE	1	✓	✓	✓	✓	✓		"DAWN" FRAC TANK
												—
					Sample received cool & intact							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Bill D. Heath	1-2-98	0800	Rhonda L. Ogden	1-2-98	0800
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

San Juan Repro Form 570-81

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P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, NM 87410
District IV - (505) 827-7131

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JAN 2 9 1998
OIL CON. DIV.
DIST. 3

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 1 Copy
to appropriate
District Office

Env JN: 96003-33

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Donna Faust 1.27.98 11:10 A.M.	4. Generator EPFS.
	5. Originating Site Kutz Plant
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter IMI
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"N", Sec 15, T29N, R12W

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:

glycol foaming in dehydrator overflowed out vent stack to gravel & soil

1.27.98	10934	LFZ UNITS	J-11	10 cy
1.28.98	10951	LFZ UNITS	J-11	10 cy
1.28.98	10952	LFZ UNIT	J-11	5 cy.

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OIL CON. DIV.
DIST. 3

Estimated Volume 5 cy Known Volume (to be entered by the operator at the end of the haul) 25 cy cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 1.29.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Faust TITLE: Geologist DATE: 1/30/98

APPROVED BY: Ernie Busch TITLE: Geo DATE: 2/2/98

RECEIVED JAN 28 1998

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services 614 Reilly Avenue 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):**
Kutz Plant	Unit-N-Sec.15 T29 R12W
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Foaming in the dehydrator caused glycol to overflow out the vent stack.	

I, Sandra D. Miller representative for:
(Print Name)
El Paso Field Services 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):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Sandra D Miller

Title: Manager, Environmental Health & Safety

Date: 1/27/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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

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JAN 27 1998
Environmental Bureau
Oil Conservation Division

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Originated 8/8/95

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to appropriate
District Office

Env JN: 12152

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☐ Verbal Approval Received: Yes ☐ No ☐	4. Generator Halliburton Energy
	5. Originating Site Main Yard Wash Bay
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4108 E. Main St. Farmington NM

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:

Continuation of Wash Bay Solids
Reconfirmation Sidewall
&
TCLP Attached.

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JAN 26 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) 20 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 1-26-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/26/98

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 1/27/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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
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District Office

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☐	4. Generator Halliburton Energy
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Main Yard Wash Bay.
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington NM

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:

Continuation of Wash Bay Solids
Reaffirmation Statement
&
TCLP ATTACHED.

RECEIVED
JAN 26 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management FacilityAuthorized Agent TITLE: Landfarm Manager DATE: 1-26-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/26/98

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 12-23-97

Printed Name ED SHANNON

Title / Agency MAINT SUPERV

Address 4109 EAST MAIN, FARMINGTON N.M

Signature Ed Shannon

Date 1-23-1998

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401 **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Solids stabilization pad East side of Main Yard Facility 4109 E. Main Street Farmington, New Mexico
4. Source and Description of Waste Continuation of wash bay solids; mud and related material generated at truck wash bay	

I, E.O. SHANNON (Print Name) representative for:

_____ 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)

___ **EXEMPT** oilfield waste

xx **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
xx RCRA Hazardous Waste Analysis
xx Chain of Custody
___ Other (description):

Name (Original Signature): E.O. Shannon

Title: MAINT SUPER K

Date: 01-23-1998

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401 Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Solids stabilization pad East side of Main Yard Facility 4109 E. Main Street Farmington, New Mexico
4. Source and Description of Waste Continuation of wash bay solids; mud and related material generated at truck wash bay	

I, E.O. Shannon (Print Name) representative for: Halliburton Eng Services 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)

___ **EXEMPT** oilfield waste

xx **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
xx RCRA Hazardous Waste Analysis
xx Chain of Custody
___ Other (description):

Name (Original Signature): E.O. Shannon

Title: Maint Supervisor

Date: 1-8-98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 7, 1998

Mr. Rick Greenacre
Halliburton Energy Services, Inc.
4109 East Main Street
Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Greenacre,

Enclosed are the analytical results for the sample collected from the wash bay located at the Halliburton facility on East Main St. in Farmington, New Mexico. One composite sample of wash bay solids was collected by Envirotech personnel on December 23, 1997, and delivered to the Envirotech laboratory on December 23, 1997 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 5698 and assigned Laboratory No. C728 for tracking purposes. The sample was analyzed 12/23/97 through 01/06/98 using USEPA or equivalent methods.

Results of the analysis indicate that the material contained in the sample from the referenced location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tclp1298.lb3

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	12-29-97
Lab ID#:	C728	Date Sampled:	12-23-97
Sample Matrix:	Soild	Date Received:	12-23-97
Preservative:	Cool	Date Analyzed:	12-23-97
Condition:	Cool & Intact	Chain of Custody:	5698

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**8.52**
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, East Main St., Farmington, NM.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	100%

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: **Halliburton, East Main St., Farmington, NM.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	01-02-98
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	100%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **Halliburton, East Main St., Farmington, NM.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.189	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.047	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.030	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: **Halliburton, East Main St., Farmington, NM.**

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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 Composite	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Analyzed:	01-06-98
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.015	0.0001	5.00
Barium	1.62	0.001	100
Cadmium	0.001	0.0001	1.00
Chromium	0.006	0.0001	5.00
Lead	0.051	0.0001	5.00
Mercury	ND	0.0001	0.200
Selenium	ND	0.0001	1.00
Silver	ND	0.0001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

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

Comments: **Halliburton, East Main St., Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIRO-TECH 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:	01-02-98
Laboratory Number:	12-31-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-31-97
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	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, Sept. 1994.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-02-98
Laboratory Number:	12-23-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-31-97
Condition:	N/A	Date Extracted:	12-23-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	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, Sept. 1994.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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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:	Matrix Duplicate	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-31-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 C728 and C748 - C751.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA ETHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-31-97
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	0.0502	0.0001	100%	28-163
1,1-Dichloroethene	ND	0.050	0.0491	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0489	0.0001	98%	47-132
Chloroform	ND	0.050	0.0489	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.050	0.0493	0.0001	99%	43-143
Benzene	ND	0.050	0.0498	0.0001	96%	39-150
1,2-Dichloroethane	ND	0.050	0.0497	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0492	0.0003	98%	35-146
Tetrachloroethene	ND	0.050	0.0482	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0487	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0510	0.0002	101%	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 C728 and C748 - C751.**

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ENVIROTECH 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:	01-02-98
Laboratory Number:	01-02-TCA.BLNK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	101 %
	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. 19

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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ENVIROTECH 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:	01-02-98
Laboratory Number:	12-23-TCA.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Date Analyzed:	01-02-98
		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	101%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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ENVIROTECH LABS

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:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-02-98
		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, 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 C728 and C748 - C751.**

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ENVIROTECH 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:	01-02-98
Laboratory Number:	12-31-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:	12-31-97
		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 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: **QA/QC for samples C728 and C748 - C751.**

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ENVIROTECH 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:	Method Blank	Date Reported:	01-02-98
Laboratory Number:	12-23-TBN.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool and Intact	Date Analyzed:	12-31-97
		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	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: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

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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:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-31-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.189	0.192	1.7%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	0.047	0.049	5.4%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	0.030	0.031	2.4%	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, 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: **QA/QC for samples C728 and C748 - C751.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-06-98
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Con ɔn:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.0001
Barium	ND	ND	0.001
Cadmium	ND	ND	0.0001
Chromium	ND	ND	0.0001
Lead	ND	ND	0.0001
Mercury	ND	ND	0.0001
Selenium	ND	ND	0.0001
Silver	ND	ND	0.0001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	12-23-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.015**	**0.015**	**0.0%**
Barium	**1.62**	**1.62**	**0.0%**
Cadmium	**0.001**	**0.001**	**0.0%**
Chromium	**0.006**	**0.006**	**0.0%**
Lead	**0.051**	**0.051**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	12-23-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.015**	**0.114**	**99%**
Barium	**1.00**	**1.62**	**2.62**	**100%**
Cadmium	**0.050**	**0.001**	**0.051**	**100%**
Chromium	**0.050**	**0.006**	**0.056**	**100%**
Lead	**0.100**	**0.051**	**0.151**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.100**	**100%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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5698

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
HALIBURTON	HALIBURTON EAST MAIN ST. FARMINGTON, N.M.	
Sampler: (Signature) Marvin D. Young	Chain of Custody Tape No. 92132	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP W/O H&P						Remarks
WASH BAY Composite	12/23/97	7:27	C728	Solid	1	✓						
					Sample received cool & intact							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marvin D Young	12/23/97	8:05	Dennis L. Ogburn	7-23-97	0805
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

envirotech memo/fax

to: MARTYNE KIELING

company: NMOCD

fax #: 505-827-8177

re: HALLIBURTON ENERGY SERVICES

date: 1-15-98

pages: 8 (including cover sheet)

project: TCLP - WASH BAY SOLIDS

cc:

comments... MARTYNE:

DENNY RECEIVED PACKET IN AZTEC 1-9-98

QA/QC & CoC COMING with DISTRICT III SUBMITTAL

THANKS

Harlan

from the desk of.... HARLAN M. 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

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P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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

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JAN 21 1998
Environmental Bureau
Oil Conservation Division
Env JN: T2130

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: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator HALLIBURTON ENERGY SERVICES
	5. Originating Site MAIN YARD
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington, New Mexico

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:

CONTINUATION of Wash bay Solids

New TCLP ATTACHED

RECEIVED
JAN 08 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 40-60 cy cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 1-8-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Henry G. Font TITLE: Geologist DATE: 1/9/98

APPROVED BY: Martyn J. Kirby TITLE: Env Geologist DATE: 1/14/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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 1 Copy to appropriate District Office

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON ENERGY SERVICES
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac, Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington, New Mexico

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:

Continuation of Wash bay solids

New TCLP ATTACHED

RECEIVED
JAN 08 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 40-60 cy cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management FacilityAuthorized Agent TITLE: Landfarm Manager DATE: 1-8-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/9/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401 *Attach list of originating sites as appropriate*	**Location of the Waste (Street address &/or ULSTR):** Solids stabilization pad East side of Main Yard Facility 4109 E. Main Street Farmington, New Mexico
4. Source and Description of Waste Continuation of wash bay solids; mud and related material generated at truck wash bay	

I, E.O. Shannon (Print Name) representative for: Halliburton Eng Services 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)

___ **EXEMPT** oilfield waste

xx **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
xx RCRA Hazardous Waste Analysis
xx Chain of Custody
___ Other (description):

Name (Original Signature): E.O. Shannon

Title: maint Supervisor

Date: 1-9-98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 7, 1998

Mr. Rick Greenacre
Halliburton Energy Services, Inc.
4109 East Main Street
Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Greenacre,

Enclosed are the analytical results for the sample collected from the wash bay located at the Halliburton facility on East Main St. in Farmington, New Mexico. One composite sample of wash bay solids was collected by Envirotech personnel on December 23, 1997, and delivered to the Envirotech laboratory on December 23, 1997 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 5698 and assigned Laboratory No. C728 for tracking purposes. The sample was analyzed 12/23/97 through 01/06/98 using USEPA or equivalent methods.

Results of the analysis indicate that the material contained in the sample from the referenced location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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

enc.

SWS/sws

92132/tclp1298.lb3

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	12-29-97
Lab ID#:	C728	Date Sampled:	12-23-97
Sample Matrix:	Soild	Date Received:	12-23-97
Preservative:	Cool	Date Analyzed:	12-23-97
Condition:	Cool & Intact	Chain of Custody:	5698

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**8.52**
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, East Main St., Farmington, NM.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	100%

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: **Halliburton, East Main St., Farmington, NM.**

Analyst

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ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	01-02-98
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	100%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**0.189**	**0.020**	**5.0**
Hexachloroethane	**ND**	**0.020**	**3.0**
Nitrobenzene	**0.047**	**0.020**	**2.0**
Hexachlorobutadiene	**ND**	**0.020**	**0.5**
2,4-Dinitrotoluene	**0.030**	**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: **Halliburton, East Main St., Farmington, NM.**

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ENVIRO-TECH 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 Composite	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Analyzed:	01-06-98
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.015**	**0.0001**	**5.00**
Barium	**1.62**	**0.001**	**100**
Cadmium	**0.001**	**0.0001**	**1.00**
Chromium	**0.006**	**0.0001**	**5.00**
Lead	**0.051**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

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

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	01-02-98
Laboratory Number:	12-31-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-31-97
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	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, Sept. 1994.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-02-98
Laboratory Number:	12-23-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-31-97
Condition:	N/A	Date Extracted:	12-23-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	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, Sept. 1994.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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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:	Matrix Duplicate	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-31-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 C728 and C748 - C751.**

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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:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-31-97
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	0.0502	0.0001	100%	28-163
1,1-Dichloroethene	ND	0.050	0.0491	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0489	0.0001	98%	47-132
Chloroform	ND	0.050	0.0489	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.050	0.0493	0.0001	99%	43-143
Benzene	ND	0.050	0.0498	0.0001	96%	39-150
1,2-Dichloroethane	ND	0.050	0.0497	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0492	0.0003	98%	35-146
Tetrachloroethene	ND	0.050	0.0482	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0487	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0510	0.0002	101%	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 C728 and C748 - C751.**

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ENVIROTECH 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:	01-02-98
Laboratory Number:	01-02-TCA.BLNK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	101 %
	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. 19

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENVIROTECH 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:	01-02-98
Laboratory Number:	12-23-TCA.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Date Analyzed:	01-02-98
		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	101%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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ENVIROTECH LABS

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:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-02-98
		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, 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 C728 and C748 - C751.**

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ENVIROTECH 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:	01-02-98
Laboratory Number:	12-31-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:	12-31-97
		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 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: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENVIROTECH 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:	Method Blank	Date Reported:	01-02-98
Laboratory Number:	12-23-TBN.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool and Intact	Date Analyzed:	12-31-97
		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	**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: **QA/QC for samples C728 and C748 - C751.**

Analyst

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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:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-31-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	**0.189**	**0.192**	**1.7%**	**0.020**
Hexachloroethane	**ND**	**ND**	**0.0%**	**0.020**
Nitrobenzene	**0.047**	**0.049**	**5.4%**	**0.020**
Hexachlorobutadiene	**ND**	**ND**	**0.0%**	**0.020**
2,4-Dinitrotoluene	**0.030**	**0.031**	**2.4%**	**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, 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: **QA/QC for samples C728 and C748 - C751.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-06-98
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.0001**
Barium	**ND**	**ND**	**0.001**
Cadmium	**ND**	**ND**	**0.0001**
Chromium	**ND**	**ND**	**0.0001**
Lead	**ND**	**ND**	**0.0001**
Mercury	**ND**	**ND**	**0.0001**
Selenium	**ND**	**ND**	**0.0001**
Silver	**ND**	**ND**	**0.0001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	12-23-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.015**	**0.015**	**0.0%**
Barium	**1.62**	**1.62**	**0.0%**
Cadmium	**0.001**	**0.001**	**0.0%**
Chromium	**0.006**	**0.006**	**0.0%**
Lead	**0.051**	**0.051**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	12-23-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.015**	**0.114**	**99%**
Barium	**1.00**	**1.62**	**2.62**	**100%**
Cadmium	**0.050**	**0.001**	**0.051**	**100%**
Chromium	**0.050**	**0.006**	**0.056**	**100%**
Lead	**0.100**	**0.051**	**0.151**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.100**	**100%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
HALIBURTON	HALIBURTON EAST MAIN ST. FARMINGTON, N.M.	
Sampler: (Signature) Marvin D. Young	Chain of Custody Tape No. 92132	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP W/O H&P						Remarks
WASH BAY Composite	12/23/97	7:27	C728	Solid	1	✓						
					Sample received cool & intact							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marvin D Young	12/23/97	8:05	Debra L. Alexander	7-23-97	0805
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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

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District Office

Env JN: 96003-31

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ Denny Foust 1.16.98 15:15	4. Generator EPFS
	5. Originating Site Kutz Separator
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter EPNG.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SZ, Sec 11, T19N, R11W, SJC, NM

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:

Soils from cleanup of natural gas hydrocarbon condensate spill (produced liquids

1.20.98
B.O.L. 10946 LFZ UNITS N.12 10cy.

RECEIVED
JAN 22 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 10. cy Known Volume (to be entered by the operator at the end of the haul) 10 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 1.22.98
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/23/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

RECEIVED JAN 2 1 1998

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): Kutz Separator Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): South ½ of Section 11, T19N, R11W
4. Source and Description of Waste - soils from clean up of natural gas hydrocarbon condensate spill (produced liquids)	

I, David Bays 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
____ RCRA Hazardous Waste Analysis
____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: January 16, 1998

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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

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Originated 8/8/95

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District Office

Env JN: 97078-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐	4. Generator Navajo Tribal Utility Authority.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Montezuma Creek Gas Sweetening Plt.
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Garcia Septic.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State UTAH - Nav. Nation → NM.
7. Location of Material (Street Address or ULSTR)	SW4, Sec 32, T40S, R24E San Juan County, UTAH

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:

Continuation of sludge, sulfur/water from gas sweetening operation.

NNEPA Approval Attached.

RECEIVED
JAN 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 9 bbls cy Known Volume (to be entered by the operator at the end of the haul) 9 bbls cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 1-15-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/20/98

APPROVED BY: Ernie Busch TITLE: [illegible] DATE: 1/23/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Navajo Tribal Utility Authority Box 1206 Shiprock, New Mexico 87420	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name): Montezuma Creek Hydrogen Sulfide Gas Treating Facility South of Elkhorn operating company, montezuma creek, Utah

Location of the Waste (Street address &/or ULSTR): SW4, SEC32, T40S, R24E, SLC, UTAH.

Attach list of originating sites as appropriate

4. Source and Description of Waste

used (spent) up waste solution #136 Gas Treatment and water waste

I, Abe Balchin clowing (Print Name) representative for:

Navajo Tribal Utility Authority 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):

- ✓ MSDS Information
- ___ RCRA Hazardous Waste Analysis
- ___ Chain of Custody
- ___ Other (description):

Name (Original Signature): Abe Balchinclowing

Title: Gas Foreman

Date: 1-15-98

THE NAVAJO NATION

ALBERT A. HALE
PRESIDENT

THOMAS E. ATCITTY
VICE PRESIDENT

December 16, 1997

Mr. Malcolm Dalton, General Manager
Navajo Tribal Utility Authority
P.O. Box 170
Fort Defiance, Arizona 86504

Dear Mr. Dalton:

The Navajo Nation Environmental Protection Agency has reviewed your request to contract with Envirotech to remove non-hazardous waste from the NTUA gas sweetening facility in Montezuma Creek, Utah. NNEPA hereby approves the request with the following conditions:

- Envirotech will dispose of the non-hazardous waste (water and sulfur solution) at the New Mexico Oil Conservation Division land farm in Hilltop, New Mexico.

- The NTUA gas sweetening facility in Montezuma Creek, Utah shall maintain records regarding the volumes of the waste transferred to Envirotech for final disposal and the dates waste is transported from the facility. NNEPA may request to review these records at any time.

- Envirotech shall maintain records of disposal in the event NNEPA requests documentation of disposal.

If you have any questions, please contact Ms. Gloria Notah, NNEPA-Resource Conservation & Recovery Program, at (520) 871-7751.

Sincerely,

Bennie Cohoe, Executive Director
Navajo Nation Environmental Protection Agency

xc: Harlan Brown, Envirotech, Inc., Farmington, NM
Gloria Notah, NNEPA-RCRP

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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1 Rio Brazos Road
[illegible], 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

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Originated 8/8/95

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District Office

Env JN: 92197 - 01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 1-13.98 7:50	4. Generator Burlington Resources
	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Freemyer
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 14 T29N, R11W, SJC, NMPM

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:

charcoal Filtration media

1-13.98
BOL: 10733 LF2 D:21 6cy.

RECEIVED
JAN 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 6 cy Known Volume (to be entered by the operator at the end of the haul) 26 cy

SIGNATURE: Harlan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 1.13.98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/20/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

RECEIVED JAN 15 1998

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BURLINGTON RESOURCES 3535 EAST 30th STREET FARMINGTON, NM 87402	Envirotech Landfarm (ESRF) Hilltop, New Mexico
3. Originating Site (name): Val Verde Plant Attach list of originating sites as appropriate.	Location of the Waste (Street address &/or ULSTR): Section 14, Township 29N, Range 11W
4. Source and Description of Waste: Charcoal Filter Media. From the filtering of amine which is used to remove carbon dioxide from natural gas.	

I, Ed Hasely representative for:

BURLINGTON RESOURCES 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):

MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody

Other (description):

Name (Original Signature): E D Hasely

Title: SR STAFF ENVIRONMENTAL REPRESENTATIVE

Date: 1/13/98

20d

Waste Manifest
Burlington Resources Oil & Gas
P.O. Box 4289, Farmington, NM 87499

Safety and Environmental

1. Waste Location: Lease/Well No. Val Verde Plant

2. Volume: 6 Cubic Yards _____ Barrels _____ Gallons

3. Description of Waste: Charcoal Filter Media

4. Method of Waste Generation: Charcoal is used to filter the MDEA at the plant. MDEA is used to remove CO2 from the gas stream.

5. Disposal Facility: Envirotech Inc.

6. Disposal Cost: $16 cubic yard

7. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal S. D'Hoah (signature) Date 1/13/98

BR Representative

Transportation Company: Freemyer Inc

Date(s) Transported: 1-13-98

BR Representative on Site: Bert Hackenberg (signature) Date 1-13-98

Disposal Facility
Complete and return to Burlington Safety and Environmental with invoice.

Date(s) Received: _____

Total Volume Received: _____

Waste Location: Cell/Grid No. _____

Received By: _____

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
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1 Rio Brazos Road
[illegible], 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

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Originated 8/8/95

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Env JN: 98002

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 1-13-98 15:50	4. Generator INFAB
	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter ENVIROTECH INC.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	5928 US Hwy 64, Farmington NM

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:

Scale, solids, sludge generated during cleaning and refurbishing oil & gas production equipment.

Norm's testing attached.

RECEIVED
JAN 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 23 drums cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 1-13-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 1/20/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
INFAB INC. 5928 US. HWY 64 FARMINGTON, NM. 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): SAA Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** MAIN YARD
4. Source and Description of Waste Scale, solids, sludge generated during cleaning and refurbishing oil & gas production equipment. Norm's Test Attached.	

I, M. Clayton Roberts representative for:
(Print Name)

INFAB 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)

✓ **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
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): M Clayton Roberts

Title: Shop Supervisor

Date: 1-13-98

PHILIP ENVIRONMENTAL



September 16, 1996

Project 16830

Mr. Clayton Roberts
Energy Production Systems
5928 US Hwy. 64
Farmington, NM 87401

RE: Documentation for Naturally Occurring Radioactive Materials (NORM) Survey of Drummed Scale/Sand/Sludge

Dear Mr. Roberts:

Enclosed, is the NORM Survey Log which summarizes the survey results. In addition, as per our discussion, I have listed a company which can provide NORM Survey training.

Mr. Michael Carty
Growth Resources
200 A Burgess Drive
Broussard, LA 70518
(888)293-8787

Please feel free to contact Cory Chance at 326-2262 if you have any questions or require further information.

Sincerely,

PHILIP ENVIRONMENTAL SERVICES CORPORATION

Cory M. Chance

Cory M. Chance
Geologist

Attachments - As Stated
CMC:cc

PHILIP ENVIRONMENTAL SERVICES CORPORATION
4000 Monroe Road • Farmington, NM 87401
(505) 326-2262 • Fax (505) 326-2388

PHILIP ENVIRONMENTAL

RADIATION & CONTAMINATION SURVEY LOG

PAGE

Date: 9/10/96 Time: _____

Project Name Energy Production Systems
Project No.: 16830 Phase.Task: 1000 . 77
Project Manager CM Chance
Site Location EPS Drum Yard
Client Company Energy Production Systems
Site Address Farmington, New Mexico
Survey performed by: Cmc Chance (SIGNATURE)
Background Reading: 25 µR/hr
Exposure rate instrument: Ludlum Model 3 (SN-110254); Ludlum Model 44-2 (SN-PR110346) (TYPE, PROBE TYPE, SERIAL NUMBER)
Battery check performed satisfactory?: ✓
Calibration due date: 4/20/97
Calibration check/response reading: 360 µR/hr:
Count rate instrument: _____ (TYPE, PROBE TYPE, SERIAL NUMBER)
Battery check performed satisfactory?: ___
Calibration due date: _____
Calibration check/response reading: _____ µR/hr:

DATE	ITEM SURVEYED	EXPOSURE READING (µR/hr)	LOOSE CONTAMINATION (DPM/100cm²)	BACKGROUND READING µR/hr or DPM/100 cm²	INITIALS and EMPLOEE NUMBER
9/10/96	19 - 55 gallon drums of sand/scale	Background	—	25uR/hr	cmc
9/10/96	1 - 55 gallon ~~drum~~ box of sand/scale cmc	"	—	"	cmc

DPM = CPM / % Detector Efficiency

Percent efficiencies for the Ludlum 44-9 Geiger Muller "pancake" type probe are 30% for alpha particles and 10% for beta particles

Reviewed by: _____

Roger Anderson

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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

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Originated 8/8/95

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Env JN: [redacted]

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator BJ. Services 5. Originating Site Phillips SJ 30-5 #110M
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Cimarron
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	H, Sec 16, T30N, R5W, Rio Arriba

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:

Hydraulic Oil Contaminated soil at a well location.

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) 1 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 12-29-97

Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 12/30/97

APPROVED BY: Martyn J. Kelly TITLE: Env. Geologist DATE: 1/7/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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811 S. First
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1 Rio Brazos Road
[illegible], NM 87410
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Oil Conservation Division
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Env JN: [redacted]

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ. Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Phillips S.J 30-5 #110
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Cimarron
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	H, Sec 16, T30N, R5W, Rio Arriba

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:

Hydraulic Oil Contaminated soil at a well location.

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 12-29-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/30/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BJ Services Company USA 3250 Southside River Road Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm Hilltop, New Mexico
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
San Juan 30-5 #110M MV/DK	E ~~H~~ – Section 16 – T30N – R5W
4. Source and Description of Waste	
Estimated 3 cubic yards of soil stained from hydraulic oil. NORM testing has been performed.	

I, Virgil Chavez representative for:
(Print Name)
Cimarron Oilfield Services 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)

___ **EXEMPT** oilfield waste

_X_ **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):

_X_ MSDS Information
_X_ RCRA Hazardous Waste Analysis
_X_ Chain of Custody
_X_ Other (description) NORM testing results.

Name (Original Signature): Virgil Chavez

Title: Environmental Specialist

Date: 12/29/97

Client : BJ Services

Date Started : November 25, 1997 Date Completed : December 22, 1997

Location : PPCo. San Juan 30-5 #110 MV/DK

Quad : E Section : 16

Township: 30 N Range: 5 W

Spill type: Hydrocarbon (hydraulic oil)

Estimated Volume of Spill: 50 gallons

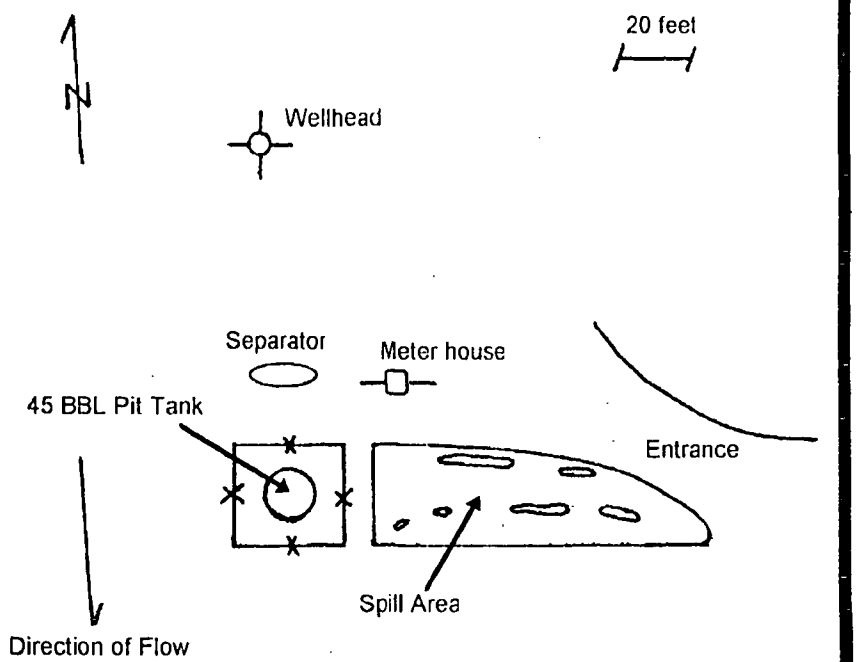
Depth of Saturation: .5" - 1.0"

Reference: 125' S 25 E from wellhead.

Soil Type: Very moist clay/silt.

Estimated Yds. Excavated: 3 cubic yards

Overview of location



Comments :

The spill site was assessed on November 25, 1997. The entire location, especially the spill area, was saturated with moisture (water/ice). The dark color of the wet soil made it very difficult to determine the extent of the spill. Staining was only superficial (.5" - 1.0" deep).
A sample was submitted to Inter-Mountain Laboratories for TCLP Metals and RCI testing.
Stained soil was excavated and placed in plastic drum liners and transported to PPCo yard and eventually to Envirotech in order to be landfarmed. It is recommended that the spill area be reassessed once soil is dry. A grab sample was submitted to Intermountain Labs for TCLP metals and RCI analysis.
Results are attached.

INSPECTION FOR N.O.R.M. CONTAMINATION
PHILLIPS PETROLEUM COMPANY

Location: San Juan 30-5 #110M Date: 11/25/97

Survey Instrument Model: 290 S/N 1289 Last Calibrated: 8/11/97 L.B.

Item Description: Stained soil.

Number of Pieces: < 2 yd³

Location Where Items Originated: San Juan 30-5 #110M

Background Reading: .039 uR/hr

Highest NORM reading: .046 uR/hr corrected for background)

Lowest NORM reading: .028 uR/hr corrected for background)

Any samples taken, if so how many:

_____ Pieces inspected

All Pieces found to be free of NORM contamination

_____ Pieces found to have NORM contamination

Remarks:

Inspector: Virgil Chavez

What is final disposition:

Released to: Date: 11/25/97

cc: Field Office

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Frank McDonald
Cimarron Oilfield Service Co.
P. O. Box 3235
Farmington, NM 87401

9 December 1997

Mr. McDonald:

Enclosed, please find the reports for the samples submitted to our laboratory on November 25, 1997.

If you have any questions about the results of the analyses, please don't hesitate to call at your convenience.

Sincerely,

Sharon Williams

Sharon Williams
Organic Analyst/IML Farmington

Enclosure

xc: File

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

BJ SERVICES COMPANY

Case Narrative

On November 25, 1997, two soil samples were submitted to Inter-Mountain Laboratories - Farmington for analysis.The samples were identified by project "SJ 30-5 #110M". The samples were analyzed for the parameters indicated on the accompanying Chain of Custody document # 50888.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analysis of the samples reported herein are found in Test Methods For Evaluation of Solid Waste, SW-846, USEPA, 1986, and Methods For Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,

Sharon Williams
Organics Lab Supervisor

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Client:	**BJ Services Company**		
Project:	SJ 30-5 #110 M	Date Reported:	12/09/97
Sample ID:	SJ 30-5 #110 M	Date Sampled:	11/25/97
Laboratory ID:	0397G02761	Time Sampled:	11:37am
Sample Matrix:	Soil	Date Received:	11/25/97
Condition:	Cool/Intact		

Parameter	Analytical Result	Units
pH.....	9.60	s.u.

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes", USEPA,600/4-79-020, Revised March, 1983.

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, Inc

2508 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	BJ Services Company		
Project:	SJ 30-5 #110 M	Date Reported:	12/09/97
Sample ID:	SJ 30-5 #110M	Date Sampled:	11/25/97
Laboratory ID:	0397G02761	Date Received:	11/25/97
Sample Matrix:	Soil	Date Analyzed:	12/08/97

Parameter	Result	Detection Limit	Regulatory Level	Units
Arsenic	<0.005	0.005	5	mg/L
Barium	1.58	0.01	100	mg/L
Cadmium	<0.004	0.004	1	mg/L
Chromium	0.01	0.01	5	mg/L
Lead	<0.05	0.05	5	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	<0.005	0.005	1	mg/L
Silver	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported By: _____ Reviewed: _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Spike Analysis / Blank Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	BJ Services Company	Date Reported:	12/08/97
Project:	SJ 30-5 #110M	Date Analyzed:	12/08/97
Sample Matrix:	Soil	Date Received:	11/25/97

Spike Analysis

Parameter	Spike Result (mg/L)	Sample Result (mg/L)	Spike Added (mg/L)	Percent Recovery
Arsenic	0.025	<0.005	0.025	98%
Barium	1.06	0.04	1.00	102%
Cadmium	0.910	<0.004	1.000	91%
Chromium	1.01	<0.01	1.00	101%
Lead	1.01	<0.05	1.00	101%
Mercury	0.055	<0.001	0.050	109%
Selenium	0.021	<0.005	0.025	82%*
Silver	7.12	<0.01	10.00	71%*

Method Blank Analysis

Parameter	Result	Detection Limit	Units
Arsenic	ND	0.005	mg/L
Barium	ND	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.05	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0.005	mg/L
Silver	ND	0.01	mg/L

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments: *Spike recovery failed to meet established QC limits due to matrix interference.

Reported by _____

Reviewed by _____

Inter·Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	BJ Services Company	Date Reported:	12/09/97
Project:	SJ 30-5 #110M	Date Analyzed:	12/08/97
Sample Matrix:	Soil	Date Received:	11/25/97

Known Analysis

Parameter	Found Result	Known Result	Percent Recovery	Units
Arsenic	0.010	0.010	**100%**	mg/L
Barium	0.98	1.00	**98%**	mg/L
Cadmium	1.000	1.000	**100%**	mg/L
Chromium	1.00	1.00	**100%**	mg/L
Lead	0.99	1.00	**99%**	mg/L
Mercury	0.008	0.008	**104%**	mg/L
Selenium	0.009	0.010	**90%**	mg/L
Silver	0.97	1.00	**97%**	mg/L

References:

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Flash Point

Client:	BJ Services Company		
Project:	SJ 30-5 #110 M	Date Reported:	12/09/97
Sample ID:	SJ 30-5 #110 M	Date Sampled:	11/25/97
Laboratory ID:	0397G02761	Date Received:	11/25/97
Sample Matrix:	Soil		
Condition:	Intact		

Analyte	Result	Units
Flash Point	>140	°F

References:

Analysis performed according to SW-846 "Test Methods for Evaluating Solid Waste: Physical / Chemical Methods" United States Environmental Protection Agency 3rd Edition, Final Update II, September, 1994.

Annual Book of ASTM Standards, Method D56.

Reported by: _____

Reviewed by: _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis

FLASH POINT

Client:	**BJ Services Company**	Date Reported:	12/09/97
Project:	SJ 30-5 #110 M	Date Analyzed:	12/03/97
Sample Matrix:	Soil	Date Received:	11/25/97

Parameter	Found Result	Known Result
p-Xylene	76°F	77°F

Reference: Analysis performed according to SW-846 "Test Methods for Evaluating Solid Waste: Physical / Chemical Methods" United States Environmental Protection Agency 3rd Edition, Final Update II, September, 1994.

Annual Book of ASTM Standards, Method D56.

