

NM1

-

6

C-138

YEAR(S):

2000-1999

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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-12
Originated 8/8/

RECEIVED

JAN 11 2000

Environmental Bureau
Oil Conservation Division

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WEATHERFORD GLOBAL
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site MARATHON OIL STATE COM #7
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter SMITH & SONS
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 5200 I-20 WEST MIDLAND, TX 79703	
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:

COMPRESSOR OIL SPILL. I AM ENCLOSING A CERTIFICATE OF WASTE STATUS, ANALYTICAL AND CHAIN OF CUSTODY.

12-009

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 12-29-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 01-06-2000

APPROVED BY: Martina Z. Kubi TITLE: Environmental Geologist DATE: 01-11-00



**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Weatherford Global

ADDRESS 5200 I-20 West, Midland, TX 79703

GENERATING SITE Marathon Compressor, State Com 7 #1

COUNTY _____ STATE _____

TYPE OF WASTE Compressor oil

ESTIMATED VOLUME 20 yards

GENERATING PROCESS Compressor Oil Spill

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Smith and Sons

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Mario Padilla
SIGNATURE

NAME Mario Padilla
PRINTED

ADDRESS 5200 I-20 West
Midland, TX 79703

DATE 12-15-99

Tec unk
20
bill address



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 12/15/99

Reporting Date: 12/23/99

Project Number: 400111

Project Name: MARATHON COMPRESSOR

Project Location: STATE COM. "7" #1 MARATHON

Sampling Date: 12/15/99

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: GP/AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	12/23/99	12/22/99	12/22/99	12/22/99	12/22/99	12/22/99	12/22/99	12/22/99	12/23/99
EPA LIMITS:	5	5	100	1	5	5	0.2	1	
H4513-1 COMPRESSOR STATION	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1	
Quality Control	0.193	4.759	51.10	1.002	5.056	5.045	0.00355	0.053	
True Value QC	0.200	5.000	50.00	1.000	5.000	5.000	0.00400	0.050	
% Recovery	97	95	102	100	101	101	89	106	
Relative Standard Deviation	4.3	0.2	1.7	0.2	0.8	0.6	1.3	0.2	

METHODS: EPA 1311, 600/4-91/	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2	
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Amy Hill
Chemist

12/23/99
Date

H4513M.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR
CONTROLLED RECOVERY, INC.**

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 12/15/99

Reporting Date: 12/23/99

Project Number: 400111

Project Name: MARATHON COMPRESSOR

Project Location: STATE COM. "7" #1 MARATHON

Sampling Date: 12/15/99

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: AH/BC

REACTIVITY

LAB NUMBER SAMPLE ID

**Sulfide
(ppm)**

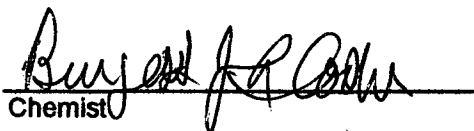
**Cyanide
(ppm)**

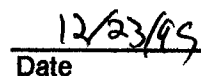
**CORROSIVITY
(pH)**

**IGNITABILITY
(°F)**

ANALYSIS DATE:	12/22/99	12/23/99	12/15/99	12/15/99
H4513-1 COMPRESSOR STATION	Not reactive	Not reactive	6.53	Nonflammable
Quality Control	NR	NR	7.02	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	100	NR
Relative Percent Difference	NR	NR	0.1	NR

METHOD: EPA SW 846-7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261


Chemist


Date



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 12/15/99

Reporting Date: 12/17/99

Project Number: 400111

Project Name: MARATHON COMPRESSOR

Project Location: STATE COM. "7" #1 MARATHON

Lab Number: H4513-1

Sample ID: COMPRESSOR STATION

Analysis Date: 12/16/99

Sampling Date: 12/15/99

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

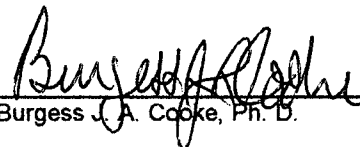
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4513-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.006	12	0.050
1,4-Dichlorobenzene	7.50	0.052	0.005	0.036	72	0.050
o-Cresol	200	<0.020	<0.005	0.017	34	0.050
m, p-Cresol	200	<0.020	<0.005	0.017	34	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.027	54	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.034	68	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.034	68	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.032	64	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.036	72	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.045	90	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.044	88	0.050
Pentachlorophenol	100	<0.020	<0.005	0.040	80	0.050

% RECOVERY

Fluorophenol	42
Phenol-d5	39
Nitrobenzene-d5	88
2-Fluorobiphenyl	92
2,4,6-Tribromophenol	88
Terphenyl-d14	110

METHODS: EPA SW 846-8270, 1311, 3510


Burgess J. A. Cooke, Ph. D.

12/17/99
Date



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH
P.O. BOX 388
HOBBS, NM 88241
FAX TO: (505) 393-3615

Receiving Date: 12/15/99
Reporting Date: 12/17/99
Project Number: 400111
Project Name: MARATHON COMPRESSOR
Project Location: STATE COM. "7" #1 MARATHON
Lab Number: H4513-1
Sample ID: COMPRESSOR STATION

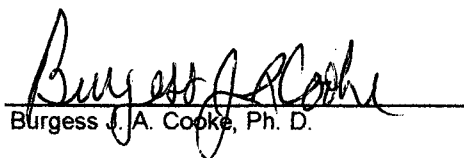
Analysis Date: 12/16/99
Sampling Date: 12/15/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4513-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.097	97	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.101	101	0.100
Methyl Ethyl Ketone	200	0.100	<0.050	0.086	86	0.100
Chloroform	6.0	<0.005	<0.005	0.097	97	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.103	103	0.100
Benzene	0.5	<0.005	<0.005	0.097	97	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.112	112	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.098	98	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.114	114	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene	7.5	0.007	0.009	0.099	99	0.100

% RECOVERY

Dibromofluoromethane	93
Toluene-d8	95
Bromofluorobenzene	98

METHODS: EPA SW 846-8260, 1311


Burgess J. A. Cooke, Ph. D.

12/17/99
Date



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Worshamford Global</u>		BILL TO		PO #:		ANALYSIS REQUEST																																	
Project Manager: <u>Mario Padilla</u>		Company: <u>CR</u>																																					
Address: <u>5200 I 20 way</u>		Attn: <u>Ken</u>																																					
City: <u>Melrose</u> State: <u>TX</u> Zip: <u>75103</u>		Address: <u>Box 85</u>																																					
Phone #:		City: <u>Hobbs</u>																																					
Fax #:		State: <u>NM</u> Zip: <u>86204</u>																																					
Project #: <u>40011</u>		Project Owner: <u>Worshamford</u>																																					
Project Name: <u>Miner's Compressor</u>		Phone #: <u>505-393-1079</u>																																					
Project Location: <u>State Can '7' #1 miner</u>		Fax #: <u>505-393-3615</u>																																					
FOR LAB USE ONLY		MATRIX		PRES.		SAMPLING																																	
LAB I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID:		ICE / COOL		OTHER :		DATE		TIME											
H45B3-1		Compressor Station		X				X												X		12-15-99		10:00 AM		X		X		TCLP - Metals, Volatile, Semi-Volatile RCI									
		Sec 7 717 S																																					
		R35E Kensor																																					
		New Mexico																																					

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-13
Originated 8/8/

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JUL 09 1999

Submit Original
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to appropriate
District Office

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator Navajo Refining
2. Management Facility Destination Controlled Recovery, Inc.	5. Originating Site Artesia Facility
3. Address of Facility Operator P. O. Box 388, Hobbs,	6. Transporter Lea Land, Inc.
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia, NM	8. State 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:

FCC Cat Fines. See attached Certificate of Waste Status stating this material has been approved in the past and is generated on a regular basis.

06-007

MSDS Submitted 10-2-98 Approved C-138 myk

Estimated Volume 25 Supersacks cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 6-30-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 7-2-99
APPROVED BY: Montyng Thib TITLE: Environmental Geologist DATE: 7-12-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: FCC Catalyst Fines

ESTIMATED VOLUME: 25 Supersacks

GENERATING PROCESS: These are the fine particles from catalyst collected in the cyclones at the FCC Unit during the regeneration process.

REMARKS: This waste has been approved in the past and is generated on a regular basis.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated in 20 yard roll off bins

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 6/29/99

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
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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JUL 09 1999

Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land, Inc.
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia NM	
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Pipeline Filters. See attached Certificate of Waste Status stating that Process has not changed and letter from the NMED verifying the waste to be non-hazardous.

06-006

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 6-30-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 7-2-99
APPROVED BY: Martha J. Kelly TITLE: Environmental Geologist DATE: 7-12-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Pipeline Filters

ESTIMATED VOLUME: 20 yards

GENERATING PROCESS: Filters are used to separate solids from finished products being transferred in pipelines to our El Paso terminal.

REMARKS: Process has not changed ,therefore, enclosed is a letter from the NMED verifying this waste is non hazardous.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated in a 20 yard roll off bin

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 6/29/99



GARY E. JOHNSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
2044 Galisteo
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544



MARK E. WEIDLER
SECRETARY

EDGAR T. THORNTON, III
DEPUTY SECRETARY

November 10, 1997

Mr. Darrell Moore
Environmental Manager for Water and Waste
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211-0159

Dear Mr. Moore:

RE: Disposal of Pipeline Filters

Based on the information Navajo Refining Company (NRC), has provided on the above captioned subject, the New Mexico Environment Department (NMED), Hazardous and Radioactive Materials Bureau (HRMB), finds that your knowledge of process (KOP) is sufficient at this point in time to support a non-hazardous waste designation for these filters. However, NMED must point out that should any changes be made to the "process" or "processes" which generate this waste, NRC must perform another hazardous waste determination on the filters affected. NMED/HRMB may also sample this waste stream at periodic intervals in the future as well.

If you have any further questions or if I can be of any other assistance, please call me at (505) 827-1508.

Sincerely,

A handwritten signature in cursive script, reading "John M. Tymkovich".

John M. Tymkovich
RCRA Inspection/Enforcement Program Manager
Hazardous and Radioactive Materials Bureau

cc: Benito J. Garcia, Chief HRMB
- Navajo, Blue, 1997

P. O. Box 1980
Hobbs, NM 88241-1980
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AUG 2 1999

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Oil Conservation Division

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Originated 8/8/

Submit Original
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to appropriate
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Lea Refining Co. Lovington Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land, Inc.
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main Artesia	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:

- 1) Hydrocarbon contaminated soil generated from spill clean ups from around the plant. I am enclosing analytical, Certificate of Waste Status and Chain of Custody. 80 yards.
- 2) Blast Sand. Naptha storage tank was sandblasted for repair. Analytical, Certificate of Waste Status and Chain of Custody enclosed. 80 yards.

08-003

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 8-6-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Specialist DATE: 8-17-99

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 8-23-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Lea Refining Company

COUNTY: Lea

STATE: NM

TYPE OF WASTE: Hydrocarbon contaminated soil

ESTIMATED VOLUME: 80 yards

GENERATING PROCESS: Soil came from various spill clean ups from around the plant.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: *Bryan Madrid*
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 8/3/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Lea Refining Company

COUNTY: Lea

STATE: NM

TYPE OF WASTE: Blast Sand

ESTIMATED VOLUME: 80 yards

GENERATING PROCESS: Naphtha storage tank was sandblasted for repair.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 8/3/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

May 21, 1999

Receiving Date: 05/13/99

Sample Type: Soil

Project No:

Project Location: 5 miles south of
Lovington on hwy 18

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Darrell Moore

501 E. Main Street

Artesia, New Mexico 88210

Sampling Date: 05/12/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: Lea Refining

TCCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
EPA LIMIT =									
T124710	1201 A Blastsand	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T124711	1215 Spill	0.12	<0.10	<0.02	<0.05	<0.10	<0.05	<0.10	<0.010
T124712	Contaminated Soil	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	0.47	<0.010
ICV		0.19	0.10	<0.02	<0.05	0.26	<0.05	0.23	<0.010
CCV		0.98	0.98	0.98	1.0	0.96	0.20	1.0	0.0052
		1.0	0.99	0.99	1.0	0.99	0.20	1.0	0.0052
REPORTING LIMIT									
		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		11	14	0	0	5	2	0	1
% Extraction Accuracy		110	110	100	105	105	112	105	88
% Instrument Accuracy		99	98	98	100	97	100	100	104
PREP DATE	05/14/99	05/14/99	05/14/99	05/14/99	05/14/99	05/14/99	05/14/99	05/14/99	05/17/99
ANALYSIS DATE	05/17/99	05/17/99	05/17/99	05/17/99	05/17/99	05/17/99	05/17/99	05/17/99	05/17/99

METHODS: EPA SW 846-1311, 6010B, 7470

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TCCLP METALS SPIKE: 2.0 mg/L As, Se Cd, Cr, Pb, Ba: 0.40 mg/L Ag Hg SPIKE: 0.050

TCCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.0050

Director, Dr. Blair Leftwich

5-21-99

Date

TRACE ANALYSIS, INC.

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 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Darrell Moore

501 E. Main Street

Artesia, New Mexico 88210

May 21, 1999

Receiving Date: 05/13/99

Sample Type: Soil

Project No:

Project Location: 5 miles south of Lovington on hwy 18

Extraction Date: 05/18/99

Analysis Date: 05/18/99

Sampling Date: 05/12/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: Lea Refining

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
-----	------------	------------	----------------	----------------	-------------	-----------	--------------

EPA LIMIT =

1201 A Blastsand

1215 Spill

Contaminated Soil

<2 >12.5

Non-corrosive

Non-corrosive

Non-corrosive

250

<2.5

<2.5

<2.5

500

<10

<10

<10

Non-reactive

Non-reactive

Non-reactive

<2 >12.5

7.0

7.6

9.0

Nonignitable

Nonignitable

Nonignitable

RPD

% Extraction Accuracy

% Instrument Accuracy

0

100

0

100

0

100

0

100

0

100

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: SO

[Signature]

Director, Dr. Blair Leftwich

5-21-99

Date



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**ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.**

May 21, 1999

Receiving Date: 05/13/99

Sample Type: Soil

Project No:

Project Location: 5 miles south of Lovington on hwy. 18

Attention: Darrell Moore

501 E. Main Street

Artesia, New Mexico 88210

Set Date: 05/14/99

Extraction Date: 05/17/99

Analysis Date: 05/19/99

Sampling Date: 05/12/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: Lea Refining

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T124712 Contaminated Soil	QC	RPD	%EA	%IA
Pyridine	5.0	0.5	ND	78	2	62	98
1,4-Dichlorobenzene	7.5	0.5	ND	79	7	58	99
o-Cresol	200.0	0.5	ND	76	11	66	95
m,p-Cresol	200.0	0.5	ND	77	13	61	96
Hexachloroethane	3.0	0.5	ND	78	3	60	98
Nitrobenzene	2.0	0.5	ND	75	8	68	94
Hexachlorobutadiene	0.5	0.5	ND	78	3	60	98
2,4,6-Trichlorophenol	2.0	0.5	ND	81	7	77	101
2,4,5-Trichlorophenol	400.0	0.5	ND	80	7	77	100
2,4-Dinitrotoluene	0.13	0.5	ND	78	7	77	98
2,4-D	10.0	0.5	ND	81	6	74	101
Hexachlorobenzene	0.13	0.5	ND	79	5	83	99
2,4,5-TP	1.0	0.5	ND	94	8	77	118
Pentachlorophenol	100.0	0.5	ND	84	7	77	105

Surrogates

% RECOVERY

2-Fluorophenol	41
Phenol-d6	28
Nitrobenzene-d5	71
2-Fluorobiphenyl	71
2,4,6-Tribromophenol	81
Terphenyl-d14	78

ND - Not Detected

Methods: EPA SW 846-1311, 8270.

CHEMIST: LK

Director, Dr. Blair Leftwich

5-21-99

Date



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ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Darrell Moore
501 E. Main Street
Artesia, New Mexico 88210

Set Date: 05/14/99
Extraction Date: 05/17/99
Analysis Date: 05/19/99
Sampling Date: 05/12/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Lea Refining

May 21, 1999
Receiving Date: 05/13/99
Sample Type: Soil
Project No:
Project Location: 5 miles south of Lovington on hwy. 18

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T124711 1215 Spill	QC	RPD	%EA	%IA
Pyridine	5.0	0.5	ND	78	2	62	98
1,4-Dichlorobenzene	7.5	0.5	ND	79	7	58	99
o-Cresol	200.0	0.5	ND	76	11	66	95
m,p-Cresol	200.0	0.5	ND	77	13	61	96
Hexachloroethane	3.0	0.5	ND	78	3	60	98
Nitrobenzene	2.0	0.5	ND	75	8	68	94
Hexachlorobutadiene	0.5	0.5	ND	78	3	60	98
2,4,6-Trichlorophenol	2.0	0.5	ND	81	7	77	101
2,4,5-Trichlorophenol	400.0	0.5	ND	80	7	77	100
2,4-Dinitrotoluene	0.13	0.5	ND	78	7	77	98
2,4-D	10.0	0.5	ND	81	6	74	101
Hexachlorobenzene	0.13	0.5	ND	79	5	83	99
2,4,5-TP	1.0	0.5	ND	94	8	77	118
Pentachlorophenol	100.0	0.5	ND	84	7	77	105

Surrogates

% RECOVERY

2-Fluorophenol	50
Phenol-d6	33
Nitrobenzene-d5	84
2-Fluorobiphenyl	82
2,4,6-Tribromophenol	92
Terphenyl-d14	94

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: DG



Director, Dr. Blair Leftwich

5-21-99
Date



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915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Darrell Moore
501 E. Main Street
Artesia, New Mexico 88210

Set Date: 05/14/99
Extraction Date: 05/17/99
Analysis Date: 05/19/99
Sampling Date: 05/12/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Lea Refining

May 21, 1999
Receiving Date: 05/13/99
Sample Type: Soil
Project No:
Project Location: 5 miles south of Lovington on hwy. 18

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T124710 1201 A Blastsand	QC	RPD	%EA	%IA
Pyridine	5.0	0.5	ND	78	2	62	98
1,4-Dichlorobenzene	7.5	0.5	ND	79	7	58	99
o-Cresol	200.0	0.5	ND	76	11	66	95
m,p-Cresol	200.0	0.5	ND	77	13	61	96
Hexachloroethane	3.0	0.5	ND	78	3	60	98
Nitrobenzene	2.0	0.5	ND	75	8	68	94
Hexachlorobutadiene	0.5	0.5	ND	78	3	60	98
2,4,6-Trichlorophenol	2.0	0.5	ND	81	7	77	101
2,4,5-Trichlorophenol	400.0	0.5	ND	80	7	77	100
2,4-Dinitrotoluene	0.13	0.5	ND	78	7	77	98
2,4-D	10.0	0.5	ND	81	6	74	101
Hexachlorobenzene	0.13	0.5	ND	79	5	83	99
2,4,5-TP	1.0	0.5	ND	94	8	77	118
Pentachlorophenol	100.0	0.5	ND	84	7	77	105

Surrogates % RECOVERY

2-Fluorophenol	35
Phenol-d6	24
Nitrobenzene-d5	58
2-Fluorobiphenyl	58
2,4,6-Tribromophenol	62
Terphenyl-d14	69

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: DG

Director, Dr. Blair Leftwich

5-21-99

Date



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ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Darrell Moore
501 E. Main Street
Artesia, New Mexico 88210

May 21, 1999

Receiving Date: 05/13/99

Sample Type: Soil

Project No:

Project Location: 5 miles south of Lovington on hwy 18

Extraction Date: 05/18/99

Analysis Date: 05/19/99

Sampling Date: 05/12/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: Lea Refining

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T124712 Contaminated Soil	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	103	2	83	103
1,1-Dichloroethene	0.70	0.05	ND	111	2	101	111
Methyl Ethyl Ketone	200.0	0.5	ND	108	3	104	108
Chloroform	6.00	0.05	ND	96	0	105	96
1,2-Dichloroethane	0.50	0.05	ND	91	0	100	91
Benzene	0.50	0.05	ND	100	1	108	100
Carbon Tetrachloride	0.50	0.05	ND	107	1	116	107
Trichloroethene	0.50	0.05	ND	105	0	111	105
Tetrachloroethene	0.70	0.05	ND	111	0	120	111
Chlorobenzene	100.00	0.05	ND	103	2	105	103
1,4-Dichlorobenzene	7.50	0.05	ND	102	1	106	102

SURROGATES

% Recovery

Dibromofluoromethane 97
Toluene-d8 101
4-Bromofluorobenzene 98

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG

Director, Dr. Blair Leftwich

5-21-99

Date

TRACE ANALYSIS, INC.

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ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Darrell Moore
501 E. Main Street
Artesia, New Mexico 88210

May 21, 1999

Receiving Date: 05/13/99

Sample Type: Soil

Project No:

Project Location: 5 miles south of Lovington on hwy 18

Extraction Date: 05/18/99

Analysis Date: 05/19/99

Sampling Date: 05/12/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: Lea Refining

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T124711 1215 Spill	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	103	2	83	103
1,1-Dichloroethene	0.70	0.05	ND	111	2	101	111
Methyl Ethyl Ketone	200.0	0.5	ND	108	3	104	108
Chloroform	6.00	0.05	ND	96	0	105	96
1,2-Dichloroethane	0.50	0.05	ND	91	0	100	91
Benzene	0.50	0.05	ND	100	1	108	100
Carbon Tetrachloride	0.50	0.05	ND	107	1	116	107
Trichloroethene	0.50	0.05	ND	105	0	111	105
Tetrachloroethene	0.70	0.05	ND	111	0	120	111
Chlorobenzene	100.00	0.05	ND	103	2	105	103
1,4-Dichlorobenzene	7.50	0.05	ND	102	1	106	102

SURROGATES

% Recovery

Dibromofluoromethane 98
Toluene-d8 101
4-Bromofluorobenzene 99

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG


Director, Dr. Blair Leftwich

5-21-99
Date

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ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Darrell Moore
501 E. Main Street
Artesia, New Mexico 88210

May 21, 1999

Receiving Date: 05/13/99

Sample Type: Soil

Project No:

Project Location: 5 miles south of Lovington on hwy 18

Extraction Date: 05/15/99

Analysis Date: 05/16/99

Sampling Date: 05/12/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: Lea Refining

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T124710 1201 A Blastsand	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	91	5	98	91
1,1-Dichloroethene	0.70	0.05	ND	105	2	108	105
Methyl Ethyl Ketone	200.0	0.5	ND	109	3	90	109
Chloroform	6.00	0.05	ND	99	2	104	99
1,2-Dichloroethane	0.50	0.05	ND	94	1	98	94
Benzene	0.50	0.05	ND	101	3	110	101
Carbon Tetrachloride	0.50	0.05	ND	103	4	126	103
Trichloroethene	0.50	0.05	ND	105	2	112	105
Tetrachloroethene	0.70	0.05	ND	110	2	121	110
Chlorobenzene	100.00	0.05	ND	102	2	107	102
1,4-Dichlorobenzene	7.50	0.05	ND	102	1	106	102

SURROGATES

% Recovery

Dibromofluoromethane
Toluene-d8
4-Bromofluorobenzene

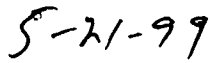
97
101
98

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG


Director, Dr. Blair Leftwich


Date

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

JUL 09 1999

Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/87

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land, Inc.
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 5-1 E Main, Artesia, 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 and debris caught in sewer inserts. See attached analytical, Certificate of Waste Status, Chain of Custody and NMED Hazardous and Radioactive Materials Bureau letter.

06-005

Estimated Volume 20 - 55 gal. drums cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 6-30-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 7-2-99
APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 7-12-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Solids and debris caught in sewer inserts.

ESTIMATED VOLUME: Twenty 55 gallon drums

GENERATING PROCESS: Solids and debris are caught in inserts before they enter the sewer system.

REMARKS: TCLP and letter from the NMED

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated - 20 yard roll off bins

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 6/29/99



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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main Street

Artesia, New Mexico 88210

May 6, 1999

Receiving Date: 04/30/99

Sample Type: Sludge

Project #: N/A

Project Location:

Extraction Date: 05/04/99

Analysis Date: 05/05/99

Sampling Date: 04/29/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name:

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T123877 Sewer Inserts	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	100	0	94	100
1,1-Dichloroethene	0.70	0.05	ND	109	1	106	109
Methyl Ethyl Ketone	200.0	0.5	ND	105	3	90	105
Chloroform	6.00	0.05	ND	103	2	108	103
1,2-Dichloroethane	0.50	0.05	ND	100	3	106	100
Benzene	0.50	0.05	ND	103	0	109	103
Carbon Tetrachloride	0.50	0.05	ND	100	2	127	100
Trichloroethene	0.50	0.05	ND	105	2	109	105
Tetrachloroethene	0.70	0.05	ND	107	1	114	107
Chlorobenzene	100.00	0.05	ND	102	3	108	102
1,4-Dichlorobenzene	7.50	0.05	ND	103	0	105	103

SURROGATES

% Recovery

Dibromofluoromethane
Toluene-d8
4-Bromofluorobenzene

100
99
101

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG

Director, Dr. Blair Leftwich

5-8-99

Date



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

May 6, 1999
Receiving Date: 04/30/99
Sample Type: Sludge
Project #: N/A
Project Location:

Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

Set Date: 05/03/99
Extraction Date: 05/04/99
Analysis Date: 05/04/99
Sampling Date: 04/29/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T123877 Sewer Inserts	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	90	19	34	113
1,4-Dichlorobenzene	7.5	0.05	ND	81	16	47	101
o-Cresol	200.0	0.05	0.11	70	18	55	88
m,p-Cresol	200.0	0.05	0.47	79	20	101	99
Hexachloroethane	3.0	0.05	ND	82	18	48	103
Nitrobenzene	2.0	0.05	ND	79	19	64	99
Hexachlorobutadiene	0.5	0.05	ND	80	18	48	100
2,4,6-Trichlorophenol	2.0	0.05	ND	75	15	57	94
2,4,5-Trichlorophenol	400.0	0.05	ND	81	8	65	101
2,4-Dinitrotoluene	0.13	0.05	ND	77	4	51	96
2,4-D	10.0	0.05	ND	75	7	63	94
Hexachlorobenzene	0.13	0.05	ND	77	8	55	96
2,4,5-TP	1.0	0.05	ND	69	4	50	86
Pentachlorophenol	100.0	0.05	ND	82	4	52	103

Surrogates

% RECOVERY

2-Fluorophenol	36
Phenol-d6	24
Nitrobenzene-d5	64
2-Fluorobiphenyl	58
2,4,6-Tribromophenol	63
Terphenyl-d14	61

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: DG

Director, Dr. Blair Leftwich

5-6-99

Date

TRACE ANALYSIS, INC.