Comments:

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Client:	**BJ Services Company**		
Project:	SJ 30-5 #110 M	Date Reported:	12/09/97
Sample ID:	SJ 30-5 #110 M	Date Sampled:	11/25/97
Laboratory ID:	0397G02761	Time Sampled:	11:37AM
Sample Matrix:	Soil	Date Received:	11/25/97
Condition:	Cool/Intact		

Parameter	Analytical Result	PQL
Reactive Cyanide	ND*	10 mg/kg
Reactive Sulfide	ND*	10 mg/kg

*ND - Not Detected at stated Practical Quantitation Level.

References: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", USEPA, Final Update 3, 1996.

Reported by _____

Reviewed by _____

imi
Inter- Mountain
Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES / PARAMETERS
PS Energy	S.J. 30-5 #110M	
Sampler: (Signature)	**Chain of Custody Tape No.**	

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	TCLP Metals	RCI			Remarks
SJ-5 #110M	11/24/97	11:37		Soil	2	X	X			Cool Preservation
										Bill: Phillips Petroleum
										(Cab Workman)
										All reports go to
										Frank McDonald.
										Intact

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	11/25/97	11:15	S. Williams	11/25/97	1445
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received by laboratory: (Signature)**	**Date**	**Time**

Inter-Mountain Laboratories, Inc.

☐ 1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

☐ 1701 Phillips Circle
Gillette, Wyoming 82716
Telephone (307) 682-8945

☑ 2506 West Main Street
Farmington, NM 87401
Telephone (505) 326-4737

☐ 1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

☐ Route 3, Box 256
College Station, TX 77845
Telephone (409) 776-8945

01-50888

ATFC0089 Revised 21-APR-1997 Printed 18-SEP-1997

HYDROCLEAR Dexron III/Mercon Automatic Transmission Fluid

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification
"HYDROCLEAR" is a trademark of Conoco.

Product Use
Automatic Transmission Fluid

Tradenames and Synonyms
46682 - Conoco Base Code

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

Material	CAS Number	%
Base oils		>85
Proprietary additives		<15

If oil mist is generated, exposure limits apply.

(Continued)

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.

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.

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.

(Continued)

FIRE FIGHTING MEASURES

Flammable Properties
Flash Point 188 C (370 F) Method: COC (Typical)

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 spaced 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 vapors or 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, 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 away from heat, sparks and flames, oxidizers. Close container after each use.

(Continued)

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.

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 (1996) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors)
AEL *	(DuPont)	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

Boiling Point	Not Available
Vapor Pressure	Nil
Vapor Density	>1 (Air=1.0)
% Volatiles	Nil
Evaporation Rate	Nil
Solubility in Water	Insoluble
Odor	Petroleum Hydrocarbon (mild).
Form	Liquid.
Color	Red.
Specific Gravity	0.87 @ 60 F (16 C)
Density	7.14 lb/gal

(Continued)

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.

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.

(Continued)

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DETERMINATION
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
It is possible material may contain extremely hazardous substances at concentrations below 1.0% so that a large-enough spill could warrant an Emergency Release Report.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute	: No
Chronic	: No
Fire	: No
Reactivity	: No
Pressure	: No

SARA, TITLE III, 313
This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

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(s)	Petroleum Hydrocarbons
Reportable Quantity	Film or sheen upon, or discoloration of any water surface

This material is not known to contain hazardous substances in sufficient quantity to make it subject to CERCLA regulations.

State Regulations (U.S.)
PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

(Continued)

REGULATORY INFORMATION(Continued)

This material is not known to contain any ingredient(s) subject to the Act.

Nonhazardous ingredient information is withheld as a trade secret in accordance with Section 11 of the Act.

CALIFORNIA "PROP 65"
The material contains ingredients known to the State of California to cause cancer; birth defects, or other reproductive harm. Read and follow all label directions.

Ingredients:	Benzene	(CAS# 71-43-2) <0.001%
	Aniline	(CAS# 62-53-3) <0.001%
	Amino azotoluene	(CAS# 97-56-3) <0.001%
	o-Toluidine	(CAS# 95-53-4) <0.001%
	Toluene	(CAS# 108-88-3) <0.001%
	Ethyl acrylate	(CAS# 140-88-5) <0.01%

Canadian Regulations
This is not a WHMIS Controlled Product.

Transport/Medical Emergency Phone Number: 1-613-348-3616

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 MSDS	: MSDS Coordinator
Address	: Conoco Inc.
>	: PO Box 2197
>	: Houston, TX 77252
Telephone	: 1-281-293-5550

End of MSDS

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env JN: 96003-30

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] DF 12/23/97 7:52 A.M.	4. Generator EPFS.
Verbal Approval Received: Yes [X] No [ ]	5. Originating Site Ballard Plant
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	H&I Sec 26, T26N, R9W, SJC, NM.

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:
Emulsified Sludge of TEG, oil & water @ a dehydrator contactor downstream from Ballard Plant.

RECEIVED
JAN 0 2 1998
OIL CON. DIV.
DIST. 3

Estimated Volume ~~4 bbls~~ cy Known Volume (to be entered by the operator at the end of the haul) 7.5 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 1-5-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/5/98

APPROVED BY: Ernie Busch TITLE: " DATE: "

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Ballard Field Plant - El Paso Field Services Approx. 30 miles SE of Bloomfield, New Mexico.	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Same as Generator. Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste TEG from dehydrator contactor.	

I, Martin H. Soltero (Print Name) representative for:

Ballard Field Plants - El Paso Field Services Company 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):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Martin H. Soltero

Title: Environmental Engineer

Date: December 29, 1997

EL PASO NATURAL GAS

RECEIVED JAN 2 1998

December 22, 1997

Envirotech Inc.
Atten: Mr. Harland Brown
5796 Highway 64
Farmington, NM 87401-1578

Subject: **Landfarming options for used TEG from El Paso Field Services Company's dehydrator at Ballard Field Plant**

Dear Mr. Brown:

El Paso Field Services has generated approximately 200 gallons of used TEG from the dehydrator contactor at Ballard Field Plant, located approximately 30 miles Southeast of Bloomfield, New Mexico. This waste stream was generated while the contactor's glycol reservoir was drained in preparation for vessel cleaning. The contactor has not been operating as a dehydrating contactor for approximately a year. However, gas has been passing through the contactor, which is located down stream from the station compressors. Hence, this contactor has been accumulating oils from the gas stream. The drained liquid is, therefore, an emulsified combination of glycol, oil, and water.

El Paso Field Services is requesting Envirotech to accept this waste stream for disposal in your landfarm facilities. Your immediate attention to this matter is greatly appreciated so that arrangements can be made for the disposal of this waste stream and also to arrange for a technician to be at the Ballard Field Plant.

If you have questions or if I can be of further assistance, you can contact me at 915/496-3174.

Sincerely,

Martin H. Soltero

Martin H. Soltero
Environmental Engineer
Environmental Health & Safety

El Paso Natural Gas Company P.O. Box 1492 El Paso, Texas 79978-1492 Phone (915) 496-2600 Fax (915) 496-3155

2 3c

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 98058

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 6.18.98	4. Generator JN Exploration
	5. Originating Site Miller Gas Com E
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NW¼NW Sec 20 T30N R13W

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:

Condensate contaminated soil generated @ cleanup of Separator pit

6.22.98 11174 LF2unit5 5.10 40 cy

6.22.98 11040 LF2unit5 T.7 22 cy

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) 62 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 6-18-98

Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/15/99

APPROVED BY: Jessie Busch TITLE: " DATE: "

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
JN Exploration & Production L.P. Colt Resources Corp. P.O. Box 7167 Billings, Montana 59103	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Miller Gas Com 1E NW4 NW4 Sec 20. T30N R 13W San Juan County, New Mexico Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste Condensate Contaminated soil generated during Clean up of separator pit.	

I, _____ representative for:
(Print Name)

_____ 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)

___ **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
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Duane Zimmerman

Title: Operations Engineer

Date: 6.18.98

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

ew exico
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
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to appropriate
District Office

Env. JN: 98058

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] Danny Foust 6.18.98 Verbal Approval Received: Yes [X] No [ ]	4. Generator JN Exploration 5. Originating Site Miller Gas Com #1
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SESE Sec 20 T30N R13W

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:

Condensate contaminated soil generated during clean up of separator and blow down pits.

6.20.99 11174 LFZUNITS 5.10 60
6.22.99 11040 LFZUNITS 5.10 22
6.22.99 11175 LFZUNITS T.7 40
6.23.99 11176 LFZUNITS T.7/T8 186
6.24.99 11046 LFZUNITS X.12 20

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) 328 cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 6-18-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Danny G. Foust TITLE: Geologist DATE: 2/15/99

APPROVED BY: Ernie Busch TITLE: 4 DATE: 7

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
JN Exploration & Production L.P. Colt Resources Corp. P.O. Box 7167 Billings, Montana 59103	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Miller GAS Com B1 SE¼SE¼ Sec 20 T30N R13W San Juan County, New Mexico **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste Condensate & produced liquids contaminated soil generated During clean up of separator & Blow down pits.	

I, _____ representative for:
(Print Name)

_____ 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)

___ **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
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Duane Zimmerman

Title: Operations Engineer

Date: 6-18-98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
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Form C-138
Originated 8/8/95

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Env. JN: 98058

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 6.18.98	4. Generator JN Exploration
	5. Originating Site Miller D.1
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SW SW Sec 21 T30N R13W

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:

Condensate contaminated soil generated during cleanup of separator pit.

6.19.98 11174 LF24BITS 5.10 154 cy
6.20.98 5.11

file end of 98

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 6-18-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/15/99

APPROVED BY: Ernie Busch TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
JN Exploration & Production L.P. Colt Resources Corp. P.O. Box 7167 Billings Montana 59103	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Miller D1 SW/SW Sec. 21, T30N R13W San Juan County New Mexico Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste Condensate Contaminated soil generated during cleanup of Separator pit.	

I, _____ representative for:
(Print Name)

_____ 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)

___ **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
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Duane Zimmerman

Title: Operations Engineer

Date: 6.18.98.

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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1 Rio Brazos Road
...c, NM 87410
District IV - (505) 827-7131

New Mexico
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Oil Conservation Division
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Originated 8/8/95

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District Office

Env. JN: 92187

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 6.22.98 15:50	4. Generator Western Gas Resources
	5. Originating Site San Juan River Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	99 RD 6500 Kirtland, NM 87417

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:

Pigging Waste

RECEIVED
JUN 30 1998
OIL CON. DIV.

Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) 10 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Mngr DATE: 6.24.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505.632.0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/9/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 7/9/98

RECEIVED JUN 25 1998

RECEIVED
JUL 9 1998
OIL CON. DIV.
DIST. 3

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Western Gas Resources Inc. P.O. Box 70 Kirtland, N.M. 87417	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
99 Rd. 6500 Kirtland, N.M. 87417 San Juan River Plant Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Intet pig Reciever — Iron sulfide & Clay solids	

I, Tim Bates (Print Name) representative for:

Western Gas Resources 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-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
__ Other (description):

Name (Original Signature): Tim Bates

Title: Field Supervisor

Date: 6-22-98

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401
505 3264737

Tim Bates
Western Gas Resources, Inc.
P.O. Box 70
Kirtland, NM 87417

24 October 1997

Mr. Bates:

Enclosed, are the reports for the sample received by our laboratory for analysis on October 8, 1997.

If you have any questions concerning these analyses , please don't hesitate to call me at your convenience.

Sincerely,

Sharon Williams
Organics Lab Supervisor

Enclosures

xc: File

21 with < 30 pCi/g is considered exempt by NMED

K. McEvers
T. Bates
D Anderson

AMERICAN RADIATION SERVICES, INC.
1726 Wooddale Court • Baton Rouge, Louisiana 70806
1 (800) 401-4277 • Fax (504) 927-6822

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 ±2σ	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

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

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1726 Wooddale Court • Baton Rouge, Louisiana 70806
1 (800) 401-4277 • Fax (504) 927-6822

Notes:

Comments:

1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix *B*
5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only)
7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only)
8.0) All Gamma spectroscopy was performed utilizing high purity germanium detectors (HPGE).

Method References:

1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurement of Radioactivity in Drinking Water, August 1980.
`.0) Standard Methods for the Examination of Water and Waste Water, 18th, 1992
.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995)
4.0) EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
5.0) HASL 300

Definitions:

1.0)	BDL	Analyte not detected because the value was below the detection limit.
2.0)	ND	Not detected above the detection limit.
3.0)	Detection Limit	The minimum amount of the analyte that ARS can detect utilizing the specific analysis.
4.0)	B	Method Blank
5.0)	D	Method Duplicate
6.0)	MS	Matrix Spike
7.0)	S	Spike
8.0)	RS	Reference Spike
9.0)	*SC	Subcontracted out to another qualified laboratory
10.0)	NR	Not Referenced

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Roger Anderson

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New Mexico
Energy Minerals and Natural Resources Department
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2040 South Pacheco Street
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Form C-138
Originated 8/8/95

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Env. JN: 96003-36

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPFS.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Kutz Hydrocarbon Recovery Facility
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Environmental Transport.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 11, T29N, R11W, SJC, NM

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:

Hydrocarbon contaminated soil & gravel from the west scrubber area.

RECEIVED
JUN 18 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec Cleanup

Estimated Volume 15 cy Known Volume (to be entered by the operator at the end of the haul) 2 bbls and a drum → 1/2 cy

SIGNATURE: Harold W Brown TITLE: Construction Mgr DATE: 6-18-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harold W Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/18/98

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 6/22/98

Roger Anderson

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P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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Artesia, NM 88210
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1 Rio Brazos Road
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District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
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Santa Fe, New Mexico 87505
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Form C-138
Originated 11/8/93

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Env. JN: 96003-56

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPFS.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Kutz Hydrocarbon Recovery Facility
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech-Frazier
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 4, T29N, R11W, SE, NM

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:

Hydrocarbon contaminated soil & gravel from the west scrubber area.

RECEIVED
JUN 18 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec Office

Estimated Volume 15 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Compliance Mgr DATE: 6-18-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harold W Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/18/98

APPROVED BY: Martyne J. Kelly TITLE: Env Geologist DATE: 6/22/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division

2040 South Pacheco Street
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Env. JN: 96003-36

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Kutz Hydrocarbon Recovery Facility
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech-Fraonyer.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 11, T29N, R11W, SJC, NM

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:

Hydrocarbon contaminated soil & gravel from the west scrubber area.

RECEIVED
JUN 18 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 15 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 6-18-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/18/98

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	12-29-97
Lab ID#:	C728	Date Sampled:	12-23-97
Sample Matrix:	Solid	Date Received:	12-23-97
Preservative:	Cool	Date Analyzed:	12-23-97
Condition:	Cool & Intact	Chain of Custody:	5698

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**8.52**
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, East Main St., Farmington, NM.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

450

ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	100%

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: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	01-02-98
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	100%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.189	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.047	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.030	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: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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 Composite	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Analyzed:	01-06-98
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.015	0.0001	5.00
Barium	1.62	0.001	100
Cadmium	0.001	0.0001	1.00
Chromium	0.006	0.0001	5.00
Lead	0.051	0.0001	5.00
Mercury	ND	0.0001	0.200
Selenium	ND	0.0001	1.00
Silver	ND	0.0001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

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

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

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5698

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
HALIBURTON	HALIBURTON EAST MAIN ST. FARMINGTON, N.M.	

Sampler: (Signature)	Chain of Custody Tape No.
Marvin D. Young	92132

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP W/O H&P						Remarks
WASH BAY Composite	12/23/97	7:27	C728	Solid	1	✓						
												Sample received cool & intact

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marvin D Young	12/23/97	8:05	[signature]	7-23-97	0805
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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 1 Copy
to appropriate
District Office

Env. JN: 95026-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Southside River RR 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 Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd Farmington, NM 87410

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:

petroleum hydrocarbon soil generated during the excavation of a field waste tank @ plant yard. Labeled backfill as it was soil covering / in contact with the tank that was removed.

TCLP ATTACHED

RECEIVED
APR 17 1998
OIL CON. DIV.
DIST. 3

Estimated Volume ±500 cy Known Volume (to be entered by the operator at the end of the haul) 360 cy

SIGNATURE: Harlan McBrayer TITLE: Landfarm Mgr. DATE: 4-17-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/20/98

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 4/21/98

25

CERTIFICATE OF WASTE STATUS

1. Generator (Name): BJ Services Company USA Address: 8701 New Trail Dr. The Woodlands, Tx. 77380 Contact: Rick N. Johnson (281) 363-7521	3. Location (Street Address &/or ULSTR): 3250 Southside River Rd. Farmington, NM 87401 Contact: Jack Harless (505) 327-6222
2. Originating Site (Name): BJ Services Company, USA - Farmington District	4. Destination Name: Envirotech 5796 US Hwy 64 Farmington, NM 87401 Contact: Harlan Brown (505) 632-0615

5. Source and Description of Waste: * - see attached analytical Waste soil derived from removal of an underground field waste tank; impacted w/ petroleum hydrocarbons

I, Rick N. Johnson representative for: BJ Services Company, USA 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)

___ EXEMPT oilfield waste

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

For Non-exempt waste only the following documentation is attached (check appropriate items):

___ MSDS Information
_X_ RCRA TCLP Analysis (attached)
___ Chain of Custody
___ Other (Description)

Name (Signature): Rick N. Johnson

Printed Name: Rick N. Johnson

Title: Environmental Specialist

Date: 4-15-98

Attach list of originating sites as appropriate.

Certificate of Analysis

Quanterra Incorporated
5307 Industrial Oaks Boulevard, Suite 160
Austin, Texas 78735

512 892-6684 Direct
512 892-6652 Fax

Quanterra

ANALYTICAL REPORT

PROJECT NO. RCRA

Farmington, NM

Lot #: I8B150103

Rick Johnson

B.J. Services Company

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

March 4, 1998

Quanterra
Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

I8B150103

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
FWT-BACKFILL 02/12/98 10:15 001				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	14000	1100	mg/kg	MCAWW 418.1
Corrosivity	7.6	1.0	No Units	SW846 9045A
Percent Moisture	8.4	0.50	%	OCLP OLM03.1
AWT-BACKFILL 02/12/98 10:30 002				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	110	11	mg/kg	MCAWW 418.1
Corrosivity	7.9	1.0	No Units	SW846 9045A
Percent Moisture	8.8	0.50	%	OCLP OLM03.1
AWT-SOLIDS/SLUDGE 02/12/98 11:00 003				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	49000	2900	mg/kg	MCAWW 418.1
Corrosivity	9.5	1.0	No Units	SW846 9045A
Percent Moisture	30.1	0.50	%	OCLP OLM03.1
FWT-SLUDGE 02/12/98 13:00 004				
Benzene	0.18	0.050	mg/L	SW846 8260A
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	550000	10000	mg/kg	MCAWW 418.1
Corrosivity	5.1	1.0	No Units	SW846 9045A
Percent Moisture	52.2	0.50	%	OCLP OLM03.1

* Note: This is soil From the tank pit Not "Backfill". MB

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Environmental Services

ANALYTICAL METHODS SUMMARY

I8B150103

PARAMETER	ANALYTICAL METHOD
% Moisture, Decanted-CLP	OCLP OLM03.1
Corrosivity	SW846 9045A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Total Recoverable Petroleum Hydrocarbons	MCAWW 418.1
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

OCLP USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

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SAMPLE SUMMARY

I8B150103

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CFDA2	001	FWT-BACKFILL	02/12/98	10:15
CFDA3	002	AWT-BACKFILL	02/12/98	10:30
CFDA4	003	AWT-SOLIDS/SLUDGE	02/12/98	11:00
CFDA5	004	FWT-SLUDGE	02/12/98	13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Quanterra Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

TCLP GC/MS Semivolatiles

Lot-Sample #...: I8B150103-001 **Work Order #...:** CFDA2107 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Prep Date.....:** 02/18/98 **Analysis Date..:** 02/26/98
Leach Batch #..: P804704 **Prep Batch #...:** 8049233 **Analysis Time..:** 13:46
Dilution Factor: 1
% Moisture.....: 8.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	69	(21 - 100)
Phenol-d5	85	(10 - 94)
Nitrobenzene-d5	75	(35 - 114)
2-Fluorobiphenyl	59	(43 - 116)
2,4,6-Tribromophenol	76	(10 - 123)
Terphenyl-d14	93	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

TCLP GC/MS Volatiles

Lot-Sample #...: I8B150103-001 **Work Order #...:** CFDA210J **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
Leach Date.....: 02/23/98 **Prep Date.....:** 02/27/98 **Analysis Date..:** 02/28/98
Leach Batch #..: P805602 **Prep Batch #...:** 8062161 **Analysis Time..:** 00:41
Dilution Factor: 1
% Moisture.....: 8.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	94	(86 - 115)
Toluene-d8	100	(88 - 110)
Dibromofluoromethane	99	(86 - 118)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: FWT-BACKFILL

General Chemistry

Lot-Sample #...: I8B150103-001 Work Order #...: CFDA2 Matrix.....: SOLID
Date Sampled...: 02/12/98 10:15 Date Received..: 02/14/98
% Moisture.....: 8.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity	7.6	1.0	No Units	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Flashpoint	>150	>150	deg F	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Percent Moisture	8.4	0.50	%	OCLP OLM03.1	02/17-02/18/98	8048212
		Dilution Factor: 1				
		Analysis Time..: 10:00				
Reactive Cyanide	ND	220	mg/kg	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1				
		Analysis Time..: 16:00				
Reactive Sulfide	ND	220	mg/kg	SW846 7.3.4	02/16/98	8047137
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons	14000	1100	mg/kg	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 100				
		Analysis Time..: 13:00				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Quanterra
Environmental
Services

[redacted]

Client Sample ID: FWT-BACKFILL

TCLP Metals

Lot-Sample #...: I8B150103-001 **Matrix.....:** SOLID
Date Sampled...: 02/12/98 10:15 **Date Received..:** 02/14/98
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8049226						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA2108
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA2109
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDA210A
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDA210C
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA210D
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDA210E
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDA210F
		Dilution Factor: 1				
		Analysis Time..: 14:22				
Prep Batch #...: 8051213						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDA210G
		Dilution Factor: 1				
		Analysis Time..: 08:53				

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311 (55 FR 26986)

Quanterra
Environmental Services

QC DATA ASSOCIATION SUMMARY

I8B150103

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
002	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
003	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8055155	8055038
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082
004	SOLID	SW846 1010		8047152	8047082
	SOLID	MCAWW 418.1		8061186	8061073
	SOLID	SW846 6010A	P804704	8049226	8049086
	SOLID	SW846 9045A		8047188	8047076
	SOLID	OCLP OLM03.1		8048212	
	SOLID	SW846 7.3.3		8047136	8047032
	SOLID	SW846 7.3.4		8047137	8047033
	SOLID	SW846 8270B	P804704	8049233	8049093
	SOLID	SW846 8260A	P805602	8062161	8062042
	SOLID	SW846 7470A	P804704	8051213	8051082

Quanterra
Environmental Services

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8B150103	**Work Order #...:** CFDN9109	**Matrix.....:** SOLID
MB Lot-Sample #: I8B160000-214		
Leach Date.....: 02/16/98	**Prep Date.....:** 02/18/98	**Analysis Date..:** 02/26/98
Leach Batch #..: P804704	**Prep Batch #...:** 8049233	**Analysis Time..:** 12:45
Dilution Factor: 1		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
o-Cresol	ND	0.050	mg/L	SW846 8270B
m-Cresol & p-Cresol	ND	0.10	mg/L	SW846 8270B
1,4-Dichlorobenzene	ND	0.050	mg/L	SW846 8270B
2,4-Dinitrotoluene	ND	0.050	mg/L	SW846 8270B
Hexachlorobenzene	ND	0.050	mg/L	SW846 8270B
Hexachlorobutadiene	ND	0.050	mg/L	SW846 8270B
Hexachloroethane	ND	0.050	mg/L	SW846 8270B
Nitrobenzene	ND	0.050	mg/L	SW846 8270B
Pentachlorophenol	ND	0.25	mg/L	SW846 8270B
Pyridine	ND	0.10	mg/L	SW846 8270B
2,4,5-Trichlorophenol	ND	0.050	mg/L	SW846 8270B
2,4,6-Trichlorophenol	ND	0.050	mg/L	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
Phenol-d5	88	(10 - 94)
Nitrobenzene-d5	68	(35 - 114)
2-Fluorobiphenyl	50	(43 - 116)
2,4,6-Tribromophenol	71	(10 - 123)
Terphenyl-d14	90	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 **Work Order #...:** CFLX7101 **Matrix.....:** SOLID
MB Lot-Sample #: I8C030000-161

Prep Date.....: 02/27/98 **Analysis Time..:** 17:18
Analysis Date..: 02/27/98 **Prep Batch #...:** 8062161
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8260A
Carbon tetrachloride	ND	0.050	mg/L	SW846 8260A
Chlorobenzene	ND	0.050	mg/L	SW846 8260A
Chloroform	ND	0.050	mg/L	SW846 8260A
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8260A
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8260A
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8260A
Tetrachloroethylene	ND	0.050	mg/L	SW846 8260A
Trichloroethylene	ND	0.050	mg/L	SW846 8260A
Vinyl chloride	ND	0.10	mg/L	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	97	(88 - 110)
Dibromofluoromethane	96	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8B160000-214 **Prep Batch #...:** 8051213						
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704						
Mercury	ND	0.0020	mg/L	SW846 7470A	02/20-02/24/98	CFDN9106
		Dilution Factor: 1				
		Analysis Time..: 08:49				
MB Lot-Sample #: I8B160000-214 **Prep Batch #...:** 8049226						
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704						
Silver	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9107
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Arsenic	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9108
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Barium	ND	10.0	mg/L	SW846 6010A	02/18-02/19/98	CFDN9101
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Cadmium	ND	0.10	mg/L	SW846 6010A	02/18-02/19/98	CFDN9102
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Chromium	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9103
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Lead	ND	0.50	mg/L	SW846 6010A	02/18-02/19/98	CFDN9104
		Dilution Factor: 1				
		Analysis Time..: 14:17				
Selenium	ND	0.25	mg/L	SW846 6010A	02/18-02/19/98	CFDN9105
		Dilution Factor: 1				
		Analysis Time..: 14:17				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D101		MB Lot-Sample #:	I8B240000-155	
	ND	10	mg/kg	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1				
		Analysis Time..: 13:00				
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2101		MB Lot-Sample #:	I8C020000-186	
	ND	10	mg/kg	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1				
		Analysis Time..: 10:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: I8B150103 Work Order #...: CFETD101 Matrix.....: SOLID
LCS Lot-Sample#: I8B180000-233
Prep Date.....: 02/18/98 Analysis Date..: 02/26/98
Prep Batch #...: 8049233 Analysis Time..: 13:16
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Pyridine	**0.40**	**0.18**	**mg/L**	**45**	**SW846 8270B**
1,4-Dichlorobenzene	**0.40**	**0.25**	**mg/L**	**63**	**SW846 8270B**
o-Cresol	**0.40**	**0.34**	**mg/L**	**84**	**SW846 8270B**
m-Cresol & p-Cresol	**0.80**	**0.69**	**mg/L**	**87**	**SW846 8270B**
Hexachloroethane	**0.40**	**0.25**	**mg/L**	**64**	**SW846 8270B**
Nitrobenzene	**0.40**	**0.30**	**mg/L**	**76**	**SW846 8270B**
Hexachlorobutadiene	**0.40**	**0.24**	**mg/L**	**60**	**SW846 8270B**
2,4,6-Trichlorophenol	**0.40**	**0.27**	**mg/L**	**67**	**SW846 8270B**
2,4,5-Trichlorophenol	**0.40**	**0.27**	**mg/L**	**67**	**SW846 8270B**
2,4-Dinitrotoluene	**0.40**	**0.28**	**mg/L**	**70**	**SW846 8270B**
Hexachlorobenzene	**0.40**	**0.35**	**mg/L**	**88**	**SW846 8270B**
Pentachlorophenol	**0.40**	**0.35**	**mg/L**	**87**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(21 - 100)
Phenol-d5	93	(10 - 94)
Nitrobenzene-d5	74	(35 - 114)
2-Fluorobiphenyl	61	(43 - 116)
2,4,6-Tribromophenol	78	(10 - 123)
Terphenyl-d14	104	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 Work Order #...: CFLX7102 Matrix.....: SOLID
LCS Lot-Sample#: I8C030000-161
Prep Date.....: 02/27/98 Analysis Date..: 02/27/98
Prep Batch #...: 8062161 Analysis Time..: 17:52
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Vinyl chloride	**0.50**	**0.71**	**mg/L**	**142**	**SW846 8260A**
1,1-Dichloroethylene	**0.50**	**0.65**	**mg/L**	**129**	**SW846 8260A**
Chloroform	**0.50**	**0.50**	**mg/L**	**100**	**SW846 8260A**
1,2-Dichloroethane	**0.50**	**0.47**	**mg/L**	**94**	**SW846 8260A**
Methyl ethyl ketone	**0.50**	**0.13**	**mg/L**	**27**	**SW846 8260A**
Carbon tetrachloride	**0.50**	**0.57**	**mg/L**	**113**	**SW846 8260A**
Trichloroethylene	**0.50**	**0.52**	**mg/L**	**104**	**SW846 8260A**
Benzene	**0.50**	**0.51**	**mg/L**	**101**	**SW846 8260A**
Tetrachloroethylene	**0.50**	**0.56**	**mg/L**	**112**	**SW846 8260A**
Chlorobenzene	**0.50**	**0.52**	**mg/L**	**104**	**SW846 8260A**
1,4-Dichlorobenzene	**0.50**	**0.53**	**mg/L**	**107**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	96	(88 - 110)
Dibromofluoromethane	104	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity			Work Order #: CFDLG101 LCS Lot-Sample#: I8B160000-188				
	9.0	9.2	No Units	101	SW846 9045A	02/16/98	8047188
			Dilution Factor: 1				
			Analysis Time..: 14:00				
Flashpoint			Work Order #: CFDMP101 LCS Lot-Sample#: I8B160000-152				
	81	81	deg F	100	SW846 1010	02/15-02/16/98	8047152
			Dilution Factor: 1				
			Analysis Time..: 10:00				
Reactive Cyanide			Work Order #: CFDE0102 LCS Lot-Sample#: I8B160000-136				
	40	2.9	mg/L	7.3	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1				
			Analysis Time..: 16:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFH8D102 LCS Lot-Sample#: I8B240000-155				
	250	210	mg/kg	86	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1				
			Analysis Time..: 00:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFLG2102 LCS Lot-Sample#: I8C020000-186				
	250	230	mg/kg	91	MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1				
			Analysis Time..: 13:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity			Work Order #: CFDLG101 LCS Lot-Sample#: I8B160000-188				
	9.0	9.2	No Units	101	SW846 9045A	02/16/98	8047188
			Dilution Factor: 1				
			Analysis Time..: 14:00				
Flashpoint			Work Order #: CFDMP101 LCS Lot-Sample#: I8B160000-152				
	81	81	deg F	100	SW846 1010	02/15-02/16/98	8047152
			Dilution Factor: 1				
			Analysis Time..: 10:00				
Reactive Cyanide			Work Order #: CFDE0102 LCS Lot-Sample#: I8B160000-136				
	40	2.9	mg/L	7.3	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1				
			Analysis Time..: 16:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFH8D102 LCS Lot-Sample#: I8B240000-155				
	250	210	mg/kg	86	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1				
			Analysis Time..: 00:00				
Total Recoverable Petroleum Hydrocarbons			Work Order #: CFLG2102 LCS Lot-Sample#: I8C020000-186				
	250	230	mg/kg	91	MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1				
			Analysis Time..: 13:00				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8B180000-226 **Prep Batch #...:** 8049226							
Barium	2.0	2.0	mg/L	100	SW846 6010A	02/18-02/19/98	CFETA101
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Cadmium	0.050	0.054	mg/L	109	SW846 6010A	02/18-02/19/98	CFETA102
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Chromium	0.20	0.20	mg/L	101	SW846 6010A	02/18-02/19/98	CFETA103
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Lead	0.50	0.46	mg/L	93	SW846 6010A	02/18-02/19/98	CFETA104
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Selenium	2.0	1.9	mg/L	94	SW846 6010A	02/18-02/19/98	CFETA105
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Silver	0.050	0.046	mg/L	93	SW846 6010A	02/18-02/19/98	CFETA106
			Dilution Factor: 1				
			Analysis Time..: 14:20				
Arsenic	2.0	2.0	mg/L	100	SW846 6010A	02/18-02/19/98	CFETA107
			Dilution Factor: 1				
			Analysis Time..: 14:20				
LCS Lot-Sample#: I8B200000-213 **Prep Batch #...:** 8051213							
Mercury	0.0050	0.0049	mg/L	99	SW846 7470A	02/20-02/24/98	CFG8X101
			Dilution Factor: 1				
			Analysis Time..: 08:51				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: I8B150103 Work Order #...: CFETD101 Matrix.....: SOLID
LCS Lot-Sample#: I8B180000-233
Prep Date.....: 02/18/98 Analysis Date..: 02/26/98
Prep Batch #...: 8049233 Analysis Time..: 13:16
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Pyridine	**45**	**(1.0- 144)**	**SW846 8270B**
1,4-Dichlorobenzene	**63**	**(26 - 112)**	**SW846 8270B**
o-Cresol	**84**	**(21 - 137)**	**SW846 8270B**
m-Cresol & p-Cresol	**87**	**(19 - 126)**	**SW846 8270B**
Hexachloroethane	**64**	**(26 - 102)**	**SW846 8270B**
Nitrobenzene	**76**	**(42 - 120)**	**SW846 8270B**
Hexachlorobutadiene	**60**	**(33 - 111)**	**SW846 8270B**
2,4,6-Trichlorophenol	**67**	**(19 - 122)**	**SW846 8270B**
2,4,5-Trichlorophenol	**67**	**(29 - 123)**	**SW846 8270B**
2,4-Dinitrotoluene	**70**	**(31 - 106)**	**SW846 8270B**
Hexachlorobenzene	**88**	**(42 - 120)**	**SW846 8270B**
Pentachlorophenol	**87**	**(12 - 156)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	80	(21 - 100)
Phenol-d5	93	(10 - 94)
Nitrobenzene-d5	74	(35 - 114)
2-Fluorobiphenyl	61	(43 - 116)
2,4,6-Tribromophenol	78	(10 - 123)
Terphenyl-d14	104	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: I8B150103 **Work Order #...:** CFLX7102 **Matrix.....:** SOLID
LCS Lot-Sample#: I8C030000-161
Prep Date.....: 02/27/98 **Analysis Date..:** 02/27/98
Prep Batch #...: 8062161 **Analysis Time..:** 17:52
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Vinyl chloride	**142**	**(1.0- 251)**	**SW846 8260A**
1,1-Dichloroethylene	**129**	**(59 - 155)**	**SW846 8260A**
Chloroform	**100**	**(51 - 136)**	**SW846 8260A**
1,2-Dichloroethane	**94**	**(49 - 155)**	**SW846 8260A**
Methyl ethyl ketone	**27**	**(25 - 250)**	**SW846 8260A**
Carbon tetrachloride	**113**	**(71 - 240)**	**SW846 8260A**
Trichloroethylene	**104**	**(71 - 157)**	**SW846 8260A**
Benzene	**101**	**(37 - 151)**	**SW846 8260A**
Tetrachloroethylene	**112**	**(46 - 157)**	**SW846 8260A**
Chlorobenzene	**104**	**(37 - 160)**	**SW846 8260A**
1,4-Dichlorobenzene	**107**	**(75 - 137)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	91	(86 - 115)
Toluene-d8	96	(88 - 110)
Dibromofluoromethane	104	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity		Work Order #: CFDLG101	LCS Lot-Sample#: I8B160000-188		
	101	(90 - 110)	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Flashpoint		Work Order #: CFDMP101	LCS Lot-Sample#: I8B160000-152		
	100	(95 - 105)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1			
		Analysis Time..: 10:00			
Reactive Cyanide		Work Order #: CFDE0102	LCS Lot-Sample#: I8B160000-136		
	7.3	(1.0- 64)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1			
		Analysis Time..: 16:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D102	LCS Lot-Sample#: I8B240000-155		
	86	(70 - 130)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1			
		Analysis Time..: 00:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2102	LCS Lot-Sample#: I8C020000-186		
	91	(70 - 130)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1			
		Analysis Time..: 13:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Corrosivity		Work Order #: CFDLG101	LCS Lot-Sample#: I8B160000-188		
	101	(90 - 110)	SW846 9045A	02/16/98	8047188
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Flashpoint		Work Order #: CFDMP101	LCS Lot-Sample#: I8B160000-152		
	100	(95 - 105)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1			
		Analysis Time..: 10:00			
Reactive Cyanide		Work Order #: CFDE0102	LCS Lot-Sample#: I8B160000-136		
	7.3	(1.0- 64)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1			
		Analysis Time..: 16:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFH8D102	LCS Lot-Sample#: I8B240000-155		
	86	(70 - 130)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1			
		Analysis Time..: 00:00			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CFLG2102	LCS Lot-Sample#: I8C020000-186		
	91	(70 - 130)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1			
		Analysis Time..: 13:00			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8B180000-226 **Prep Batch #...:** 8049226					
Barium	100	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA101
Cadmium	109	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA102
Chromium	101	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA103
Lead	93	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA104
Selenium	94	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA105
Silver	93	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA106
Arsenic	100	(80 - 120)	SW846 6010A Dilution Factor: 1 Analysis Time..: 14:20	02/18-02/19/98	CFETA107
LCS Lot-Sample#: I8B200000-213 **Prep Batch #...:** 8051213					
Mercury	99	(80 - 120)	SW846 7470A Dilution Factor: 1 Analysis Time..: 08:51	02/20-02/24/98	CFG8X101

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8049226									
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704									
Silver									
	ND	1.0	0.99	mg/L	99		SW846 6010A	02/18-02/19/98	CFDA210W
	ND	1.0	1.0	mg/L	101	1.4	SW846 6010A	02/18-02/19/98	CFDA210X
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Arsenic									
	ND	5.0	4.9	mg/L	98		SW846 6010A	02/18-02/19/98	CFDA2110
	ND	5.0	4.9	mg/L	98	0.32	SW846 6010A	02/18-02/19/98	CFDA2111
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Barium									
	ND	50.0	53.2	mg/L	101		SW846 6010A	02/18-02/19/98	CFDA210K
	ND	50.0	53.7	mg/L	102	1.0	SW846 6010A	02/18-02/19/98	CFDA210L
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Cadmium									
	ND	1.0	0.92	mg/L	91		SW846 6010A	02/18-02/19/98	CFDA210M
	ND	1.0	0.93	mg/L	92	1.0	SW846 6010A	02/18-02/19/98	CFDA210N
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Chromium									
	ND	5.0	4.8	mg/L	96		SW846 6010A	02/18-02/19/98	CFDA210P
	ND	5.0	4.9	mg/L	97	0.82	SW846 6010A	02/18-02/19/98	CFDA210Q
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Lead									
	ND	5.0	4.5	mg/L	91		SW846 6010A	02/18-02/19/98	CFDA210R
	ND	5.0	4.6	mg/L	92	0.70	SW846 6010A	02/18-02/19/98	CFDA210T
				Dilution Factor: 1					
				Analysis Time..: 14:27					
Selenium									
	ND	1.0	0.90	mg/L	90		SW846 6010A	02/18-02/19/98	CFDA210U
	ND	1.0	0.91	mg/L	91	1.5	SW846 6010A	02/18-02/19/98	CFDA210V
				Dilution Factor: 1					
				Analysis Time..: 14:27					

MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8051213
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704

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Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Mercury									
	ND	0.001	0.00089	mg/L	89		SW846 7470A	02/20-02/24/98	CFDA2114
	ND	0.001	0.00081	mg/L	81	9.4	SW846 7470A	02/20-02/24/98	CFDA2115

Dilution Factor: 1
Analysis Time..: 09:00

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8B150103 Work Order #...: CFDA2112-MS Matrix.....: SOLID
MS Lot-Sample #: I8B150103-001 CFDA2113-MSD
Date Sampled...: 02/12/98 10:15 Date Received..: 02/14/98
Leach Date.....: 02/16/98 Prep Date.....: 02/18/98 Analysis Date..: 02/26/98
Leach Batch #..: P804704 Prep Batch #...: 8049233 Analysis Time..: 15:19
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	ND	0.40	0.30	mg/L	76		SW846 8270B
	ND	0.40	0.30	mg/L	75	1.8	SW846 8270B
m-Cresol & p-Cresol	ND	0.80	0.64	mg/L	80		SW846 8270B
	ND	0.80	0.63	mg/L	78	2.0	SW846 8270B
1,4-Dichlorobenzene	ND	0.40	0.23	mg/L	56		SW846 8270B
	ND	0.40	0.23	mg/L	57	1.3	SW846 8270B
2,4-Dinitrotoluene	ND	0.40	0.29	mg/L	72		SW846 8270B
	ND	0.40	0.31	mg/L	79	8.2	SW846 8270B
Hexachlorobenzene	ND	0.40	0.21	mg/L	53		SW846 8270B
	ND	0.40	0.22	mg/L	55	5.0	SW846 8270B
Hexachlorobutadiene	ND	0.40	0.23	mg/L	57		SW846 8270B
	ND	0.40	0.24	mg/L	59	3.6	SW846 8270B
Hexachloroethane	ND	0.40	0.24	mg/L	59		SW846 8270B
	ND	0.40	0.25	mg/L	62	4.0	SW846 8270B
Nitrobenzene	ND	0.40	0.28	mg/L	70		SW846 8270B
	ND	0.40	0.29	mg/L	73	4.2	SW846 8270B
Pentachlorophenol	ND	0.40	0.27	mg/L	68		SW846 8270B
	ND	0.40	0.28	mg/L	71	4.4	SW846 8270B
Pyridine	ND	0.40	0.29	mg/L	72		SW846 8270B
	ND	0.40	0.30	mg/L	76	5.0	SW846 8270B
2,4,5-Trichlorophenol	ND	0.40	0.30	mg/L	74		SW846 8270B
	ND	0.40	0.32	mg/L	79	7.0	SW846 8270B
2,4,6-Trichlorophenol	ND	0.40	0.28	mg/L	69		SW846 8270B
	ND	0.40	0.28	mg/L	70	2.0	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
	71	(21 - 100)
Phenol-d5	83	(10 - 94)
	87	(10 - 94)
Nitrobenzene-d5	67	(35 - 114)
	70	(35 - 114)
2-Fluorobiphenyl	57	(43 - 116)
	55	(43 - 116)
2,4,6-Tribromophenol	67	(10 - 123)
	71	(10 - 123)
Terphenyl-d14	64	(33 - 141)
	50	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Volatiles

Client Lot #...: I8B150103 Work Order #...: CFFV210E-MS Matrix.....: SOLID
MS Lot-Sample #: I8B200120-002 CFFV210F-MSD
Date Sampled...: 02/19/98 10:30 Date Received..: 02/20/98
Leach Date.....: 02/23/98 Prep Date.....: 02/27/98 Analysis Date..: 02/27/98
Leach Batch #..: P805602 Prep Batch #...: 8062161 Analysis Time..: 19:00
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Vinyl chloride	ND	0.50	0.68	mg/L	136		SW846 8260A
	ND	0.50	0.70	mg/L	140	2.8	SW846 8260A
1,1-Dichloroethylene	ND	0.50	0.50	mg/L	100		SW846 8260A
	ND	0.50	0.55	mg/L	110	9.0	SW846 8260A
Chloroform	ND	0.50	0.48	mg/L	96		SW846 8260A
	ND	0.50	0.48	mg/L	95	0.20	SW846 8260A
1,2-Dichloroethane	ND	0.50	0.46	mg/L	91		SW846 8260A
	ND	0.50	0.47	mg/L	94	2.5	SW846 8260A
Methyl ethyl ketone	ND	0.50	0.13	mg/L	26		SW846 8260A
	ND	0.50	0.15	mg/L	30	14	SW846 8260A
Carbon tetrachloride	ND	0.50	0.53	mg/L	106		SW846 8260A
	ND	0.50	0.55	mg/L	110	4.0	SW846 8260A
Trichloroethylene	ND	0.50	0.52	mg/L	104		SW846 8260A
	ND	0.50	0.53	mg/L	106	2.7	SW846 8260A
Benzene	ND	0.50	0.48	mg/L	96		SW846 8260A
	ND	0.50	0.50	mg/L	99	3.2	SW846 8260A
Tetrachloroethylene	ND	0.50	0.59	mg/L	119		SW846 8260A
	ND	0.50	0.55	mg/L	110	7.8	SW846 8260A
Chlorobenzene	ND	0.50	0.52	mg/L	103		SW846 8260A
	ND	0.50	0.52	mg/L	105	1.2	SW846 8260A
1,4-Dichlorobenzene	ND	0.50	0.52	mg/L	103		SW846 8260A
	ND	0.50	0.53	mg/L	105	1.6	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	90	(86 - 115)
	93	(86 - 115)
Toluene-d8	103	(88 - 110)
	95	(88 - 110)
Dibromofluoromethane	102	(86 - 118)
	101	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide			WO#: CFD2Q10K-MS/CFD2Q10L-MSD			MS Lot-Sample #: I8B140105-001				
	ND	40	0.20	N	mg/kg	0.51		SW846 7.3.3	02/16-02/17/98	8047136
	ND	40	0.20	N	mg/kg	0.49	4.0	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1							
			Analysis Time..: 16:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA310K-MS/CFDA310L-MSD			MS Lot-Sample #: I8B150103-002				
	110	270	270	N	mg/kg	57		MCAWW 418.1	02/24-02/25/98	8055155
	110	270	200	N	mg/kg	32	29	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1							
			Analysis Time..: 13:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA510K-MS/CFDA510L-MSD			MS Lot-Sample #: I8B150103-004				
	550000	520	480000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
	550000	520	540000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1							
			Analysis Time..: 10:00							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT		UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide			WO#: CFD2Q10K-MS/CFD2Q10L-MSD			MS Lot-Sample #: I8B140105-001				
	ND	40	0.20	N	mg/kg	0.51		SW846 7.3.3	02/16-02/17/98	8047136
	ND	40	0.20	N	mg/kg	0.49	4.0	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1							
			Analysis Time..: 16:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA310K-MS/CFDA310L-MSD			MS Lot-Sample #: I8B150103-002				
	110	270	270	N	mg/kg	57		MCAWW 418.1	02/24-02/25/98	8055155
	110	270	200	N	mg/kg	32	29	MCAWW 418.1	02/24-02/25/98	8055155
			Dilution Factor: 1							
			Analysis Time..: 13:00							
Total Recoverable Petroleum Hydrocarbons			WO#: CFDA510K-MS/CFDA510L-MSD			MS Lot-Sample #: I8B150103-004				
	550000	520	480000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
	550000	520	540000	NC	mg/kg			MCAWW 418.1	03/01-03/03/98	8061186
			Dilution Factor: 1							
			Analysis Time..: 10:00							

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8049226							
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704							
Silver	99	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210W
	101	(80 - 120)	1.4	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210X
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Arsenic	98	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA2110
	98	(80 - 120)	0.32	(0-20)	SW846 6010A	02/18-02/19/98	CFDA2111
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Barium	101	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210K
	102	(80 - 120)	1.0	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210L
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Cadmium	91	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210M
	92	(80 - 120)	1.0	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210N
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Chromium	96	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210P
	97	(80 - 120)	0.82	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210Q
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Lead	91	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210R
	92	(80 - 120)	0.70	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210T
		Dilution Factor: 1					
		Analysis Time..: 14:27					
Selenium	90	(80 - 120)			SW846 6010A	02/18-02/19/98	CFDA210U
	91	(80 - 120)	1.5	(0-20)	SW846 6010A	02/18-02/19/98	CFDA210V
		Dilution Factor: 1					
		Analysis Time..: 14:27					
MS Lot-Sample #: I8B150103-001 **Prep Batch #...:** 8051213							
Leach Date.....: 02/16/98 **Leach Batch #..:** P804704							
Mercury	89	(75 - 125)			SW846 7470A	02/20-02/24/98	CFDA2114
	81	(75 - 125)	9.4	(0-20)	SW846 7470A	02/20-02/24/98	CFDA2115
		Dilution Factor: 1					
		Analysis Time..: 09:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8B150103 Work Order #...: CFDA2112-MS Matrix.....: SOLID
MS Lot-Sample #: I8B150103-001 CFDA2113-MSD
Date Sampled...: 02/12/98 10:15 Date Received..: 02/14/98
Leach Date.....: 02/16/98 Prep Date.....: 02/18/98 Analysis Date..: 02/26/98
Leach Batch #..: P804704 Prep Batch #...: 8049233 Analysis Time..: 15:19
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	**76**	**(21 - 137)**			**SW846 8270B**
	75	**(21 - 137)**	**1.8**	**(0-70)**	**SW846 8270B**
m-Cresol & p-Cresol	**80**	**(19 - 126)**			**SW846 8270B**
	78	**(19 - 126)**	**2.0**	**(0-94)**	**SW846 8270B**
1,4-Dichlorobenzene	**56**	**(26 - 112)**			**SW846 8270B**
	57	**(26 - 112)**	**1.3**	**(0-40)**	**SW846 8270B**
2,4-Dinitrotoluene	**72**	**(31 - 106)**			**SW846 8270B**
	79	**(31 - 106)**	**8.2**	**(0-55)**	**SW846 8270B**
Hexachlorobenzene	**53**	**(42 - 120)**			**SW846 8270B**
	55	**(42 - 120)**	**5.0**	**(0-39)**	**SW846 8270B**
Hexachlorobutadiene	**57**	**(33 - 111)**			**SW846 8270B**
	59	**(33 - 111)**	**3.6**	**(0-40)**	**SW846 8270B**
Hexachloroethane	**59**	**(26 - 102)**			**SW846 8270B**
	62	**(26 - 102)**	**4.0**	**(0-44)**	**SW846 8270B**
Nitrobenzene	**70**	**(42 - 120)**			**SW846 8270B**
	73	**(42 - 120)**	**4.2**	**(0-40)**	**SW846 8270B**
Pentachlorophenol	**68**	**(12 - 156)**			**SW846 8270B**
	71	**(12 - 156)**	**4.4**	**(0-76)**	**SW846 8270B**
Pyridine	**72**	**(1.0- 144)**			**SW846 8270B**
	76	**(1.0- 144)**	**5.0**	**(0-95)**	**SW846 8270B**
2,4,5-Trichlorophenol	**74**	**(29 - 123)**			**SW846 8270B**
	79	**(29 - 123)**	**7.0**	**(0-63)**	**SW846 8270B**
2,4,6-Trichlorophenol	**69**	**(19 - 122)**			**SW846 8270B**
	70	**(19 - 122)**	**2.0**	**(0-64)**	**SW846 8270B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	71	(21 - 100)
	71	(21 - 100)
Phenol-d5	83	(10 - 94)
	87	(10 - 94)
Nitrobenzene-d5	67	(35 - 114)
	70	(35 - 114)
2-Fluorobiphenyl	57	(43 - 116)
	55	(43 - 116)
2,4,6-Tribromophenol	67	(10 - 123)
	71	(10 - 123)
Terphenyl-d14	64	(33 - 141)
	50	(33 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: I8B150103 Work Order #...: CFFV210E-MS Matrix.....: SOLID
MS Lot-Sample #: I8B200120-002 CFFV210F-MSD
Date Sampled...: 02/19/98 10:30 Date Received..: 02/20/98
Leach Date.....: 02/23/98 Prep Date.....: 02/27/98 Analysis Date..: 02/27/98
Leach Batch #..: P805602 Prep Batch #...: 8062161 Analysis Time..: 19:00
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	**136**	**(1.0- 251)**			**SW846 8260A**
	140	**(1.0- 251)**	**2.8**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethylene	**100**	**(59 - 155)**			**SW846 8260A**
	110	**(59 - 155)**	**9.0**	**(0-30)**	**SW846 8260A**
Chloroform	**96**	**(51 - 136)**			**SW846 8260A**
	95	**(51 - 136)**	**0.20**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**91**	**(49 - 155)**			**SW846 8260A**
	94	**(49 - 155)**	**2.5**	**(0-30)**	**SW846 8260A**
Methyl ethyl ketone	**26**	**(25 - 250)**			**SW846 8260A**
	30	**(25 - 250)**	**14**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**106**	**(71 - 240)**			**SW846 8260A**
	110	**(71 - 240)**	**4.0**	**(0-30)**	**SW846 8260A**
Trichloroethylene	**104**	**(71 - 157)**			**SW846 8260A**
	106	**(71 - 157)**	**2.7**	**(0-30)**	**SW846 8260A**
Benzene	**96**	**(37 - 151)**			**SW846 8260A**
	99	**(37 - 151)**	**3.2**	**(0-30)**	**SW846 8260A**
Tetrachloroethylene	**119**	**(46 - 157)**			**SW846 8260A**
	110	**(46 - 157)**	**7.8**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**103**	**(37 - 160)**			**SW846 8260A**
	105	**(37 - 160)**	**1.2**	**(0-30)**	**SW846 8260A**
1,4-Dichlorobenzene	**103**	**(75 - 137)**			**SW846 8260A**
	105	**(75 - 137)**	**1.6**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	90	(86 - 115)
	93	(86 - 115)
Toluene-d8	103	(88 - 110)
	95	(88 - 110)
Dibromofluoromethane	102	(86 - 118)
	101	(86 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CFD2Q10K-MS/CFD2Q10L-MSD				MS Lot-Sample #: I8B140105-001	
	0.51 N	(1.0 - 64)			SW846 7.3.3	02/16-02/17/98	8047136
	0.49 N	(1.0 - 64)	4.0	(0-213)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA310K-MS/CFDA310L-MSD				MS Lot-Sample #: I8B150103-002	
	57 N	(70 - 130)			MCAWW 418.1	02/24-02/25/98	8055155
	32 N	(70 - 130)	29	(0-30)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1					
		Analysis Time..: 13:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA510K-MS/CFDA510L-MSD				MS Lot-Sample #: I8B150103-004	
	NC	(70 - 130)			MCAWW 418.1	03/01-03/03/98	8061186
	NC	(70 - 130)		(0-30)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1					
		Analysis Time..: 10:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Matrix.....:** SOLID
Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		WO#: CFD2Q10K-MS/CFD2Q10L-MSD				MS Lot-Sample #: I8B140105-001	
	0.51 N	(1.0 - 64)			SW846 7.3.3	02/16-02/17/98	8047136
	0.49 N	(1.0 - 64)	4.0	(0-213)	SW846 7.3.3	02/16-02/17/98	8047136
		Dilution Factor: 1					
		Analysis Time..: 16:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA310K-MS/CFDA310L-MSD				MS Lot-Sample #: I8B150103-002	
	57 N	(70 - 130)			MCAWW 418.1	02/24-02/25/98	8055155
	32 N	(70 - 130)	29	(0-30)	MCAWW 418.1	02/24-02/25/98	8055155
		Dilution Factor: 1					
		Analysis Time..: 13:00					
Total Recoverable Petroleum Hydrocarbons		WO#: CFDA510K-MS/CFDA510L-MSD				MS Lot-Sample #: I8B150103-004	
	NC	(70 - 130)			MCAWW 418.1	03/01-03/03/98	8061186
	NC	(70 - 130)		(0-30)	MCAWW 418.1	03/01-03/03/98	8061186
		Dilution Factor: 1					
		Analysis Time..: 10:00					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and RPD were not calculated.

Quanterra
Environmental Services

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Work Order #...:** CFD2Q-SMP CFD2Q-DUP **Matrix.....:** SOLID

Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #:	I8B140105-001	
	ND	ND	mg/kg	0	(0-213)	SW846 7.3.3	02/16-02/17/98	8047136
			Dilution Factor: 1					
			Analysis Time..: 16:00					
Reactive Sulfide						SD Lot-Sample #:	I8B140105-001	
	ND	ND	mg/kg	0	(0-20)	SW846 7.3.4	02/16/98/17/98	8047137
			Dilution Factor: 1					
			Analysis Time..: 00:00					

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SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I8B150103 **Work Order #...:** CFD2Q-SMP CFD2Q-DUP **Matrix.....:** SOLID

Date Sampled...: 02/13/98 09:00 **Date Received..:** 02/13/98

% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint						SD Lot-Sample #: I8B140105-001		
	>150	>150	deg F	0.0	(0-20)	SW846 1010	02/15-02/16/98	8047152
		Dilution Factor: 1						
		Analysis Time..: 00:00						
Corrosivity						SD Lot-Sample #: I8B140105-001		
	6.5	6.4	No Units	0.62	(0-20)	SW846 9045A	02/16/98/16/98	8047188
		Dilution Factor: 1						
		Analysis Time..: 00:00						

Chain of Custody Record

CHAIN OF CUSTODY NUMBER

* 0 0 0 8 7 3 - 0 0 1 *

IJ3150103

Quanterra

QUA-4149 (1097)

Client	Project Manager	Date
B.J. SERVICES	Rick Johnson	02/03/1998

Page 1 of 1

Address	Telephone Number (Area Code)/Fax Number	Lab Location
3250 SOUTHSIDE RIVER ROAD	(505) 327-6222 / (281) 363-7595	QUANTERRA - AUSTIN

City	State	Zip Code	Site Contact
FARMINGTON	NM	87401	Rick Johnson C/O LES BAUGH

Project Number/Name	Carrier/Waybill Number
Farmington, NM	

Contract/Purchase Order/Quote Number
CONTRACT / PURCHASE ORDER # : Farmington,NM RCRA QUOTE: 22409

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments
~~#1~~			~~SOLID~~	~~1000ml~~	~~CLEAR GL~~	~~3~~	~~None~~	
~~#2~~ FWT Back fill	2/12/98	1015	~~SOLID~~	~~1000ml~~	~~CLEAR GL~~	~~3~~	~~None~~	GOOD 4.5°C
FWT - Back fill		1030						
FWT - Solids / Sludge		1100	Solid	1000ml	Clear GL	3	None	RECEIVED 2/13/98
FWT - Sludge		1300	Sludge	500ml	Clear GL	3	None	

Analysis

A	T	C	S	F	M	M	M	C
M	R	N	D	L	S	6	7	O
O	P	R	L	A	8	0	4	R
I	H	E	R	S	2	1	7	R
S	I	A	E	H	7	0	0	O
T	R	C	A	;	O	T	T	S
3		T	C	S	;	P	P	
1			T		S			
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X	X

Special Instructions
~~Include COC, Custody Seals, Blue Ice~~ ~~10 sets 120ml & 250ml Protocol B~~
2 sets - 1L -Protocol A

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☒ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required
☐ Normal ☐ Rush ☐ Other _____

QC Level
☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	2/4/98	1400	1. Received By		
2. Relinquished By Rick N. Johnson	2/12/98	1700	2. Received By AIRBORNE EXPRESS		
3. Relinquished By			3. Received By	2-14-98	700

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

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): Kutz Hydrocarbon Recovery Facility Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): Sec. 11, Township 29 North, Range 11 West, San Juan Co., NM
4. Source and Description of Waste	Hydrocarbon contaminated soil and gravel from the west scrubber area.

I, David Bays 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)

_____ **EXEMPT** Oilfield waste

__X__ **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
__X__ RCRA Hazardous Waste Analysis
_____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: June 2, 1998

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	EPFS	Project #:	96003-36
Sample ID:	Tank & Barrel Comp.	Date Reported:	06-15-98
Lab ID#:	D361	Date Sampled:	06-08-98
Sample Matrix:	Soil	Date Received:	06-08-98
Preservative:	Cool	Date Analyzed:	06-09-98
Condition:	Cool & Intact	Chain of Custody:	6067

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.72**
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: **Kutz Oil Separator, Bloomfield.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	EPFS	Project #:	96003-36
Sample ID:	Tank & Barrel Comp.	Date Reported:	06-12-98
Laboratory Number:	D361	Date Sampled:	06-08-98
Chain of Custody:	6067	Date Received:	06-08-98
Sample Matrix:	Soil	Date Extracted:	06-09-98
Preservative:	Cool	Date Analyzed:	06-11-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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 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: **Kutz Oil Separator, Bloomfield.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	EPFS	Project #:	96003-36
Sample ID:	Tank & Barrel Comp.	Date Reported:	06-16-98
Laboratory Number:	D361	Date Sampled:	06-08-98
Chain of Custody:	6067	Date Received:	06-08-98
Sample Matrix:	Soil	Date Extracted:	06-09-98
Preservative:	Cool	Date Analyzed:	06-16-98
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. 19

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

Comments: **Kutz Oil Separator, Bloomfield.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	EPFS	Project #:	96003-36
Sample ID:	Tank & Barrel Comp.	Date Reported:	06-16-98
Laboratory Number:	D361	Date Sampled:	06-08-98
Chain of Custody:	6067	Date Received:	06-08-98
Sample Matrix:	Soil	Date Extracted:	06-09-98
Preservative:	Cool	Date Analyzed:	06-16-98
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 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: **Kutz Oil Separator, Bloomfield.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	EPFS	Project #:	96003-36
Sample ID:	Tank & Barrel Comp.	Date Reported:	06-15-98
Laboratory Number:	D361	Date Sampled:	06-08-98
Chain of Custody:	6067	Date Received:	06-08-98
Sample Matrix:	Soil	Date Analyzed:	06-12-98
Preservative:	Cool	Date Extracted:	06-09-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.0001**	**5.00**
Barium	**1.58**	**0.001**	**100**
Cadmium	**0.0006**	**0.0001**	**1.00**
Chromium	**ND**	**0.0001**	**5.00**
Lead	**0.0091**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

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, July 1, 1992.

Comments: **Kutz Oil Separator, Bloomfield.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	Method Blank	Date Reported:	06-12-98
Laboratory Number:	06-09 TCV MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-11-98
Condition:	N/A	Date Extracted:	06-09-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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: **QA/QC for samples D360 - D361.**

Analyst

Review

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ENVIROTECH 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:	06-16-98
Laboratory Number:	06-16-TCA-BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-16-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	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. 19

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

Comments: **QA/QC for sampleS D360 - D361.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER ENVIRONMENT

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	06-16-98
Laboratory Number:	D360	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	06-16-98
		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, 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. 198

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

Comments: **QA/QC for sampleS D360 - D361.**

Analyst

Review

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ENVIRO-TECH 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:	06-16-98
Laboratory Number:	06-09-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-09-98
Condition:	Cool & Intact	Date Analyzed:	06-16-98
		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	99%
	2,4,6-Tribromophenol	101%

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. 19

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

Comments: **QA/QC for sampleS D360 - D361.**

Analyst

Review

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ENVIRO-TECH 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:	Method Blank	Date Reported:	06-16-98
Laboratory Number:	06-09-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-09-98
Condition:	Cool and Intact	Date Analyzed:	06-16-98
		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 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: **QA/QC for samples D360 - D361.**

Analyst

Review

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ENVIRO-TECH 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:	06-16-98
Laboratory Number:	D360	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	06-16-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for samples D360 - D361.**

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 #:	N/A
Sample ID:	06-12-TCM QA/QC	Date Reported:	06-15-98
Laboratory Number:	D360	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	06-15-98
Condition:	N/A	Date Extracted:	06-09-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	**ND**	**ND**	**0.0001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Barium	**ND**	**ND**	**0.001**	**1.28**	**1.27**	**0.8%**	**0% - 30%**
Cadmium	**ND**	**ND**	**0.0001**	**0.0008**	**0.0008**	**0.0%**	**0% - 30%**
Chromium	**ND**	**ND**	**0.0001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Lead	**ND**	**ND**	**0.0001**	**0.0084**	**0.0085**	**1.2%**	**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%**

Spike Conc. (mg/L)	Sample Conc.	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	**0.1000**	**ND**	**0.0998**	**100%**	**80% - 120%**
Barium	**1.000**	**1.28**	**2.27**	**100%**	**80% - 120%**
Cadmium	**0.0500**	**0.0008**	**0.0507**	**100%**	**80% - 120%**
Chromium	**0.0500**	**ND**	**0.0496**	**99%**	**80% - 120%**
Lead	**0.1000**	**0.0084**	**0.108**	**100%**	**80% - 120%**
Mercury	**0.0250**	**ND**	**0.0248**	**99%**	**80% - 120%**
Selenium	**0.1000**	**ND**	**0.0996**	**100%**	**80% - 120%**
Silver	**0.0500**	**ND**	**0.0497**	**99%**	**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 D360 - D361.**

Analyst

Review

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96003-

CHA N OF CUS 'O)Y RECORD

6067

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
EPFS Kutz oil sep.	Bloomfield Kutz oil separator	
Sampler: Randy w Rutledge	Client No. 96003-36	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/HAP						Remarks
N POND	6/8/94	0855	D360	Soil	1	X						
TANK & BARREL comp	6/8/94	0900	D361	Soil	1	X						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Randy w Rutledge	6/8/94	0945	Denise L. Quinn	6-9-94	0945
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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

Roger Anderson
Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env. JN: 96003-36

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Kutz Hydrocarbon Recovery Facility
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech/Fraccaro
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 11, T29N, R11W, SJC, NM.

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:

Sludge & solids from north (non-exempt) wastewater Disposal Pond.

TCLP ATTACHED.

RECEIVED
JUN 13 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec 6/22/98

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) 630 bbls cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Mgr DATE: 6-18-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/18/98

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 6/22/98

Roger Anderson

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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 1 Copy to appropriate District Office

Env. JN: 96003-36

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Kutz Hydrocarbon Recovery Facility
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech/Freeman
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 11, T29N, R11W, SJC, NM.

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:

Sludge & solids from north (non-exempt) wastewater Disposal Pond.

TCLP ATTACHED.

RECEIVED
JUN 18 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec 6/22/98

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Mgr DATE: 6-18-98
Waste Management Facility/Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 6/18/98

APPROVED BY: Martyne Kieling TITLE: Env Geologist DATE: 6/22/98

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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

RECEIVED
JUN 24 1998
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env. JN: 96053-36

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Kutz Hydrocarbon Recovery Facility
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech/Freemyer
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 11, T29N, R11W, SJC, NM.

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:

Sludge & solids from north (non-exempt) wastewater Disposal Pond.

TCLP attached

RECEIVED
JUN 26 1998
OIL CON. DIV.
DIST. 3

RECEIVED
JUN 18 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Mgr DATE: 6-18-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/18/98

APPROVED BY: _____ TITLE: _____ DATE: _____

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): Kutz Hydrocarbon Recovery Facility Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): Sec. 11, Township 29 North, Range 11 West, San Juan Co., NM
4. Source and Description of Waste	Sludge and solids from the north (non-exempt) wastewater disposal pond.

I, David Bays 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)

___ **EXEMPT** Oilfield waste

__X__ **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
__X__ RCRA Hazardous Waste Analysis
_____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: June 2, 1998

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	EPFS	Project #:	96003-36
Sample ID:	N Pond	Date Reported:	06-15-98
Lab ID#:	D360	Date Sampled:	06-08-98
Sample Matrix:	Soil	Date Received:	06-08-98
Preservative:	Cool	Date Analyzed:	06-09-98
Condition:	Cool & Intact	Chain of Custody:	6067

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.24**
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:	**Kutz Oil Separator, Bloomfield.**

Analyst

Review

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	EPFS	Project #:	96003-36
Sample ID:	N Pond	Date Reported:	06-12-98
Laboratory Number:	D360	Date Sampled:	06-08-98
Chain of Custody:	6067	Date Received:	06-08-98
Sample Matrix:	Soil	Date Extracted:	06-09-98
Preservative:	Cool	Date Analyzed:	06-11-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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 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: **Kutz Oil Separator, Bloomfield.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	EPFS	Project #:	96003-36
Sample ID:	N Pond	Date Reported:	06-16-98
Laboratory Number:	D360	Date Sampled:	06-08-98
Chain of Custody:	6067	Date Received:	06-08-98
Sample Matrix:	Soil	Date Extracted:	06-09-98
Preservative:	Cool	Date Analyzed:	06-16-98
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	**101%**
	2,4,6-Tribromophenol	**100%**

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. 19

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

Comments: **Kutz Oil Separator, Bloomfield.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	EPFS	Project #:	96003-36
Sample ID:	N Pond	Date Reported:	06-16-98
Laboratory Number:	D360	Date Sampled:	06-08-98
Chain of Custody:	6067	Date Received:	06-08-98
Sample Matrix:	Soil	Date Extracted:	06-09-98
Preservative:	Cool	Date Analyzed:	06-16-98
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 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: **Kutz Oil Separator, Bloomfield.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	EPFS	Project #:	96003-36
Sample ID:	N Pond	Date Reported:	06-15-98
Laboratory Number:	D360	Date Sampled:	06-08-98
Chain of Custody:	6067	Date Received:	06-08-98
Sample Matrix:	Soil	Date Analyzed:	06-12-98
Preservative:	Cool	Date Extracted:	06-09-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.0001**	**5.00**
Barium	**1.28**	**0.001**	**100**
Cadmium	**0.0008**	**0.0001**	**1.00**
Chromium	**ND**	**0.0001**	**5.00**
Lead	**0.0084**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

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, July 1, 1992.