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Lubbock, Texas 79424 800•378•1296
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ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main Street

Artesia, New Mexico 88210

May 6, 1999

Receiving Date: 04/30/99

Sample Type: Sludge

Project No:

Project Location:

Sampling Date: 04/29/99

Sample Condition: I & C

Sample Received by: VW

Project Name:

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
EPA LIMIT =		5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T123877	Sewer Inserts	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	0.54	<0.010
ICV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	0.0053
CCV		1.0	1.0	1.0	1.0	1.0	0.21	1.0	0.0050
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		0	0	0	0	0	8	0	0
% Extraction Accuracy		110	105	100	100	100	100	105	96
% Instrument Accuracy		100	100	100	100	100	100	100	104
PREP DATE	05/03/99	05/03/99	05/03/99	05/03/99	05/03/99	05/03/99	05/03/99	05/03/99	05/04/99
ANALYSIS DATE	05/04/99	05/04/99	05/04/99	05/04/99	05/04/99	05/04/99	05/04/99	05/04/99	05/05/99

METHODS: EPA SW 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TCLP METALS SPIKE: 2.0 mg/L As, Se Cd, Cr, Pb, Ba: 0.25 mg/L Ag Hg SPIKE: 0.050

TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.0050

Director, Dr. Blair Leftwich

5-6-99

Date

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 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Navajo Refining Co.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

May 6, 1999

Receiving Date: 04/30/99

Sample Type: Sludge

Project #: N/A

Project Location:

Extraction Date: 05/03/99

Analysis Date: 05/03/99

Sampling Date: 04/29/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
T123877	EPA LIMIT = Sewer Inserts	---	500	250	---	<2 >12.5	---
		Non-reactive	140	50	Non-corrosive	7.6	Non-ignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: SO



Director, Dr. Blair Leftwich

5-6-99

Date

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
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TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name:

Company, Name: NAVATO REEING Co.

Address: _____ (Street, City, Zip)

Address: 501 E. MAIN ARTESIA, 90210
(Street, City, Zip)

Contact Person:

Contact Person: BRYAN MADRID

Invoice to:

Project #:

Project Name:

Project Location:

Sampler Signature:

Sampler Signature: Bryan M. Lued

[illegible]

Relinquished by:

Date: _____ Time: _____

Received by:

Date:	Time:
-------	-------

Relinquished by:

Date: _____ Time: _____

Received by:

Date: _____ Time: _____

Relinquished by:

Date: _____ Time: _____

Received at L

Date: _____ Time: _____

Received at Laboratory by: *J. K. M. L.* Date: *14-30-97* Time: *10:00 AM*

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

Carrier # Fedex

2499491696

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

REMARKS:

LAB USE ONLY

Intact Y / N
 Headspace Y / N
 Temp -2 °
 Log-In Review and

5/7/99



GARY E. JOHNSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous & Radioactive Materials Bureau
2044 Galisteo Street
P.O. Box 26110
Santa Fe, New Mexico 87502
(505) 827-1557
Fax (505) 827-1544



PETER MAGGIORE
SECRETARY

January 28, 1999

ATTN: Darrel Moore
Environmental Manager for Water and Waste
Navajo Refining Company
501 East Main Street
P. O. Box 159
Artesia, New Mexico 88211-0159
(505) 748-3311

Re: Waste Minimization Program, Sewer Inserts

Dear Mr. Moore:

The New Mexico Environment Department (NMED) - Hazardous and Radioactive Materials Bureau (HRMB) has reviewed the letter and video from Navajo Refining Company (NRC) regarding the "sewer inserts" to be installed in the sewer boxes or sumps to minimize the amount of F037 accumulation.

The HRMB understands that the process wastewater piping runs do not enter the sewer inserts. Based on the information received, HRMB also understands that there are two sources of water reaching the sewer inserts: 1) storm water runoff and 2) process equipment blowdown. The sewer inserts will catch solids and debris that would normally be washed into the sewers by these two water sources, thereby minimizing the amount of F037 waste accumulation.

The HRMB further understands from your letter that NRC will sample the "mud" or sediment accumulated in the sewer inserts per the TCLP to determine if it is characteristically hazardous. Per your telephone conversation with Mr. Billy Barnes, NRC will do a composite sample of the sediment from all sewer inserts once per month for at least six months and have the sample analyzed for a full TCLP. If the samples are clean or non-hazardous, then sampling would only be performed annually thereafter.

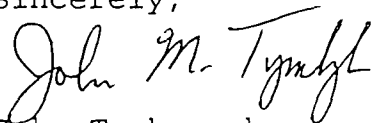
The HRMB accepts your proposal for waste minimization provided that a representative sample of the sediment accumulated in the sewer inserts is collected using a sampling procedure that

will ensure a good representation of the sediment and minimum loss of volatiles. If a history of analysis reports shows evidence that the sediment is non-hazardous, then the HRMB will concur that the sediment accumulated in the sewer inserts may be handled and disposed of as non-hazardous waste using only one analysis per year, providing that the process for accumulation of sediment does not change.

Please let us know the progress and status of your hazardous waste minimization program regarding F037 when you have a history of analysis reports on file. If you have any questions, please do not hesitate to call me at (505) 827-1508 or Mr. Billy Barnes at 827-1835. A copy of this letter will be forwarded to Mr. Roger Anderson of the Oil Conservation Division as you requested.

The NMED/HRMB commends your efforts and encourages NRC to continue to pursue and promote hazardous waste minimization.

Sincerely,

A handwritten signature in cursive script, reading "John M. Tymkovich".

John Tymkovich
RCRA Inspection/Enforcement Program Manager, HRMB

cc: Roger Anderson, Bureau Chief, Oil Conservation Division
File

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

AUG 2 1999

Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/87

Submit Origin
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land Inc.
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main	Artesia, 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:

- 1) Hydrocarbon contaminated soil generated from various spill clean ups from around the plant. I am closing analytical, Certificate of Waste Status and Chain of Custody. 350 yards.
- 2) D-759 Carbon Filter Catalyst. Catalyst used to absorb any hydrocarbons during amine regeneration. Previous analysis enclosed; process has not changed. Also including Certificate of Waste Status and Chain of custody. 15 yards.

08-002

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 8-6-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 383-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 8-17-99

APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 8-23-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Hydrocarbon contaminated soil

ESTIMATED VOLUME: 350 yards

GENERATING PROCESS: Soil came from various spill clean ups from around the plant.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 8/3/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424
El Paso, Texas 79922

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888•588•3443

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING
Attention: BRYAN MADRID
501 E. Main
Artesia, NM 88210

July 8, 1999
Receiving Date: 06/22/99
Sample Type: Soil
Project No: N/A
Project Location: N/A

Extraction Date: 6/24/99
Analysis Date: 6/24/99
Sampling Date: 6/21/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA LIMIT	Hydrocarbon Cont. Soil					
		Reporting Limit	T126925 Conc.	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	115	3	109	115
1,1-Dichloroethene	0.70	0.05	ND	117	4	106	117
Methyl Ethyl Ketone	200.0	0.5	ND	114	2	110	114
Chloroform	6.00	0.05	ND	106	3	114	106
1,2-Dichloroethane	0.50	0.05	ND	107	0	107	107
Benzene*	0.50	0.05	ND	108	0	117	108
Carbon Tetrachloride	0.50	0.05	ND	119	1	124	119
Trichloroethene	0.50	0.05	ND	113	1	120	113
Tetrachloroethene	0.70	0.05	ND	116	5	127	116
Chlorobenzene	100.00	0.05	ND	112	4	113	112
1,4-Dichlorobenzene	7.50	0.05	ND	104	7	114	104

*Benzene contamination in instrument blank.

SURROGATES	% Recovery
Dibromofluoromethane	101
Toluene-d8	99
4-Bromofluorobenzene	100

ND = Not Detected

METHODS: EPA SW 846-1311, 8260B.
CHEMIST: LK



Director, Dr. Blair Leftwich

7-8-99

DATE

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El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING

Attention: BRYAN MADRID

501 E. Main

Artesia, NM 88210

Project Name: N/A

Sampling Date: 6/21/99

Sample Condition: Intact & Cool

Sample Received by: VW

July 8, 1999

Receiving Date: 06/22/99

Sample Type: Soil

Project No: N/A

Project Location: N/A

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
EPA LIMIT =									
T126925	Hydrocarbon Cont. Soil	5.0 <0.10	1.0 <0.50	1.0 <0.10	5.0 <0.10	5.0 <0.10	5.0 0.15	100.0 <1.0	0.20 <0.010
ICV		1.00	0.99	0.98	1.00	0.99	0.21	1.00	0.0055
CCV		1.01	0.98	0.98	1.0	0.98	0.20	1.02	0.0057
REPORTING LIMIT									
		0.10	0.50	0.10	0.10	0.10	0.05	1.0	0.010
RPD		0	0	2	1	3	0	0	3
% Extraction Accuracy		96	100	94	99	95	95	100	105
% Instrument Accuracy		101	98	98	100	98	103	101	112
PREP DATE		6/24/99	6/24/99	6/24/99	6/24/99	6/24/99	6/24/99	6/24/99	6/23/99
ANALYSIS DATE		6/25/99	6/25/99	6/25/99	6/25/99	6/25/99	6/25/99	6/25/99	6/23/99

METHODS: EPA SW 846-1311,3015, 6010B, 7470A.

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TCLP METALS SPIKE: 2.0 mg/L Ag 10 mg/L As, Se Cd, Cr, Pb, Ba:

TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.0050 mg/L

[Signature]

Director, Dr. Blair Leftwich

7-8-99

Date

TRACE ANALYSIS, INC.

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El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

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915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING

Attention: BRYAN MADRID
501 E. Main
Artesia, NM 88210

Set Date: 6/22/99
Extraction Date: 6/25/99
Analysis Date: 6/26/99
Sampling Date: 6/21/99
Sample Condition: Intact
Sample Received by: VW

July 8, 1999
Receiving Date: 06/22/99
Sample Type: Soil
Project No: N/A
Project Location: N/A

T126925 Hydrocarbon Cont. Soil

TCLP Semi-Volatile (mg/L)	EPA Limit	Reporting Limit	Condensate Conc.	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	48	10	15	90
1,4-Dichlorobenzene	7.5	0.05	ND	56	5	80	93
o-Cresol	200.0	0.05	ND	60	0	92	100
m,p-Cresol	200.0	0.05	ND	60	1	84	100
Hexachloroethane	3.0	0.05	ND	58	6	82	97
Nitrobenzene	2.0	0.05	ND	57	5	108	95
Hexachlorobutadiene	0.5	0.05	ND	58	4	85	97
2,4,6-Trichlorophenol	2.0	0.05	ND	63	2	114	105
2,4,5-Trichlorophenol	400.0	0.05	ND	64	1	114	107
2,4-Dinitrotoluene	0.13	0.05	ND	64	5	110	107
2,4-D	10.0	0.05	ND	62	1	113	103
Hexachlorobenzene	0.13	0.05	ND	59	0	116	98
2,4,5-TP	1.0	0.05	ND	63	4	102	105
Pentachlorophenol	100.0	0.05	ND	63	0	111	105

Surrogates

% RECOVERY

2-Fluorophenol	40
Phenol-d6	23
Nitrobenzene-d5	73
2-Fluorobiphenyl	74
2,4,6-Tribromophenol	45
Terphenyl-d14	86

ND - Not Detected

Methods: EPA SW 846-1311, 8270C.
CHEMIST: MA



Director, Dr. Blair Leftwich

7-8-99

Date

TRACE ANALYSIS, INC.

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 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING

Attention: BRYAN MADRID

501 E. Main

Artesia, NM 88210

July 8, 1999

Receiving Date: 06/22/99

Sample Type: Soil

Project No: N/A

Project Location: N/A

Extraction Date: 07/8/99

Analysis Date: 07/8/99

Sampling Date: 06/21/99

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY (mm/y)	pH (s.u.)	IGNITABILITY
EPA LIMIT =		---	500	250	>6.5 mm/yr.	<2 >12.5	---
T126925	Hydrocarbon Cont. Soil	Non-reactive	<10	<2.5	Non-corrosive	6.9	Nonignitable
QC	Quality Control	---	---	---	---	---	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		---	---	---	---	100	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
 CHEMIST: MS/JM



Director, Dr. Blair Leftwich

7-8-99

DATE

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 99042205

ANALYSIS REQUEST
(Circle or Specify Method No.)

4
70C/625
Cd Cr P
Cd Cr P
different f

[illegible]

REMARKS:

LAB USE
ONLY

Intact (Y) / N

Headspace Y / N

Temp 20 °

Log-in Review nm

7/8

Carrier # Fedex 252-0508-006

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: D-759 (carbon filter) catalyst

ESTIMATED VOLUME: 15 yards

GENERATING PROCESS: Catalyst used to absorb any hydrocarbons during amine regeneration.

REMARKS: Previous analysis enclosed; process has not changed.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 8/3/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
6701 E. Highway, Suite A El Paso, Texas 79972 915•585•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Catalyst
Project No:
Project Location:

Extraction Date: 03/28/99
Analysis Date: 04/01/99
Sampling Date: 03/23/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name:

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T121498 D-759	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	115	4	118	115
1,1-Dichloroethene	0.70	0.05	ND	109	3	116	109
Methyl Ethyl Ketone	200.0	0.5	ND	101	8	92	101
Chloroform	6.00	0.05	ND	94	4	116	94
1,2-Dichloroethane	0.50	0.05	ND	86	2	113	86
Benzene	0.50	0.05	ND	113	1	112	113
Carbon Tetrachloride	0.50	0.05	ND	99	3	131	99
Trichloroethene	0.50	0.05	ND	107	0	115	107
Tetrachloroethene	0.70	0.05	ND	115	2	123	115
Chlorobenzene	100.00	0.05	ND	103	3	110	103
1,4-Dichlorobenzene	7.50	0.05	ND	105	3	114	105

SURROGATES

% Recovery

Dibromofluoromethane 90
Toluene-d8 102
4-Bromofluorobenzene 96

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG


Director, Dr. Blair Leftwich

4-6-99
Date

TRACE ANALYSIS, INC.