Comments: **Kutz Oil Separator, Bloomfield.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIRO-TECH 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:	06-12-98
Laboratory Number:	06-11 TCV BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-11-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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-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: **QA/QC for samples D360 - D361.**

Analyst

Review

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ENVIROTECH 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:	06-16-98
Laboratory Number:	06-16-TCA-BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-16-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	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. 19

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

Comments: **QA/QC for sampleS D360 - D361.**

Analyst

Review

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ENVIRO-TECH LABS

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:	06-16-98
Laboratory Number:	D360	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	06-16-98
		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, 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. 198

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

Comments: **QA/QC for sampleS D360 - D361.**

Analyst

Review

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

ENVIROTECH 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:	06-16-98
Laboratory Number:	06-09-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-09-98
Condition:	Cool & Intact	Date Analyzed:	06-16-98
		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	99%
	2,4,6-Tribromophenol	101%

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. 19

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

Comments: **QA/QC for sampleS D360 - D361.**

Analyst

Review

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ENVIRO-TECH 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:	06-16-98
Laboratory Number:	06-16-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:	06-16-98
		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 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: **QA/QC for samples D360 - D361.**

Analyst

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ENVIRO-TECH 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:	06-16-98
Laboratory Number:	D360	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	06-16-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for samples D360 - D361.**

Analyst

Review

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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 #:	N/A
Sample ID:	06-12-TCM QA/QC	Date Reported:	06-15-98
Laboratory Number:	D360	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	06-15-98
Condition:	N/A	Date Extracted:	06-09-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.28	1.27	0.8%	0% - 30%
Cadmium	ND	ND	0.0001	0.0008	0.0008	0.0%	0% - 30%
Chromium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.0001	0.0084	0.0085	1.2%	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%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.1000	ND	0.0998	100%	80% - 120%
Barium	1.000	1.28	2.27	100%	80% - 120%
Cadmium	0.0500	0.0008	0.0507	100%	80% - 120%
Chromium	0.0500	ND	0.0496	99%	80% - 120%
Lead	0.1000	0.0084	0.108	100%	80% - 120%
Mercury	0.0250	ND	0.0248	99%	80% - 120%
Selenium	0.1000	ND	0.0996	100%	80% - 120%
Silver	0.0500	ND	0.0497	99%	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 D360 - D361.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

96003-

6067

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
EPFS Kutz oil sep.	Bloomfield Kutz oil separator	
Sampler: Randy w Rutledge	Client No. 96003-36	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/BTEX						Remarks
N POND	6/8/94	0855	D360	Soil	1	X						
TANK BATTERY COMP.	6/8/94	0900	D361	Soil	1	X						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Randy w Rutledge	6/8/94	0945	Brian L. Cain	6-9-94	0945
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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 1 Copy
to appropriate
District Office

Env. JN: 96003-36

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ Denny Foust 11:30 6-18-98
2. Management Facility Destination: Envirotech Soil Remedia. Facility Landfarm #2
3. Address of Facility Operator: 5796 US Highway 64 Farmin ton NM 87401
4. Generator: EPFS,
5. Originating Site: Kutz Hydro Recovery Facili
6. Transporter: Envirotech
7. Location of Material (Street Address or ULSTR): Sec 11, T29N, R11W SJC, NM
8. State: New Mexico
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:

Sludge & solids from south (Exempt) wastewater disposal Pond.

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DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 82066/s cy

SIGNATURE: Harlan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm MNGR DATE: 6-18-98

TYPE OR PRINT NAME: HARLAN M BROWN TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G Foust TITLE: Geologist DATE: 6/18/98

APPROVED BY: Ernie Busch TITLE: DATE:

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): Kutz Hydrocarbon Recovery Facility Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): Sec. 11, Township 29 North, Range 11 West, San Juan Co., NM
4. Source and Description of Waste	Sludge and solids from the south (exempt) wastewater disposal pond.

I, David Bays 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
_____ RCRA Hazardous Waste Analysis
_____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: June 2, 1998

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Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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

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Originated 8/8/95

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District Office

Env. JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 6.9.98 15105	4. Generator Robert L. Bayless
	5. Originating Site Tocito Central Tank Battery
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Robert L. Bayless
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec. 20, T26N, R18W San Juan County, NM.

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:

Spent "sulfatreat" granules,

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Never Hauled

Estimated Volume ± 4 Cy cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management FacilityAuthorized Agent TITLE: Landfarm Mngr DATE: 6-11-98

TYPE OR PRINT NAME: HARLAN M. BROWN TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/12/98

APPROVED BY: Ernie Busch TITLE: _____ DATE: _____

335

Verbal
Denny Foust
6.8.98
15:05

RECEIVED JUN 08 1998

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
ROBERT L. BAYLESS, PRODUCER PO BOX 168, FARMINGTON, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name): TOCITO DOME CENTRAL TANK BATTERY
SECTION 20, T26N, R18W
SAN JUAN COUNTY, NM

Location of the Waste (Street address &/or ULSTR):

Attach list of originating sites as appropriate

4. Source and Description of Waste
WASTE IS SPENT CHEMICAL USED TO REMOVE HYDROGEN SULFIDE FROM NATURAL GAS. SULFATREAT IS AN IRON PYRITE COMPOUND ON A CLAY MATRIX. SPENT CHEMICAL CONTRAINS IRON SULFIDE. CHEMICAL LOOKS LIKE GREY DUSTY GRAVEL.

I, TOM MCCARTHY (Print Name) representative for:
ROBERT L. BAYLESS 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):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Tom McCarthy

Title: ENGINEER

Date: 6/5/98

ROBERT L. BAYLESS
P. O. BOX 168
FARMINGTON, NM 87499

FAX NO.
(505) 326-6911

OFFICE NO.
(505) 326-2659

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JUL 8 1998
OIL CON. DIV.
DIST. 3

Mr. Denny Foust
Oil Conservation Division
1000 Rio Brazos Rd.
Aztec, NM 87410

Re: Tocito Dome Field
Sulfatreat waste transported to Envirotech

Dear Denny,

The NORM radiation test results for the subject waste is attached, pursuant to your request of July 7th. You were previously provided this information by fax. The radiation readings appear to be well below allowable levels.

Please contact me if you require any additional information.

Sincerely,

Tom McCarthy
Petroleum Engineer

Encl.

AMERICAN RADIATION SERVICES, INC.

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1 (800) 401-4277 • Fax (504) 927-6822

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American Radiation Services, Inc.

Laboratory Analysis Report

Prepared For:

Inter-Mountain Lab.
Fran Armenta
2506 W. Main Str.
Farmington, N.M. 87401
Phone: 505-326-4737
Fax: 505-325-4182

Brad Langdeau
Quality Assurance Review

Danny L. Coleman
Laboratory Manager

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

AMERICAN RADIATION SERVICES, INC.

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ARS Tracking Number:	ARS-98-0546	**P.O. Number:**	217245
Client I.D.:	GO 2994	**ARS Sample I.D.:**	ARS-98-1921
Date Sampled:	N/A	**Date Received:**	5/27/98
Time Sampled:	N/A	**Time Received:**	0930
Type of Sample:	Solid	**Date of Report:**	6/1/98

Analysis Description	Analysis Result	Analysis Error $\pm 2\sigma$	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Ra-226	2.02	0.93	0.36	pCi/g	EPA 901.1M	5/29/98 0747	mk
Ra-228	0.80	0.13	0.04	pCi/g	EPA 901.1M	5/29/98 0747	mk
U-238	1.38	0.54	0.29	pCi/g	EPA 901.1M	5/29/98 0747	mk
U-235	0.42	0.22	0.07	pCi/g	EPA 901.1M	5/29/98 0747	mk
K-40	8.11	1.03	0.17	pCi/g	EPA 901.1M	5/29/98 0747	mk
Bi-214	0.69	0.11	0.03	pCi/g	EPA 901.1M	5/29/98 0747	mk
Pb-210	BDL	N/A	0.32	pCi/g	EPA 901.1M	5/29/98 0747	mk
Total Activity	19.24	N/A	N/A	pCi/g	EPA 901.1M	5/29/98 0747	mk

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Quality Assurance Review

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Notes:

Comments:

1.0) Soil and Sludge analysis are reported on a wet basis or an as received basis unless otherwise indicated.
2.0) The data in this report are within the limits of uncertainty specified in the reference method unless specified.
3.0) Modified analysis procedures are procedures that are modified to meet the certain specifications. An example may be the use of a water method to analyze a solid matrix due to the lack of an officially recognized procedure for the analysis of the solid matrix.
4.0) Derived Air Concentrations and Effluent Release Concentrations are obtained from 10 CFR 20 Appendix B
5.0) Total activity is actually total gamma activity and is determined utilizing the prominent gamma emitters from the naturally occurring radioactive decay chains and other prominent radioactive nuclides. Total activity may be lower than actual total activity due to the extent of secular equilibrium achieved in the various decay chains at the time of analysis. The total activity is not representative of nuclides that emit solely alpha or beta particles.
6.0) Ra-228 is determined via secular equilibrium with its daughter, Actinium 228. (Gamma Spectroscopy only)
7.0) U-238 is determined via secular equilibrium with its daughter, Thorium 234. (Gamma Spectroscopy only)
8.0) All Gamma spectroscopy was performed utilizing high purity germanium detectors (HPGE).

Method References:

1.0) EPA 600/4-80-032, Prescribed Procedures for the Measurement of Radioactivity in Drinking Water, August 1980.
2.0) Standard Methods for the Examination of Water and Waste Water, 18th, 1992
3.0) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86). (Updated through 1995)
4.0) EPA 600/4/79-020, Methods for Chemical Analysis of Water and Waste, March 1983.
5.0) HASL 300

Definitions:

1.0)	BDL	Analyte not detected because the value was below the detection limit.
2.0)	ND	Not detected above the detection limit.
3.0)	Detection Limit	The minimum amount of the analyte that ARS can detect utilizing the specific analysis.
4.0)	B	Method Blank
5.0)	D	Method Duplicate
6.0)	MS	Matrix Spike
7.0)	S	Spike
8.0)	RS	Reference Spike
9.0)	*SC	Subcontracted out to another qualified laboratory
10.0)	NR	Not Referenced

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imi
Inter- Mountain
Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES / PARAMETERS
R.L. Bayless	Tocito	
Sampler: (Signature) Palmer Knepp	**Chain of Custody Tape No.**	

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	Norm				Remarks
Sulfa-Clean	5/26/98	1330		SOLID	2	✓				
										HAND Delivered Intact

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Palmer Knepp	5/26/98	1500	Shawn Williams	5/26/98	1500
Relinquished by: (Signature)	**Date**	**Time**	**Received by: (Signature)**	**Date**	**Time**
Relinquished by: (Signature)	**Date**	**Time**	**Received by laboratory: (Signature)**	**Date**	**Time**

Inter-Mountain Laboratories, Inc.

1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

1701 Phillips Circle
Gillette, Wyoming 82718
Telephone (307) 682-8945

2506 West Main Street
Farmington, NM 87401
Telephone (505) 326-4737

1160 Research Drive
Bozeman, Montana 59718
Telephone (406) 586-8450

11183 State Hwy. 30
College Station, TX 77845
Telephone (409) 776-8945

54999

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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

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Originated 8/8/95

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Coyote Gulch
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter FREEMYER
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Colorado → New Mexico
7. Location of Material (Street Address or ULSTR) Sec 17, T32N, R11W.	Southern Ute Res, La Plata County, Colorado

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:

Charcoal Filtration media. - Contamination

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OIL CON. DIV.
DIST. 3

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) 6 cy

SIGNATURE: Harlan M Brown TITLE: Land Farm Mngr DATE: 6-11-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: HARLAN M. BROWN TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/12/98

APPROVED BY: Ernie Busch TITLE: " DATE: "

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): Coyote Gulch Gas Treating Plant Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): Southern Ute Reservation, La Plata County. Colorado
4. Source and Description of Waste Activated carbon granules from the amine sweetening plant filtration system.	

I, David Bays 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
____ RCRA Hazardous Waste Analysis
____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: June 9, 1998

ORIGINAL

CERTIFICATE FROM OUT-OF-STATE AGENCY AUTHORIZING REMOVAL OF RCRA EXEMPT OIL FIELD WASTE FROM SOUTHERN UTE INDIAN TRIBE JURISDICTION TO NEW MEXICO

I have reviewed the submitted information concerning the exempt oil field waste material from the El Paso Field Services Coyote Gulch Plant located in Section 17, Township 32N, Range 11W and agree that by its description it is exempt as defined by the Resource Conservation and Recovery Act.

X The material is exempt oil field waste.

X No determination is made on the possible hazardous nature of the waste, due to the exempt status.

THEREFORE:
As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed to New Mexico for disposal at Envirotech Landfarm.

NAME: Michael A. Frost TITLE: Director of Environmental Programs

SIGNATURE: _____ DATE: 12/1/97

AGENCY: Southern Ute Indian Tribe

ADDRESS: P.O. Box 737, Ignacio, CO 81137

PHONE: (970) 563-0135

District I · (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II · (505) 748-1283
811 S. First
Artesia, NM 88210
District III · (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 96052

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 5-8-98	4. Generator Phillips Petroleum
	5. Originating Site Blanco 202 SJ 32-8 # 236
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Cimmaron
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 26, T31N, R8W San Juan 32-8 #236

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:

Soil Contaminated w/ Tretolite CG00118F (corrosion inhibitor)

MSDS & Phillips letter ATTACHED.

RECEIVED
MAY 11 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 2 cy Known Volume (to be entered by the operator at the end of the haul) 6 cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Mgr. DATE: 5-11-98

TYPE OR PRINT NAME: HARLAN M. BROWN TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/12/98

APPROVED BY: Jamie Bailey TITLE: Geologist DATE: 5/14/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NEBU 3004 Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm Hilltop, New Mexico
3. Originating Site (name): San Juan 32-8 #236	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste: Soil	

I, Robert A.Wirtanen representative for:
(Print Name)
Phillips Petroleum Company 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):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description) NORM testing results.

Name (Original Signature): RA Wirtanen 5-4-98

Title: Senior Safety and Environmental Specialist

Date: 5/4/98

INSPECTION FOR N.O.R.M. CONTAMINATION
CIMARRON OILFIELD SERVICES
ENVIRONMENTAL DIVISION

Location: Phillips Lower Yard Date: 5/4/98

Survey Instrument Model: Victoreen #290 Last Calibrated: 8/11/97

Item Description: Soil

Number of Pieces: 1

Location Where Items Originated: 32-8 #236

Background Reading: .0002 uR/hr

Highest NORM reading: .0015 uR/hr (corrected for background)

Lowest NORM reading: .0010 uR/hr (corrected for background)

Any samples taken? If so, how many? None

---

1 Pieces inspected.

All Pieces found to be free of NORM contamination.

None Pieces found to have NORM contamination.

Remarks: No NORM found

Inspector: Bill Schaaphok

What is final disposition: Envirotech Landfarm

Released to: Date:

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NEBU 3004 Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm Hilltop, New Mexico
3. Originating Site (name): Blanco #202	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste: Soil	

I, Robert A.Wirtanen representative for:
(Print Name)
Phillips Petroleum Company 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):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description) NORM testing results.

Name (Original Signature): RA Wirtanen 5-4-98

Title: Senior Safety and Environmental Specialist

Date: 5/4/98

INSPECTION FOR N.O.R.M. CONTAMINATION
PHILLIPS PETROLEUM COMPANY

Location: Phillips Petroleum Company Date: 3/31/98

Survey Instrument Model: 290 s/n 1289 Last Calibrated: 8/11/97

Manufacturer:

Item Description: Soil

Number of Pieces: 3 yd^3

Location Where Items Originated:

Background Reading: 52 uR/hr

Highest **NORM** reading: 74 uR/hr (corrected for background)

Lowest **NORM** reading: 40 uR/hr (corrected for background)

Any samples taken? If so, how many? none

3 yd3 Pieces Inspected.

3 yd3 Pieces found to be free of **NORM** contamination.

0 Pieces found to have **NORM** contamination.

Remarks: none

Inspector: Maria Adkins

What is final disposition: No NORM contamination

Released to: Envirotech Date: 3/31/98

PHILLIPS PETROLEUM COMPANY
FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

Denny Foust
NMOCD
1000 Rio Brazos Rd.
Aztec, NM 87410

May 5, 1998

Dear Mr. Foust,

Pursuant to your request the chemical CGO 118F had previously been downhole before the spill occurred. Attached is the Material Safety Data Sheet (MSDS) as requested.

Regards,

Robert A. Wirtanen

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: TRETOLITE ® CGO0118F

MANUFACTURER/SUPPLIER	EMERGENCY TELEPHONE NUMBERS (24 HOUR):
Baker Petrolite **3900 Essex Lane** **Houston, TX 77027-5133** **CUSTOMER CARE: 1-800-231-3606** **For information call 713-599-7400**	**Chemtrec: 800-424-9300**
Preparer: Regulatory Info Grp	Date of Last Revision: 05/04/97
Title:	Supercedes MSDS Dated: 04/30/97

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	HAZARDOUS INGREDIENTS	CAS #	WT/WT %
01	Isopropanol	67-63-0	10-30
02	Ethylene glycol	107-21-1	1-5
03	Fatty quaternary ammonium chloride	Trade Secret	5-10
04	Light aromatic naphtha	64742-95-6	60-100
05	Dialkyldithiophosphate	Trade Secret	5-10
06	Fatty acid/polyamine reaction product	Trade Secret	5-10
07	Alkylphosphate salt of a polyaminoamide	Trade Secret	1-5

ITEM	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL	TLV-TWA	SKIN
01	400 ppm	500 ppm	400 ppm	N.E.	N.E.	N
02	N.E.	100mg/m3 (C)	N.E.	N.E.	N.E.	N
03	N.E.	N.E.	N.E.	N.E.	N.E.	N
04	N.E.	N.E.	N.E.	N.E.	N.E.	N
05	N.E.	N.E.	N.E.	N.E.	N.E.	N
06	N.E.	N.E.	N.E.	N.E.	N.E.	N
07	N.E.	N.E.	N.E.	N.E.	N.E.	N

LEGEND:
N.A.: Not Applicable
N.E.: Not Established
N.D.: Not Determined
(C): Ceiling Limit
Y: Skin absorption is significant to overall exposure
N: Skin absorption is not significant

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

APPEARANCE: Amber liquid

ODOR: Mercaptan odor

SIGNIFICANT HAZARDS:

FLAMMABLE liquid and vapor. Skin and eye irritant. May cause irritation to the respiratory tract. Contains a material which can be absorbed through the skin. Contains a material which can cause liver and kidney damage. Contains a material which can cause nervous system effects. Contains a material which may cause embryo/fetotoxicity based on animal data. Contains a material which may cause effects to the blood and/or bone marrow. Contains a material which may cause cardiac effects. Contains a material which may cause birth defects based on

Product Name:	TRETOLITE ® CGO0118F	Date of Last Revision:	05/04/97

SECTION 3 - HAZARDS IDENTIFICATION - continued

animal data. Contains a material which may cause cancer based on animal data.

POTENTIAL HEALTH EFFECTS

EYE CONTACT:
Direct eye contact may cause mild to severe irritation and may produce moderate, but reversible eye injury.

SKIN CONTACT:
Direct skin contact may cause irritation. Prolonged and repeated skin contact may cause irritation and possibly dermatitis. A component(s) of this product may be slightly absorbed through the skin upon direct contact, possibly resulting in toxic effects similar to those of inhalation.

INHALATION:
Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Prolonged, repeated, or high exposures may cause chemical pneumonitis and, in extreme cases, pulmonary edema. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness. Acute overexposure to a component(s) in this product has been shown to cause cardiac injury. Ingestion of ethyl alcohol in conjunction with exposure to a component(s) of this product may increase the adverse health effects expected from ethyl alcohol alone.

INGESTION:
Harmful if swallowed. May cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea. Aspiration into lungs may cause pulmonary edema and chemical pneumonitis. May be readily absorbed through the gastrointestinal tract. Effects of ingestion are similar to those of inhalation. Ingestion of ethylene glycol can result in metabolic disturbances (metabolic acidosis, hypoglycemia) as well as adverse cardiovascular effects and adverse renal effects which have led to death. Ingestion of isopropanol can result in adverse visual effects (decreased visual acuity, edema of the optic disk) and cardiovascular toxicity (hypotension, arrhythmias, cardiac arrest). In extreme cases, ingestion of high concentrations of a component(s) of this product may result in a coma.

CHRONIC EFFECTS:
Prolonged, repeated or high exposures to ethylene glycol may cause severe kidney damage. Ethylene glycol has been shown to produce birth defects in rats and mice when dosed at high concentrations and is considered to be an animal teratogen. However, there is no information currently available to suggest that ethylene glycol has caused birth defects in humans. A component(s) of this product may cause kidney and liver damage upon prolonged and repeated overexposures. A component(s) of this product has been shown to cause adverse liver and kidney effects in laboratory animals. Increased organ weight in the spleen and liver was observed in rats following prolonged, repeated inhalation of isopropanol at a concentration of 8000 ppm. A component(s) of this product has been shown to cause adverse blood, bone marrow and cardiac effects in laboratory animals. Animal studies have shown that a component(s) of this product is associated with adverse effects or embryo/fetotoxicity at maternally toxic dosage levels. A component(s) of this product has been associated with hemolitic anemia and fetal toxicity at high doses. Studies have shown that repeated inhalation of a component(s) of this product has caused adverse blood effects in laboratory animals.

CARCINOGENICITY:
From skin-painting studies of petroleum distillates of similar composition and distillate range, it has been shown that these types of materials often possess weak carcinogenic activity in laboratory animals. In these tests, the material is painted on the shaved backs of mice twice a week for their lifetime. The material is not washed off between applications. Therefore, there may be a potential risk of skin cancer from prolonged or repeated skin contact in the absence of good personal hygiene.

SECTION 4 - FIRST AID MEASURES

FIRST AID PROCEDURES

EYES:
If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

SKIN:
Wash skin thoroughly with soap and water. If rash or irritation develops, consult a physician. Launder clothing before reuse.

INHALATION:
If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

INGESTION:
Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Have the victim drink 8 to 10 ounces (240 - 300 ml) of water to dilute the material in the stomach. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have the victim lean forward to reduce the risk of aspiration into the lungs. Consult a physician immediately.

NOTE TO PHYSICIAN

CONTINUED ON NEXT PAGE

Product Name:	TRETOLITE ® CG00118F	Date of Last Revision:	05/04/97

SECTION 4 - FIRST AID MEASURES - continued

NOTE TO PHYSICIAN:
To prevent kidney damage, administer ethanol intravenously, as a 5% solution in sodium bicarbonate, at a rate of 10 mL of ethanol per hour. Hemodialysis may be required.

SECTION 5 - FIRE-FIGHTING MEASURES

Flashpoint and Method:	19 C (66 F) SFCC ASTM D-3828	Autoignition Temperature:	N.D.
Flammable Limits:	LEL: N.D.	UEL:	N.D.

HAZARDOUS COMBUSTION PRODUCTS:
Hydrogen chloride (HCl) and oxides of nitrogen, sulfur and phosphorus. Hydrogen sulfide. Carbon monoxide. Carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. This product contains a thiophosphate ingredient which may liberate hydrogen sulfide or low molecular weight mercaptans on thermal decomposition or contact with water.

EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical, Foam, Water Fog

FIRE-FIGHTING INTRUCTIONS:
Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode. Flammable. Cool fire-exposed containers using water spray.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

LEAKS OR SPILLS:
Use personal protective equipment as necessary. Absorb with suitable chemical absorbent. Dispose of material in accordance with all federal, state and local regulations. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

OTHER:
No known information.

Refer to Section 15 for regulatory reporting requirements in the event of an accidental release.

SECTION 7 - HANDLING AND STORAGE

HANDLING AND STORAGE:
Flammable liquid. Avoid heat, sparks and open flames. Avoid breathing vapor and contact with eyes, skin and clothing. Keep container closed when not in use. Chemical residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning. Use in well ventilated area.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT (PPE):
Chemical resistant gloves and chemical goggles should be used to prevent skin and eye contact.

RESPIRATORY PROTECTION:
When concentrations exceed the exposure limits specified, use of a NIOSH approved full facepiece organic vapor cartridge respirator is recommended. Where the protection factor may be exceeded, use of a full facepiece supplied air respirator or Self Contained Breathing Apparatus (SCBA) may be necessary.

CONTINUED ON NEXT PAGE

Product Name: TRETOLITE ® CGO0118F	Date of Last Revision: 05/04/97

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Solubility in Water: Dispersible	pH @ 5.0% Water: N.D
Density @ 60 F (16 C): 7.50 lb/USgal	Evaporation Rate: Is slower than Ether
Boiling Point ASTM D-86: N.D.	Vapor Density: Is heavier than air
Vapor Pressure: 1.0032 PSIA @ 68 F (22 C)	Physical State: Liquid

SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:
Keep away from strong oxidizing agents, heat and open flames. This product contains an ingredient which may liberate hydrogen sulfide or low molecular weight mercaptans on dilution with water. A respirator suitable for H2S may be necessary in the event of a spill or contact with water.

HAZARDOUS DECOMPOSITION PRODUCTS:
No known information.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT TOXICOLOGICAL INFORMATION

No known information
OTHER:
No known information.

COMPONENT TOXICOLOGICAL INFORMATION:

Component	LD_{50} Dermal	LD_{50} Oral	LC_{50} Inhalation
Isopropanol	12800 mg/kg-RB	5045 mg/kg-R	19000 ppm/8H-R(F)
Ethylene glycol	9530 mg/kg-RB	4700 mg/kg-R	N.D.
Fatty quaternary ammonium chloride	N.D.	N.D.	N.D.
Light aromatic naphtha	N.D.	2900 mg/kg-R	N.D.
Dialkyldithiophosphate	> 8 g/kg-RB	9.2 g/kg-R	> 0.02 mg/l-R
Fatty acid/polyamine reaction product	>20g/kg-RB	>16g/kg-R	N.D.
Alkylphosphate salt of a polyaminoamide	N.D.	N.D.	N.D.

LEGEND: R = Rat; RB = Rabbit; M = Mouse; GP = Guinea Pig

SKIN AND EYE SCORE: 1 = No Effect / Slight Irritant; 2 = Moderate Irritant; 3 = Strong Irritant; 4 = Skin: Extreme Irritant ; Eye: Extreme Irritant/Corrosive

SECTION 12 - ECOLOGICAL INFORMATION

An ECOTOX ®Report is available for this product. Please contact Baker Petrolite Corporation for a copy of this report.

OTHER:
No known information.

CONTINUED ON NEXT PAGE

Product Name: TRETOLITE ® CG00118F	Date of Last Revision: 05/04/97

SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:
Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material in accordance with applicable regulations. Note that these regulations may also apply to empty containers, liners, and rinsate. Processing, use, dilution, or contamination or this product may cause its physical and chemical properties to change. Triple-rinse drum prior to offering for recycle, reconditioning or disposal. Dispose of rinsate in an environmentally acceptable manner consistant with applicable waste management regulations.

SECTION 14 - TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (D.O.T.) INFORMATION

Proper Shipping Name: Flammable liquid, n.o.s. (contains Aromatic naphtha and Isopropanol) 3 UN1993 II

D.O.T. Emergency Response Guide: 128	Marine Pollutant: N.A.

INTERNATIONAL MARITIME ORGANIZATION (I.M.O.) INFORMATION

Proper Shipping Name: Flammable liquid, n.o.s. (contains Aromatic naphtha and Isopropanol) 3.2 UN1993 II

IMDG Code Page: 3230	EMS Number: 3-07
MFAG Table Number 1: 305	MFAG Table Number 2: 311

Marine Pollutant: N.A.

SECTION 15 - REGULATORY INFORMATION

CERCLA HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES:
The Baker Petrolite product contains the following components that are subject to the release reporting requirements of the Comprehensive Environmental Response, Compensation, and Liability Act. Also listed is the Reportable Quantity (RQ) in pounds for each such component, and the amount of product, in gallons, that must be released or spilled in order to exceed the RQ.

Chemical Name	CAS Number	RQ #	RQ GAL
Naphthalene	91-20-3	100	5,602
Xylene (ortho)	95-47-6	1,000	4,977
Cumene	98-82-8	5,000	62,189
Ethylene glycol	107-21-1	5,000	22,222
1,4-Dioxane (Diethylene ether)	123-91-1	100	63,492

SARA TITLE III:
This Baker Petrolite product contains the following components that are identified as extremely hazardous substances by the Superfund Amendments and Reauthorization Act. Also listed is the Reportable Quantity (RQ) in pounds for each such component, and the amount of product, in gallons, that must be released or spilled in order to exceed the RQ; and the Threshold Planning Quantity (TPQ) in pounds for each such component, and the amount of product in gallons that contains the TPQ.

Chemical Name	CAS Number	RQ (lbs.)	RQ (gal.)	TPQ (lbs.)	TPQ (gal.)

No SARA Extremely Hazardous Substances are present in this material.

Baker Petrolite has determined that under Sections 311/312 of SARA Title III, the following hazard categories apply to this product:

Hazard: Immediate Health, Fire

SARA SECTION 313:
This Baker Petrolite product contains the following components that are subject to the annual toxic release inventory reporting requirements of Section 313 of SARA Title III. Also listed is the concentration of the component, in weight percent, in the product. A component is not listed if its concentration is less than the de minimis level.

Chemical Name	CAS Number	Weight Percent
Isopropanol	67-63-0	10.9 %

CONTINUED ON NEXT PAGE

Product Name: TRETOLITE ® CG00118F	Date of Last Revision: 05/04/97

SECTION 15 - REGULATORY INFORMATION - continued

Xylene (ortho)	95-47-6	2.6 %
Trimethylbenzene (C-9 Aromatic/Sec.4)	95-63-6	8.3 %
Cumene	98-82-8	1.0 %
Ethylene glycol	107-21-1	3.0 %

TOXIC SUBSTANCES CONTROL ACT (TSCA):
This product or its components, if a mixture, are listed on the TSCA inventory.

This Baker Petrolite product contains the following components that are subject to the reporting requirements of TSCA Section 12(b) if exported from the United States:

Chemical Name	CAS Number
Isopropanol	67-63-0
Trimethylbenzene (C-9 Aromatic/Sec.4)	95-63-6
Cumene	98-82-8

SIGNIFICANT NEW USE RULES (SNUR):
This product does not contain any components that are subject to a Significant New Use Rule (SNUR).

PENNSYLVANIA RIGHT-TO-KNOW:
The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number
No non-hazardous ingredients are present in the product at greater than 3%.	

SECTION 16 - OTHER INFORMATION

NFPA HAZARD CLASSIFICATIONS:
Health: 2 Flammability: 3 Reactivity: 0 Special: N.A.

REVISION HISTORY:
5/30/96 update sec 3 chronic effects, sec 11 tox
4/22/96 updated sect. 3 chronic effects
10/22/96 new format
12/96 updated RQ's, sect. 15
05/97 Canadian Review
USE "G" VERSION
File 120

5/31/95 new format

The information and recommendations contained hereon are believed to be accurate and reliable as of the date issued. However, we do not warrant their accuracy or reliability.

We only warrant to you, but no other persons, that the product referenced herein shall conform to our quality assurance specifications for the product on the date of shipment to you. WE EXPRESSLY DISCLAIM ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Any technical advice, information or recommendation given to you is given gratis without any warranty whatsoever as to the advice, information or recommendation given or results obtained.

You shall assume all risks and shall be solely responsible for the results obtained from the storage, handling or use of the product and any information or recommendation regarding the product, whether alone or in combination with other substances.

UNDER NO CIRCUMSTANCES SHALL WE BE LIABLE FOR ANY ECONOMIC, CONSEQUENTIAL (INCLUDING LOST PROFITS OR

CONTINUED ON NEXT PAGE

Product Name: TRETOLITE ® CGO0118F	Date of Last Revision: 05/04/97

SAVINGS) OR INCIDENTAL DAMAGES, EVEN IF WE ARE INFORMED OF THEIR POSSIBLITY. EXEMPLARY OR PUNITIVE DAMAGES. REGARDLESS OF THE FORM OR ACTION. WHETHER IN CONTRACT OR TORT. INCLUDING OUR SOLE OR JOINT NEGLIGENCE AND STRICT LIABILITY.

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedin. Facility Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd Farmington NM

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:

Contaminated soil from Washbay Soils

TCLP Attached

RECEIVED
APR 28 1998
OIL CON. DIV.
DIST. 3

Sent to Aztec 4/30/98

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) 40 cy

SIGNATURE: Harlan W. Brown TITLE: Landfarm Manager DATE: 4-28-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan W. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/28/98

APPROVED BY: Martyn J. Kelly TITLE: Env. Geologist DATE: 4/30/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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 1 Copy
to appropriate
District Office

Env. JN: 92401

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main 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 Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd Farmington NM.

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:

Continuation of Washbay solids

TCLP Attached

RECEIVED
APR 28 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management FacilityAuthorized Agent TITLE: Landfarm Manager DATE: 4-28-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/28/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BJ Services 3250 Southside River Rd Farmington, NM	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): SAA Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Wash Bay evaporation facility
4. Source and Description of Waste Continuation of wash bay solids disposal	

I, Les Baugh representative for:
(Print Name)
BJ Services 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)

___ **EXEMPT** oilfield waste

xx **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
xx RCRA Hazardous Waste Analysis
xx Chain of Custody
___ Other (description):

Name (Original Signature): Les Baugh

Title: Facilities Supv.

Date: 4/28/98

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 1-13-98

Printed Name Les Baugh

Title / Agency Facilities Supervisor

Address 3250 Southside River Road

Farmington, NM

Signature Les Baugh

Date 4/28/98

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 22, 1998

Mr. Les Bough
B. J. Services, Inc.
3250 Southside River Road
Farmington, New Mexico 87401

Project No.: 95026

Dear Mr. Baugh,

Enclosed are the analytical results for the sample collected from the location designated as "Wash Bay Solids". One sludge sample was collected by Envirotech personnel and delivered to the Envirotech Laboratory on 01/13/98 for Hazardous Waste Characterization (TCLP Volatiles, Semi-volatiles, Trace Metals, Reactivity, Corrosivity and Ignitability) analysis.

The sample was documented on Envirotech Chain of Custody No. 5786 and assigned Laboratory No. C800 for tracking purposes. The sample was extracted on 01/14/98 and analyzed on 01/14/98 - 01/16/98 using USEPA or equivalent methods.

Results of the analysis indicate that the material contained in the sample from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws 95026lb2.wpd

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Lab ID#:	C800	Date Sampled:	01-13-98
Sample Matrix:	Sludge	Date Received:	01-13-98
Preservative:	Cool	Date Analyzed:	01-14-98
Condition:	Cool & Intact	Chain of Custody:	5786

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**10.5**
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: **Wash Bay.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	01-13-98
Chain of Custody:	5786	Date Received:	01-13-98
Sample Matrix:	Sludge	Date Extracted:	01-14-98
Preservative:	Cool	Date Analyzed:	01-15-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	97%
	Bromofluorobenzene	100%

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: **Wash Bay.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	01-13-98
Chain of Custody:	5786	Date Received:	01-13-98
Sample Matrix:	Sludge	Date Extracted:	01-14-98
Preservative:	Cool	Date Analyzed:	01-16-98
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	101%
	2,4,6-Tribromophenol	97%

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. 19

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

Comments: **Wash Bay Solids.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	01-13-98
Chain of Custody:	5786	Date Received:	01-13-98
Sample Matrix:	Soil	Date Extracted:	01-14-98
Preservative:	Cool	Date Analyzed:	01-15-98
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, 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: **Wash Bay.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	01-13-98
Chain of Custody:	5786	Date Received:	01-13-98
Sample Matrix:	Sludge	Date Analyzed:	01-16-98
Preservative:	Cool	Date Extracted:	01-14-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.012**	**0.0001**	**5.00**
Barium	**4.90**	**0.001**	**100**
Cadmium	**0.024**	**0.0001**	**1.00**
Chromium	**ND**	**0.0001**	**5.00**
Lead	**0.021**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

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

Comments: **Wash Bay.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	01-19-98
Laboratory Number:	01-15-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-15-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	95%
	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, Sept. 1994.

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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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:	Method Blank	Date Reported:	01-19-98
Laboratory Number:	01-14-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-15-98
Condition:	N/A	Date Extracted:	01-14-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	96%
	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, Sept. 1994.

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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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:	Matrix Duplicate	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-15-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 sample C800.**

Analyst

Review

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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:	Matrix Spike	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-15-98
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	0.0490	0.0001	98%	28-163
1,1-Dichloroethene	ND	0.050	0.0490	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0494	0.0001	99%	47-132
Chloroform	ND	0.050	0.0506	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0499	0.0001	100%	43-143
Benzene	ND	0.050	0.0507	0.0001	101%	39-150
1,2-Dichloroethane	ND	0.050	0.0492	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0491	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0493	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0488	0.0002	98%	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 C800.**

Analyst

Review

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ENVIROTECH 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:	01-19-98
Laboratory Number:	01-16-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-16-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	2,4,6-tribromophenol	98 %

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. 19

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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ENVIROTECH 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:	01-19-98
Laboratory Number:	01-14-TCA.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-14-98
Condition:	Cool & Intact	Date Analyzed:	01-16-98
		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	99%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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ENVIRO-TECH LABS

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:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-16-98
		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, 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 C800.**

Analyst

Review

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ENVIROTECH 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:	01-19-98
Laboratory Number:	01-15-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:	01-15-98
		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: **QA/QC for sample C800.**

Analyst

Review

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ENVIRO-TECH 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:	Method Blank	Date Reported:	01-19-98
Laboratory Number:	01-14-TBN.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-14-98
Condition:	Cool and Intact	Date Analyzed:	01-15-98
		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: **QA/QC for sample C800.**

Analyst

Review

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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:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-15-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for sample C800.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-19-98
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-16-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.0001**
Barium	**ND**	**ND**	**0.001**
Cadmium	**ND**	**ND**	**0.0001**
Chromium	**ND**	**ND**	**0.0001**
Lead	**ND**	**ND**	**0.0001**
Mercury	**ND**	**ND**	**0.0001**
Selenium	**ND**	**ND**	**0.0001**
Silver	**ND**	**ND**	**0.0001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-16-98
Condition:	N/A	Date Extracted:	01-14-98

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.012**	**0.012**	**0.0%**
Barium	**4.90**	**4.90**	**0.0%**
Cadmium	**0.024**	**0.024**	**0.0%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.021**	**0.021**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-16-98
Condition:	N/A	Date Extracted:	01-14-98

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.012**	**0.112**	**100%**
Barium	**1.00**	**4.90**	**5.88**	**100%**
Cadmium	**0.050**	**0.024**	**0.074**	**100%**
Chromium	**0.050**	**ND**	**0.050**	**100%**
Lead	**0.100**	**0.021**	**0.121**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.100**	**100%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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5786

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
BJ Services	Wash Bay
Sampler: (Signature)	**Chain of Custody Tape No.**
Herbert M Brown	95026

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP						Remarks
Wash Bay Solids	1-13 98	15:24	C800	Sludge	2	✓						
					Sample received cool & Intact							

ANALYSIS/PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Herbert M Brown	1-13-98	15:40	Glenn L. Ayers	1-13-98	1540
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
~~...~~c, 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 1 Copy
to appropriate
District Office

Env. JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Wellex Halliburton Eqy Serv.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wellex
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 Mexico
7. Location of Material (Street Address or ULSTR)	2600 E. Bloomfield Hwy Farmington New Mexico.

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:

Re-Submittal: Petroleum Hydrocarbon Impacted soil generated at cleanup of former Wash bay Sump.

TCLP Volatiles, Semi Volatiles & metals
TCL Herbicides & Pesticides
Tetra Tech Correspondence
NMOCD Correspondence.
} ATTACHED

RECEIVED
APR 27 1998
OIL CON. DIV.
DIST. 3

Sent to Hobbs 4/30/98

Estimated Volume 1400 cy cy Known Volume (to be entered by the operator at the end of the haul) 1623 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4-27-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Jerry Sexton TITLE: Geologist DATE: 4/27/98

APPROVED BY: Martyne Kieling TITLE: Env. Geologist DATE: 4/30/98

District I - (505) 393-6161
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Hobbs, NM 88241-1980
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811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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 1 Copy
to appropriate
District Office

Env. JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Wellex Halliburton Eng. Serv.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wellex
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 Mexico
7. Location of Material (Street Address or ULSTR)	2600 E. Bloomfield Hwy Farmington New Mexico.

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:

Re-Submittal: Petroleum Hydrocarbon Impacted soil generated at cleanup of former Wash bay Sump.

TCLP Volatiles, Semi Volatiles & Metals
TCL Herbicides & Pesticides
Tetra Tech Correspondence
NMOCD Correspondence.
} ATTACHED.

RECEIVED
APR 27 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 1400 cy cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: LANDFARM MANAGER DATE: 4-27-98

TYPE OR PRINT NAME: HARLAN M. BROWN TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/27/98

APPROVED BY: _____ TITLE: _____ DATE: _____

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): Wellex Site **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** 2600 East Bloomfield Highway Farmington, New Mexico
4. Source and Description of Waste Former Oil/Water Separator Hydrocarbon Impacted Soil	

I, Joseph J. Larkin representative for:
(Print Name)
Halliburton Energy Services 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)

___ **EXEMPT** oilfield waste

XX **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
XX RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Joseph Park

Title: Environmental Engineer

Date: 4/22/98

RECEIVED MAR 20 1998

TETRA TECH NUS, INC.
2300 Buena Vista S.E., Suite 110 ▪ Albuquerque, New Mexico 87106
(505) 247-4933 ▪ FAX (505) 247-8151 ▪ www.tetratech.com

ABQ-98-0042

March 16, 1998

Project Number HX20

William C. Olson
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Reference: Project No. HX20
Task Authorization 003

Subject: Presence of 4,4 DDD in soil at the Former Wellex Facility, Farmington, New Mexico

Dear Mr. Olson:

On behalf of Halliburton Energy Services, Tetra Tech NUS has prepared this response to your February 18, 1998 letter concerning the presence of 4,4 DDD in soil at the Former Wellex Facility in Farmington New Mexico. The compound 4,4 DDD is a break down product of DDT, a commonly used pesticide in the 1950's and 1960's. The persistence of DDT and its breakdown products in the environment is one of the properties which led to its eventual ban. The tentatively identified concentration of 4 parts per billion 4,4 DDD is what would be expected from routine application of DDT for pest control purposes.

We argue that a concentration of 4 parts per billion is not consistent with DDT disposal or abandonment at the site. Therefore, it does not meet the definition of solid waste under 40 CFR, 261.2 and should not be considered a RCRA-listed waste. The definition of solid waste under 40 CFR, 261.2 c also states that "commercial chemical products listed in 261.33 are not solid wastes if they are applied to the land and that is their ordinary manner of use." I have spoken with Steve Pullen of the Hazardous and Radioactive Materials Bureau at the New Mexico Environment Department and he concurs with this position.

TETRA TECH NUS, INC.
2300 Buena Vista S.E., Suite 110 ▪ Albuquerque, New Mexico 87106
(505) 247-4933 ▪ FAX (505) 247-8151 ▪ www.tetratech.com

The contamination at the former Wellex Facility is an issue of soil impacted with BTEX in excess of the OCD guideline of 50 mg/kg. With OCD's permission, Tetra Tech NUS would like to move forward with the removal and disposal of these BTEX-impacted soils from the site. If you would like to discuss the DDD issue further, please feel free to call me or Steve Pullen at NMED.

Very Truly Yours,

Jeff Johnston

Jeff Johnston
Senior Hydrologist

cc: Joe Larkin, HES Project Manager
Denny G. Foust, OCD Aztec District Office
Steve Pullen, NMED
Harlan Brown, Envirotech Inc.
file

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

March 26, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-235-437-250

Mr. Joe Larkin
Halliburton Energy Services
4100 Clinton Dr., Bldg 3, 1107E
Houston, Texas 77020

RECEIVED
MAR 3 0 1998
OIL CON. DIV.
DIST. 3

RE: OLD WELLEX FACILITY
FARMINGTON, NEW, MEXICO

Dear Mr. Larkin:

The New Mexico Oil Conservation Division (OCD) has completed a review of the following Halliburton Energy Services (HES) documents which were submitted on behalf of HES by their consultant Tetra Tech NUS, Inc:

- March 16, 1998 "PRESENCE OF 4,4 DDD IN SOIL AT THE FORMER WELLEX FACILITY, FARMINGTON, NEW MEXICO".

- January 27, 1998 "WORK PLAN FOR SOURCE REMOVAL AND GROUNDWATER MONITORING WELL INSTALLATION, FORMER WELLEX FACILITY, FARMINGTON, NEW MEXICO".

- October 30, 1997 "SITE INVESTIGATION REPORT FOR WELLEX/OTIS ENGINEERING FACILITY, HALLIBURTON ENERGY SERVICES, 2600 EAST BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO".

These documents contain the results of HES's investigation of contamination related to a waste disposal pit at the old Wellex/Otis Engineering facility in Farmington, New Mexico. The documents also contain HES's work plan for remediation of contaminated soils and installation of ground water monitoring wells to determine potential ground water impacts.

The above referenced work plan is approved with the following conditions:

1. The excavation backfill will be mounded above the ground surface to prevent runoff from ponding over the former pit location.

2. All soil and water quality samples will be collected and analyzed using EPA approved methods and quality assurance/quality control (QA/QC).

3. All water quality samples will be analyzed for concentrations of aromatic and halogenated volatile organics, polynuclear aromatic hydrocarbons, WQCC metals and cations and anions.

4. HES will submit a report on the investigation to the OCD Santa Fe Office by June 5, 1998. A copy of the report will also be provided to the OCD Aztec District Office. The report will contain:

   a. A description of all activities which occurred during the investigation including conclusions and recommendations.

   b. A facility map showing the locations of relevant site features including the size of excavated areas and all soil and water sampling locations.

   c. A water table potentiometric map showing the magnitude and direction of the hydraulic gradient.

   c. A summary of all laboratory analytic results including copies of the laboratory analytical data sheets and associated QA/QC data.

   d. The disposition of all wastes generated.

5. HES will notify the OCD at least 1 week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and/or split samples.

Please be advised that OCD approval does not relieve HES of liability if contamination exists which is beyond the scope of the work plan or if the activities fail to adequately remediate contamination related to HES's activities. In addition, OCD approval does not relieve HES of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Jeff Johnston, Tetra Tech NUS, Inc.

District I · (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II · (505) 748-1283
811 S. First
Artesia, NM 88210
District III · (505) 334-6178
1 Rio Brazos Road
Aztec, 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-13
Originated 8/8/

Submit
Plus 1
to appropriat
District Offic

Env JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Wellcx.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	2658 Bloomfield Hwy. Farmington, New Mexico

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:

Former oil/water Separator Sump Hydrocarbon Impacted Soil

TCLP w/ H&P ATTACHED.

4,4 DDD Hazardous U Listed Waste U060 40 CFR 261.33

MJK

RECEIVED
OCT 21 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
OCT 20 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10-20-97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Jerry Sexton TITLE: Geologist DATE: 10/20/97

DENIED MJK

APPROVED BY: _____ TITLE: _____ DATE: 10/22/97

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, NM 87499	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
Wellex Site Attach list of originating sites as appropriate	2600 East Bloomfield Highway Farmington, NM 87401
4. Source and Description of Waste	
Former Oil/Water Seperator Hydrocarbon Impacted Soil	

I, L. Bradford Sumrall representative for:
(Print Name)
Halliburton Energy Services 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)

___ **EXEMPT** oilfield waste

XX **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
XX RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): L Bradford Sumrall

Title: Environmental Engineer

Date: 10/16/97

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.
* Arsenic	5.0	D004	Hexachlorobenzene	0.13	D032
* Barium	100.0	D005	Hexachlorobutadiene	0.5	D033
Benzene	0.5	D018	Hexachloroethane	3.0	D034
* Cadmium	1.0	D006	* Lead	5.0	D008
Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 PESTICIDE
PESTICIDE Chlordane	0.03	D020	* Mercury	0.2	D009
Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 PESTICIDE
Chloroform	6.0	D022	Methyl ethyl ketone	200.0	D035
* Chromium	5.0	D007	Nitrobenzene	2.0	D036
Cresol	200.0	D026	Pentachlorophenol	100.0	D037
m-Cresol	200.0	D024	Pyridine	5.0	D038
o-Cresol	200.0	D023	* Selenium	1.0	D010
p-Cresol	200.0	D025	* Silver	5.0	D011
HERBICIDE * 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 HERBICIDE
1,4-Dichlorobenzene	7.5	D027	Tetrachloroethylene	0.7	D039
1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 PESTICIDE
1,1-Dichloroethylene	0.7	D029	Trichloroethylene	0.5	D040
2,4-Dinitrotoluene	0.13	D030	2,4,5-Trichlorophenol	400.0	D041
Pesticide * Endrin	0.02	D012	2,4,6-Trichlorophenol	2.0	D042
PESTICIDE Heptachlor	0.008	D031	Vinyl chloride	0.2	D043

*–EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

Quanterra
Environmental Services

Chlorinated Pesticides and PCB's
Target Compound List (TCL)
Method 8080

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID Sampled: 04 SEP 97 Prepared: 18 SEP 97
Authorized: 08 SEP 97 Received: 06 SEP 97 Analyzed: 28 SEP 97

Parameter	Result	Dry Weight Units	Reporting Limit
Aldrin	ND	ug/kg	1.9
Aroclor 1016	ND	ug/kg	36
Aroclor 1221	ND	ug/kg	36
Aroclor 1232	ND	ug/kg	36
Aroclor 1242	ND	ug/kg	36
Aroclor 1248	ND	ug/kg	36
Aroclor 1254	ND	ug/kg	36
Aroclor 1260	ND	ug/kg	36
alpha-BHC	ND	ug/kg	1.9
beta-BHC	ND	ug/kg	1.9
delta-BHC	ND	ug/kg	1.9
gamma-BHC (Lindane)	ND	ug/kg	1.9
alpha-Chlordane	ND	ug/kg	1.9
gamma-Chlordane	ND	ug/kg	1.9
4,4'-DDD	4.1	ug/kg	3.6
4,4'-DDE	4.6	ug/kg	3.6
4,4'-DDT	ND	ug/kg	3.6
Dieldrin	ND	ug/kg	3.6
Endosulfan I	ND	ug/kg	1.9
Endosulfan II	ND	ug/kg	3.6
Endosulfan sulfate	ND	ug/kg	3.6
Endrin	ND	ug/kg	3.6
Endrin ketone	ND	ug/kg	3.6
Heptachlor	ND	ug/kg	1.9
Heptachlor epoxide	ND	ug/kg	1.9
Methoxychlor	ND	ug/kg	19
Toxaphene	ND	ug/kg	190

Surrogate	Recovery		Limits
Tetrachloro-m-xylene	71	%	39-105
Dibutyl chlorendate	45	%	51-115
Decachlorobiphenyl	43	%	70-126

Percent moisture is 8.8%. All results and limits are reported on a dry weight basis.
Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Dianna Link Approved By: Audrey Cornell

Quanterra
Environmental Services

Chlorinated Herbicides
SW-846 List
Method 8150

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID Sampled: 04 SEP 97 Prepared: 18 SEP 97
Authorized: 08 SEP 97 Received: 06 SEP 97 Analyzed: 25 SEP 97

Parameter	Result	Dry Weight Units	Reporting Limit
2,4-D	ND	ug/kg	44
2,4-DB	ND	ug/kg	110
2,4,5-T	ND	ug/kg	11
2,4,5-TP (Silvex)	ND	ug/kg	11
Dalapon	ND	ug/kg	110
Dicamba	ND	ug/kg	11
Dichlorprop	ND	ug/kg	22
Dinoseb	ND	ug/kg	22
MCPA	ND	ug/kg	5500
MCPP	ND	ug/kg	5500
Surrogate	**Recovery**		**Limits**
DCAA	127	%	39-113

Percent moisture is 8.8%. All results and limits are reported on a dry weight basis.
Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Andy Burcham Approved By: Audrey Cornell

Quanterra Environmental Services

Volatile Organic Toxicity Characteristic List
TCLP Leachate
Method 8240B

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID
Authorized: 08 SEP 97

Sampled: 04 SEP 97
Received: 06 SEP 97

Leached: 11 SEP 97
Prepared: 11 SEP 97
Analyzed: 15 SEP 97

Parameter	Result	Units	Reporting Limit
Benzene	ND	mg/L	0.050
2-Butanone	ND	mg/L	0.20
Carbon tetrachloride	ND	mg/L	0.050
Chlorobenzene	ND	mg/L	0.050
Chloroform	ND	mg/L	0.050
1,2-Dichloroethane	ND	mg/L	0.050
1,1-Dichloroethene	ND	mg/L	0.050
Tetrachloroethene	ND	mg/L	0.050
Trichloroethene	ND	mg/L	0.050
Vinyl chloride	ND	mg/L	0.10

Surrogate	Recovery		Limits
1,2-Dichloroethane-d4	92	%	80-120
4-Bromofluorobenzene	102	%	86-115
Toluene-d8	97	%	88-110

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Sandra Jones

Approved By: Lynn S. Calvin

Quanterra
Environmental Services

Semivolatile Organics / TCLP
TCLP Leachate
Method 8270B

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID
Authorized: 08 SEP 97

Sampled: 04 SEP 97
Received: 06 SEP 97

Leached: 18 SEP 97
Prepared: 21 SEP 97
Analyzed: 25 SEP 97

Parameter	Result	Units	Reporting Limit
1,4-Dichlorobenzene	ND	mg/L	0.050
2,4-Dinitrotoluene	ND	mg/L	0.050
Hexachlorobenzene	ND	mg/L	0.050
Hexachlorobutadiene	ND	mg/L	0.050
Hexachloroethane	ND	mg/L	0.050
2-Methylphenol	ND	mg/L	0.050
3/4-Methylphenol	ND	mg/L	0.050
Nitrobenzene	ND	mg/L	0.050
Pentachlorophenol	ND	mg/L	0.25
Pyridine	ND	mg/L	0.10
2,4,5-Trichlorophenol	ND	mg/L	0.050
2,4,6-Trichlorophenol	ND	mg/L	0.050

Surrogate	Recovery		Limits
Nitrobenzene-d5	72	%	57-102
2-Fluorobiphenyl	69	%	43-116
Terphenyl-d14	64	%	43-128
2-Fluorophenol	74	%	26-104
Phenol-d5	77	%	33-117
2,4,6-Tribromophenol	81	%	37-117

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Tom Claeys

Approved By: Audrey Cornell

Quanterra
Environmental Services

Metals
TCLP Leachate

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID
Authorized: 08 SEP 97
Sampled: 04 SEP 97
Prepared: See Below
Received: 06 SEP 97
Analyzed: See Below
Leached: 18 SEP 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	19 SEP 97	22 SEP 97
Barium	ND		1.0	10.0	mg/L	6010A	19 SEP 97	22 SEP 97
Cadmium	ND		1.0	0.10	mg/L	6010A	19 SEP 97	22 SEP 97
Chromium	ND		1.0	0.50	mg/L	6010A	19 SEP 97	22 SEP 97
Lead	ND		1.0	0.50	mg/L	6010A	19 SEP 97	22 SEP 97
Selenium	ND		1.0	0.25	mg/L	6010A	19 SEP 97	22 SEP 97
Silver	ND		1.0	0.50	mg/L	6010A	19 SEP 97	22 SEP 97
Mercury	ND		1.0	0.00020	mg/L	7470	23 SEP 97	24 SEP 97

ND = Not Detected

Reported By: Harvey Pierre

Approved By: Richard Persichitte

Quanterra
Environmental Services

General Inorganics

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID
Authorized: 08 SEP 97
Sampled: 04 SEP 97
Prepared: See Below
Received: 06 SEP 97
Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Cyanide, Reactive	ND		1.0	0.10	mg/kg	9010A/901	17 SEP 97	18 SEP 97
Ignitability	NO		1.0			SW846 Cha	NA	23 SEP 97
pH	8.5		1.0	--	units	9045B	24 SEP 97	24 SEP 97
Sulfide, Reactive	ND		2.0	50.0	mg/kg	9030A	17 SEP 97	17 SEP 97

ND = Not Detected

Reported By: Cheryl Jones

Approved By: Roxanne Sullivan

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 96003

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] 4.27.98 8:45 Denny Foust	4. Generator EPFS.
Verbal Approval Received: Yes [X] No [ ]	5. Originating Site Trunk Y-1 Drip
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Philip Services
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Unit B, Sec 24, T26N, R7W.

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:

Clean up of petroleum hydrocarbon contaminated soil @ an overflowing line drip tank

RECEIVED
APR 30 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 15 cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 4-28-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/30/98

APPROVED BY: Ray Smith TITLE: _____ DATE: _____

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): Trunk K Y-1 Drip Tank Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): Unit B, Section 24, T26N, R7W
4. Source and Description of Waste - The drip tank overflowed into the berm area. The waste is soil contaminated with hydrocarbons	

I, David Bays 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
____ RCRA Hazardous Waste Analysis
____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: Apri l23, 1998

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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
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District Office

Env JN: 96003-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DBF 4/27/98 Verbal Approval Received: Yes ☒ No ☐	4. Generator E.P.F.S 5. Originating Site Hart Canyon #2 Compressor Stat
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter E.P.F.S.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SE4, Sec 29, T30N, R9W. SJC. New Mexico

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:

clean up of spills & leaks @ a chronic spill area.
Soil and gravel near pipeline pig receiver @ referenced location.

RECEIVED
APR 27 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 5 cy cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 4/27/98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/27/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 4/27/98

4·27·98
8:45 Denny Foust

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): Hart Canyon #2 Compressor Station Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): SE/4 of Sec. 29, T-30-N, R-9-W, San Juan County, New Mexico
4. Source and Description of Waste Approx. 5 cubic yards of soil and gravel contaminated with hydrocarbon spills from the pipeline pig receiver	

I, David Bays 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
____ RCRA Hazardous Waste Analysis
____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: March 17, 1998

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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

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Originated 8/8/95

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Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator H.E.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Barela
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main Farmington NM

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:

Contamination of Wash Bay Solids

TCLP & Re-affirmation Statement Attached

RECEIVED
APR 21 1998
OIL CON. DIV.
DIST. 3

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) 178 cy

SIGNATURE: Hoshan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Mngr. DATE: 4.21.98

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/22/98

APPROVED BY: Martyn J. Kelly TITLE: Env Geologist DATE: 4/22/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401 **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Solids stabilization pad East side of Main Yard Facility 4109 E. Main Street Farmington, New Mexico
4. Source and Description of Waste Continuation of wash bay solids; mud and related material generated at truck wash bay	

I, E.O. SHANNON (Print Name) representative for:

HALLIBURTON ENERGY SERVICES 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)

___ **EXEMPT** oilfield waste

xx **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

xx RCRA Hazardous Waste Analysis

xx Chain of Custody

___ Other (description):

Name (Original Signature): E.O. Shannon

Title: Asst Supervisor

Date: 4-1-98

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 12-33-95

Printed Name E.O. SHANNON

Title / Agency MAINT SUPERV.

Address 4109 E MAIN ST
FARMINGTON NM 87402

Signature E.O. Shannon

Date 04-01-95

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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 1 Copy
to appropriate
District Office

Env. JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ D.F 3-998	4. Generator PESCO
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Pit Tanks Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Freemyer
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	5680 Hwy 64 Farmington N. M.

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:

Solids/Sludge generated during cleaning & refurbishing oil/gas production equipment

RECEIVED
APR 17 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 115 bbls cy Known Volume (to be entered by the operator at the end of the haul) 5 cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 4.16.98

TYPE OR PRINT NAME: Harlan Brown TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Henry B. Faust TITLE: Geologist DATE: 4/17/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 4/17/98

Jn: 92142

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 **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Mainyard, stored in 55 gallon drums & 18 Cubic Foot Steel Boxes. AND 10 Bbl. and 90 Bbl. TANKS
4. Source and Description of Waste Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators, and other production equipment.	

I, Blake Wallace (Print Name) representative for: Process Equipment and Service Company, 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)

✓ **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
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Blake Wallace Blake Wallace

Title: Service Manager

Date: April 15, 1998

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 Farmington Date: 3-4-98

Meter Model: Bicron Surveyor 50 Serial No.: B980R

Detector Type: [PGA] Model Serial No.: B322R

[ ] Model Serial No.: _____

Battery Check [✓] Source Check [ ]

Calibration Date: 1-8-98

Source Type: _____

Background Radiation Level: 15 microR/hr

Description of Equipment/Material Surveyed: Waste Oil Sludge

Item/Material Surveyed (Description, Serial Number, Size Quantity, etc.)	Maximum microR/hr.
100 Bbl Pit Tank	20
35 Bbl " "	20

Comments: _____

Survey(s) Conducted By: Gary Howe
(Print Name)
Gary Howe
(Signature)

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P. O. Box 1980
Hobbs, NM 88241-1980
District II · (505) 748-1283
811 S. First
Artesia, NM 88210
District III · (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 97078-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ D.F. 4.13.98 (10:30 A.M.)	4. Generator NTUA
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Montezuma Creek Gas Sweetening Plant
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Garcia Septic
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Navajo Nation Utah → NM.
7. Location of Material (Street Address or ULSTR)	SW4 Sec 32, T40S, R24E, SJ County Utah Navajo Nat.

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:

Hydrocarbon Contaminated water and Sulfur sludge

RECEIVED
APR 15 1998
OIL CON. DIV.
DIST. 3

1966/s

Estimated Volume 966/s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: [signature] TITLE: LNDFM Manager DATE: 4-13-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: _____ TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/15/98

APPROVED BY: Susie Busch TITLE: Geologist DATE: 4/15/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Navajo Tribal Utility Authority Box 1304 Shiprock, N.M. 87420	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): N.T.U.A. Gas sweetening Facility Montezuma Creek Utah **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** SW4, Sec. 32, T40S, R24E, San Juan Country, Ut, Navajo Nation
4. Source and Description of Waste N.T.U.A. Gas Sweetening Facility Hydrocarbon Contaminated water and Sulfur Sludge	

I, Abe Balchincloaring (Print Name) representative for:

Navajo Tribal Utility Authority 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):

X MSDS Information
__ RCRA Hazardous Waste Analysis
__ Chain of Custody
__ Other (description):

Name (Original Signature): Abe Balchincloaring

Title: Gas Foreman

Date: 4-03-98

THE NAVAJO NATION
ENVIRONMENTAL PROTECTION AGENCY
P.O. Box 339 Window Rock, Arizona 86515
(520) 871-7692

RECEIVED
APR 13 1998
NTUA-ENGINEERING/
OPERATIONS DIVISION

RECEIVED APR 15 1998

THOMAS E. ATCITTY
PRESIDENT

MILTON BLUEHOUSE, SR
VICE PRESIDENT

April 13, 1998

Malcom P. Dalton, General Manager
Navajo Tribal Utility Authority
Post Office Box 170
Fort Defiance, Arizona 86504-0170

Dear Mr. Dalton:

The Navajo Nation Environmental Protection Agency has reviewed your request to dispose of nonhazardous waste at the Envirotech Landfarm, Farmington, New Mexico.

Based on your production processes and the Material Safety Data Sheet you provided, the nonhazardous waste that you generated can be disposed of at the Envirotech Landfarm. The New Mexico Oil Conservation Division permitted and regulates this landfarm, and as the corporate official you must certify that the process that generated the waste has not changed, and that you generated the waste from the oil and gas exploration and production operations that are exempt from the Resource Conservation and Recovery Act of 1976 as amended.

The Navajo Tribal Utility Authority shall maintain the following records:

- A signed certification that the nonhazardous waste you generated was from the oil and gas exploration and production operations that are exempt from the Resource Conservation and Recovery Act, Subtitle C regulations.
- A signed copy of the certification from the transporter who removed and transported the nonhazardous waste from your facility to the Envirotech Landfarm, Farmington, New Mexico.
- A signed copy of the certification, from the Envirotech Landfarm, indicating the acceptance of your nonhazardous waste at their facility.

If you have any questions, please contact my staff, Arlene Luther, Environmental Specialist at 520/871-7994.

Sincerely,
THE NAVAJO NATION

Lydelle Y. Davies
Executive Director

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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

RECEIVED
OCT 05 1998
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/95

Submit Original
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to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Universal Compression
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main 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 Mexico
7. Location of Material (Street Address or ULSTR)	1125 Hwy 550 Aztec NM 87410

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:

Wash bay solids

TCLP - Attached

RECEIVED
OCT 6 1998
OIL CON. DIV.
DIST. 3

RECEIVED
SEP 23 1998
OIL CON. DIV.
DIST. 3

RECEIVED
OCT 05 1998
Environmental Bureau
Oil Conservation Division

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 24 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9-23-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/30/98

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 10-5-98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 98059-2

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Universal Compression
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main 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 Mexico
7. Location of Material (Street Address or ULSTR)	1125 Hwy 550 Aztec NM 87410

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:

Wash bay solids
TCLP. ATTACHED.

RECEIVED
SEP 23 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9-23-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/30/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
UNIVERSAL Compression. 1125 US HWY 550 AZTEC, N.M. 87410	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Universal Compression 1125 U.S. Hwy 550 AZTEC, N.M. 87410 Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** SAME
4. Source and Description of Waste Wash Bay Solids	

I, Gregg A. Self (Print Name) representative for: _____ 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)

___ **EXEMPT** oilfield waste

X **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
X RCRA Hazardous Waste Analysis
X Chain of Custody
___ Other (description):

Name (Original Signature): _____

Title: Serviceman A

Date: 9-22-98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compressor	Project #:	98059-2
Sample ID:	Wash Bay Solids	Date Reported:	09-13-98
Lab ID#:	D900	Date Sampled:	09-04-98
Sample Matrix:	Soil	Date Received:	09-04-98
Preservative:	Cool	Date Analyzed:	09-13-98
Condition:	Cool & Intact	Chain of Custody:	6261

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.59**
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: **Flora Vista, NM.**

Analyst

Review

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compressor	Project #:	98059-02
Sample ID:	Wash Bay Solids	Date Reported:	09-14-98
Laboratory Number:	D900	Date Sampled:	09-04-98
Chain of Custody:	6261	Date Received:	09-04-98
Sample Matrix:	Soil	Date Extracted:	09-13-98
Preservative:	Cool	Date Analyzed:	09-14-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	**0.0659**	**0.0001**	**0.2**
1,1-Dichloroethene	**0.0046**	**0.0001**	**0.7**
2-Butanone (MEK)	**0.107**	**0.0001**	**200**
Chloroform	**0.0009**	**0.0001**	**6.0**
Carbon Tetrachloride	**0.0021**	**0.0001**	**0.5**
Benzene	**0.0003**	**0.0001**	**0.5**
1,2-Dichloroethane	**0.0004**	**0.0001**	**0.5**
Trichloroethene	**0.0008**	**0.0003**	**0.5**
Tetrachloroethene	**0.0031**	**0.0005**	**0.7**
Chlorobenzene	**0.0003**	**0.0003**	**100**
1,4-Dichlorobenzene	**0.0042**	**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.
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: **Flora Vista, NM.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Universal Compressor	Project #:	98059-2
Sample ID:	Wash Bay Solids	Date Reported:	09-16-98
Laboratory Number:	D900	Date Sampled:	09-04-98
Chain of Custody:	6261	Date Received:	09-04-98
Sample Matrix:	Soil	Date Extracted:	09-13-98
Preservative:	Cool	Date Analyzed:	09-16-98
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	0.125	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.024	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	101%
	2,4,6-Tribromophenol	100%

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: **Flora Vista, NM.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Universal Compressor	Project #:	98059-2
Sample ID:	Wash Bay Solids	Date Reported:	09-15-98
Laboratory Number:	D900	Date Sampled:	09-04-98
Chain of Custody:	6261	Date Received:	09-04-98
Sample Matrix:	Soil	Date Extracted:	09-13-98
Preservative:	Cool	Date Analyzed:	09-15-98
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	**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: **Flora Vista, NM.**

Analyst

Review

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Universal Compressor	Project #:	98059-2
Sample ID:	Wash Bay Solids	Date Reported:	09-16-98
Laboratory Number:	D900	Date Sampled:	09-04-98
Chain of Custody:	6261	Date Received:	09-04-98
Sample Matrix:	Soil	Date Analyzed:	09-16-98
Preservative:	Cool	Date Extracted:	09-13-98
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	**0.691**	**0.001**	**21**
Cadmium	**0.0748**	**0.0001**	**0.11**
Chromium	**ND**	**0.0001**	**0.60**
Lead	**0.0059**	**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: **Flora Vista, NM.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	09-14-98
Laboratory Number:	09-14-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-14-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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-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: **QA/QC for samples D897 and D900.**

Analyst

Review Stacy W Sendler

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

ENVIRO-TECH 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:	Method Blank	Date Reported:	09-14-98
Laboratory Number:	09-13-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-14-98
Condition:	N/A	Date Extracted:	09-13-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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: **QA/QC for samples D897 and D900.**

Analyst

Review

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

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 Duplicate	Date Reported:	09-14-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-14-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.135	0.135	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0002	0.0002	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 D897 and D900.**

Analyst

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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:	Matrix Spike	Date Reported:	09-14-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-14-98
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	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.135	0.050	0.185	0.0001	100%	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	0.0002	0.050	0.0500	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 D897 and D900.**

Analyst

Review

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ENVIROTECH 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:	09-16-98
Laboratory Number:	09-16-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-16-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	101 %
	2,4,6-tribromophenol	100 %

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 D897 and D900.**

Analyst

Review

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ENVIROTECH 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:	09-16-98
Laboratory Number:	09-13-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-13-98
Condition:	Cool & Intact	Date Analyzed:	09-16-98
		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	99%
	2,4,6-Tribromophenol	101%

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 D897 and D900.**

Analyst

Review

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ENVIROTECH LABS

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:	09-16-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-13-98
Condition:	Cool & Intact	Date Analyzed:	09-16-98
		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, 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 D897 and D900.**

Analyst

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ENVIROTECH 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:	09-15-98
Laboratory Number:	09-15-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:	09-15-98
		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, 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: **QA/QC for samples D897 and D900.**

Analyst

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ENVIRO-TECH 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:	Method Blank	Date Reported:	09-15-98
Laboratory Number:	09-13-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-13-98
Condition:	Cool and Intact	Date Analyzed:	09-15-98
		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, 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: **QA/QC for samples D897 and D900.**

Analyst

Review Stacy W Sendler

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ENVIRO-TECH 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:	09-15-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-15-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for samples D897 and D900.**

Analyst

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ENVIRO-TECH 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:	09-16-TCM QA/QC	Date Reported:	09-16-98
Laboratory Number:	D897	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	09-16-98
Condition:	N/A	Date Extracted:	09-13-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.282	0.282	0.2%	0% - 30%
Chromium	ND	ND	0.0001	0.0059	0.0060	1.7%	0% - 30%
Lead	ND	ND	0.0001	0.144	0.144	0.1%	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%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.1000	ND	0.0997	100%	80% - 120%
Barium	1.000	ND	0.999	100%	80% - 120%
Cadmium	0.0500	0.282	0.331	100%	80% - 120%
Chromium	0.0500	0.0059	0.0558	100%	80% - 120%
Lead	0.1000	0.144	0.244	100%	80% - 120%
Mercury	0.0250	ND	0.0249	100%	80% - 120%
Selenium	0.1000	ND	0.0999	100%	80% - 120%
Silver	0.0500	ND	0.0498	100%	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 D897 and D900.**

Analyst

Review

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CHA N OF C . S' 'ODY RECORD

6261

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Universal Compressor	Flora Vista, NM	
Sampler: Kathleen Murphy	Client No. 9805 9-2	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of(2) 8 oz Containers	TCLP w/o H+P						Remarks
Wash Bay Solids	9/4/98	13:30	D900	Soil	2	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Kathleen Murphy	9/4/98	14:00	Dena L. Ofeen	9.4.98	1400
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 96003-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Ernie Busch Verbal 9-28-98 9:55	4. Generator EPFS
	5. Originating Site Various Pits
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 Mexico
7. Location of Material (Street Address or ULSTR)	SEE ATTACHED

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:

petroleum hydrocarbon impacted soil generated during remediation of various drip pits

RECEIVED
SEP 30 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 1500 cy Known Volume (to be entered by the operator at the end of the haul) 2872 cy

SIGNATURE: Harlan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 9-28-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/30/98

APPROVED BY: Ernie Busch TITLE: " DATE:

Ernie Busch
verbal
9.28.98
9:55

RECEIVED
SEP 30 1998
OIL CON. DIV.
DIST. 3

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services 614 Reilly Avenue Farmington NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): See Attached List Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste Various drip pits in the state of New Mexico.	