10000 S. Main Street, Suite 100, Lubbock, Texas 79424 800•794•1296 FAX 806•794•1298
10000 S. Main Street, Suite 100, Lubbock, Texas 79424 800•585•3443 FAX 806•585•3443
Mail: info@traceanalysis.com

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid
501 E. Main Street
Artesia, New Mexico 88210

Set Date: 03/25/99
Extraction Date: 03/26/99
Analysis Date: 03/28/99
Sampling Date: 03/23/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name:

April 6, 1999
Receiving Date: 03/24/99
Sample Type: Catalyst
Project No:
Project Location:

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T121498 D-759	QC	RPD	%EA	%IA
Pyridine	5.0	0.5	ND	85	5	44	106
1,4-Dichlorobenzene	7.5	0.5	ND	84	1	57	105
o-Cresol	200.0	0.5	ND	78	2	62	98
m,p-Cresol	200.0	0.5	ND	79	1	56	99
Hexachloroethane	3.0	0.5	ND	79	2	51	99
Nitrobenzene	2.0	0.5	ND	81	1	70	101
Hexachlorobutadiene	0.5	0.5	ND	83	0	55	104
2,4,6-Trichlorophenol	2.0	0.5	ND	82	0	71	102
2,4,5-Trichlorophenol	400.0	0.5	ND	79	1	70	99
2,4-Dinitrotoluene	0.13	0.5	ND	80	0	64	100
2,4-D	10.0	0.5	ND	82	1	23	102
Hexachlorobenzene	0.13	0.5	ND	79	1	71	99
2,4,5-TP	1.0	0.5	ND	81	1	22	101
Pentachlorophenol	100.0	0.5	ND	72	0	54	90

Surrogates % RECOVERY

2-Fluorophenol	54
Phenol-d6	32
Nitrobenzene-d5	90
2-Fluorobiphenyl	85
2,4,6-Tribromophenol	92
Terphenyl-d14	111

ND - Not Detected

Methods: EPA SW 846-1311, 8270.
CHEMIST: DG



Director, Dr. Blair Leftwich

4-6-99

Date

TRACE ANALYSIS, INC.

10000 Alvarado Avenue, Suite 100, Dallas, Texas 75242-8078 • 214-343-7942 • FAX 806-754-1798
 11111 Elm Street, Suite 100, Dallas, Texas 75242-8078 • 214-343-7942 • FAX 806-754-1798
 11111 Elm Street, Suite 100, Dallas, Texas 75242-8078 • 214-343-7942 • FAX 806-754-1798

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main Street

Artesia, New Mexico 88210

April 6, 1999

Receiving Date: 03/24/99

Sample Type: Catalyst

Project No:

Project Location:

Sampling Date: 03/23/99

Sample Condition: I & C

Sample Received by: VW

Project Name:

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
T121498	EPA LIMIT = D-759	5.0 <0.10	1.0 <0.10	1.0 <0.02	5.0 <0.05	5.0 <0.10	5.0 <0.05	100.0 <0.10	0.20 <0.010
ICV		1.0	1.0	1.0	1.0	1.0	0.20	1.0	0.0050
CCV		1.0	1.0	1.0	1.0	0.97	0.20	1.0	0.0046
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		5	5	0	0	0	0	0	9
% Extraction Accuracy		95	100	90	100	100	100	100	82
% Instrument Accuracy		100	100	100	100	100	100	100	96
PREP DATE		03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99	03/25/99
ANALYSIS DATE		03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/26/99	03/29/99

METHODS: EPA SW 846-1311, 6010B, 7470

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TCLP METALS SPIKE: 2.0 mg/L As, Se Cd, Cr, Pb, Ba: 1.0 mg/L Ag Hg SPIKE: 0.0050

TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.050

BS

4-6-99

Director, Dr. Blair Leftwich

Date

TRACE ANALYSIS, INC.

April 6, 1999
 Receiving Date: 03/24/99
 Sample Type: Catalyst
 Project #: N/A
 Project Location: N/A

ANALYTICAL RESULTS FOR

Navajo Refining Co.
 Attention: Bryan Madrid
 501 E. Main
 Artesia, NM 88210
 Extraction Date: 03/25/99
 Analysis Date: 03/25/99
 Sampling Date: 03/23/99
 Sample Condition: Intact & Cool
 Sample Received by: VW
 Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
T121498	D-759	Non-reactive	<10	<2.5	Non-corrosive	<2 >12.5	Nonignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
 CHEMIST: SO



Director, Dr. Blair Leftwich

4-6-99

Date

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

SEP 20 1999

Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/87

Submit Origin
Plus 1 Co.
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 501 E. Main Artesia, NM 88211
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main Artesia, NM 88211-0159	
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:

Vacuum tower (W-62) scale and pall rings.

I am enclosing Certificate of Waste Status, Chain of custody, Knowledge of process letter verifying the process has not changed and TCLP should still be valid.

09-001

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 9-14-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Sp. DATE: 9-15-99
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 7-20-99

TELEPHONE
(505) 748-3311

EASYLINK
62905278



REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

September 10, 1999

Ken Marsh
CRI Inc.
P.O. Box 388
Hobbs, NM 88241

Dear Mr. Marsh:

I would like to get approximately 10 yards of vacuum tower scale and pall rings profiled into your facility. This waste will be generated during a turnaround that will occur on the 17th of this month. It has been approved in the past and since process has not changed, I feel the enclosed TCLP should still be valid.

If you have any questions, please call me at (505) 748-3311. Thank you for your time in this matter.

Sincerely,

Bryan Madrid
Environmental Specialist

Encl.

file: CRI 1999



**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Vacuum tower (W-62) scale and pall rings.

ESTIMATED VOLUME: 10 yards

GENERATING PROCESS: Scale is built up on walls of vacuum tower during the process of refining crude into products such as asphalt and gas oils. Pall rings aid in separation.

REMARKS: Ealier analysis enclosed - Process has not changed.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 9/10/99

6701 Alperdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining
Attention: Bryan Madrid
501 E. Main
Artesia NM 88210

Date: Dec 08, 1997
Date Rec: 11/24/97
Project: N/A
Proj Name: N/A
Proj Loc: N/A

Lab Receiving # : 9712000033
Sampling Date: 11/24/97
Sample Condition: Intact and Cool
Sample Received By: VW

TCLP Vol in Solid (mg/L)	EPA Limit	Reporting Limit	Method Blank	T86396		QC	RPD	%EA	%IA
				Vacuum Tower	Scale				
Vinyl Chloride	0.2	0.05	ND	ND		86	2	101	86
1,1-Dichloroethene	0.7	0.05	ND	ND		88	8	85	88
Methyl Ethyl Ketone	200.0	0.50	ND	ND		80	9	84	80
Chloroform	6.0	0.05	ND	ND		88	7	96	88
1,2-Dichloroethane	0.5	0.05	ND	ND		87	9	92	87
Benzene	0.5	0.05	ND	ND		87	7	94	87
Carbon Tetrachloride	0.5	0.05	ND	ND		104	5	105	104
Trichloroethene	0.5	0.05	ND	ND		87	5	97	87
Tetrachloroethane	0.7	0.05	ND	ND		83	6	96	83
Chlorobenzene	100.0	0.05	ND	ND		84	6	90	84
1,4-Dichlorobenzene	7.5	0.05	ND	ND		85	7	93	85

% RECOVERY

Dibromofluoromethane	101
Toluene-d8	101
4-Bromofluorobenzene	99

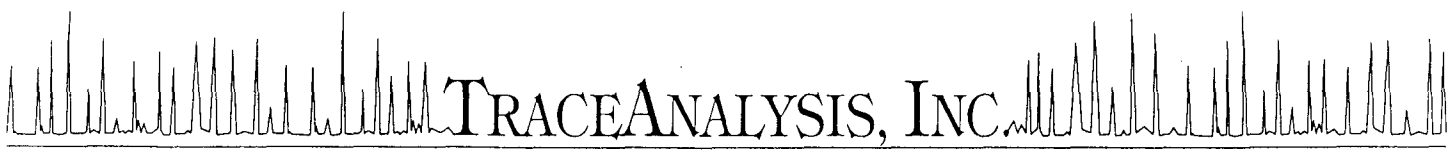
TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Vol	EPA 1311	12/2/97	EPA 8260	12/3/97	RW	100 ea	100 ea



Director, Dr. Blair Leftwich

12-8-97

Date


TRACE ANALYSIS, INC.

An Institute for Advanced Environmental Research and Analysis

6701 Aberdeen Avenue
Lubbock, Texas 79424
806•794•1296
FAX 806•794•1298

ANALYTICAL RESULTS FOR
Navajo Refining
Attention: Bryan Madrid
501 E. Main
Artesia NM 88210

Date: Dec 08, 1997
Date Rec: 11/24/97
Project: N/A
Proj Name: N/A
Proj Loc: N/A

Lab Receiving # : 9712000033
Sampling Date: 11/24/97
Sample Condition: Intact and Cool
Sample Received By: VW

TCLP Semivolatiles in Solid (mg/L)	EPA Limit	Reporting Limit	Method Blank	T86396		QC	RPD	%EA	%IA
				Vacuum	Tower Scale				
Pyridine	5.0	0.05	ND	ND		92	0	0	92
1,4-Dichlorobenzene	7.5	0.05	ND	ND		91	3	64	91
o-Cresol	200.0	0.05	ND	ND		93	4	110	93
m,p-Cresol	200.0	0.05	ND	ND		94	7	286	94
Hexachloroethane	3.0	0.05	ND	ND		88	4	92	88
Nitrobenzene	2.0	0.05	ND	ND		84	3	76	84
Hexachlorobutadiene	0.5	0.05	ND	ND		75	5	42	75
2,4,6-Trichlorophenol	2.0	0.05	ND	ND		90	2	85	90
2,4,5-Trichlorophenol	400.0	0.05	ND	ND		92	2	94	92
2,4-Dinitrotoluene	0.13	0.05	ND	ND		92	2	80	92
2,4-D	10.0	0.05	ND	ND		84	2	176	84
Hexachlorobenzene	0.13	0.05	ND	ND		90	4	94	90
2,4,5-TP	1.0	0.05	ND	ND		76	4	314	76
Pentachlorophenol	100.0	0.05	ND	ND		83	12	124	83

ND = Not Detected

Surrogate	% RECOVERY	Surrogate	% RECOVERY
2-Fluorophenol	70	2-Fluorobiphenyl	110
Phenol-D6	82	2,4,6-Tribromophenol	70
Nitrobenzene-d5	88	Terphenyl-d14	106

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Semi	EPA 1311	12/3/97	EPA 8270	12/5/97	RP/HW	100 ea	100 ea


Director, Dr. Blair Leftwich

12-8-97
Date

TRACE ANALYSIS, INC.

An Institute for Advanced Environmental Research and Analysis

TRACE ANALYSIS, INC.

ANALYTICAL REPORT

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

CLIENT NAVAJO REFINING COMPANY
501 E MAIN/PO BOX 159
ARTESIA, NM 88211

SAMPLE NO. : 7704412
INVOICE NO.: TE0255
REPORT DATE: 12-05-97
REVIEWED BY: *[Signature]*
PAGE : 1 OF 1

CLIENT SAMPLE ID : VACUUM TOWER SCALE
SAMPLE TYPE: SLUDGE
SAMPLED BY: B. MADRID
SUBMITTED BY: B. MADRID
SAMPLE SOURCE: --

AUTHORIZED BY : B. MADRID
CLIENT P.O. : --
SAMPLE DATE ...: 11-24-97
SUBMITTAL DATE : 11-24-97
EXTRACTION DATE: --

TCLP Metals

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Arsenic (TCLP)	0.054	mg/L	0.050	12-01-97	SW846 7061	N. Munir
Barium (TCLP)	<5.0	mg/L	5.0	12-03-97	SW846 7080A	N. Munir
Cadmium (TCLP)	<0.25	mg/L	0.25	12-02-97	SW846 7130	N. Munir
Chromium (TCLP)	<0.50	mg/L	0.50	12-03-97	SW846 7190	N. Munir
Lead (TCLP)	<0.75	mg/L	0.75	12-03-97	SW846 7420	N. Munir
Mercury (TCLP)	<0.010	mg/L	0.010	12-01-97	SW846 7471A	N. Munir
Selenium (TCLP)	0.061	mg/L	0.050	12-02-97	SW846 7741A	N. Munir
Silver (TCLP)	<0.25	mg/L	0.25	12-01-97	SW846 7760A	N. Munir

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLE(S) TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

(1) Copy to Client

[Signature]

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806 • 794 • 1296

FAX 806 • 794 • 1298

ANALYTICAL RESULTS FOR
NAVAJO REFINING COMPANY

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

December 08, 1997

Receiving Date: 11/24/97

Sample Type: Sludge

Project No: NA

Project Location: NA

Extraction Date: 12/03/97

Analysis Date: 12/03/97

Sampling Date: 11/24/97

Sample Condition: I & C

Sample Received by: RP

Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)
EPA LIMIT =						
T863967704412	Vacuum Tower Scale	---	500	250	---	<2 >12.5
T863997704415	Sewer Inserts	Non-reactive	<10	<2.5	Non-corrosive	6.7
T864007704416	Exchanger Sludge	Non-reactive	280	80	Non-corrosive	7.3
T864057704421	Flare K.O. Drum Scale	Non-reactive	<10	<2.5	Non-corrosive	6.6
T864077704423	Depropanizer Scale	Non-reactive	<10	<2.5	Non-corrosive	6.9
T864087704424	Cooling Tower Sludge	Non-reactive	<10	<2.5	Non-corrosive	4.4
QC	Quality Control	---	---	---	---	7.8
						7.0
RPD		0	0	9	0	0
% Extraction Accuracy		---	---	108	---	---
% Instrument Accuracy		---	---	106	---	100

METHODS: EPA SW 846-2.1.3, 2.1.2.