I, Sandra D. Miller (Print Name) representative for: El Paso Field Services 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)

XX **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
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Sandra D Miller

Title: Manager, Environmental Health & Safety

Date: September 22, 1998

Meter/Line #	Duplicate Location	Location/Line Name	LTR	Sec	TN	RG	Land Type	NMOCD ZONE	Current Action
72774		SOUTHERN UNION #1	B	03	29	13	4 - FEE	OUTSIDE	REMEDIATE
72386		SAN JACINTO #5	E	21	29	10	2 - FEDERAL	OUTSIDE	REMEDIATE
70177		ATLANTIC B LS 7	A	34	31	10	4 - FEE	OUTSIDE	REMEDIATE
LD058		C-7 LOOP LINE DRIP	I	24	28	09	3 - NAVAJO	OUTSIDE	REMEDIATE
93153		HARE GAS COM D #1E	G	14	29	11	4 - FEE	INSIDE	REMEDIATE
94580		NAVAJO INDIAN #6E	L	06	26	08	2 - FEDERAL	INSIDE	REMEDIATE

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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 1 Copy
to appropriate
District Office

Env. JN: 96052-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Phillips Petroleum
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site San Juan 29-6 #201
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Cimmaron
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 6, T29N, R6W

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:

New motor oil Contaminated soil, Chevron Delo 400 Motor oil

RC Rpt RCI
Norm Survey } ATTACHED
MSDS

RECEIVED
SEP 8 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) 24 cy

SIGNATURE: Harlan M. Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 9-8-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/9/98

APPROVED BY: [signature] TITLE: WRES II DATE: 9/11/98

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 96052-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Phillips Petroleum
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site San Juan 29-6 #201
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Cimmaron
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 6, T29N, R6W

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:

New motor oil Contaminated soil, Chevron Delo 400 Motor oil

RCRA RCI
Norm Survey
MSDS
} ATTACHED

RECEIVED
SEP 8 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 9-8-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9-8-98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NBU 3004 Farmington, N.M. 87401	Envirotech Soil Remediation Facility Landfarm # 2 Hilltop, NM

3. Originating Site (Name):
San Juan 29-6 # 201 Section 6, T-29-N, R-6-W
4. Source and Description of Waste:
Approximately 3 cubic yards of soil stained with new (unused) Chevron Delo 400 Motor Oil

I, Robert A. Wirtanen representative for:
(Print Name)

Phillips Petroleum Company do hereby certify that, according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1998, regulatory determination, the above described waste is:
(Check appropriate classification)

__ **EXEMPT** oilfield waste __X__ **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification and that nothing has been added to the exempt non-hazardous waste defined above.

For **EXEMPT** waste only, the following documentation is attached (check appropriate items)	For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items)
_____ NORM Survey _____ TCLP Analysis _____ RCI Analysis	__X__ MSDS Information _____ TCLP Analysis _____ Chain of Custody __X__ NORM Survey __X__ Other (RCI)

Name (Original Signature): R A W
Title: Sr. Safety and Environmental Specialist
Date: 9-8-98

Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON DELO 400

PRODUCT NUMBER(S): CPS235101 CPS235109 CPS235117 CPS235118
CPS235115 CPS235120 CPS235200 CPS235246

SYNONYM: CHEVRON DELO 400 ESI Multigrade SAE 15W-40
CHEVRON DELO 400 Multigrade SAE 15W-40
CHEVRON DELO 400 SAE 10W
CHEVRON DELO 400 SAE 10W-30
CHEVRON DELO 400 SAE 20
CHEVRON DELO 400 SAE 30
CHEVRON DELO 400 SAE 40
CHEVRON DELO 400 SAE 50

COMPANY IDENTIFICATION

Chevron Products Company
Global Lubricants
555 Market St.
Room 803
San Francisco, CA 94105-2870

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or
(510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (703)527-3887
Int'l collect calls accepted

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500
Environmental, Safety, & Health Info: (415) 894-0703
Product Information: (800) 582-3835

SPECIAL NOTES: This MSDS is for the entire line of CHEVRON DELO 400 products.

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON DELO 400

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
LUBRICATING BASE OIL SEVERELY REFINED PETROLEUM DISTILLATE			

and water. Wash or clean contaminated clothing and shoes before reuse.
INGESTION:
No specific first aid measures are required because this material is not expected to be harmful if swallowed. Do not induce vomiting. As a precaution, give the person a glass of water or milk to drink and get medical advice. Never give anything by mouth to an unconscious person.
INHALATION:
If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

5. FIRE FIGHTING MEASURES

FIRE CLASSIFICATION:
Classification (29 CFR 1910.1200): Not flammable or combustible.
FLAMMABLE PROPERTIES:
FLASH POINT: (COC) 392-428F (200-220C) 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:
This material will burn although it is not easily ignited.
COMBUSTION PRODUCTS:
Normal combustion forms carbon dioxide and water vapor and may produce oxides of sulfur, nitrogen, phosphorus, and boron. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (703)527-3887
International Collect Calls Accepted
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

Do not use pressure to empty drum or drum may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty drums should be completely drained properly

10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:
No data available.
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

EYE EFFECTS:
The eye irritation hazard is based on data for a similar material.
SKIN EFFECTS:
The skin irritation hazard is based on data for a similar material.
ACUTE ORAL EFFECTS:
The acute oral toxicity is based on data for a similar material.
ACUTE INHALATION EFFECTS:
The acute respiratory toxicity is based on data for a similar material.
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 alkyl dithiophosphates (ZDDPs). Several ZDDPs 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 ZDDPs.

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.

06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory lists indicated.

PHOSPHORODITHIOIC ACID,O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS
is found on lists: 01,11,
SEVERELY REFINED PETROLEUM DISTILLATE
is found on lists: 14,15,17,

EEC RISK AND SAFETY STATEMENTS:
May cause long-term adverse effects in the aquatic environment.
NEW JERSEY RTK CLASSIFICATION:
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:
PETROLEUM OIL
WHMIS CLASSIFICATION:
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;
HMIS RATINGS: Health 1; Flammability 1; Reactivity 0;
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). 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:
This is a new Material Safety Data Sheet.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	PEL - Permissible Exposure Limit
C - Ceiling Limit	CAS - Chemical Abstract Service Number
A1-5 - Appendix A Categories	() - Change Has Been Proposed
NDA - No Data Available	NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804

****

Revision Number: 0 **Revision Date: 06/07/97** **MSDS Number: 006711**

	> 75.00%	5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL

The BASE OIL may be a mixture of any of the following: CAS 64741884, CAS 64741895, CAS 64741964, CAS 64741975, CAS 64742014, CAS 64742525, CAS 64742536, CAS 64742547, CAS 64742627, CAS 64742650, or CAS 72623837.

ADDITIVES INCLUDING THE FOLLOWING
< 25.00%

ZINC ALKYL DITHIOPHOSPHATE
Chemical Name: PHOSPHORODITHIOIC ACID,O,O-DI-C1-14-ALKYL ESTERS, ZINC SALT

CAS68649423	< 1.50%	NONE	NA

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.

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS
EYE:
Not expected to cause prolonged or significant eye irritation.
SKIN:
Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.
INGESTION:
Not expected to be harmful if swallowed.
INHALATION:
Contains a petroleum-based mineral oil that may cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of airborne levels above the recommended exposure limit.

4. FIRST AID MEASURES

EYE:
No specific first aid measures are required because this material is not expected to cause eye irritation. As a precaution remove contact lenses, if worn, and flush eyes with water.
SKIN:
No specific first aid measures are required because this material is not expected to be harmful if it contacts the skin. As a precaution, remove clothing and shoes if contaminated. Use a waterless hand cleaner, mineral oil, or petroleum jelly to remove the material. Then wash skin with soap

bunged, and promptly returned to a drum reconditioner, or properly disposed of. Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS
Use in a well-ventilated area. If user operations generate an oil mist, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT
EYE/FACE PROTECTION:
No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
SKIN PROTECTION:
No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: <Viton> <Nitrile> <Silver Shield> <4H>
RESPIRATORY PROTECTION:
No special respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the recommended exposure limits. If not, select a NIOSH/MSHA approved respirator that provides adequate protection from concentrations of this material. Use the following elements for air-purifying respirators: particulate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:
Dark brown liquid.

pH:	NDA
VAPOR PRESSURE:	NA
VAPOR DENSITY (AIR=1):	NA
BOILING POINT:	NDA
FREEZING POINT:	NDA
MELTING POINT:	NA
SOLUBILITY:	Soluble in hydrocarbon solvents; insoluble in water.
SPECIFIC GRAVITY:	0.87 - 0.89 @ 15.6/15.6C
VOLATILE ORGANIC COMPOUNDS (VOC):	1.1 wt.%, 9.256 g/l
EVAPORATION RATE:	NA
VISCOSITY:	5.9 - 18.6 cSt @ 100C (min.)
PERCENT VOLATILE (VOL):	NA

12. ECOLOGICAL INFORMATION

ECOTOXICITY:
This material is not expected to be harmful to aquatic organisms.
ENVIRONMENTAL FATE:
This material is not expected to be readily biodegradable.

13. 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:	1. Immediate (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)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)

Revision Number: 0 **Revision Date: 06/07/97** **MSDS Number: 006711**

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The following components of this material are found on the regulatory lists indicated.

PHOSPHORODITHIOIC ACID,O,O-DI-C1-14-ALKYL ESTERS, ZINC SALTS
is found on lists: 01,11,
SEVERELY REFINED PETROLEUM DISTILLATE
is found on lists: 14,15,17,

EEC RISK AND SAFETY STATEMENTS:
May cause long-term adverse effects in the aquatic environment.
NEW JERSEY RTK CLASSIFICATION:
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:
PETROLEUM OIL
WHMIS CLASSIFICATION:
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;
HMIS RATINGS: Health 1; Flammability 1; Reactivity 0;
(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). 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:
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ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

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C - Ceiling Limit	CAS - Chemical Abstract Service Number
A1-5 - Appendix A Categories	() - Change Has Been Proposed
NDA - No Data Available	NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology and Health Risk Assessment Unit, CRTC, P.O. Box 4054, Richmond, CA 94804

****

Revision Number: 0 **Revision Date: 06/07/97** **MSDS Number: 006711**

LOGGED IN: 4
Date 9/2/98

COPY

INSPECTION FOR N.O.R.M. CONTAMINATION
PHILLIPS PETROLEUM COMPANY

Location: Lower Yard Date: 9/1/98

Survey Instrument Model: Victoreen #290 Last Calibrated: 9/30/95

Item Description: Soil from 29-6 #201

Number of Pieces: 3 cu yds

Location Where Items Originated: 29-6 #201

Background Reading: 0.5 uR uR/hr

Highest NORM reading: 0.6 uR uR/hr (not corrected for background)

Lowest NORM reading: 0.4 uR uR/hr (Not corrected for background)

Any samples taken, if so how many: 0

---

3 cys 3 Pieces inspected

All Pieces found to be free of NORM contamination

No 0 Pieces found to have NORM contamination

Remarks:

Inspector: Frank McDonald

What is final disposition:

Released to: Date:

cc: Field Office
J. E. Stark

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Frank McDonald
Cimarron Oilfield Service Co.
P. O. Box 3235
Farmington, NM 87401

August 27, 1998

Mr. McDonald:

Enclosed, please find the reports for the sample submitted for Phillips Petroleum Company to our laboratory on August 12, 1998.

If you have any questions about the results of these analyses, please don't hesitate to call at your convenience.

We appreciate your business!

Sincerely,

Sharon Williams
Organics Lab Supervisor

Enclosure

xc: File

COPY

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Client:	**Phillips Petroleum Company**		
Project:	Lower Yard	Date Reported:	08/27/98
Sample ID:	29-6 #201	Date Sampled:	08/12/98
Laboratory ID:	0398G04482	Date Received:	08/12/98
Sample Matrix:	Soil		
Condition:	Intact		

Analyte	Result	Units	PQL
Ignitability	>140	° F	N/A
Corrosivity (pH)	8.13	s.u.	0.1
Reactive Cyanide	ND	mg/kg	1 mg/kg
Reactive Sulfide	26	mg/kg	20 mg/kg

ND - Analyte not detected at stated detection level.

References:

Analysis performed according to SW-846 "Test Methods for Evaluating Liquid/Solid Waste: Physical/Chemical Methods" United States Environmental Protection Agency, final Update 3, December, 1996.

ASTM Annual Book of Standards

Reported by: _____ Reviewed by: _____

COPY

Inter- Mountain Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSES / PARAMETERS
Phillips Petroleum Company	Lower Yard	
Sampler: (Signature)	**Chain of Custody Tape No.**	**Remarks**

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	BTEX					
7-6 #201	8/12/98	1019		Soil	1	X					Target Hazard List

COPY

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Frank McDonald	8/12/98	1023	Lindaye Henderson	8/12/98	1023
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lindaye Henderson	8/12/98	15:25			
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature)	Date	Time
				8/12/98	1520

Inter-Mountain Laboratories, Inc.

☐	☐	☒	☐	☐
1633 Terra Avenue Sheridan, Wyoming 82801	1701 Phillips Circle Gillette, Wyoming 82718	2506 West Main Street Farmington, NM 87401	1160 Research Drive Bozeman, Montana 59718	11183 State Hwy. 30 College Station, TX 77845

54022

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 96052

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐	4. Generator Phillips Petroleum
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site SJ 29-6 #301(WD
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Cimmaron
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 2, T 29N, R6W,

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:

Hydrocarbon Contaminated Soil.
Noise Survey ATTACHED.

RECEIVED
SEP 8 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 1 cy cy Known Volume (to be entered by the operator at the end of the haul) 5 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 9-8-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/8/98

APPROVED BY: Ernie Busch TITLE: — DATE: —

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NBU 3004 Farmington, N.M. 87401	Envirotech Soil Remediation Facility Landfarm # 2 Hilltop, NM

3. Originating Site (Name):
San Juan 29-6 # 301 SWD Section 2, T-29-N, R-6-W
4. Source and Description of Waste:
Exempt Hydrocarbon Stained Soil

I, Robert A. Wirtanen representative for:
(Print Name)

Phillips Petroleum Company do hereby certify that, according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1998, 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 non-hazardous waste defined above.

For **EXEMPT** waste only, the following documentation is attached (check appropriate items)	For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items)
X NORM Survey _____ TCLP Analysis _____ RCI Analysis	_____ MSDS Information _____ TCLP Analysis _____ Chain of Custody _____ NORM Survey _____ Other (description)

Name (Original Signature): RA Wirtanen
Title: Sr. Safety and Environmental Specialist
Date: 9-8-98

LOGGED IN: ✓
Date 9/4/98

INSPECTION FOR N.O.R.M. CONTAMINATION
PHILLIPS PETROLEUM COMPANY

Location: Phillips Lower Yard Date: 9-3-98

Survey Instrument Model: Victoreen Last Calibrated: 8-11-97

Item Description: Dirt - tank bottom -

Number of Pieces: 1/3 yard.^{3}

Location Where Items Originated: 29-6 #301 SWD

Background Reading: .16 uR/hr

Highest NORM reading: .38 uR/hr (not corrected for background)

Lowest NORM reading: .22 uR/hr (Not corrected for background)

Any samples taken, if so how many:

---

1 - 3yd^3 Pieces inspected

All Pieces found to be free of NORM contamination

Ø Pieces found to have NORM contamination

Remarks:

Inspector: Ronnie Benson

What is final disposition: No NORM.

Released to: Envirotech Landfarm #2 Date: 9-3-98

cc: Field Office
J. E. Stark

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington

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:

Continuation of wash bay solids

TCLP & Reaffirmation Statement ATTACHED

RECEIVED
SEP 4 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) 228 cy

SIGNATURE: Harold M Brown TITLE: Landfarm Manager DATE: 9-4-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harold M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/4/98

APPROVED BY: [signature] TITLE: Supervisor DATE: 9/9/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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 1 Copy
to appropriate
District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington

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:

Continuation of wash bay solids

TCLP & Reaffirmation Statement attached

RECEIVED
SEP 4 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 9-4-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

ENV ROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 12-23-98

Printed Name E O Shannon

Title / Agency Maint Supervr.

Address 4109 E. Main St

Farmington N.M.

Signature E O Shannon

Date 8-28-98

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401 **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Solids stabilization pad East side of Main Yard Facility 4109 E. Main Street Farmington, New Mexico
4. Source and Description of Waste Continuation of wash bay solids; mud and related material generated at truck wash bay	

I, E.O. Shannon (Print Name) representative for:

_____ 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)

___ **EXEMPT** oilfield waste

xx **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
xx RCRA Hazardous Waste Analysis
xx Chain of Custody
___ Other (description):

Name (Original Signature): E.O. Shannon

Title: maint SUPER V.

Date: 08-28-98

ENVIROTECH LABS

)SPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	12-29-97
Lab ID#:	C728	Date Sampled:	12-23-97
Sample Matrix:	Solid	Date Received:	12-23-97
Preservative:	Cool	Date Analyzed:	12-23-97
Condition:	Cool & Intact	Chain of Custody:	5698

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**8.52**
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, East Main St., Farmington, NM.**

Analyst

Review

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ENVIROTECH LABS

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	100%

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: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

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ENVIROTECH LABS

EPA METHOD 8040
PHENOLS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	01-02-98
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	100%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

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ENVIROTECH LABS

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

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Extracted:	12-23-97
Preservative:	Cool	Date Analyzed:	12-31-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.189	0.020	5.0
Hexachloroethane	ND	0.020	3.0
Nitrobenzene	0.047	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.030	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: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

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ENVIROTECH LABS

A METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Composite	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	12-23-97
Chain of Custody:	5698	Date Received:	12-23-97
Sample Matrix:	Solid	Date Analyzed:	01-06-98
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.015	0.0001	5.00
Barium	1.62	0.001	100
Cadmium	0.001	0.0001	1.00
Chromium	0.006	0.0001	5.00
Lead	0.051	0.0001	5.00
Mercury	ND	0.0001	0.200
Selenium	ND	0.0001	1.00
Silver	ND	0.0001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

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

Comments: **Halliburton, East Main St., Farmington, NM.**

Analyst

Review

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ENVIROTECH LABS

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-02-98
Laboratory Number:	12-31-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-31-97
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	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, Sept. 1994.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

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ENVIROTECH LABS

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-02-98
Laboratory Number:	12-23-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-31-97
Condition:	N/A	Date Extracted:	12-23-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	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, Sept. 1994.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

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ENVIROTECH LABS

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-31-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 C728 and C748 - C751.**

Analyst

Review

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ENVIROTECH LABS

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-31-97
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	0.0502	0.0001	100%	28-163
1,1-Dichloroethene	ND	0.050	0.0491	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0489	0.0001	98%	47-132
Chloroform	ND	0.050	0.0489	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.050	0.0493	0.0001	99%	43-143
Benzene	ND	0.050	0.0498	0.0001	96%	39-150
1,2-Dichloroethane	ND	0.050	0.0497	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0492	0.0003	98%	35-146
Tetrachloroethene	ND	0.050	0.0482	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0487	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0510	0.0002	101%	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 C728 and C748 - C751.

Analyst

Review

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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:	01-02-98
Laboratory Number:	01-02-TCA.BLNK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-02-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	101 %
	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. 19

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

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ENVIROTECH LABS

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-02-98
Laboratory Number:	12-23-TCA.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool & Intact	Date Analyzed:	01-02-98
		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	101%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

Review

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ENVIROTECH LABS

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-02-98
		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, 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 C728 and C748 - C751.**

Analyst

Review

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ENVIROTECH LABS

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:	01-02-98
Laboratory Number:	12-31-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:	12-31-97
		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 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: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENVIROTECH LABS

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:	01-02-98
Laboratory Number:	12-23-TBN.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-23-97
Condition:	Cool and Intact	Date Analyzed:	12-31-97
		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	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: **QA/QC for samples C728 and C748 - C751.**

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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:	01-02-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-31-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.189	0.192	1.7%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	0.047	0.049	5.4%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	0.030	0.031	2.4%	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, 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: QA/QC for samples C728 and C748 - C751.

Analyst

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ENVIROTECH LABS

METHOD 1311
TOXICITY CHARACTERISTIC
LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-06-98
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.0001
Barium	ND	ND	0.001
Cadmium	ND	ND	0.0001
Chromium	ND	ND	0.0001
Lead	ND	ND	0.0001
Mercury	ND	ND	0.0001
Selenium	ND	ND	0.0001
Silver	ND	ND	0.0001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for samples C728 and C748 - C751.**

Analyst

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ENV ROTECH LABS

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	12-23-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	0.015	0.015	0.0%
Barium	1.62	1.62	0.0%
Cadmium	0.001	0.001	0.0%
Chromium	0.006	0.006	0.0%
Lead	0.051	0.051	0.0%
Mercury	ND	ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	30 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: QA/QC for samples C728 and C748 - C751.

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ENV ROTECH LABS

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-06-98
Laboratory Number:	C728	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-06-98
Condition:	N/A	Date Extracted:	12-23-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	0.100	0.015	0.114	99%
Barium	1.00	1.62	2.62	100%
Cadmium	0.050	0.001	0.051	100%
Chromium	0.050	0.006	0.056	100%
Lead	0.100	0.051	0.151	100%
Mercury	0.025	ND	0.025	100%
Selenium	0.100	ND	0.100	100%
Silver	0.050	ND	0.050	100%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: QA/QC for samples C728 and C748 - C751.

Analyst

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5698

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
HALIBURTON	HALIBURTON EAST MAIN ST. FARMINGTON, N.M.	
Sampler: (Signature) Marin D. Young	Chain of Custody Tape No. 92132	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o H&P						Remarks
WASH BAY Composite	12/23/97	7:27	C728	Solid	1	✓						
					Sample received cool & intact							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marin D Young	12/23/97	8:05	[signature]	7-23-97	0805
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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 1 Copy
to appropriate
District Office

Env. JN: 97070-02

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Conoco
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site San Juan 28-7 #58
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"D" Sec 29, T28N R7W, Rio Arriba County New Mexico

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:

Petroleum hydrocarbon contaminated soil & gravel generated during cleanup of former compressor pad location. Spills & leaks associated w/ compressor.

TCLP Attached

RECEIVED
SEP 4 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) 12 cy

SIGNATURE: Harlan W. Brown Waste Management Facility Authorized Agent TITLE: Lab/Waste Manager DATE: 9.4.98

TYPE OR PRINT NAME: Harlan W. Brown TELEPHONE NO. 505 632 0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/4/98

APPROVED BY: [signature] TITLE: Bureau Chief DATE: 9/9/98

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
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Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env. JN: 97070-02

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Conoco
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site San Juan 28-7 #58A
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"D" Sec 29, T28N R7W, Rio Arriba Cnty New Mexico

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:

Petroleum hydrocarbon contaminated soil & gravel generated during cleanup of former compressor pad location. Spills & leaks associated w/ compressor.

TCLP Attached

RECEIVED
SEP 4 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 9.4.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: HARLAN M. BROWN TELEPHONE NO. 505 632 0615

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: _____ TITLE: _____ DATE: _____

350

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Conoco Inc 3315 Bloomfield Hwy Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Conoco Inc San Juan 28-7 Well #58A Rio Arriba, NM Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Well Pad
4. Source and Description of Waste Compressor oil Stained Soils -	

I, Shirley L. EBERT (Print Name) representative for:

Conoco 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)

___ **EXEMPT** oilfield waste

_X_ **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
_X_ RCRA Hazardous Waste Analysis
_X_ Chain of Custody
___ Other (description):

Name (Original Signature): Shirley Ebert

Title: SHEAR Specialist

Date: 9/1/98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

August 6, 1998

Ms. Shirley Ebert
Conoco, Inc.
3315 Bloomfield Highway
Farmington, New Mexico 87401

(505) 324-5813
(505) 324-5825

Project No.: 97070-02

Dear Ms. Ebert,

Enclosed are the analytical results for the sample collected from the location designated as "San Juan 28-7 #58A". One five point composite soil sample identified as "Compressor Pad" was collected from the designated location by Envirotech personnel on 07/30/98, and received by the Envirotech laboratory on 07/30/98 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. 6181 and assigned Laboratory No. D770 for tracking purposes.

The sample was extracted on 08/03/98 and analyzed on 08/03/98 through 08/06/98 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

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enclosure

SWS/sws

97070-02.lb1/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	CONOCO	Project #:	97070-02
Sample ID:	Compressor Pad	Date Reported:	08-03-98
Lab ID#:	D770	Date Sampled:	07-30-98
Sample Matrix:	Soil	Date Received:	07-30-98
Preservative:	Cool	Date Analyzed:	08-03-98
Condition:	Cool & Intact	Chain of Custody:	6181

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 8.65**
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: **San Juan 28 - 7 #58A 5 Pt. Composite.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	CONOCO	Project #:	97070-02
Sample ID:	Compressor Pad	Date Reported:	08-04-98
Laboratory Number:	D770	Date Sampled:	07-30-98
Chain of Custody:	6181	Date Received:	07-30-98
Sample Matrix:	Soil	Date Extracted:	08-03-98
Preservative:	Cool	Date Analyzed:	08-04-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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 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: **San Juan 28-7 #58A 5 Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	CONOCO	Project #:	97070-02
Sample ID:	Compressor Pad	Date Reported:	08-04-98
Laboratory Number:	D770	Date Sampled:	07-30-98
Chain of Custody:	6181	Date Received:	07-30-98
Sample Matrix:	Soil	Date Extracted:	08-03-98
Preservative:	Cool	Date Analyzed:	08-04-98
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	99%
	2,4,6-Tribromophenol	97%

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. 19

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

Comments: **San Juan 28 - 7 #58A 5 Pt. Composite.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	CONOCO	Project #:	97070-02
Sample ID:	Compressor Pad	Date Reported:	08-04-98
Laboratory Number:	D770	Date Sampled:	07-30-98
Chain of Custody:	6181	Date Received:	07-30-98
Sample Matrix:	Soil	Date Extracted:	08-03-98
Preservative:	Cool	Date Analyzed:	08-04-98
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 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: **San Juan 28-7 #58A 5 Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Conoco	Project #:	97070-02
Sample ID:	Compressor Pad	Date Reported:	08-05-98
Laboratory Number:	D770	Date Sampled:	07-30-98
Chain of Custody:	6181	Date Received:	07-30-98
Sample Matrix:	Soil	Date Analyzed:	08-05-98
Preservative:	Cool	Date Extracted:	08-03-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.0091**	**0.0001**	**5.00**
Barium	**13.8**	**0.001**	**100**
Cadmium	**0.0050**	**0.0001**	**1.00**
Chromium	**0.0006**	**0.0001**	**5.00**
Lead	**ND**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**0.0094**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

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, July 1, 1992.

Comments: **San Juan 28 - 7 #58A 5 Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	08-04-98
Laboratory Number:	08-04-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-04-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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-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: **QA/QC for sample D770.**

Analyst

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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:	Method Blank	Date Reported:	08-04-98
Laboratory Number:	08-03-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-04-98
Condition:	N/A	Date Extracted:	08-03-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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: **QA/QC for sample D770.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	08-04-98
Laboratory Number:	D770	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	08-04-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 sample D770.**

Analyst

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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:	Matrix Spike	Date Reported:	08-04-98
Laboratory Number:	D770	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	08-04-98
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	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	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0489	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0485	0.0002	97%	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 D770.**

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ENVIRO-TECH 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:	08-04-98
Laboratory Number:	08-04-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-04-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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. 19

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

Comments: **QA/QC for sample D770.**

Analyst

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ENVIROTECH 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:	08-04-98
Laboratory Number:	08-03-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	08-03-98
Condition:	Cool & Intact	Date Analyzed:	08-04-98
		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	96%

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. 19

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

Comments: **QA/QC for sample D770.**

Analyst

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ENVIROTECH LABS

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:	08-04-98
Laboratory Number:	D770	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	08-04-98
		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, 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. 198

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

Comments: **QA/QC for sample D770.**

Analyst

Review

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ENVIROTECH 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:	08-04-98
Laboratory Number:	08-04-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:	08-04-98
		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	**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: **QA/QC for sample D770.**

Analyst

Review

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ENVIROTECH 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:	Method Blank	Date Reported:	08-04-98
Laboratory Number:	08-03-BN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	08-03-98
Condition:	Cool and Intact	Date Analyzed:	08-04-98
		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	**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: **QA/QC for sample D770.**

Analyst

Review

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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:	08-04-98
Laboratory Number:	D770	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	08-04-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for sample D770.**

Analyst

Review

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ENV ROTECH 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:	08-05-TCM QA/QC	Date Reported:	08-05-98
Laboratory Number:	D770	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	08-05-98
Condition:	N/A	Date Extracted:	08-03-98

Blank Compound	Instrument Blank	Method Blank	Concentration	Sample	Duplicate	RPD	Acceptance Range
Arsenic	ND	ND	0.0001	0.0091	0.0090	1.1%	0% - 30%
Barium	ND	ND	0.001	13.8	13.9	0.7%	0% - 30%
Cadmium	ND	ND	0.0001	0.0050	0.0050	0.0%	0% - 30%
Chromium	ND	ND	0.0001	0.0006	0.0006	0.0%	0% - 30%
Lead	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	0.0094	0.0094	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Compound	Spike Added	Sample	Spike Result	Recovery	Acceptance Range
Arsenic	0.1000	0.0091	0.1089	100%	80% - 120%
Barium	1.000	13.8	14.8	100%	80% - 120%
Cadmium	0.0500	0.0050	0.0549	100%	80% - 120%
Chromium	0.0500	0.0006	0.0505	100%	80% - 120%
Lead	0.1000	ND	0.0998	100%	80% - 120%
Mercury	0.0250	ND	0.0248	99%	80% - 120%
Selenium	0.1000	0.0094	0.1092	100%	80% - 120%
Silver	0.0500	ND	0.0499	100%	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 sample D770.**

Analyst

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CHAIN OF CUSTODY RECORD

6181

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Conoco	San Juan 28-7 #58A	
Sampler: Harlan M. Brown	Client No. 9707Ø-Ø2	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/ H&P						Remarks
Compressor Pad	7.30.98	13:35	D770	Soil	1	✓						5 pt. composite

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harlan M Brown	7.30.98	16:15	Rebecca L. Ojeda	7.30.98	1615
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

Energy

New Mexico
rals 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 1 Copy
to appropriate
District Office

RECEIVED
OCT 13 1998
OIL CON. DIV.
DIST. 3

Env. No.: 98061-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA - Various
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E Main, Farmington

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:

petroleum Hydrocarbon impacted soil discovered @ construction Location near Acid Rack.
Acid Rack (Load Rack)

RECEIVED
AUG 26 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of the haul) 4/6 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Mngr. DATE: 8.26.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505.632.0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/26/98

APPROVED BY: [signature] TITLE: Bureau Chief DATE: 9/2/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 98061-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBA - Various
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E Main, Farmington

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:

petroleum Hydrocarbon impacted soil discovered @ construction Location near Acid Rack.
Acid Rack (Load Rack)

RECEIVED
AUG 26 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Mngr. DATE: 8.26.98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505.632.0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/26/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
HALLIBURTON P O BOX 3 HOUSTON, TX 77001-002	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** HALLIBURTON ENERGY SERVICES 4109 E. MAIN FARMINGTON, NM 87402
4. Source and Description of Waste HYROCARBON IMPACTED SOIL	

I, MARTY COX (Print Name) representative for: HALLIBURTON ENERGY SERVICES 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)

___ **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
✓ RCRA Hazardous Waste Analysis
✓ Chain of Custody
___ Other (description):

Name (Original Signature): Marty Cox

Title: Geologist

Date: 8-18-98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
HALLIBURTON P.O. BOX 3 HOUSTON, TX 77001-002	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** HALLIBURTON ENERGY SERVICES 4109 E. MAIN FARMINGTON, NM 87402
4. Source and Description of Waste HYROCARBON IMPACTED SOIL	

I, MARTY COX representative for:
(Print Name)
HALLIBURTON ENERGY SERVICES 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)

___ **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
✓ RCRA Hazardous Waste Analysis
✓ Chain of Custody
___ Other (description):

Name (Original Signature): _____

Title: _____

Date: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 29, 1998

Mr. Marty Cox
Entact - Halliburton Farmington
1616 Corporate Court #150
Irving, Texas 75038

Project No.: 98061-01

Dear Mr. Cox,

Enclosed are the analytical results for the sample collected from the location designated as "Farmington, NM". One soil sample was collected by Entact - Halliburton designated personnel on 07/15/98, and received by the Envirotech laboratory on 07/15/98 for Hazardous Waste Characterization analysis (TCLP Volatile Organics, Semi-volatile Organics, Trace Metals, Corrosivity, Reactivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 6168 and assigned Laboratory No. D658 for tracking purposes.

The sample was extracted on 07/20/98 and analyzed 07/20/98 through 07/28/98 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

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

98061-01.lb3/wpd

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Entact Halliburton - Main St.	Project #:	98061-01
Sample ID:	Main - 01	Date Reported:	07-20-98
Lab ID#:	D658	Date Sampled:	07-15-98
Sample Matrix:	Soil	Date Received:	07-15-98
Preservative:	Cool	Date Analyzed:	07-20-98
Condition:	Cool & Intact	Chain of Custody:	6168

Parameter	**Result**	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 7.40**
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: **Farmington, NM.**
Composite Sump & Excavation Side Walls.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Entact Halliburton - Main St.	Project #:	98061.01
Sample ID:	Main - 01	Date Reported:	07-24-98
Laboratory Number:	D658	Date Sampled:	07-15-98
Chain of Custody:	6168	Date Received:	07-15-98
Sample Matrix:	Soil	Date Extracted:	07-20-98
Preservative:	Cool	Date Analyzed:	07-22-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0022	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0002	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.
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: **Farmington, NM. Composite Sump & Excavation Side Walls.**

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ENVIRO TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Entact Halliburtin - Main St.	Project #:	98061-01
Sample ID:	Main - 01	Date Reported:	07-24-98
Laboratory Number:	D658	Date Sampled:	07-15-98
Chain of Custody:	6168	Date Received:	07-15-98
Sample Matrix:	Soil	Date Extracted:	07-20-98
Preservative:	Cool	Date Analyzed:	07-22-98
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	99%
	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. 19

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

Comments: **Farmington, NM. Composite Sump & Excavation Side Walls.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Entact Halliburton - Main St.	Project #:	98061-01
Sample ID:	Main - 01	Date Reported:	07-26-98
Laboratory Number:	D658	Date Sampled:	07-15-98
Chain of Custody:	6168	Date Received:	07-15-98
Sample Matrix:	Soil	Date Extracted:	07-20-98
Preservative:	Cool	Date Analyzed:	07-22-98
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, 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: **Farmington, NM. Composite Sump & Excavation Side Walls.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Entact Halliburton - Main St.	Project #:	98061-01
Sample ID:	Main - 01	Date Reported:	07-27-98
Laboratory Number:	D658	Date Sampled:	07-15-98
Chain of Custody:	6168	Date Received:	07-15-98
Sample Matrix:	Soil	Date Analyzed:	07-27-98
Preservative:	Cool	Date Extracted:	07-20-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.0101**	**0.0001**	**5.00**
Barium	**0.261**	**0.001**	**100**
Cadmium	**0.0070**	**0.0001**	**1.00**
Chromium	**0.0011**	**0.0001**	**5.00**
Lead	**0.0154**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

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, July 1, 1992.

Comments: **Farmington, NM. Composite Sump & Excavation Side Walls.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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500

ENVIRO-TECH 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:	07-24-98
Laboratory Number:	07-22-TCVOL-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-22-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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-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: **QA/QC for sample D658.**

Analyst

Review

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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:	Method Blank	Date Reported:	07-24-98
Laboratory Number:	07-20-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-22-98
Condition:	N/A	Date Extracted:	07-20-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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: **QA/QC for sample D658.**

Analyst

Review

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ENVIRO-TECH 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 Duplicate	Date Reported:	07-24-98
Laboratory Number:	D658	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-22-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0022	0.0023	0.0001	2.6%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0002	0.0002	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 sample D658.**

Analyst

Review

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ENVIRO-TECH 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 Spike	Date Reported:	07-24-98
Laboratory Number:	D658	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-22-98
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	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0022	0.050	0.0517	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	0.0002	0.050	0.0500	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0489	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0485	0.0002	97%	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 D658.**

Analyst

Review

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ENVIRO-TECH 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:	07-24-98
Laboratory Number:	07-22-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-22-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	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. 19

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

Comments: **QA/QC for sample D658.**

Analyst

Review

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ENVIROTECH 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:	07-24-98
Laboratory Number:	07-20-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-20-98
Condition:	Cool & Intact	Date Analyzed:	07-22-98
		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	99%
	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. 19

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

Comments: **QA/QC for sample D658.**

Analyst

Review

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ENVIROTECH LABS

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:	07-24-98
Laboratory Number:	D658	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	07-22-98
		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, 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. 198

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

Comments: **QA/QC for sample D658.**

Analyst

Review

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ENVIRO-TECH 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:	07-26-98
Laboratory Number:	07-22-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:	07-22-98
		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, 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: **QA/QC for sample D658.**

Analyst

Review

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ENVIROTECH 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:	Method Blank	Date Reported:	07-26-98
Laboratory Number:	07-20-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-20-98
Condition:	Cool and Intact	Date Analyzed:	07-22-98
		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 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: **QA/QC for sample D658.**

Analyst

Review

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ENVIRO-TECH 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:	07-26-98
Laboratory Number:	D658	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-22-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for sample D658.**

Analyst

Review Stacy W Sendler

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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 #:	N/A
Sample ID:	07-27-TCM QA/QC	Date Reported:	07-27-98
Laboratory Number:	D658	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-27-98
Condition:	N/A	Date Extracted:	07-20-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	**ND**	**ND**	**0.0001**	**0.0101**	**0.0100**	**1.0%**	**0% - 30%**
Barium	**ND**	**ND**	**0.001**	**0.261**	**0.261**	**0.0%**	**0% - 30%**
Cadmium	**ND**	**ND**	**0.0001**	**0.0070**	**0.0071**	**1.4%**	**0% - 30%**
Chromium	**ND**	**ND**	**0.0001**	**0.0011**	**0.0011**	**0.0%**	**0% - 30%**
Lead	**ND**	**ND**	**0.0001**	**0.0154**	**0.0153**	**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%**

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	**0.1000**	**0.0101**	**0.1099**	**100%**	**80% - 120%**
Barium	**1.000**	**0.261**	**1.26**	**100%**	**80% - 120%**
Cadmium	**0.0500**	**0.0070**	**0.0569**	**100%**	**80% - 120%**
Chromium	**0.0500**	**0.0011**	**0.0510**	**100%**	**80% - 120%**
Lead	**0.1000**	**0.0154**	**0.1152**	**100%**	**80% - 120%**
Mercury	**0.0250**	**ND**	**0.0248**	**99%**	**80% - 120%**
Selenium	**0.1000**	**ND**	**0.0998**	**100%**	**80% - 120%**
Silver	**0.0500**	**ND**	**0.0499**	**100%**	**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 D658, D677 - D679 and D681.**

Analyst

Review

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CHA N OF CL S' 'ODY RECORD

6168

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
ENTACT HALLIBURTON-MAIN ST	Farmington, NM	

Sampler:	Client No.
MARTY COX	98061-01

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Volatile Organic 8021/8240	Semi-Volatile Organic 8270	TPH 418.1	TCLP w/o H&P			Remarks
MAIN-01	7-15	1330	D658	Soil	4	✓	✓	✓	✓			Composite Sump & excavation sidewalls.
MAIN-02	7-15	1345	D659	Soil	4	✓	✓	✓				Hold
UPPER SUMP	7-14	1630	D660	Soil	1	✓	✓	✓				Hold
LOWER SUMP	7-14	1630	D661	Soil	1	✓	✓	✓				Hold
NE CORNER	7-14	1630	D662	Soil	1	✓	✓	✓				Hold

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Marty Cox	7-15	1620		7-15-98	1621
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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-13[illegible]
Originated 8/8/9

Submit Origina
Plus 1 Cop
to appropriat
District Offic

Env. JN: 98059

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Universal Compression
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Various Compressor locations
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	1125 Hwy 550 Aztec, N.M. 87410

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:

Lube oil contaminated soil generated during maintenance & Repair of compressors @ various field locations. Spills & leaks picked up by mechanics and placed in drums at U.C. Yard.

TCLP ATTACED

RECEIVED
JUL 20 1998
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RECEIVED
JUL 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 6 cy Known Volume (to be entered by the operator at the end of the haul) 6 drums cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 7-15-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/16/98

APPROVED BY: [signature] TITLE: Bureau Chief DATE: 7/29/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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-13[illegible]
Originated 8/8/9[illegible]

Submit Origin[illegible]
Plus 1 Cop[illegible]
to appropriat[illegible]
District Offic[illegible]

Env. JN: 98059

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Universal Compression
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Various compressor locations
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	1725 Hwy 550 Aztec, N.M. 87410

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.

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BRIEF DESCRIPTION OF MATERIAL:

Lube oil contaminated soil generated during maintenance & Repair of compressors @ various field locations. Spills & leaks picked up by mechanics and placed in drums at U.C. Yard.

TCLP ATTACED

RECEIVED
JUL 16 1998

RECEIVED
JUL 20 1998
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

OIL CON. DIV.
DIST. 3

Estimated Volume 6 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan W Brown TITLE: Landfarm Manager DATE: 7-15-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan W Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/16/98

APPROVED BY: [signature] TITLE: Bureau Chief DATE: 7/29/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 98059

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Universal Compression
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Various Compressor Locations
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	1725 Hwy 550 Aztec, N.M. 87410

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:

Lube oil contaminated soil generated during maintenance & Repair of compressors @ various field locations. Spills & leaks picked up by mechanics and placed in drums at U.C. Yard.

TCLP ATTACED

RECEIVED
JUL 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 6 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harland M Brown TITLE: Landfarm Manager DATE: 7-15-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: HARLAND M. BROWN TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 7/16/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Universal Compression 1125 US Hwy 550 Aztec NM 87410	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
Various ~~Well~~ Compressor Locations Attach list of originating sites as appropriate	Same As 1.
4. Source and Description of Waste	
Clean up of spills & leaks generated during maintenance and repair.	

I, Gregg A. Self (Print Name) representative for: Universal Compression 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)

___ **EXEMPT** oilfield waste

X **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
X RCRA Hazardous Waste Analysis
X Chain of Custody
___ Other (description):

Name (Original Signature): Gregg A. Self

Title: Serviceman A

Date: 7-15-98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

July 10, 1998

Mr. Greg Self
Universal Compression
1125 Highway 550
Aztec, NM 87410

Project No.: 98059-01

Dear Mr. Self,

Enclosed are the analytical results for the sample collected from the location designated as "PHC Soils - Field Locations". One soil sample was collected by Envirotech, Inc. personnel on 06/26/98, and received by the Envirotech laboratory on 06/26/98 for Hazardous Waste Characterization (Corrosivity, Reactivity, Ignitability, Volatile and Semi-volatile Organics, and Trace Metals).

The sample was documented on Envirotech Chain of Custody No. 6147 and assigned Laboratory No. D548 for tracking purposes.

The sample was analyzed 06/30/98 through 07/07/98 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

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

98059-01.lb1/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-07-98
Lab ID#:	D548	Date Sampled:	06-26-98
Sample Matrix:	Soil	Date Received:	06-26-98
Preservative:	Cool	Date Analyzed:	06-30-98
Condition:	Cool & Intact	Chain of Custody:	6147

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 7.49**
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:	**PHC Soils - Field Locations.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	06-26-98
Chain of Custody:	6147	Date Received:	06-26-98
Sample Matrix:	Soil	Date Extracted:	06-30-98
Preservative:	Cool	Date Analyzed:	07-06-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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 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: **PHC Soils - Field Locations.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	06-26-98
Chain of Custody:	6147	Date Received:	06-26-98
Sample Matrix:	Soil	Date Extracted:	06-30-98
Preservative:	Cool	Date Analyzed:	07-07-98
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	99%
	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. 19

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

Comments: **PHC Soils - Field Locations.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	06-26-98
Chain of Custody:	6147	Date Received:	06-26-98
Sample Matrix:	Soil	Date Extracted:	06-30-98
Preservative:	Cool	Date Analyzed:	07-07-98
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 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: **PHC Soils - Field Locations.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-07-98
Laboratory Number:	D548	Date Sampled:	06-26-98
Chain of Custody:	6147	Date Received:	06-26-98
Sample Matrix:	Soil	Date Analyzed:	07-06-98
Preservative:	Cool	Date Extracted:	06-30-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.0001**	**5.00**
Barium	**2.23**	**0.001**	**100**
Cadmium	**0.0581**	**0.0001**	**1.00**
Chromium	**0.0101**	**0.0001**	**5.00**
Lead	**0.0286**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

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, July 1, 1992.

Comments: **PHC Soils - Field Locations.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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ENVIRO-TECH 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:	07-08-98
Laboratory Number:	07-06-TCVOL BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-06-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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-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: **QA/QC for sample D548.**

Analyst

Review Stacy W Sendler

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-08-98
Laboratory Number:	06-30-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-06-98
Condition:	N/A	Date Extracted:	06-30-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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: **QA/QC for sample D548.**

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ENVIRO-TECH 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 Duplicate	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-06-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 sample D548.**

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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:	Matrix Spike	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-06-98
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	0.0490	0.0001	98%	28-163
1,1-Dichloroethene	ND	0.050	0.0489	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0480	0.0001	96%	47-132
Chloroform	ND	0.050	0.0493	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0486	0.0001	97%	43-143
Benzene	ND	0.050	0.0483	0.0001	97%	39-150
1,2-Dichloroethane	ND	0.050	0.0484	0.0001	97%	51-147
Trichloroethene	ND	0.050	0.0499	0.0003	100%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0489	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0485	0.0002	97%	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 D548.**

Analyst

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ENVIROTECH 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:	07-08-98
Laboratory Number:	07-07-TCA-BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-07-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	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. 19

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

Comments: **QA/QC for sample D548.**

Analyst

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ENVIROTECH 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:	07-08-98
Laboratory Number:	06-30-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-30-98
Condition:	Cool & Intact	Date Analyzed:	07-07-98
		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	99%
	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. 19

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

Comments: **QA/QC for sample D548.**

Analyst

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ENVIROTECH LABS

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:	07-08-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	07-07-98
		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, 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. 198

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

Comments: **QA/QC for sample D548.**

Analyst

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ENVIROTECH 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:	07-08-98
Laboratory Number:	07-07-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:	07-07-98
		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	**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: **QA/QC for sample D548.**

Analyst

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ENVIRO-TECH 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:	Method Blank	Date Reported:	07-08-98
Laboratory Number:	06-30-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-30-98
Condition:	Cool and Intact	Date Analyzed:	07-07-98
		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 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: **QA/QC for sample D548.**

Analyst

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ENVIRO-TECH 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:	07-08-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-07-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for sample D548.**

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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 #:	N/A
Sample ID:	07-06-TCM QA/QC	Date Reported:	07-07-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-07-98
Condition:	N/A	Date Extracted:	06-30-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	2.23	2.22	0.4%	0% - 30%
Cadmium	ND	ND	0.0001	0.0581	0.0577	0.7%	0% - 30%
Chromium	ND	ND	0.0001	0.0101	0.0100	0.0%	0% - 30%
Lead	ND	ND	0.0001	0.0286	0.0284	0.7%	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%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.1000	ND	0.0997	100%	80% - 120%
Barium	1.000	2.23	3.22	100%	80% - 120%
Cadmium	0.0500	0.0581	0.1075	99%	80% - 120%
Chromium	0.0500	0.0101	0.0599	100%	80% - 120%
Lead	0.1000	0.0286	0.1284	100%	80% - 120%
Mercury	0.0250	ND	0.0248	99%	80% - 120%
Selenium	0.1000	ND	0.0996	100%	80% - 120%
Silver	0.0500	ND	0.0499	100%	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 sample D548.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

6147

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Universal Compression	PHC Soils - Field Locations.	

Sampler:	Client No.
Harland M. Brown	98059-01

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o H&P						Remarks
Drum Composite	6.26.98	11:25	D548	Soil	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harland M. Brown	6.26.98	22:40	[signature]	6.26.98	22 40
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

District I · (505) 393-6161
O. Box 1980
Hobbs, NM 88241-1980
District II · (505) 748-1283
11 S. First
Artesia, NM 88210
District III · (505) 334-6178
1 Rio Brazos Road
c, 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 1 Copy to appropriate District Office

Env. JN: 96003-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hart Canyon #1 Compressor Station
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 Mexico
7. Location of Material (Street Address or ULSTR)	NE/4, Sec 29, T31N, R10W SJC, NM

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:

Soil & gravel contaminated with lube oil

TCLP ATTACHED

RECEIVED
JUL 10 1998
Environmental Bureau
Oil Conservation Division

RECEIVED
JUL 9 1998
OIL CON. DIV.
DIST. 3

Were Hauled

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Mngr DATE: 7-9-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny B. Foust TITLE: Geologist DATE: 7/9/98

APPROVED BY: Roger Chrulz TITLE: Bureau Chief DATE: 7/10/98

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 96003-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hart Canyon #1 Compressor Station
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 Mexico
7. Location of Material (Street Address or ULSTR)	NE/4, Sec 29, T31N, R10W, SJC, NM

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:

Soil & gravel contaminated with lube oil

TCLP ATTACHED

RECEIVED
JUL 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Mngr DATE: 7-9-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/9/98

APPROVED BY: _____ TITLE: _____ DATE: _____

RECE D JUL 0 8 1998

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): Hart Canyon #1 Compressor Station Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): NE/4 of Sec. 29, T-31-N, R-10-W, San Juan County, New Mexico
4. Source and Description of Waste Soil and gravel contaminated with lubricating oil	

I, David Bays 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)

___ **EXEMPT** Oilfield waste

__X__ **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
__X__ RCRA Hazardous Waste Analysis
_____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: July 7, 1998

JUNE 30, 1998

ANALYTICAL REPORT

Hart Canyon #1
Oil Stained Soil RCRA Characterization Results
Lab Sample #: 980487
Sampled 6/16/98
Sampled by Dennis Bird

REMARKS:

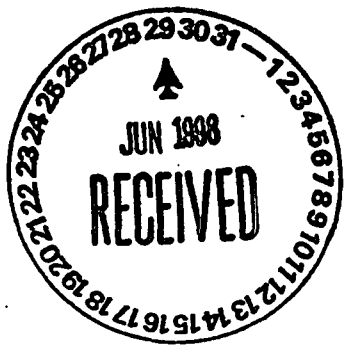
This sample was collected in order to determine disposal options for the oil stained soil found at this location. The request to sample came from David Bays. The sample was tested for all RCRA required TCLP parameters except PCB's, Herbicides and Pesticides. No RCRA limit was exceeded.

Distribution: David Bays
Sandra Miller - W/O Attachments
Eldon Garrison - W/O Attachments
Results File

Attachments:

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW



June 22, 1998

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

EPFS Sample
ID#980487

Project No.: 96003-37

Dear John,

Enclosed are the analytical results for the sample collected from the location designated as "Hart Canyon #1". One soil sample was collected by EPFS designated personnel on 06/16/98, and received by the Envirotech Laboratory on 06/16/98 for Hazardous Waste Characterization analysis (TCLP Volatile and Semi-volatile Organics, Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 4085 and assigned Laboratory No. D425 (EPFS No. 980487) for tracking purposes.

The sample was extracted on 06/17/98 and analyzed on 06/17/98 through 06/22/98 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.

Stacy W Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

96003-37.lb1/wpd

Reviewed + Approved
J Sandler 6/24/98

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	El Paso Field Service	Project #:	96003-37
Sample ID:	980487	Date Reported:	06-17-98
Lab ID#:	D425	Date Sampled:	06-16-98
Sample Matrix:	Soil	Date Received:	06-16-98
Preservative:	Cool	Date Analyzed:	06-17-98
Condition:	Cool & Intact	Chain of Custody:	4085

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 7.30**
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: **Hart Canyon #1.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Service	Project #:	96003-37
Sample ID:	980487	Date Reported:	06-18-98
Laboratory Number:	D425	Date Sampled:	06-16-98
Chain of Custody:	4085	Date Received:	06-16-98
Sample Matrix:	Soil	Date Extracted:	06-17-98
Preservative:	Cool	Date Analyzed:	06-18-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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 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: **Hart Canyon #1.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	El Paso Field Service	Project #:	96003-37
Sample ID:	980487	Date Reported:	06-23-98
Laboratory Number:	D425	Date Sampled:	06-16-98
Chain of Custody:	4085	Date Received:	06-16-98
Sample Matrix:	Soil	Date Extracted:	06-17-98
Preservative:	Cool	Date Analyzed:	06-22-98
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	**97%**

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. 19

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

Comments: **Hart Canyon #1.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	El Paso Field Service	Project #:	96003-37
Sample ID:	980487	Date Reported:	06-23-98
Laboratory Number:	D425	Date Sampled:	06-16-98
Chain of Custody:	4085	Date Received:	06-16-98
Sample Matrix:	Soil	Date Extracted:	06-17-98
Preservative:	Cool	Date Analyzed:	06-22-98
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 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: **Hart Canyon #1.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	El Paso Field Service	Project #:	96003-37
Sample ID:	980487	Date Reported:	06-18-98
Laboratory Number:	D425	Date Sampled:	06-16-98
Chain of Custody:	4085	Date Received:	06-16-98
Sample Matrix:	Soil	Date Analyzed:	06-18-98
Preservative:	Cool	Date Extracted:	06-17-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.0001**	**5.00**
Barium	**1.64**	**0.001**	**100**
Cadmium	**0.0009**	**0.0001**	**1.00**
Chromium	**ND**	**0.0001**	**5.00**
Lead	**0.0024**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

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, July 1, 1992.

Comments: **Hart Canyon #1.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	06-19-98
Laboratory Number:	06-18-TCV-BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-18-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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-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: **QA/QC for samples D425 and D430.**

Analyst

Review

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ENV ROTECH 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:	Method Blank	Date Reported:	06-19-98
Laboratory Number:	06-18-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-18-98
Condition:	N/A	Date Extracted:	06-17-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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: **QA/QC for samples D425 and D430.**

Analyst

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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:	Matrix Duplicate	Date Reported:	06-19-98
Laboratory Number:	D425	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	06-18-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 D425 and D430.**

Analyst

Review

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

ENVIRO-TECH 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 Spike	Date Reported:	06-19-98
Laboratory Number:	D425	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	06-18-98
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	0.0490	0.0001	98%	28-163
1,1-Dichloroethene	ND	0.050	0.0489	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0480	0.0001	96%	47-132
Chloroform	ND	0.050	0.0493	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0486	0.0001	97%	43-143
Benzene	ND	0.050	0.0483	0.0001	97%	39-150
1,2-Dichloroethane	ND	0.050	0.0484	0.0001	97%	51-147
Trichloroethene	ND	0.050	0.0499	0.0003	100%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0489	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0485	0.0002	97%	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 D425 and D430.**

Analyst

Review

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ENVIROTECH 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:	06-23-98
Laboratory Number:	06-22-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-22-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	97 %

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. 19

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

Comments: **QA/QC for sampleS D425 and D430.**

Analyst

Review

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ENVIROTECH 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:	06-23-98
Laboratory Number:	06-17-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-17-98
Condition:	Cool & Intact	Date Analyzed:	06-22-98
		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. 19

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

Comments: **QA/QC for samples D425 and D430.**

Analyst

Review

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ENVIROTECH LABS

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:	06-23-98
Laboratory Number:	D425	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	06-22-98
		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, 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. 198

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

Comments: **QA/QC for samples D425 and D430.**

Analyst

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ENVIROTECH 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:	06-23-98
Laboratory Number:	06-22-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:	06-22-98
		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 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: **QA/QC for samples D425 and D430.**

Analyst

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ENVIROTECH 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:	Method Blank	Date Reported:	06-23-98
Laboratory Number:	06-17-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-17-98
Condition:	Cool and Intact	Date Analyzed:	06-22-98
		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 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: **QA/QC for samples D425 and D430.**

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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:	06-23-98
Laboratory Number:	D425	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	06-22-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for samples D425 and D430.**

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 #:	N/A
Sample ID:	06-18-TCM QA/QC	Date Reported:	06-18-98
Laboratory Number:	D425	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	06-18-98
Condition:	N/A	Date Extracted:	06-17-98

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	**ND**	**ND**	**0.0001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Barium	**ND**	**ND**	**0.001**	**1.64**	**1.63**	**0.6%**	**0% - 30%**
Cadmium	**ND**	**ND**	**0.0001**	**0.0009**	**0.0009**	**0.0%**	**0% - 30%**
Chromium	**ND**	**ND**	**0.0001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Lead	**ND**	**ND**	**0.0001**	**0.0024**	**0.0023**	**4.2%**	**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%**

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	**0.1000**	**ND**	**0.0997**	**100%**	**80% - 120%**
Barium	**1.000**	**1.64**	**2.64**	**100%**	**80% - 120%**
Cadmium	**0.0500**	**0.0009**	**0.0507**	**100%**	**80% - 120%**
Chromium	**0.0500**	**ND**	**0.0498**	**100%**	**80% - 120%**
Lead	**0.1000**	**0.0024**	**0.102**	**100%**	**80% - 120%**
Mercury	**0.0250**	**ND**	**0.0249**	**100%**	**80% - 120%**
Selenium	**0.1000**	**ND**	**0.0996**	**100%**	**80% - 120%**
Silver	**0.0500**	**ND**	**0.0498**	**100%**	**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 D425, D430 and D436 - D438.**

Analyst

Review

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4085

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
EL PASO FIELD SERVICES JOHN CAMBRIN	HART CANYON #1

Sampler: (Signature)	Chain of Custody Tape No.
Dennis Bird	96003-37

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP METALS	TCLP ORGANICS	REACTIVITY	IGNITIBILITY	CORROSIVITY		Remarks
980487	6-16-98	0952	D425	SOIL	1	X	X	X	X	X		
						Sample received cool & intact						

ANALYSIS/PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Dennis Bird	6-16-98	1235	Dawn L. Ojeman	6-16-98	1235
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

san juan regro Form 376-81

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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 1 Copy
to appropriate
District Office

Env. JN: 96003-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator E.P.F.S.
	5. Originating Site Chaco Plant
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 Mexico
7. Location of Material (Street Address or ULSTR)	Sec 16, T26N, R12W, NMPM.

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:

Sand & gravel contaminated w/ new lube oil

MSDS ATTACHED

RECEIVED
JUL 10 1998
Environmental Bureau
Oil Conservation Division

RECEIVED
JUL 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 140 cy

SIGNATURE: Harlan W. Brown TITLE: Landfarm Mngr. DATE: 7.9.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan W. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/9/98

APPROVED BY: [signature] TITLE: Env. Chief DATE: 7/10/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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 1 Copy
to appropriate
District Office

Env. JN: 96003-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site CHACO Plant
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 Mexico
7. Location of Material (Street Address or ULSTR)	Sec 16, T26N, R12W, SJC, NM.

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:

Sand & gravel contaminated w/ new ~~motor~~ lube oil

MSDS ATTACHED

RECEIVED
JUL 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Mgr. DATE: 7.9.98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 7/9/98

APPROVED BY: _____ TITLE: _____ DATE: _____

RECEIVED JUL 02 1998

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): Chaco Plant Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): Section 16, Township 26 North, Range 12 West, San Juan County, NM
4. Source and Description of Waste Soil and gravel contaminated with new lubricating oil	

I, David Bays 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)

____ **EXEMPT** Oilfield waste

__X__ **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):

__X__ MSDS Information
_____ RCRA Hazardous Waste Analysis
_____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: July 1, 1998

Mobil

MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

APPROVAL DATE: 08/15/97

PRODUCT NAME: MOBIL DTE 797 OIL
SUPPLIER: MOBIL OIL CORP.
AMERICAS MARKETING AND REFINING
3225 GALLOWS RD.
FAIRFAX, VA 22037

24 - Hour Emergency (call collect):	609-737-4411	
Product and MSDS Information:	800-662-4525	703-849-5700
CHEMTREC:	800-424-9300	202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.
EFFECTS OF OVEREXPOSURE: No significant effects expected.
EMERGENCY RESPONSE DATA: Straw Liquid. DOT ERG No. - NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Wash contact areas with soap and water.
INHALATION: Not expected to be a problem.
INGESTION: Not expected to be a problem. However, if greater than 1/2 liter(pint) ingested, immediately give 1 to 2 glasses of water

(Section continued next page)

and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING 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, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 207(405) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA.
NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Elemental oxides.

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 precautions 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be employed.
SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.
EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a threshold limit value of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid
COLOR: Straw
ODOR: Mild
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): > 316(600)
MELTING POINT C(F): NA
FLASH POINT C(F): > 207(405) (ASTM D-92)
FLAMMABILITY: NE
AUTO FLAMMABILITY: NE
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: < 0.1
VAPOR DENSITY: > 2.0
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.86
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: > 3.5
VISCOSITY AT 40 C, cSt: > 28.8
VISCOSITY AT 100 C, cSt: 5.4
POUR POINT C(F): -7(20)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: EXEMPT IN U.S.
NA=NOT APPLICABLE NE=NOT ESTABLISHED D-DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Extreme heat.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Elemental oxides.
HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based 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 mists 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: 0 or greater but 6 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: 0.5 or less). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products. Representative Mobil formulations have shown no acute effects, administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal applications to rats 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.

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

Dermal exposure of pregnant rats to representative formulations did not cause adverse effects in either the mothers or their offspring.

---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 effects. These results are confirmed on a continuing basis using various

(Section continued next page)

screening methods such as the Mobil Modified Ames Test and IP-346.

---SENSITIZATION (SUMMARY)---

Representative Mobil formulations have not caused skin sensitization in guinea pigs.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

Acute LC/EC50 Fish: Juvenile Rainbow Trout: Practically non-toxic ---Based on testing of similar products.

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 Conservation 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 hazardous 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 USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA and DSL.

EU Labeling: EU labeling not required.

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 chemicals reportable under SARA (313) toxic release program.

THIS PRODUCT HAS BEEN AUTHORIZED BY USDA FOR USE UNDER THE FOLLOWING CATEGORY: H2 Lubricants With No Food Contact

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
*** NO REPORTABLE INGREDIENTS ***		

--- REGULATORY LISTS SEARCHED ---

1 = ACGIH ALL	6 = IARC 1	11 = TSCA 4	17 = CA P65	22 = MI 293
2 = ACGIH A1	7 = IARC 2A	12 = TSCA 5a2	18 = CA RTK	23 = MN RTK
3 = ACGIH A2	8 = IARC 2B	13 = TSCA 5e	19 = FL RTK	24 = NJ RTK
4 = NTP CARC	9 = OSHA CARC	14 = TSCA 6	20 = IL RTK	25 = PA RTK
5 = NTP SUS	10 = OSHA Z	15 = TSCA 12b	21 = LA RTK	26 = RI RTK

Code key: CARC = Carcinogen; SUS = Suspected Carcinogen

Mobil

16. OTHER INFORMATION

USE: STEAM TURBINE OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

****

For Internal Use Only: MHC: 1* 1* NA 0* 0*, MPPEC: A, REQ: US - MARKETING, SAFE USE: L.

****

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Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
...c, 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

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District Office

Env. JN: 92052

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐	4. Generator Phillips Petroleum
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site SJ 31-6 CDP #1
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Cimarron
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SJ. 31-6 CDP#1

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:

glycol contaminated Soil.

11.20.98 11395 LF2UNITS X-10 8cy
12.2.98 11400 LF2UNITS X-12 20cy

RECEIVED
FEB - 5 1999
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 28 cy

SIGNATURE: Harlan M. Brown Waste Management FacilityAuthorized Agent TITLE: Landfarm Manager DATE: 12.2.98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/9/99

APPROVED BY: Ernie Busch TITLE: -- DATE: --

20 cy w
LF2 45 &12

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NEBU 3004 Farmington, NM 87401	Envirotech Landfarm Hilltop, NM
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
San Juan 31-6 CDP # 1	
4. Source and Description of Waste	
Soil	

I, Frank McDonald representative for:
(Print Name)
Cimarron Oilfield Service 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 **EXEMPT** waste only, the following documentation is attached (check appropriate items).	For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items).
_____NORM Survey _____TCLP Analysis	_____MSDS Information _____TCLP Analysis _____Chain of Custody _____NORM Survey _____Other (description)

Name (Original Signature): Frank McDonald

Title: Environmental Division Manager

Date: 12/2/98

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811 S. First
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District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
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New Mexico
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Oil Conservation Division
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Environmental Bureau
Oil Conservation Division

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to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Western Tank
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	505 E Cedar Farmington NM

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:

Clean up of spills & leaks at tank main yard
TCLP attached.

RECEIVED
DEC 23 1998
OIL CON. DIV.
DIST. 3

RECEIVED
JAN - 4 1999
OIL CON. DIV.
DIST. 3

This has been hauled due to administrative mix-ups at Envirotech

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) 40 cy

SIGNATURE: Harlan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 122398

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/23/9

APPROVED BY: Montgomery Kelly TITLE: Env Geologist DATE: 12/28/98

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Env. JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Western Tank
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	503 E Cedar Farmington NM

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:

Clean up of spills & leaks at tank Main Yard
TCLP Attached

RECEIVED
DEC 23 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 12/23/98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/23/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Western Tank 503 E. Cedar Farmington NM	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste yard clean up	

I, Barbara H. Griffith representative for:
(Print Name)
Western Tank 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)

___ **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
✓ RCRA Hazardous Waste Analysis
✓ Chain of Custody
___ Other (description):

Name (Original Signature): Barbara H. Griffith

Title: Safety and Environmental Coordinator

Date: 12-23-98

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

December 16, 1998

Mr. John Sonier
Western Tank
503 E. Cedar
Farmington, New Mexico 87401

Project No.: 98105-01

Dear Mr. Sonier,

Enclosed are the analytical results for the sample collected from the location designated as "503 E. Cedar". Two soil samples were collected by Envirotech personnel on 12/01/98, and received by the Envirotech laboratory on 12/02/98 for Hazardous Waste Characterization analysis (Volatiles, Semi-volatiles, Metals, Ignitability, Reactivity and Corrosivity) and for Total Lead analysis.

The samples were documented on Envirotech Chain of Custody No. 6442 and assigned Laboratory Nos. E244 (Yard Cleanup Stockpile) and E245 (Sand Blast Media Paint Shop) for tracking purposes. The samples were analyzed on 12/06/98 - 12/12/98 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

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

98105-01.lb1

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Western Tank	Project #:	98105-01
Sample ID:	Yard Cleanup Stockpile	Date Reported:	12-06-98
Lab ID#:	E244	Date Sampled:	12-01-98
Sample Matrix:	Soil	Date Received:	12-02-98
Preservative:	Cool	Date Analyzed:	12-06-98
Condition:	Cool and Intact	Chain of Custody:	6442

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.60**
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: **503 E. Cedar.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Western Tank	Project #:	98105-01
Sample ID:	Yard Cleanup Stockpile	Date Reported:	12-12-98
Laboratory Number:	E244	Date Sampled:	12-01-98
Chain of Custody:	6442	Date Received:	12-02-98
Sample Matrix:	Soil	Date Extracted:	12-06-98
Preservative:	Cool	Date Analyzed:	12-12-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0098	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.
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: **503 E. Cedar.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Western Tank	Project #:	98105-01
Sample ID:	Yard Cleanup Stockpile	Date Reported:	12-12-98
Laboratory Number:	E244	Date Sampled:	12-01-98
Chain of Custody:	6442	Date Received:	12-02-98
Sample Matrix:	Soil	Date Extracted:	12-06-98
Preservative:	Cool	Date Analyzed:	12-12-98
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: **503 E. Cedar.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Western Tank	Project #:	98105-01
Sample ID:	Yard Cleanup Stockpile	Date Reported:	12-12-98
Laboratory Number:	E244	Date Sampled:	12-01-98
Chain of Custody:	6442	Date Received:	12-02-98
Sample Matrix:	Soil	Date Extracted:	12-06-98
Preservative:	Cool	Date Analyzed:	12-12-98
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	**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: **503 E. Cedar.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Western Tank	Project #:	98105-01
Sample ID:	Yard Clean Up Stockpile	Date Reported:	12-11-98
Laboratory Number:	E244	Date Sampled:	12-01-98
Chain of Custody:	6442	Date Received:	12-02-98
Sample Matrix:	Soil	Date Analyzed:	12-11-98
Preservative:	Cool	Date Extracted:	12-06-98
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	**5.28**	**0.001**	**21**
Cadmium	**0.0197**	**0.0001**	**0.11**
Chromium	**ND**	**0.0001**	**0.60**
Lead	**0.0535**	**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: **503 E. Cedar.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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:	12-12-98
Laboratory Number:	12-12-TCV-BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-12-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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-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: **QA/QC for samples E244, E251 and E275.**

Analyst

Review

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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:	Method Blank	Date Reported:	12-12-98
Laboratory Number:	12-06-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-12-98
Condition:	N/A	Date Extracted:	12-06-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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: **QA/QC for samples E244, E251 and E275.**

Analyst

Review

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ENVIRO-TECH 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 Duplicate	Date Reported:	12-12-98
Laboratory Number:	E244	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-12-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0098	0.0094	0.0001	3.6%
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 E244, E251 and E275.**

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ENVIRO-TECH 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 Spike	Date Reported:	12-12-98
Laboratory Number:	E244	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-12-98
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	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0098	0.050	0.0593	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 E244, E251 and E275.**

Analyst

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ENVIRO TECH 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:	12-12-98
Laboratory Number:	12-12-TCA BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-12-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	2,4,6-tribromophenol	98 %

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 E244, E251 and E275.**

Analyst

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ENVIRO-TECH 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:	12-12-98
Laboratory Number:	12-06-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-06-98
Condition:	Cool & Intact	Date Analyzed:	12-12-98
		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	99%
	2,4,6-Tribromophenol	98%

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 E244, E251 and E275.**

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ENVIROTECH LABS

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:	12-12-98
Laboratory Number:	E244	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-06-98
Condition:	Cool & Intact	Date Analyzed:	12-12-98
		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, 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 E244, E251 and E275.**

Analyst

Review

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ENVIROTECH 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:	12-12-98
Laboratory Number:	12-12-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:	12-12-98
		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, 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: **QA/QC for samples E244, E251 and E275.**

Analyst

Review

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ENVIROTECH 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:	Method Blank	Date Reported:	12-12-98
Laboratory Number:	12-06-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-06-98
Condition:	Cool and Intact	Date Analyzed:	12-12-98
		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	**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: **QA/QC for samples E244, E251 and E275.**

Analyst

Review

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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:	12-12-98
Laboratory Number:	E244	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-12-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for samples E244, E251 and E275.**

Analyst

Review

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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 #:	N/A
Sample ID:	12-11-TCM QA/QC	Date Reported:	12-11-98
Laboratory Number:	E244	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	12-11-98
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	5.28	5.27	0.2%	0% - 30%
Cadmium	ND	ND	0.0001	0.0197	0.0196	0.5%	0% - 30%
Chromium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.0001	0.0536	0.0536	0.0%	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%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.1000	ND	0.0998	99.8%	80% - 120%
Barium	1.000	5.28	6.27	99.8%	80% - 120%
Cadmium	0.0500	0.0197	0.0695	99.7%	80% - 120%
Chromium	0.0500	ND	0.0498	99.6%	80% - 120%
Lead	0.1000	0.0536	0.153	99.9%	80% - 120%
Mercury	0.0250	ND	0.0249	99.6%	80% - 120%
Selenium	0.1000	ND	0.0997	99.7%	80% - 120%
Silver	0.0500	ND	0.0497	99.4%	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 E244, E251 and E275.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

6442

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Western Tronic	503 E Cedar	
Sampler: Harlan M. Brown	Client No. 98105-01	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o H&P	Total Pb					Remarks
Yard Clean up Stockpile	12·1·98	15:40	E244	Soil	1	✓						
Sand Blast Media paint Shop			E245	Soil	1		✓					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harlan M Brown	12·2·98	0900	Glenn L. Spencer	12.2.98	0900
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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 1 Copy
to appropriate
District Office

Env. JN: 96003.40

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 4.24.98 10:10	4. Generator E.P.F.S
	5. Originating Site Turley Comp. Station
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SW NW and NW SW Sec 30 T 30 N R9W SJC NM.