CHEMIST: JG



Director, Dr. Blair Leftwich

12-8-97

DATE

TraceAnalysis, Inc.

6701 Aberdeen Avenue, Ste. 9 Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

Company Name:

Company Name: NAVAJO REFINING Co.

Phone #:

Fax #:

Contact Person:

Contact Person: BRVAN MADRID

Invoice to:

(If different from above)

Project #:

Project Name:

Project Location:

Sampler Signature:

Sampler Signature: Dwan Macdread

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD				SAMPLING	
				WATER	SOIL	AIR	SLUDGE	Catalysts	HCL	HNO3	ICE	NONE	DATE	TIME
44112	VACUUM TOWER SCALE	1	1L				X			X			11-24-97	8:00
44113	CERAMIC SUPPORT MEDIA	1	1L					X					11-24-97	8:15
44114	SAND FILTER	1	1L					X					11-24-97	8:30
44115	SEWER INSERTS	1	1L				X						11-24-97	8:45
44116	EXCHANGER SURGE	1	1L				X						11-24-97	9:00
44117	BLAST SAND	1	1L		X								11-24-97	9:15
44118	HYDROCARBON CONTAMINATED SOIL	1	1L	X									11-24-97	9:30
44119	DESULFURIZATION CATALYST	1	1L					X					11-24-97	9:45
44120	BAUXITE DRYER MEDIA	1	1L					X					11-24-97	10:00
44121	FLARE K.O. DRUM SCALE	1	1L				X						11-24-97	10:15
44122	COVER TPAUS	1	1L										11-24-97	10:30

Relinquished by:

Date: 10/1/2019 Time: 10:10

Received by:

Date: _____ Time: _____

2. 11

11-24-97 12:00

1

1

Relinquished by:

Date: _____ Time: _____

Received at

Date: _____ Time: _____

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

LAB USE ONLY

Intact Y / N

	Y / N
Headspace	

Temp _____

Log-in Review

Carrier #

REMARKS:

Red oxide

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 04 1999

Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/99

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs, NM 88241	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main St.	Artesia, 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:

- 1) D-363 Catalyst strips hydrogen chloride from reformat in the Continuous Catalytic Regeneration (CCR) Reformer Unit. Certificate of Waste, earlier analysis enclosed. Process has not chained. 30 yards 09-004
 - 2) FCC catalyst fines. Fine particles from catalyst collected in the cyclones at the FCC Unit during the regeneration process. This waste has been approved in the past and is generated on a regular basis. 25 Supersacks 09-005
 - 3) Filters. Used to separate solids and other impurities from amine in our amine unit and sour water in our tail gas unit. TCLP from Trace Analysis is enclosed. 30 yards 09-006
 - 4) Tk 116 bottoms - This waste was generated by the cleaning out of Navajo's Isobutane tank (Tk116) in order to retrofit it with new valves. Certificate of waste and analysis enclosed. 10 yards 09-007
 - 5) Asphalt sample cans. After sample removed from can, can is put into a barrel until approved for disposal. Approved in the past, generated on a regular basis. 10 drums
- Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ 09-008

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 9-24-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Specialist DATE: 9-27-99

APPROVED BY: M. J. [Signature] TITLE: Environmental Geologist DATE: 10/4/99

TELEPHONE
(505) 748-3311

EASYLINK
62905278



REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

September 23, 1999

Ken Marsh
CRI Inc.
P.O. Box 388
Hobbs, NM 88241

Dear Mr. Marsh:

I would like to get the following wastes profiled into your facility.

- 09-004 1) D-363 Catalyst
- 09-005 2) FCC catalyst fines
- 09-006 3) Filters
- 09-007 4) Tk116 bottoms
- 09-008 5) Asphalt sample cans

Enclosed you will find a Certificate of Waste Status for each media along with an analysis where applicable.

If you have any questions, please call me at (505) 748-3311. Thank you for your time in this matter.

Sincerely,

Bryan Madrid

Bryan Madrid
Environmental Specialist

Encl.

file: CRI 1999

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: D-363 Catalyst

ESTIMATED VOLUME: 30 yards

GENERATING PROCESS: Catalyst strips hydrogen chloride from reformat in the Continuous Catalytic Regeneration (CCR) Reformer Unit.

REMARKS: Earlier analysis enclosed - Process has not changed.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 9/23/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424

El Paso, Texas 79922

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FAX 806•794•1298

FAX 915•585•4944

E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid
501 Main Street
Artesia, NM 88210

July 21, 1998

Receiving Date: 07/03/98

Sample Type: Catalyst

Job Number:

Project Location:

Extraction Date: 07/06/98

Analysis Date: 07/07/98

Sampling Date: 07/01/98

Sample Condition: Intact & Cool

Sample Received by: VW

Project Name:

T102038/982860							
TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	D-363 Chloride Guard	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.050	ND	120	1	111	120
1,1-Dichloroethene	0.70	0.050	ND	87	0	110	87
Methyl Ethyl Ketone	200.0	0.50	ND	84	5	101	84
Chloroform	6.00	0.050	ND	89	1	111	89
1,2-Dichloroethane	0.50	0.050	ND	87	1	105	87
Benzene	0.50	0.050	ND	86	1	111	86
Carbon Tetrachloride	0.50	0.050	ND	102	1	97	102
Trichloroethene	0.50	0.050	ND	87	0	109	87
Tetrachloroethene	0.70	0.050	ND	89	0	114	89
Chlorobenzene	100.00	0.050	ND	85	0	110	85
1,4-Dichlorobenzene	7.50	0.050	ND	86	1	109	86

SURROGATES

% Recovery

Dibromofluoromethane 94
Toluene-d8 99
4-Bromofluorobenzene 98

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: DG



Director, Dr. Blair Leftwich

7-21-98

DATE

TRACE ANALYSIS, INC.

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FAX 806•794•1298
FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid
501 Main Street
Artesia, N.M. 88210

July 21, 1998

Receiving Date: 07/03/98

Sample Type: Catalyst

Project #:

Project Location:

Extraction Date: 7/11/98

Analysis Date: 07/18/98

Sampling Date: 07/01/98

Sample Condition: I & C

Sample Received by: VW

Project Name:

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T102038/982860 D-363 Chloride				
			Guard	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	68	17	44	85
1,4-Dichlorobenzene	7.5	0.05	ND	80	6	66	100
o-Cresol	200.0	0.05	ND	70	6	55	88
m,p-Cresol	200.0	0.05	0.07	64	4	91	80
Hexachloroethane	3.0	0.05	ND	66	4	56	83
Nitrobenzene	2.0	0.05	ND	78	1	75	98
Hexachlorobutadiene	0.5	0.05	ND	87	4	69	109
2,4,6-Trichlorophenol	2.0	0.05	ND	82	11	70	103
2,4,5-Trichlorophenol	400.0	0.05	ND	86	9	76	108
2,4-Dinitrotoluene	0.13	0.05	ND	74	9	76	93
2,4-D	10.0	0.05	ND	91	86*	2	114
Hexachlorobenzene	0.13	0.05	ND	80	4	67	100
2,4,5-TP	1.0	0.05	ND	93	53*	74	116
Pentachlorophenol	100.0	0.05	ND	79	3	60	99

Surrogates

% RECOVERY

2-Fluorophenol
Phenol-d6
Nitrobenzene-d5
2-Fluorobiphenyl
2,4,6-Tribromophenol
Terphenyl-d14

47
40
86
76
93
87

ND - Not Detected

*NOTE: RPD out of control limits due to concentration of sample.

Methods: EPA SW 846-1311, 8270.
CHEMIST: MB



Director, Dr. Blair Leftwich

7-21-98

DATE



ANALYTICAL REPORT

TRACE ANALYSIS, INC.

CLIENT NAVAJO REFINING 6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
501 E. MAIN El Paso, Texas 79922 888-588-3443 915-585-3443
ARTESIA, NM 88211 E-Mail: lab@traceanalysis.com

INVOICE NO.: 982860
REPORT DATE: 07-13-98
REVIEWED BY: [Signature]
PAGE : 1 OF 1

CLIENT SAMPLE ID : D-363 Chloride Guard
SAMPLE TYPE: Solid
SAMPLED BY: B Madrid
SUBMITTED BY: B Madrid
SAMPLE SOURCE: --

AUTHORIZED BY : B. MADRID
CLIENT P.O. : --
SAMPLE DATE: 07-01-98
SUBMITTAL DATE : 07-02-98
EXTRACTION DATE: --

REMARKS -

Detection limit was raised as sample was analyzed diluted to avoid matrix interference for the following parameter(s): Barium.

TCLP Metals

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis		Analyst
				Date	Test Method	
Arsenic (TCLP)	<0.050	mg/L	0.050	07-09-98	SW846 7061	N. Munir
Barium (TCLP)	<25.	mg/L	25.	07-10-98	SW846 7080A	N. Munir
Cadmium (TCLP)	<0.25	mg/L	0.25	07-10-98	SW846 7130	N. Munir
Chromium (TCLP)	<0.50	mg/L	0.50	07-10-98	SW846 7190	N. Munir
Lead (TCLP)	<0.75	mg/L	0.75	07-09-98	SW846 7420	N. Munir
Mercury (TCLP)	<0.010	mg/L	0.010	07-09-98	SW846 7471A	N. Munir
Selenium (TCLP)	<0.050	mg/L	0.050	07-08-98	SW846 7741A	N. Munir
Silver (TCLP)	<0.25	mg/L	0.25	07-10-98	SW846 7760A	N. Munir

(1) Copy to Client

ANALYTICAL RESULTS REPORTED HEREIN APPLY ONLY TO THE SAMPLES TESTED. FURTHERMORE, THIS REPORT CAN ONLY BE COPIED IN ITS ENTIRETY.

[Signature]

MANAGING DIRECTOR



TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A El Paso, Texas 79972 888-588-3443 915-585-3443 FAX 915-585-4944

E-Mail: lab@traceanalysis.com
ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.
Attention: Bryan Madrid
501 Main Street
Artesia, NM 88210

Extraction Date: 7/11/98
Analysis Date: 7/18/98
Sampling Date: 7/01/98
Sample Condition: I & C.
Sample Received by: VW
Project Name:

July 22, 1998
Receiving Date: 07/03/98
Sample Type: Catalyst
Project No:
Project Location:

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
EPA LIMIT =							
T102038	D-363 Chloride Guard	—	500	250	—	<2 >12.5	—
QC	Quality Control	Non-reactive	<10	<2.5	Non-corrosive	11.7	Nonignitable
		—	—	—	—	7.0	—
RPD		0	0	0	0	0	0
% Extraction Accuracy		—	—	—	—	—	—
% Instrument Accuracy		—	—	—	—	100	—

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: RC

Director, Dr. Blair Leftwich

7-22-98

DATE

6701 Aberdeen Avenue, Ste. 9 · Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

Phone # (505) 748-3311

Project #:

Sampler Signature: Egon Madrid

ORIGINAL COPY

Carrier # ONE57212

Carrier # LOWE'S TRUCK 104344329

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: FCC Catalyst Fines

ESTIMATED VOLUME: 25 Supersacks

GENERATING PROCESS: These are the fine particles from catalyst collected in the cyclones at the FCC Unit during the regeneration process.

REMARKS: This waste has been approved in the past and is generated on a regular basis.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated in 20 yard roll off bins

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 9/23/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Filters

ESTIMATED VOLUME: 30 yards

GENERATING PROCESS: Filters are use to separate solids and other impurities
from amine in our amine unit and sour water in our tail gas unit.

REMARKS: TCLP from Trace Analysis is enclosed.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated in a 20 yard roll off bins

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 9/23/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Tk 116 bottoms

ESTIMATED VOLUME: 10 yards

GENERATING PROCESS: This waste was generated by the cleaning out of Navajo's isobutane tank (Tk116) in order to retrofit it with new valves.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated in a 20 yard roll off bin.

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 9/23/99

TRACE ANALYSIS, INC.

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El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

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915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

August 30, 1999
Receiving Date: 08/13/99
Sample Type: Filter
Project No: N/A
Project Location: N/A

Extraction Date: 8/18/99
Analysis Date: 8/19/99
Sampling Date: 8/12/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	Filter T129820 Conc.	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	95	2	74	95
1,1-Dichloroethene	0.70	0.05	ND	99	2	97	99
Methyl Ethyl Ketone	200.0	0.5	ND	104	2	120	104
Chloroform	6.00	0.05	ND	93	1	90	93
1,2-Dichloroethane	0.50	0.05	ND	91	1	94	91
Benzene	0.50	0.05	ND	104	0	97	104
Carbon Tetrachloride	0.50	0.05	ND	96	2	75	96
Trichloroethene	0.50	0.05	ND	100	0	95	100
Tetrachloroethene	0.70	0.05	ND	86	1	80	86
Chlorobenzene	100.00	0.05	ND	92	1	86	92
1,4-Dichlorobenzene	7.50	0.05	ND	81	1	86	81

SURROGATES	% Recovery
Dibromofluoromethane	92
Toluene-d8	96
4-Bromofluorobenzene	93

ND = Not Detected

METHODS: EPA SW 846-1311, 8260B.
CHEMIST: JG


Director, Dr. Blair Leftwich


DATE

TRACE ANALYSIS, INC.

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ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Byran Madrid
501 E. Main
Artesia, NM 88210

August 30, 1999
Receiving Date: 8/13/99
Sample Type: Filter
Project No: N/A
Project Location: N/A

Extraction Date: 8/20/99
Analysis Date: 8/24/99
Sampling Date: 8/12/99
Sample Condition: Intact
Sample Received by: VW

T129820

Filter

TCLP Semi-Volatile (mg/L)	EPA Limit	Reporting Limit	Filter Condensate Conc.	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	59	13	50	98
1,4-Dichlorobenzene	7.5	0.05	ND	57	5	68	96
o-Cresol	200.0	0.05	ND	62	6	78	103
m,p-Cresol	200.0	0.05	ND	63	9	71	105
Hexachloroethane	3.0	0.05	ND	60	7	68	100
Nitrobenzene	2.0	0.05	ND	57	1	94	95
Hexachlorobutadiene	0.5	0.05	ND	54	12	63	91
2,4,6-Trichlorophenol	2.0	0.05	ND	60	3	96	100
2,4,5-Trichlorophenol	400.0	0.05	ND	60	3	100	101
2,4-Dinitrotoluene	0.13	0.05	ND	67	0	110	112
2,4-D	10.0	0.05	ND	65	3	111	108
Hexachlorobenzene	0.13	0.05	ND	56	3	97	93
2,4,5-TP	1.0	0.05	ND	59	1	107	98
Pentachlorophenol	100.0	0.05	ND	70	1	117	117

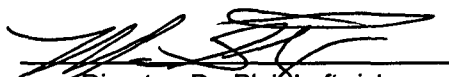
Surrogates

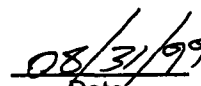
% RECOVERY

2-Fluorophenol	55
Phenol-d6	39
Nitrobenzene-d5	97
2-Fluorobiphenyl	81
2,4,6-Tribromophenol	106
Terphenyl-d14	132

ND - Not Detected

Methods: EPA SW 846-1311, 8270C.
CHEMIST: MA


Director, Dr. Blair Leftwich


Date

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

Project Name: N/A

Sampling Date: 8/12/99

Sample Condition: Intact & Cool

Sample Received by: VW

August 30, 1999

Receiving Date: 08/13/99

Sample Type: Filter

Project No: N/A

Project Location: N/A

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Ba (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Se (mg/L)	Ag (mg/L)	Hg (mg/L)
EPA LIMIT =		5.0	100.0	1.0	5.0	5.0	1.0	5.0	0.20
T129820	Filter	<0.10	<0.10	0.05	0.19	<0.10	0.26	0.15	<0.010
ICV		0.99	1.03	1.07	1.03	1.03	1.01	0.214	0.00537
CCV		0.97	1.00	1.06	1.00	1.02	0.98	0.204	0.00534
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		1	2	3	4	2	2	4	3
% Extraction Accuracy		98	94	99	93	95	100	110	80
% Instrument Accuracy		101	102	106	102	102	99	104	107
PREP DATE		8/18/99	8/18/99	8/18/99	8/18/99	8/18/99	8/18/99	8/18/99	8/16/99
ANALYSIS DATE		8/23/99	8/23/99	8/23/99	8/23/99	8/23/99	8/23/99	8/23/99	8/19/99

METHODS: EPA SW 846-1311, 3015, 6010B, 7470A.

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TCLP METALS SPIKE: 2.0 mg/L Ag 10 mg/L As, Se Cd, Cr, Pb, Ba:

TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag

Hg SPIKE 0.0500 mg/L

Hg CV: 0.00500 mg/L



Director, Dr. Blair Leftwich

08/30/99

Date

TRACE ANALYSIS, INC.

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FAX 915•585•4944

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

August 30, 1999
Receiving Date: 08/13/99
Sample Type: Sludge/Filter
Project No: N/A
Project Location: N/A

Extraction Date: 8/18/99
Analysis Date: 8/19/99
Sampling Date: 8/12/99
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: N/A

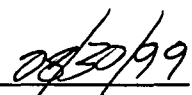
TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	TK116 T129821 Conc.	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	95	2	74	95
1,1-Dichloroethene	0.70	0.05	ND	99	2	97	99
Methyl Ethyl Ketone	200.0	0.5	ND	104	2	120	104
Chloroform	6.00	0.05	ND	93	1	90	93
1,2-Dichloroethane	0.50	0.05	ND	91	1	94	91
Benzene	0.50	0.05	ND	104	0	97	104
Carbon Tetrachloride	0.50	0.05	ND	96	2	75	96
Trichloroethene	0.50	0.05	ND	100	0	95	100
Tetrachloroethene	0.70	0.05	ND	86	1	80	86
Chlorobenzene	100.00	0.05	ND	92	1	86	92
1,4-Dichlorobenzene	7.50	0.05	ND	81	1	86	81

SURROGATES	% Recovery
Dibromofluoromethane	91
Toluene-d8	96
4-Bromofluorobenzene	93

ND = Not Detected

METHODS: EPA SW 846-1311, 8260B.
CHEMIST: JG


Director, Dr. Blair Leftwich


DATE

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ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Byran Madrid

501 E. Main
Artesia, NM 88210

August 30, 1999
Receiving Date: 8/13/99
Sample Type: Sludge/Filter
Project No: N/A
Project Location: N/A

Extraction Date: 8/20/99
Analysis Date: 8/24/99
Sampling Date: 8/12/99
Sample Condition: Intact
Sample Received by: VW

T129821 TK116							
TCLP Semi-Volatile (mg/L)	EPA Limit	Reporting Limit	Condensate Conc.	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	59	13	50	98
1,4-Dichlorobenzene	7.5	0.05	ND	57	5	68	96
o-Cresol	200.0	0.05	ND	62	6	78	103
m,p-Cresol	200.0	0.05	ND	63	9	71	105
Hexachloroethane	3.0	0.05	ND	60	7	68	100
Nitrobenzene	2.0	0.05	ND	57	1	94	95
Hexachlorobutadiene	0.5	0.05	ND	54	12	63	91
2,4,6-Trichlorophenol	2.0	0.05	ND	60	3	96	100
2,4,5-Trichlorophenol	400.0	0.05	ND	60	3	100	101
2,4-Dinitrotoluene	0.13	0.05	ND	67	0	110	112
2,4-D	10.0	0.05	ND	65	3	111	108
Hexachlorobenzene	0.13	0.05	ND	56	3	97	93
2,4,5-TP	1.0	0.05	ND	59	1	107	98
Pentachlorophenol	100.0	0.05	ND	70	1	117	117

Surrogates

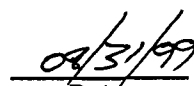
% RECOVERY

2-Fluorophenol	55
Phenol-d6	47
Nitrobenzene-d5	82
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	88
Terphenyl-d14	113

ND - Not Detected

Methods: EPA SW 846-1311, 8270C.
CHEMIST: MA


Director, Dr. Blair Leftwich


Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.

Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Project Name: N/A
Sampling Date: 8/12/99
Sample Condition: Intact & Cool
Sample Received by: VW

August 30, 1999
Receiving Date: 08/13/99
Sample Type: Sludge/Filter
Project No: N/A
Project Location: N/A

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Ba (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Se (mg/L)	Ag (mg/L)	Hg (mg/L)
EPA LIMIT =		5.0	100.0	1.0	5.0	5.0	1.0	5.0	0.20
T129821	TK 116	<0.10	<0.10	<0.02	<0.05	<0.10	<0.10	<0.05	<0.010
ICV		0.99	1.03	1.07	1.03	1.03	1.01	0.214	0.00537
CCV		0.97	1.00	1.06	1.00	1.02	0.98	0.204	0.00534
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		1	2	3	4	2	2	4	3
% Extraction Accuracy		98	94	99	93	95	100	110	80
% Instrument Accuracy		101	102	106	102	102	99	104	107
PREP DATE		8/18/99	8/18/99	8/18/99	8/18/99	8/18/99	8/18/99	8/18/99	8/18/99
ANALYSIS DATE		8/23/99	8/23/99	8/23/99	8/23/99	8/23/99	8/23/99	8/23/99	8/19/99

METHODS: EPA SW 846-1311,3015, 6010B, 7470A.

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TCLP METALS SPIKE: 2.0 mg/L Ag 10 mg/L As, Se Cd, Cr, Pb, Ba:

TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag

Hg SPIKE 0.0500 mg/L

Hg CV: 0.00500 mg/L


Director, Dr. Blair Leftwich


Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING

Attention: Bryan Madrid
 501 E. Main
 Artesia, NM 88210

Extraction Date: 08/24/99
 Analysis Date: 08/24/99
 Sampling Date: 08/12/99
 Sample Condition: Intact & Cool
 Sample Received by: VW
 Project Name: N/A

August 30, 1999
 Receiving Date: 08/13/99
 Sample Type: Sludge/Filter
 Project No: N/A
 Project Location: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY (mm/y)	pH (s.u.)	IGNITABILITY
	EPA LIMIT =		500	250	>6.5 mm/yr.	<2 >12.5	---
T129820	Filter	Non-reactive	<10	120	Non-corrosive	5.73	Nonignitable
T129821	TK116	Non-reactive	<10	<2.5	Non-corrosive	5.03	Nonignitable
QC	Quality Control	---	---	---	---	---	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		100	100	80	100	100	100

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
 CHEMIST: JM


 Director, Dr. Blair Leftwich

08/30/99
 DATE

**4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443**

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #: 99081307

ANALYSIS REQUEST
(Circle or Specify Method No)

[illegible]

Relinquished by: <i>By: [Signature]</i>	Date: <i>8/12/99</i>	Time: <i>6:55</i>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: <i>D. Ch. Velmacka</i>	Date: <i>8-13-99</i>	Time: <i>9:00am</i>

LAB USE ONLY	Intact	☒ Y ☐ N
	Headspace	☐ Y ☒ N
	Temp	<u>10</u> °C
	Log-In Review <i>[Signature]</i>	

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

Carrier # Fed Ex 259 4616 227

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Asphalt sample cans

ESTIMATED VOLUME: 10 drums

GENERATING PROCESS: Asphalt samples are taken on a daily basis. After an asphalt sample has been removed from the can for analysis, the contaminated can is put into a barrel until approved for disposal.

REMARKS: This waste has been OCD approved in the past and is generated on a regular basis.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 9/23/99

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
511 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-
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Submit On
Plus 1
to appor
District C

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NOV 05 1999

Environmental Bureau
Oil Conservation Division
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☒ 11-5-99 2:05 pm MJK	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Lea Refining Co. Lovington Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia	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:

10-004 Cooling Tower Sludge. Dirt and scale are accumulated in the bottom of the cooling tower during normal operation. Bottom of cooling tower cleaned out during turnaround. Enclosing analysis and Certificate of Waste Status.

10 yards.

10-005 Blast Media. Heater (H-101) was sandblasted during turnaround. Enclosing analysis and Certificate of Waste Status.

10 yards.

10-006 Coke and steel trays were removed from the vacuum tower (T-501) during turnaround. Enclosing analysis and Certificate of Waste Status.

30 yards.

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 10-25-99
Waste Management Facility Authorized Agent
Kath Harper
TYPE OR PRINT NAME: _____ TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 11-2-99

APPROVED BY: Martyn J. Kuj TITLE: Environmental Geologist DATE: 11/5/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Lea Refining Company

COUNTY: Lea

STATE: NM

TYPE OF WASTE: Blast media

ESTIMATED VOLUME: 10 yards

GENERATING PROCESS: Heater (H-101) was sandblasted during turnaround.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land, Inc.

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: *Bryan Madrid*
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 10/22/99



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main
Artesia, NM 88209

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Solid

Project #: N/A

Project Location: Lovington, New Mexico

Extraction Date: 10/06/99

Analysis Date: 10/09/99

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T132778 H-101 Blast Media	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	95	2	108	95
1,1-Dichloroethene	0.70	0.05	ND	100	2	102	100
Methyl Ethyl Ketone	200.0	0.5	ND	108	3	98	108
Chloroform	6.00	0.05	ND	103	0	106	103
1,2-Dichloroethane	0.50	0.05	ND	102	0	115	102
Benzene	0.50	0.05	ND	102	0	104	102
Carbon Tetrachloride	0.50	0.05	ND	101	8	90	101
Trichloroethene	0.50	0.05	ND	100	1	98	100
Tetrachloroethene	0.70	0.05	ND	99	1	98	99
Chlorobenzene	100.00	0.05	ND	101	1	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	107	1	108	107

SURROGATES

% Recovery

Dibromofluoromethane 110
Toluene-d8 103
4-Bromofluorobenzene 96

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG



Director, Dr. Blair Leftwich

10-14-99
Date



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4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Solid
Project #: N/A
Project Location: Lovington, New Mexico

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Darrell Moore
501 E. Main
Artesia, NM 88210

Extraction Date: 10/06/99
Analysis Date: 10/07/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T132778 H-101 Blast Media	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	58	1	69	97
1,4-Dichlorobenzene	7.5	0.05	ND	60	3	74	99
o-Cresol	200.0	0.05	ND	60	10	92	101
m,p-Cresol	200.0	0.05	ND	61	13	85	101
Hexachloroethane	3.0	0.05	ND	59	2	75	99
Nitrobenzene	2.0	0.05	ND	61	3	113	101
Hexachlorobutadiene	0.5	0.05	ND	60	4	83	100
2,4,6-Trichlorophenol	2.0	0.05	ND	60	6	113	101
2,4,5-Trichlorophenol	400.0	0.05	ND	63	4	124	105
2,4-Dinitrotoluene	0.13	0.05	ND	70	0	148	117
2,4-Dichlorophenoxyacetic acid	10.0	0.05	0.06	70	0	129	117
Hexachlorobenzene	0.13	0.05	ND	61	8	135	102
2,4,5-TP	1.0	0.05	0.06	58	15	118	113
Pentachlorophenol	100.0	0.05	ND	57	2	129	94

SURROGATES	% Recovery
2-Fluorophenol	133
Phenol-d6	150
Nitrobenzene-d5	147
2-Fluorobiphenyl	181
2,4,6-Tribromophenol	218
Terphenyl-d14	197

*Surrogate added to sample twice with divisor; sample is still in control limits.