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:

clean up of glycol upset @ Dehydrator.

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DIST. 3

Estimated Volume 12 cy Known Volume (to be entered by the operator at the end of the haul) 17 cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 12.17.98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 12/23/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 12/23/98

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): Turley Compressor Station Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): SW/4 of NW/4 and NW/4 of SW/4, Section 30, T30N, R9W San Juan County, New Mexico
4. Source and Description of Waste Soil and gravel contaminated with glycol carried over from the natural gas dehydrator	

I, David Bays 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
____ RCRA Hazardous Waste Analysis
____ Chain of Custody
____ Other (description)

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: November 24, 1998

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Env. JN: 92101/95026

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator B.J. Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter TBD
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd. Farmington, N.M.

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:
Continuation of wash bay solids disposal
TCLP ATTACHED
Reaffirmation Statement attached

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DIST. 3

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NOV 30 1998
OIL CON. DIV
DIST. 3

Approved verbally office lost in my

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) 52 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/6/98

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 11/24/98

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☑	4. Generator B.J. Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main 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 Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd. Farmington, N.M.

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:
Contamination of wash bay solids disposal
TCLP ATTACHED
Reaffirmation Statement attached

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DIST. 3

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Landfarm Manager DATE: 11-6-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: _____ TITLE: Geologist DATE: 11/6/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BJ Services 3250 Southside River Rd Farmington, NM	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): SAA **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Wash Bay evaporation facility
4. Source and Description of Waste Continuation of wash bay solids disposal	

I, Les Baugh representative for:
(Print Name)
BJ Services 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)

___ **EXEMPT** oilfield waste

xx **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
xx RCRA Hazardous Waste Analysis
xx Chain of Custody
___ Other (description):

Name (Original Signature): Les Baugh

Title: Facilities Supervisor

Date: 11/5/98

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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 1-13-98

Printed Name Les Baugh

Title / Agency Facilities Supervisor

Address 3250 Southside River Road

Farmington, NM

Signature Les Baugh

Date 11/5/98

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 22, 1998

Mr. Les Bough
B. J. Services, Inc.
3250 Southside River Road
Farmington, New Mexico 87401

Project No.: 95026

Dear Mr. Baugh,

Enclosed are the analytical results for the sample collected from the location designated as "Wash Bay Solids". One sludge sample was collected by Envirotech personnel and delivered to the Envirotech Laboratory on 01/13/98 for Hazardous Waste Characterization (TCLP Volatiles, Semi-volatiles, Trace Metals, Reactivity, Corrosivity and Ignitability) analysis.

The sample was documented on Envirotech Chain of Custody No. 5786 and assigned Laboratory No. C800 for tracking purposes. The sample was extracted on 01/14/98 and analyzed on 01/14/98 - 01/16/98 using USEPA or equivalent methods.

Results of the analysis indicate that the material contained in the sample from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

95026lb2.wpd

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Lab ID#:	C800	Date Sampled:	01-13-98
Sample Matrix:	Sludge	Date Received:	01-13-98
Preservative:	Cool	Date Analyzed:	01-14-98
Condition:	Cool & Intact	Chain of Custody:	5786

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**10.5**
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: **Wash Bay.**

Analyst

Review

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6 00

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust verbal. 10-28-98 15:10	4. Generator Phillips Petroleum Co.
	5. Originating Site S.J. 31-6 #232
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Cimmaron
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	San Juan 31-6 #232

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:

New glycol / Condensate stained Soil
Material was spilled from separator related to Production.

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DIST. 3

Estimated Volume 5 cy Known Volume (to be entered by the operator at the end of the haul) 8 cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 11-2-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/6/98

APPROVED BY: Ernie Busch TITLE: " DATE:

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CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NBU 3004 Farmington, N.M. 87401	Envirotech Landfarm Hilltop, N.M. 632-0615 (Harlan Brown)

3. Originating Site (Name):
San Juan 31-6 # 232
4. Source and Description of Waste:
New Glycol/Condensate Stained Soil

I, Bob Wirtanen representative for:
(Print Name)

Phillips Petroleum Company do hereby certify that, according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1998, 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 non-hazardous waste defined above.

For **EXEMPT** waste only, the following documentation is attached (check appropriate items)	For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items)
X NORM Survey	_____ MSDS Information _____ TCLP Analysis _____ Chain of Custody _____ NORM Survey _____ Other (description)

Name (Original Signature): RA Wt

Title: Sr. Safety and Environmental Specialist

Date: 11-2-98

INSPECTION FOR N.O.R.M. CONTAMINATION
PHILLIPS PETROLEUM COMPANY

Location: Phillips yard via 31-6 #232 Date: 10/30/98

Survey Instrument Model: Model 3 Last Calibrated: 5-5-98

Item Description: Soil From 31-6 #232 New gl/yard w/condensate

Number of Pieces: 5.8 cu yds

Location Where Items Originated: 31-6 #232

Background Reading: 10 uR/hr

Highest NORM reading: 0 uR/hr (not corrected for background)

Lowest NORM reading: 0 uR/hr (Not corrected for background)

Any samples taken, if so how many: n/a

All Soil Pieces inspected 5.8 cu.yds

All Pieces found to be free of NORM contamination

0 Pieces found to have NORM contamination

Remarks:

Inspector: RA Wato

What is final disposition: Ready for envirotech landfarm

Released to: Envirotech via Sunco Trucking Date: 10/30/98

cc: Field Office -Final
~~J. E. Stark~~

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OIL CONS. DIV.
DIST. 3

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Natural Gas Company
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Blanco P.T.
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 NM
7. Location of Material (Street Address or ULSTR)	Lat. 36° 43' 43" Long 107° 57' 21"

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:

Tank - Bottems from an lean-oil process

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DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 656 BBLS lean oil Tank BTMS cy

SIGNATURE: Harlan M. Brown [illegible] Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 10.13.98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 10/14/98

APPROVED BY: Martyn J. Kilpatrick TITLE: Env Geologist DATE: 10/23/98

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Env. JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator El Paso Natural Gas Company
	5. Originating Site Blanco P.T
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 NM
7. Location of Material (Street Address or ULSTR)	Lat. 36° 43' 43" Long 107° 57' 21"

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:

Tank - Bottems from an lean-oil process

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DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown [illegible] TITLE: Landfarm Manager DATE: 10-13-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 10/14/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Natural Gas Co. Blanco Plant P.O. Box 1492 El Paso, TX 79978	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Blanco Plant, Bloomfield, NM El Paso Natural Gas Co. Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Bottoms from a lean-oil processing system at Blanco Plant. The system was retired in the early 1980's.	

I, Richard Duarte (Print Name) representative for: El Paso Natural Gas 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)

___ **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
- ✓ RCRA Hazardous Waste Analysis
- ✓ Chain of Custody
- ___ Other (description):

Name (Original Signature): Richard Duarte

Title: Sr. Compliance Engr.

Date: Oct. 13, 1998

SAMPLE KEY

SAMPLE NUMBER: F98-0096 LOCATION: BLANCO PLANT
MATRIX: OIL
SAMPLE DESCRIPTION: BOTTOMS TANK
S D CONTINUED: RESAMPLE FOR TCLP METALS, 8260,8270
S D CONTINUED:
SAMPLE TIME: 09:30 SAMPLE DATE: 09/23/97

NEL LABORATORIES
Reno • Las Vegas
Phoenix • Burbank

Reno Division
1030 Matley Lane • Reno, Nevada 89502
(702) 348-2522 • Fax: (702) 348-2545
1-800-303-5221

CLIENT: El Paso Natural Gas Co.
8645 Railroad Dr.
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME: Blanco Plant NEL ORDER ID: P98090S0
PROJECT #: NA

Attached are the analytical results for samples in support of the above referenced project.

Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 9/24/98.

Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.

TCLP 8260 analysis was performed by NEL-Las Vegas.

Some results have been flagged as follows:
Jm - Result should be considered an estimated value due to probable matrix effects.
Some QA results have been flagged as follows:
Jm - Result should be considered an estimated value due to probable matrix effects.

Eileen M Ferguson
Eileen M. Ferguson
Laboratory Manager

9/29/98
Date

CERTIFICATIONS:

	Reno	Las Vegas	S. California
Arizona	AZ0520	AZ0518	AZ0583
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	Certified

	Reno	Las Vegas	S. California
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
Washington			Certified

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Blanco Plant
PROJECT #: NA

CLIENT ID: P980095
DATE SAMPLED: 9/23/98
NEL SAMPLE ID: P9809080-01

TEST: TCLP-8 Metals
MATRIX: Organic Liquid

PARAMETER	RESULT mg/L	REPORTING LIMIT	D.F.	METHOD	TCLP/STLC EXTRACTION DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Barium	ND	1. mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Cadmium	ND	0.01 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Chromium	ND	0.01 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Lead	ND	0.05 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Mercury	ND	0.002 mg/L	10	EPA 7470A	9/24/98	9/25/98	9/25/98
Selenium	ND	0.1 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Silver	ND	0.02 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Blanco Plant
PROJECT #: NA

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: R09082HG-BLK

TEST: TCLP Metals
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D.F.	TCLP/STLC EXTRACTION METHOD	EXTRACTION DATE	DIGESTED	ANALYZED
Mercury	ND	0.002mg/L	10	EPA 7470A	9/24/98	9/25/98	9/25/98

D.F. - Dilution Factor

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID: Blanco Plant
PROJECT #: NA

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: R090821-BLK

TEST: TCLP Metals
MATRIX: TCLP Extract

PARAMETER	RESULT	REPORTING LIMIT	D.F.	TCLP/STLC EXTRACTION METHOD	DATE	DIGESTED	ANALYZED
Arsenic	ND	0.1 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Barium	ND	1 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Cadmium	ND	0.01 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Chromium	ND	0.01 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Lead	ND	0.05 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Selenium	ND	0.1 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98
Silver	ND	0.02 mg/L	1	EPA 6010A	9/24/98	9/25/98	9/25/98

D.F. - Dilution Factor
ND - Not Detected
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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	F980096
PROJECT ID:	Blanco Plant	DATE SAMPLED:	9/23/98
PROJECT #:	NA	NEL SAMPLE ID:	P9809080-01

TEST:	TCLP by EPA 1311, July 1992 & Volatile Organics by EPA 8260A, Sept. 1994		
METHOD:	EPA 8260A	TCLP EXTRACT DATE:	9/27/98
MATRIX:	Organic Liquid	EXTRACTED:	9/28/98
DILUTION:	1	ANALYZED:	9/28/98

PARAMETER	Result mg/L		Reporting Limit
Benzene	ND	Jm	0.1 mg/L
Carbon tetrachloride	ND		0.1 mg/L
Chlorobenzene	ND	Jm	0.1 mg/L
Chloroform	ND		0.1 mg/L
1,4-Dichlorobenzene (p-DCB)	ND		0.1 mg/L
1,2-Dichloroethane (1,2-DCA)	ND		0.1 mg/L
1,1-Dichloroethene (1,1-DCE)	ND	Jm	0.1 mg/L
Methyl Ethyl Ketone	ND		2 mg/L
Tetrachloroethene (PCE)	ND		0.1 mg/L
Trichloroethene	ND	Jm	0.1 mg/L
Vinyl chloride	ND		0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
4-Bromofluorobenzene	102	74 - 121
Dibromofluoromethane	100	80 - 120
Toluene-d8	99	81 - 117

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	F980096
PROJECT ID:	Blanco Plant	DATE SAMPLED:	9/23/98
PROJECT #:	NA	NEL SAMPLE ID:	P9809080-01

TEST:	TCLP by EPA 1311, September 1992 & Semivolatile Organics by EPA Method 8270C, December 1996		
METHOD:	EPA 8270	TCLP EXTRACT DATE:	9/24/98
MATRIX:	Organic Liquid	EXTRACTED:	9/25/98
DILUTION:	1	ANALYZED:	9/28/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
3-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	61	10 - 123
2-Fluorobiphenyl	58	43 - 116
2-Fluorophenol	49	21 - 100
Nitrobenzene-d5	70	35 - 114
p-Terphenyl-d14	69	33 - 141
Phenol-d5	26	10 - 94

ND - Not Detected

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NEL LABORATORIES

CLIENT:	El Paso Natural Gas Co.	CLIENT ID:	Method Blank
PROJECT ID:	Blanco Plant	DATE SAMPLED:	NA
PROJECT #:	NA	NEL SAMPLE ID:	092598-E1-TCLP-BLK

TEST:	TCLP by EPA 1311, September 1992 & Semivolatile Organics by EPA Method 8270C, December 1996		
METHOD:	EPA 8270	TCLP EXTRACT DATE:	9/24/98
MATRIX:	TCLP Extract	EXTRACTED:	9/25/98
		ANALYZED:	9/28/98

PARAMETER	Result mg/L	Reporting Limit
1,4-Dichlorobenzene (p-DCB)	ND	0.1 mg/L
2,4-Dinitrotoluene (DNT)	ND	0.1 mg/L
Hexachlorobenzene	ND	0.1 mg/L
Hexachlorobutadiene	ND	0.1 mg/L
Hexachloroethane	ND	0.1 mg/L
2-Methylphenol	ND	0.1 mg/L
3,4-Methylphenol (isomeric pair)	ND	0.1 mg/L
Nitrobenzene	ND	0.1 mg/L
Pentachlorophenol	ND	0.1 mg/L
Pyridine	ND	0.1 mg/L
2,4,5-Trichlorophenol	ND	0.1 mg/L
2,4,6-Trichlorophenol	ND	0.1 mg/L

QUALITY CONTROL DATA:

Surrogate	% Recovery	Acceptable Range
2,4,6-Tribromophenol	54	10 - 123
2-Fluorobiphenyl	44	43 - 116
2-Fluorophenol	30	21 - 100
Nitrobenzene-d5	48	35 - 114
p-Terphenyl-d14	72	33 - 141
Phenol-d5	18	10 - 94

ND - Not Detected

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last page

District I - (505) 393-6161
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Hobbs, NM 88241-1980
District II - (505) 748-1283
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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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
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Form C-138
Originated 8/8/95

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ (Denny Foust 9-8-98 9:20 A.M.)	4. Generator EPFS.
	5. Originating Site LAT 10E-1
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter ENVIROTECH. INC
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State NEW MEXICO.
7. Location of Material (Street Address or ULSTR)	SW 32 T27N R12W, SJC. NM.

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:

Pipeline liquids released during return to service following pigging operation

BOL #
9.8.98 11105 LF #2 units L-6 24 cy³

RECEIVED
OCT 22 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 24 cy Known Volume (to be entered by the operator at the end of the haul) 24 cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 9.8.98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G Foust TITLE: Geologist DATE: 10/23/98

APPROVED BY: Jamie Bruce TITLE: " DATE: "

fax # 632-1865

Verbal approval Randy Foust
9-8-98
920 k.m.

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services ~~PO Box~~ 614 Reilly Avenue Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Lateral 10E-1 (12" pipeline) SW 32-T. 27N-R. 12W Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste Pipeline liquids released onto ground during	

I, Sandra D. Miller (Print Name) representative for:

El Paso Field Services 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):

___ MSDS Information
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Sandra D Miller

Title: Environmental Manager

Date: 9/4/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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1000 Rio Brazos Road
Aztec, 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

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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OCT 13 1998
OIL CON. DIV.
DIST. 3

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Universal Compression
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Southern Ute 33-4 #351
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State Colorado, Southern Ute to New Mexico
7. Location of Material (Street Address or ULSTR)	Southern Ute 33-11 #351

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:

Soil generated during cleanup of Compressor Pad location.

TCLP for similar liquids attached

Southern Ute COGS Attached

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OCT 6 1998
OIL CON. DIV.
DIST. 3

Estimated Volume ± 100 cy Known Volume (to be entered by the operator at the end of the haul) 90 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 10-5-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 10/6/98

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 10-8-98

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P. O. Box 1980
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District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Universal Compression.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Southern Ute 33-11 #351
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 Colorado, Southern Ute to New Mexico
7. Location of Material (Street Address or ULSTR)	Southern Ute 33-11 #351

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:

Soil generated during cleanup of Compression Pad location.

TCLP for similar liquids attached

Southern Ute CWS Attached

RECEIVED
OCT 6 1998
OIL CON. DIV.
DIST. 3

Estimated Volume ±100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown Waste Management Facility Authorized Agent TITLE: Landfarm Manager DATE: 10-5-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 10/6/98

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Universal Compression.	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
Southern Ute 33-11 #351 Compressor PAD. **Attach list of originating sites as appropriate**	T 33W R11W La Plata County Colorado Southern Ute
4. Source and Description of Waste	
Soil generated during cleanup of site when Compressor was replaced. Contamination resulted from spills & leaks on old Compressor	

I, Gregg A. Self (Print Name) representative for:

Universal Compression 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)

___ **EXEMPT** oilfield waste

X **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

X RCRA Hazardous Waste Analysis

X Chain of Custody

___ Other (description):

Name (Original Signature): Gregg A Self

Title: Sales & Service Coordinator

Date: 10-6-98

SOUTHERN UTE INDIAN TRIBE

Tribal Affairs Building

September 29, 1998

Harlan Brown
Envirotech, Inc.
5796 U.S. Highway 64
Farmington, NM 87401

Via fax: (505) 632-1865

Dear Mr. Brown:

The Environmental Programs Division has reviewed your request to transport non-exempt, non-hazardous soil contaminated with used oil and other fluids from compressor operations from Colorado to New Mexico for disposal at Envirotech's Landfarm #2. This soil was generated by Universal Compression at the Southern Ute 33-11 #351. Upon site inspection, we agree that a representative soil analysis shows that the soil is probably not hazardous, however the Southern Ute Indian Tribe does not accept liability if the soil differs from the representative analysis. Enclosed are the signed certificates necessary for transportation of the waste.

We request that you send us a copy of any NM permits you receive.

Sincerely,

Cheryl L. Wiescamp

Cheryl L. Wiescamp
Acting Director
Environmental Programs Division

CERTIFICATE FROM OUT-OF-STATE AGENCY AUTHORIZING REMOVAL OF RCRA NON-EXEMPT, NON-HAZARDOUS OIL FIELD WASTE FROM THEIR JURISDICTION TO NEW MEXICO

I have reviewed the information submitted by Envirotech on September 14, 1998, concerning the non-exempt, non-hazardous oil field waste material from Ute 33-11 No. 351. A representative soil sample shows that the soil is not hazardous, however the Southern Ute Indian Tribe accepts no liability if the soil differs from this analysis

THEREFORE:
As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed to New Mexico for disposal in Envirotech's Landfarm #2.

NAME: Cheryl L. Wiescamp TITLE: Acting Director of Environmental Programs

SIGNATURE: Cheryl L. Wiescamp DATE: 9/29/98

AGENCY: Southern Ute Indian Tribe

ADDRESS: P.O. Box 737, Ignacio, CO 81137

PHONE: (970) 563-0135

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-07-98
Lab ID#:	D548	Date Sampled:	06-26-98
Sample Matrix:	Soil	Date Received:	06-26-98
Preservative:	Cool	Date Analyzed:	06-30-98
Condition:	Cool & Intact	Chain of Custody:	6147

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 7.49**
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: **PHC Soils - Field Locations.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS TO ENVIRONMENTAL PROBLEMS

METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	06-26-98
Chain of Custody:	6147	Date Received:	06-26-98
Sample Matrix:	Soil	Date Extracted:	06-30-98
Preservative:	Cool	Date Analyzed:	07-06-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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 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: **PHC Soils - Field Locations.**

Analyst

Review

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ENVIRO-TECH LABS

EPA METHOD 8040
PHENOLS

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	06-26-98
Chain of Custody:	6147	Date Received:	06-26-98
Sample Matrix:	Soil	Date Extracted:	06-30-98
Preservative:	Cool	Date Analyzed:	07-07-98
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	99%
	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. 19

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

Comments: **PHC Soils - Field Locations.**

Analyst

Review

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ENVIROTECH LABS

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

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	06-26-98
Chain of Custody:	6147	Date Received:	06-26-98
Sample Matrix:	Soil	Date Extracted:	06-30-98
Preservative:	Cool	Date Analyzed:	07-07-98
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 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: **PHC Soils - Field Locations.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	01-13-98
Chain of Custody:	5786	Date Received:	01-13-98
Sample Matrix:	Sludge	Date Extracted:	01-14-98
Preservative:	Cool	Date Analyzed:	01-15-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	97%
	Bromofluorobenzene	100%

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: **Wash Bay.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	01-13-98
Chain of Custody:	5786	Date Received:	01-13-98
Sample Matrix:	Sludge	Date Extracted:	01-14-98
Preservative:	Cool	Date Analyzed:	01-16-98
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	101%
	2,4,6-Tribromophenol	97%

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. 19

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

Comments: **Wash Bay Solids.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	01-13-98
Chain of Custody:	5786	Date Received:	01-13-98
Sample Matrix:	Soil	Date Extracted:	01-14-98
Preservative:	Cool	Date Analyzed:	01-15-98
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, 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: **Wash Bay.**

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	B J Services	Project #:	95026
Sample ID:	Wash Bay Solids	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	01-13-98
Chain of Custody:	5786	Date Received:	01-13-98
Sample Matrix:	Sludge	Date Analyzed:	01-16-98
Preservative:	Cool	Date Extracted:	01-14-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.012**	**0.0001**	**5.00**
Barium	**4.90**	**0.001**	**100**
Cadmium	**0.024**	**0.0001**	**1.00**
Chromium	**ND**	**0.0001**	**5.00**
Lead	**0.021**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

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

Comments: **Wash Bay.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIRO-TECH 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:	01-19-98
Laboratory Number:	01-15-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-15-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	95%
	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, Sept. 1994.

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

Comments: **QA/QC for sample C800.**

Analyst

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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:	Method Blank	Date Reported:	01-19-98
Laboratory Number:	01-14-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-15-98
Condition:	N/A	Date Extracted:	01-14-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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	96%
	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, Sept. 1994.

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

Comments: **QA/QC for sample C800.**

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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 Duplicate	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-15-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 sample C800.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EP. ETHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-15-98
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	0.0490	0.0001	98%	28-163
1,1-Dichloroethene	ND	0.050	0.0490	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0494	0.0001	99%	47-132
Chloroform	ND	0.050	0.0506	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0499	0.0001	100%	43-143
Benzene	ND	0.050	0.0507	0.0001	101%	39-150
1,2-Dichloroethane	ND	0.050	0.0492	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0491	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0493	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0488	0.0002	98%	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 C800.**

Analyst

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ENVIROTECH 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:	01-19-98
Laboratory Number:	01-16-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-16-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	2,4,6-tribromophenol	98 %

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. 19

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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ENVIROTECH 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:	01-19-98
Laboratory Number:	01-14-TCA.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-14-98
Condition:	Cool & Intact	Date Analyzed:	01-16-98
		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	99%
	2,4,6-Tribromophenol	98%

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. 19

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

Comments: **QA/QC for sample C800.**

Analyst

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ENVIROTECH LABS

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:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-16-98
		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, 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 C800.**

Analyst

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ENVIROTECH 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:	01-19-98
Laboratory Number:	01-15-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:	01-15-98
		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: **QA/QC for sample C800.**

Analyst

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ENVIRO-TECH 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:	Method Blank	Date Reported:	01-19-98
Laboratory Number:	01-14-TBN.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-14-98
Condition:	Cool and Intact	Date Analyzed:	01-15-98
		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: **QA/QC for sample C800.**

Analyst

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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:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-15-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for sample C800.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-19-98
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-16-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.0001**
Barium	**ND**	**ND**	**0.001**
Cadmium	**ND**	**ND**	**0.0001**
Chromium	**ND**	**ND**	**0.0001**
Lead	**ND**	**ND**	**0.0001**
Mercury	**ND**	**ND**	**0.0001**
Selenium	**ND**	**ND**	**0.0001**
Silver	**ND**	**ND**	**0.0001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for sample C800.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-16-98
Condition:	N/A	Date Extracted:	01-14-98

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.012**	**0.012**	**0.0%**
Barium	**4.90**	**4.90**	**0.0%**
Cadmium	**0.024**	**0.024**	**0.0%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.021**	**0.021**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for sample C800.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-19-98
Laboratory Number:	C800	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-16-98
Condition:	N/A	Date Extracted:	01-14-98

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.012**	**0.112**	**100%**
Barium	**1.00**	**4.90**	**5.88**	**100%**
Cadmium	**0.050**	**0.024**	**0.074**	**100%**
Chromium	**0.050**	**ND**	**0.050**	**100%**
Lead	**0.100**	**0.021**	**0.121**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.100**	**100%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

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

Comments: **QA/QC for sample C800.**

Analyst

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5786

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
BJ Services	Wash Bay	
Sampler: (Signature)	Chain of Custody Tape No.	
[signature]	95026	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP						Remarks
Wash Bay Solids	1-13-98	15:24	C800	Sludge	2	✓						
					Sample received cool & intact							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1-13-98	15:40	[signature]	1-13-98	1540
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615

District I - (505) 393-6161
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Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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

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District Office

Env. JN: 98056-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Denny Foust Verbal Approval Received: Yes ☒ No ☐	4. Generator JN Exploration Colt Resources
	5. Originating Site Vinson #1
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter 3 Rivers Transport.
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NENE Sec 19, T 30 N R 15 W San Juan County, NM

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:

Drilling Mud recovered from well bore

RECEIVED
NOV 12 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 40 bbls cy Known Volume (to be entered by the operator at the end of the haul) 35 bbls cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 11-11-98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 11/12/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 11-12-98

RECEIVED NOV 07 1998

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
JN EXPLORATION & PRODUCTION LP / COLT RESOURCES CORPORATION PO BOX 7167, BILLINGS, MT 59103	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): VIERSON #1 NE/NE Sec. 19, T30N-R13W San Juan County, New Mexico **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste Wellbore - 35 bbls of drilling mud.	

I, DUANE ZIMMERMAN (Print Name) representative for:

JN EXPLORATION & PRODUCTION LP / COLT RESOURCES CORPORATION 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)

XX **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
___ RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Duane Zimmerman

Title: OPERATIONS ENGINEER

Date: 10/29/98

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
[illegible], 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

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Danny Foust verbal 10-28-98 1511 0	4. Generator Phillips Petroleum
	5. Originating Site SJ 29-6 #217
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter Commercial
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SJ 29-6 #217

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:

New Glycol Stained Soil
Production related.

RECEIVED
NOV - 9 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 5 cy Known Volume (to be entered by the operator at the end of the haul) 4 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 11-6-98
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 11/6/98

APPROVED BY: Ernie Busch TITLE: [illegible] DATE: [illegible]

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NBU 3004 Farmington, N.M. 87401	Envirotech Landfarm Hilltop, N.M.

3. Originating Site (Name):
San Juan 29-6 # 217
4. Source and Description of Waste:
New Glycol Stained Soil

I, Bob Wirtanen representative for:
(Print Name)

Phillips Petroleum Company do hereby certify that, according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1998, 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 non-hazardous waste defined above.

For **EXEMPT** waste only, the following documentation is attached (check appropriate items)	For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items)
_____NORM Survey	_____MSDS Information _____TCLP Analysis _____Chain of Custody _____NORM Survey _____Other (description)

Name (Original Signature): _____

Title: Sr. Safety and Environmental Specialist

Date: 11·2·98

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1000 Rio Brazos Road
Aztec, 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

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Originated 8/8/95

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District Office

Env. JN: 96052

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 10-28-98 15:10	4. Generator Phillips Petroleum
2. Management Facility Destination: Envirotech Soil Remedia. Facility Landfarm #2	5. Originating Site SJ 29-6 #16A
3. Address of Facility Operator: 5796 US Highway 64 Farmington, NM 87401	6. Transporter Cimmaron
7. Location of Material (Street Address or ULSTR)	8. State New Mexico
	San Juan 29-6 #16A

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:

Condensate contaminated Soil

RECEIVED
NOV - 9 1998
OIL CON. DIV.
DIST. 3

Never Hauled

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 11-6-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/6/98

APPROVED BY: Ernie Busch TITLE: " DATE: "

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 HWY 64 NBU 3004 Farmington, N.M. 87401	Envirotech Landfarm Hilltop, N.M.

3. Originating Site (Name):
San Juan 29-6 # 16 A
4. Source and Description of Waste:
Hydrocarbon Stained Soil

I, Bob Wirtanen representative for:
(Print Name)

Phillips Petroleum Company do hereby certify that, according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1998, 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 non-hazardous waste defined above.

For **EXEMPT** waste only, the following documentation is attached (check appropriate items)	For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items)
_____NORM Survey	_____MSDS Information _____TCLP Analysis _____Chain of Custody _____NORM Survey _____Other (description)

Name (Original Signature): R A Watson

Title: Sr. Safety and Environmental Specialist

Date: 11-2-98

650

ENVIROTECH LABS

REAL REAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Universal Compression	Project #:	98059-01
Sample ID:	Drum Composite	Date Reported:	07-07-98
Laboratory Number:	D548	Date Sampled:	06-26-98
Chain of Custody:	6147	Date Received:	06-26-98
Sample Matrix:	Soil	Date Analyzed:	07-06-98
Preservative:	Cool	Date Extracted:	06-30-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.0001**	**5.00**
Barium	**2.23**	**0.001**	**100**
Cadmium	**0.0581**	**0.0001**	**1.00**
Chromium	**0.0101**	**0.0001**	**5.00**
Lead	**0.0286**	**0.0001**	**5.00**
Mercury	**ND**	**0.0001**	**0.200**
Selenium	**ND**	**0.0001**	**1.00**
Silver	**ND**	**0.0001**	**5.0**

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, July 1, 1992.

Comments: **PHC Soils - Field Locations.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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ENVIRO-TECH 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:	07-08-98
Laboratory Number:	07-06-TCVOL BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-06-98
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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-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: **QA/QC for sample D548.**

Analyst

Review Stacy W Sendler

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER ENVIRONMENT

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-08-98
Laboratory Number:	06-30-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-06-98
Condition:	N/A	Date Extracted:	06-30-98
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (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: **QA/QC for sample D548.**

Analyst

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ENVIROTECH LABS

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-06-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent 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 sample D548.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-06-98
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	0.0490	0.0001	98%	28-163
1,1-Dichloroethene	ND	0.050	0.0489	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0480	0.0001	96%	47-132
Chloroform	ND	0.050	0.0493	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0486	0.0001	97%	43-143
Benzene	ND	0.050	0.0483	0.0001	97%	39-150
1,2-Dichloroethane	ND	0.050	0.0484	0.0001	97%	51-147
Trichloroethene	ND	0.050	0.0499	0.0003	100%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0489	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0485	0.0002	97%	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 D548.**

Analyst

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ENVIROTECH LABS

EPA ETHOD 8040
PHENOLS
Quality Assurance Report
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-08-98
Laboratory Number:	07-07-TCA-BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-07-98
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results 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	99 %
	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. 19

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

Comments: **QA/QC for sample D548.**

Analyst

Review

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ENVIROTECH LABS

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-08-98
Laboratory Number:	06-30-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-30-98
Condition:	Cool & Intact	Date Analyzed:	07-07-98
		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	99%
	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. 19

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

Comments: **QA/QC for sample D548.**

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ENVIROTECH LABS

EPA METHOD 8040
PHENOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-08-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	07-07-98
		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, 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. 198

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

Comments: **QA/QC for sample D548.**

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ENVIROTECH LABS

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:	07-08-98
Laboratory Number:	07-07-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:	07-07-98
		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	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: **QA/QC for sample D548.**

Analyst

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ENVIROTECH LABS

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:	07-08-98
Laboratory Number:	06-30-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	06-30-98
Condition:	Cool and Intact	Date Analyzed:	07-07-98
		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 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: **QA/QC for sample D548.**

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ENVIRO-TECH 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:	07-08-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-07-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (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, 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: **QA/QC for sample D548.**

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ENVIROTECH LABS

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

Client:	QA/QC	Project #:	N/A
Sample ID:	07-06-TCM QA/QC	Date Reported:	07-07-98
Laboratory Number:	D548	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-07-98
Condition:	N/A	Date Extracted:	06-30-98

Blank & Duplicate Conc. (mg/L)	Detection Limit	Sample Result	Duplicate Result	Difference	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	2.23	2.22	0.4%	0% - 30%
Cadmium	ND	ND	0.0001	0.0581	0.0577	0.7%	0% - 30%
Chromium	ND	ND	0.0001	0.0101	0.0100	0.0%	0% - 30%
Lead	ND	ND	0.0001	0.0286	0.0284	0.7%	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%

Spike Conc. (mg/L)	Sample Result	Spike Result	% Recovery	Acceptance Range
Arsenic	0.1000	ND	0.0997	100%	80% - 120%
Barium	1.000	2.23	3.22	100%	80% - 120%
Cadmium	0.0500	0.0581	0.1075	99%	80% - 120%
Chromium	0.0500	0.0101	0.0599	100%	80% - 120%
Lead	0.1000	0.0286	0.1284	100%	80% - 120%
Mercury	0.0250	ND	0.0248	99%	80% - 120%
Selenium	0.1000	ND	0.0996	100%	80% - 120%
Silver	0.0500	ND	0.0499	100%	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 sample D548.**

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CHAIN OF CUSTODY RECORD

6147

664

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Universal Compression	PHC Soils - Field Locations.	
Sampler: Harland M. Brown	Client No. 98059-01	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o H&P							Remarks
Drum Composite	6-26-98	11:25	D548	Soil	1	✓							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harland M. Brown	6-26-98	22:40	[signature]	6-26-98	22:40
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		