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA

Director, Dr. Blair Leftwich

10-14-99

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888-588-3443 915-585-3443 FAX 915-585-4944
 E-Mail: lab@traceanalysis.com

Sampling Date: 10/04/99
 Sample Condition: I & C
 Sample Received by: VW
 Project Name: N/A

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88209

October 14, 1999
 Receiving Date: 10/05/99
 Sample Type: Solid
 Project #: N/A

Project Location: Lovington, New Mexico

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
T132778	H-101 Blast Media	5.0 <0.20	100 <0.20	1.0 <0.20	5.0 0.49	5.0 <0.20	1.0 <0.20	5.0 <0.20	0.20 <0.010
ICV		1.08	1.10	2.20	1.09	1.09	1.08	0.216	0.0056
CCV		0.92	0.96	1.96	0.96	0.95	0.92	0.182	0.0059
REPORTING LIMIT		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.010
RPD		1	1	1	1	1	2	5	2
% Extraction Accuracy		108	106	104	109	104	102	105	88
% Instrument Accuracy		100	103	104	103	102	100	99	116

EXTRACTION DATE: 10/06/99 10/06/99 10/06/99 10/06/99 10/06/99 10/06/99 10/05/99
 ANALYSIS DATE: 10/08/99 10/08/99 10/08/99 10/08/99 10/08/99 10/08/99 10/12/99

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Se, Pb, Ba, Cr: 2.0 mg/L Cd 0.20 mg/L Ag Hg CV: 0.0050 mg/L

BB

10-14-99

Director, Dr. Blair Leftwich

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Byran Madrid

501 E. Main

Artesia, NM 88210

Extraction Date: 10/13/99

Analysis Date: 10/13/99

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Solid

Project #: N/A

Project Location: Lovington, New Mexico

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
T132778	EPA LIMIT = H-101 Blast Media	---	500	250	---	<2 >12.5	---
		Non-reactive	<10	<2.5	Non-corrosive	7.12	Non-Ignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM

BZ

Director, Dr. Blair Leftwich

10-14-99

Date

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #: 9-113300

Phone #:

Phone #:

Fax #:

BRAN MARI

(if different from above)

Project Name:

Louisa Gustaw

Sampler Signature:

LAB #	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING	
				WATER	soil AIR	SLUDGE	HCL	HNO3	ICE	NONE	DATE	TIME	
32774	T-101	1	1 L			X			X	X	X	10-4-99	9:30A
75	T-501	1	1 L			X				X	X		
76	D-101	1	1 L			X				X	X		
77	CT-1201	1	1 L			X				X	X		
78	14-101 BIAST Media	1	1 L			X				X	X		

[illegible]

REMARKS:

LAB USE

ONLY

100

⑤

space, 2 Y 15

2

Review 5

1

1

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-13
Originated 8/8/

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NOV 05 1999

Environmental Bureau
Oil Conservation Division

Submit Origin
Plus 1 Co
to appropriate
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☒ 11-5-99 2:05 PM Myk	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 E. Main St.	
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Injection well filters. Filters are used to separate solids and other impurities before wastewater is sent to injection wells
TCLP from Trace Analysis is enclosed, along with a Certificate of Waste

10-003

Estimated Volume 10 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 10-25-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 11-2-99

APPROVED BY: Mortimer J. Embury TITLE: Environmental Geologist DATE: 11-5-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Filters

ESTIMATED VOLUME: 10 yards

GENERATING PROCESS: Filters are use to separate solids and other impurities before wastewater is sent to the injection wells.

REMARKS: TCLP from Trace Analysis is enclosed.

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated in a 20 yard roll off bin

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 10/22/99



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
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915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO,
Attention: Byran Madrid
501 E. Main
Artesia, NM 88210

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Filter
Project #: N/A
Project Location: N/A

Extraction Date: 10/06/99
Analysis Date: 10/09/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T132779 Inject Well Filer	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	95	2	108	95
1,1-Dichloroethene	0.70	0.05	ND	100	2	102	100
Methyl Ethyl Ketone	200.0	0.5	ND	108	3	98	108
Chloroform	6.00	0.05	ND	103	0	106	103
1,2-Dichloroethane	0.50	0.05	ND	102	0	115	102
Benzene	0.50	0.05	ND	102	0	104	102
Carbon Tetrachloride	0.50	0.05	ND	101	8	90	101
Trichloroethene	0.50	0.05	ND	100	1	98	100
Tetrachloroethene	0.70	0.05	ND	99	1	98	99
Chlorobenzene	100.00	0.05	ND	101	1	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	107	1	108	107

SURROGATES

% Recovery

Dibromofluoromethane 113
Toluene-d8 105
4-Bromofluorobenzene 94

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG

Director, Dr. Blair Leftwich

10-14-99

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424
El Paso, Texas 79922

800•378•1296
888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Filter
Project #: N/A
Project Location: N/A

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Byran Madrid
501 E. Main
Artesia, NM 88210

Extraction Date: 10/06/99
Analysis Date: 10/07/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA	Reporting	T132779				
	LIMIT	Limit	Inject Well Filter	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	58	1	69	97
1,4-Dichlorobenzene	7.5	0.05	ND	60	3	74	99
o-Cresol	200.0	0.05	ND	60	10	92	101
m,p-Cresol	200.0	0.05	ND	61	13	85	101
Hexachloroethane	3.0	0.05	ND	59	2	75	99
Nitrobenzene	2.0	0.05	ND	61	3	113	101
Hexachlorobutadiene	0.5	0.05	ND	60	4	83	100
2,4,6-Trichlorophenol	2.0	0.05	ND	60	6	113	101
2,4,5-Trichlorophenol	400.0	0.05	ND	63	4	124	105
2,4-Dinitrotoluene	0.13	0.05	ND	70	0	148	117
2,4-D	10.0	0.05	ND	70	0	129	117
Hexachlorobenzene	0.13	0.05	ND	61	8	135	102
2,4,5-TP	1.0	0.05	ND	58	15	118	113
Pentachlorophenol	100.0	0.05	ND	57	2	129	94

SURROGATES

% Recovery

2-Fluorophenol
Phenol-d6
Nitrobenzene-d5
2-Fluorobiphenyl
2,4,6-Tribromophenol
Terphenyl-d14

61
41
107
103
109
100

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA


Director, Dr. Blair Leftwich

10-14-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79972 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Filter

Project No: N/A

Project Location: N/A

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.,

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
T132779	EPA LIMIT = Inject Well Filter	5.0 <0.20	100 <0.20	1.0 <0.20	5.0 <0.20	5.0 <0.20	1.0 <0.20	5.0 <0.20	0.20 <0.010
ICV		1.08	1.10	2.20	1.09	1.09	1.08	0.216	0.0056
CCV		0.92	0.96	1.96	0.96	0.95	0.92	0.182	0.0059
REPORTING LIMIT		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.010
RPD		1	1	1	1	1	2	5	2
% Extraction Accuracy		108	106	104	109	104	102	105	88
% Instrument Accuracy		100	103	104	103	102	100	99	116
PREP DATE		10/06/99	10/06/99	10/06/99	10/06/99	10/06/99	10/06/99	10/06/99	10/05/99
ANALYSIS DATE		10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/12/99

METHODS: EPA 846-6010B, 3015, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: JM Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 0.20 mg/L Ag, Hg SPIKE: 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Se, Cr, Pb, Ba: Cd: 2.0 mg/L Ag: 0.20 mg/L Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

10-14-99

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296 806•794•1296
El Paso, Texas 79922 888•588•3443 915•585•3443
E-Mail: lab@traceanalysis.com

FAX 806•794•1298
FAX 915•585•4944

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Filter

Project #: N/A

Project Location: N/A

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Byran Madrid

501 E. Main

Artesia, NM 88209

Extraction Date: 10/13/99

Analysis Date: 10/13/99

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
T132779	EPA LIMIT =	---	500	250	---	<2 >12.5	---
	Inject Well Filter	Non-reactive	<10	<2.5	Non-corrosive	7.97	Non-Ignitable
	RPD	0	0	0	0	0	0
	% Extraction Accuracy	100	100	100	100	100	100
	% Instrument Accuracy	---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM



Director, Dr. Blair Leftwich

10-14-99

Date

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
511 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-
Originated 8

Submit Or.
Plus 1
to appor
District C

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NOV 05 1999
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☒ 11-5-99 2:05 pm MJK	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Lea Refining Co. Lovington Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia	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:

10-004 Cooling Tower Sludge. Dirt and scale are accumulated in the bottom of the cooling tower during normal operation. Bottom of cooling tower cleaned out during turnaround. Enclosing analysis and Certificate of Waste Status.
10 yards.

10-005 Blast Media. Heater (H-101) was sandblasted during turnaround. Enclosing analysis and Certificate of Waste Status.
10 yards.

10-006 Coke and steel trays were removed from the vacuum tower (T-501) during turnaround. Enclosing analysis and Certificate of Waste Status.
30 yards.

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 10-25-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 11-2-99
APPROVED BY: Martyn J. Kuf. TITLE: Environmental Geologist DATE: 11/5/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Lea Refining Company

COUNTY: Lea

STATE: NM

TYPE OF WASTE: Coke and steel trays

ESTIMATED VOLUME: 30 yards

GENERATING PROCESS: Coke and trays were removed from the vacuum tower (T-501) during turnaround.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land, Inc.

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 10/22/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

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El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

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915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88209

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Sludge

Project #: N/A

Project Location: Lovington, New Mexico

Extraction Date: 10/05/99

Analysis Date: 10/09/99

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T132775 T-501	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	95	2	108	95
1,1-Dichloroethene	0.70	0.05	ND	100	2	102	100
Methyl Ethyl Ketone	200.0	0.5	ND	108	3	98	108
Chloroform	6.00	0.05	ND	103	0	106	103
1,2-Dichloroethane	0.50	0.05	ND	102	0	115	102
Benzene	0.50	0.05	ND	102	0	104	102
Carbon Tetrachloride	0.50	0.05	ND	101	8	90	101
Trichloroethene	0.50	0.05	ND	100	1	98	100
Tetrachloroethene	0.70	0.05	ND	99	1	98	99
Chlorobenzene	100.00	0.05	ND	101	1	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	107	1	108	107

SURROGATES

% Recovery

Dibromofluoromethane 104
Toluene-d8 103
4-Bromofluorobenzene 97

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG



Director, Dr. Blair Leftwich

10-14-99

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Sludge
Project #: N/A
Project Location: Lovington, New Mexico

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Darrell Moore
501 E. Main
Artesia, NM 88210

Extraction Date: 10/06/99
Analysis Date: 10/07/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T132775 T-501	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	58	1	69	97
1,4-Dichlorobenzene	7.5	0.05	ND	60	3	74	99
o-Cresol	200.0	0.05	ND	60	10	92	101
m,p-Cresol	200.0	0.05	ND	61	13	85	101
Hexachloroethane	3.0	0.05	ND	59	2	75	99
Nitrobenzene	2.0	0.05	ND	61	3	113	101
Hexachlorobutadiene	0.5	0.05	ND	60	4	83	100
2,4,6-Trichlorophenol	2.0	0.05	ND	60	6	113	101
2,4,5-Trichlorophenol	400.0	0.05	ND	63	4	124	105
2,4-Dinitrotoluene	0.13	0.05	ND	70	0	148	117
2,4-Dichlorophenoxyacetic acid	10.0	0.05	ND	70	0	129	117
Hexachlorobenzene	0.13	0.05	ND	61	8	135	102
2,4,5-TP	1.0	0.05	ND	58	15	118	113
Pentachlorophenol	100.0	0.05	ND	57	2	129	94

SURROGATES

% Recovery

2-Fluorophenol
Phenol-d6
Nitrobenzene-d5
2-Fluorobiphenyl
2,4,6-Tribromophenol
Terphenyl-d14

64
42
110
113
122
105

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA


Director, Dr. Blair Leftwich

10-14-99
Date



TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Sludge

Project #: N/A

Project Location: Lovington, New Mexico

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88209

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
EPA LIMIT =									
T132774	T-101	5.0	100	1.0	5.0	5.0	1.0	5.0	0.20
T132775	T-501	<0.20	0.54	<0.20	<0.20	<0.20	<0.20	<0.20	<0.010
		<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.010
ICV		1.08	1.10	2.20	1.09	1.09	1.08	0.216	0.0056
CCV		0.92	0.96	1.96	0.96	0.95	0.92	0.182	0.0059
REPORTING LIMIT		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.010
RPD		1	1	1	1	1	2	5	2
% Extraction Accuracy		108	106	104	109	104	102	105	88
% Instrument Accuracy		100	103	104	103	102	100	99	116
EXTRACTION DATE:		10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99
ANALYSIS DATE:		10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/12/99

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Se, Pb, Ba, Cr: 2.0 mg/L Cd 0.20 mg/L Ag Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

10-14-99

Date



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Sludge

Project #: N/A

Project Location: Lovington, New Mexico

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Byran Madrid

501 E. Main

Artesia, NM 88210

Extraction Date: 10/13/99

Analysis Date: 10/13/99

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
-----	------------	------------	-------------------	-------------------	-------------	--------------	--------------

EPA LIMIT =

T132774	T-101	---	500	250	---	<2 >12.5	---
T132775	T-501	Non-reactive	<10	<2.5	Non-corrosive	6.26	Non-Ignitable
T132776	D-101	Non-reactive	<10	<2.5	Non-corrosive	10.08	Non-Ignitable
T132777	CT-1201	Non-reactive	<10	<2.5	Non-corrosive	6.34	Non-Ignitable
			120	50	Non-corrosive	7.60	Non-Ignitable

RPD

% Extraction Accuracy

% Instrument Accuracy

0	0	0	0	0
100	100	100	100	100
---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM

Director, Dr. Blair Leftwich

10-14-99

Date

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

TraceAnalysis, Inc.

Company Name: NAVALOREFINING-LEA Phone #: 505-749-3311
Address: _____ Fax #: _____
(Street, City, Zip)

Contact Person: Bryan Madrid

voice to:
different from above)

project #:

Project Name:

Sampler Signature: Blueberry PRESERVATIVE

Project Location: Louisa, GA

[illegible]

Relinquished by:	Date:	Time:
SP Terry	10-4-99	9:30 AM.
Relinquished by:	Date:	Time:
Relinquished by:	Date:	Time:

Received by:	Date:	Time:
Received by:	Date:	Time:
Received at Laboratory by:	Date:	Time:

Received at Laboratory by: W. J. Dandk. Date: 10-5-59 Time: 9:00m

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

AB Order ID # C9100506

ANALYSIS REQUEST
Circle or Specify Method No.[illegible]

REMARKS:

LAB USE ONLY

Contact	YN
Headspace	YN
Temp	28°C
Log-In Review	<i>[Signature]</i>

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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-13
Originated 8/8/

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NOV 05 1999

Environmental Bureau
Oil Conservation Division

Submit Origin
Plus 1 Co
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☒ 11-5-99 2:05pm MJK	4. Generator Navajo Refining Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Lea Refining Co. Lovington Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Lea Land
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. Main, Artesia	New Mexico
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

10-004 Cooling Tower Sludge. Dirt and scale are accumulated in the bottom of the cooling tower during normal operation. Bottom of cooling tower cleaned out during turnaround. Enclosing analysis and Certificate of Waste Status.
10 yards.

10-005 Blast Media. Heater (H-101) was sandblasted during turnaround. Enclosing analysis and Certificate of Waste Status.
10 yards.

10-006 Coke and steel trays were removed from the vacuum tower (T-501) during turnaround. Enclosing analysis and Certificate of Waste Status.
30 yards.

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 10-25-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 11-2-99

APPROVED BY: Martyn J. Kil TITLE: Environmental Geologist DATE: 11/5/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Lea Refining Company

COUNTY: Lea

STATE: NM

TYPE OF WASTE: Cooling tower sludge

ESTIMATED VOLUME: 10 yards

GENERATING PROCESS: Dirt and scale are accumulated in the bottom of the cooling tower during normal operation. Bottom of cooling tower cleaned out during turnaround.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land, Inc.

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 10/22/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main
Artesia, NM 88209

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Sludge

Project #: N/A

Project Location: Lovington, New Mexico

Extraction Date: 10/06/99

Analysis Date: 10/09/99

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T132777 CT-1201	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	95	2	108	95
1,1-Dichloroethene	0.70	0.05	ND	100	2	102	100
Methyl Ethyl Ketone	200.0	0.5	ND	108	3	98	108
Chloroform	6.00	0.05	ND	103	0	106	103
1,2-Dichloroethane	0.50	0.05	ND	102	0	115	102
Benzene	0.50	0.05	ND	102	0	104	102
Carbon Tetrachloride	0.50	0.05	ND	101	8	90	101
Trichloroethene	0.50	0.05	ND	100	1	98	100
Tetrachloroethene	0.70	0.05	ND	99	1	98	99
Chlorobenzene	100.00	0.05	ND	101	1	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	107	1	108	107

SURROGATES

% Recovery

Dibromofluoromethane 109
Toluene-d8 105
4-Bromofluorobenzene 94

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG



Director, Dr. Blair Leftwich

10-14-99

Date



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Sludge
Project #: N/A
Project Location: Lovington, New Mexico

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Darrell Moore
501 E. Main
Artesia, NM 88210

Extraction Date: 10/06/99
Analysis Date: 10/07/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T132777 CT-1201	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	58	1	69	97
1,4-Dichlorobenzene	7.5	0.05	ND	60	3	74	99
o-Cresol	200.0	0.05	ND	60	10	92	101
m,p-Cresol	200.0	0.05	ND	61	13	85	101
Hexachloroethane	3.0	0.05	ND	59	2	75	99
Nitrobenzene	2.0	0.05	ND	61	3	113	101
Hexachlorobutadiene	0.5	0.05	ND	60	4	83	100
2,4,6-Trichlorophenol	2.0	0.05	ND	60	6	113	101
2,4,5-Trichlorophenol	400.0	0.05	ND	63	4	124	105
2,4-Dinitrotoluene	0.13	0.05	ND	70	0	148	117
2,4-Dichlorophenoxyacetic acid	10.0	0.05	ND	70	0	129	117
Hexachlorobenzene	0.13	0.05	ND	61	8	135	102
2,4,5-TP	1.0	0.05	ND	58	15	118	113
Pentachlorophenol	100.0	0.05	ND	57	2	129	94

SURROGATES

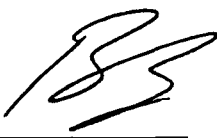
% Recovery

2-Fluorophenol	51
Phenol-d6	32
Nitrobenzene-d5	102
2-Fluorobiphenyl	97
2,4,6-Tribromophenol	119
Terphenyl-d14	104

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA



Director, Dr. Blair Leftwich

10-14-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

FAX 806•794•1298
FAX 915•585•4944

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Sludge

Project #: N/A

Project Location: Lovington, New Mexico

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88209

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
T132777	EPA LIMIT = CT-1201	5.0 <0.20	100 0.35	1.0 <0.20	5.0 <0.20	5.0 <0.20	1.0 <0.20	5.0 <0.20	0.20 <0.010
ICV		1.08	1.10	2.20	1.09	1.09	1.08	0.216	0.0056
CCV		0.92	0.96	1.96	0.96	0.95	0.92	0.182	0.0059
REPORTING LIMIT		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.010
RPD		1	1	1	1	1	2	5	2
% Extraction Accuracy		108	106	104	109	104	102	105	88
% Instrument Accuracy		100	103	104	103	102	100	99	116

EXTRACTION DATE:

ANALYSIS DATE:

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Se, Pb, Ba, Cr: 2.0 mg/L Cd 0.20 mg/L Ag Hg CV: 0.0050 mg/L

BB

10-14-99

Director. Dr. Blair Leftwich

Date



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79972 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

October 14, 1999
Receiving Date: 10/05/99
Sample Type: Sludge
Project #: N/A
Project Location: Lovington, New Mexico

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Byran Madrid

501 E. Main

Artesia, NM 88210

Extraction Date: 10/13/99
Analysis Date: 10/13/99
Sampling Date: 10/04/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
EPA LIMIT =							
T132774	T-101	Non-reactive	<10	<2.5	Non-corrosive	6.26	Non-Ignitable
T132775	T-501	Non-reactive	<10	<2.5	Non-corrosive	10.08	Non-Ignitable
T132776	D-101	Non-reactive	<10	<2.5	Non-corrosive	6.34	Non-Ignitable
T132777	CT-1201	Non-reactive	120	50	Non-corrosive	7.60	Non-Ignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
CHEMIST: JM

Director, Dr. Blair Leftwich

10-14-99

Date

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 941W306

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

REMARKS:

LAB USE ONLY	Y/N	Y/N	Temp	Log-In Review
	Y	N	8°C	7/03

Company Name: NAVALO BEGINING - LEA Phone #: 505-748-3311
Address: (Street, City, Zip) _____ Fax #: _____
Contact Person: BARAN MADRID
Invoice to: _____
(different from above)
Project #: _____
Project Name: _____

[illegible]

Relinquished by: <i>Sherry</i>	Date: <i>10-4-99</i>	Time: <i>9:30 AM</i>	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: <i>W. W. Wink</i>	Date: <i>10-5-99</i>	Time: <i>9:00 AM</i>

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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
DEC 01 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator NAVAJO REFINING CO.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 501 E. MAIN, ARTESIA, NM
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter CRI & LEA LAND, INC.
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 E. MAIN ARTESIA, NM 88211	
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:

COOLING TOWER SLUDGE AND DEBRIS GENERATED FROM THE CLEANING OUT OF THE BOTTOM OF THE COOLING TOWER, AND THE DEBRIS FROM THE CHANGING OUT OF BOARDS IN AND ON THE COOLING TOWER DURING TURNAROUND. I AM ENCLOSING ANALYTICAL, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

11-002

500 BBLS. SLUDGE
10 YARDS DEBRIS
Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 11-29-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Danna Williams TITLE: Environmental Eng Specialist DATE: 11-30-99
APPROVED BY: Monty J. Krich TITLE: Environmental Geologist DATE: 12-3-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Cooling tower sludge and debris

ESTIMATED VOLUME: 500 bbl (sludge) and 10 yards (debris)

GENERATING PROCESS: Sludge is from the cleaning out of the bottom of the cooling tower, and the debris from the changing out of boards in and on the cooling tower during turnaround.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: CRI and Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: _____

SIGNATURE

NAME: BRYAN MADRID

PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: _____

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

Extraction Date: 11/07/99
Analysis Date: 11/08/99
Sampling Date: 11/02/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

November 16, 1999
Receiving Date: 11/03/99
Sample Type: Sludge
Project #: N/A
Project Location: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T134786 S.P. Coolong Tower	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	105	4	107	105
1,1-Dichloroethene	0.70	0.05	ND	97	2	133	97
Methyl Ethyl Ketone	200.0	0.5	ND	113	3	104	113
Chloroform	6.00	0.05	ND	87	1	100	87
1,2-Dichloroethane	0.50	0.05	ND	80	0	88	80
Benzene	0.50	0.05	0.08	107	2	125	107
Carbon Tetrachloride	0.50	0.05	ND	102	0	115	102
Trichloroethene	0.50	0.05	ND	103	0	119	103
Tetrachloroethene	0.70	0.05	ND	111	4	128	111
Chlorobenzene	100.00	0.05	ND	99	2	108	99
1,4-Dichlorobenzene	7.50	0.05	ND	98	1	106	98

SURROGATES	% Recovery
Dibromofluoromethane	87
Toluene-d8	107
4-Bromofluorobenzene	98

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG



Director, Dr. Blair Leftwich

11-16-99

Date



TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

November 16, 1999
Receiving Date: 11/03/99
Sample Type: Sludge
Project #: N/A
Project Location: N/A

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Darrell Moore
501 E. Main
Artesia, NM 88210

Extraction Date: 11/03/99
Analysis Date: 11/04/99
Sampling Date: 11/02/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T134786 S.P. Cooling Tower	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	66	1	39	109
1,4-Dichlorobenzene	7.5	0.05	ND	63	2	50	104
o-Cresol	200.0	0.05	ND	59	2	47	98
m,p-Cresol	200.0	0.05	ND	59	3	44	98
Hexachloroethane	3.0	0.05	ND	63	1	51	105
Nitrobenzene	2.0	0.05	ND	63	3	65	105
Hexachlorobutadiene	0.5	0.05	ND	65	2	56	108
2,4,6-Trichlorophenol	2.0	0.05	ND	62	3	58	103
2,4,5-Trichlorophenol	400.0	0.05	ND	59	2	60	98
2,4-Dinitrotoluene	0.13	0.05	ND	68	9	63	113
2,4-Dichlorophenoxyacetic acid	10.0	0.05	ND	68	10	69	113
Hexachlorobenzene	0.13	0.05	ND	64	4	75	107
2,4,5-TP	1.0	0.05	ND	66	4	80	110
Pentachlorophenol	100.0	0.05	ND	63	5	68	104

SURROGATES	% Recovery
2-Fluorophenol	48
Phenol-d6	32
Nitrobenzene-d5	70
2-Fluorobiphenyl	70
2,4,6-Tribromophenol	86
Terphenyl-d14	73

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA



Director, Dr. Blair Leftwich

11-16-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424
El Paso, Texas 79922

800•378•1296
888•588•3443

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

November 16, 1999

Receiving Date: 11/03/99

Sample Type: Sludge

Project #: N/A

Project Location: N/A

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

Sampling Date: 11/02/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
EPA LIMIT =									
T134785	TK 435	5.0	100	1.0	5.0	5.0	1.0	5.0	0.20
T134786	S.P. Cooling Tower	0.13	<0.10	<0.02	0.05	<0.10	<0.10	<0.05	<0.010
		<0.10	<0.10	<0.02	<0.05	<0.10	<0.10	<0.05	<0.010
ICV		0.99	20.3	0.50	1.00	2.48	2.47	0.99	0.00517
CCV		0.98	20.4	0.50	1.00	2.48	2.47	0.99	0.00526
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		1	1	1	0	1	1	4	1
% Extraction Accuracy		97	84	99	103	99	89	98	86
% Instrument Accuracy		98	101	100	100	99	99	99	104

EXTRACTION DATE:

ANALYSIS DATE:

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 1.20 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Ag, Cr, 20 mg/L Ba; 0.50 mg/L Cd; 2.50 mg/L Se, Pb; Hg CV: 0.0050 mg/L

[Signature]

Director, Dr. Blair Leftwich

11-16-99

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

November 16, 1999

Receiving Date: 11/03/99

Sample Type: Sludge

Project #: N/A

Project Location: N/A

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

Extraction Date: 11/15/99

Analysis Date: 11/15/99

Sampling Date: 11/02/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
EPA LIMIT =							
T134785	TK 435	Non-reactive	<10	10	Non-corrosive	7.73	Non-Ignitable
T134786	S.P. Cooling Tower	Non-reactive	100	30	Non-corrosive	6.21	Non-Ignitable
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	95	100	100	100	100
% Instrument Accuracy		---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM



Director, Dr. Blair Leftwich

11-16-99

Date

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

Company Name:	NAVAJO REFINING Co.	Phone #:	(505) 748-3311
Address:	(Street, City, Zip)	Fax #:	
	SOI E- MAIN		(505) 748-9077
Contact Person:	BEYAN MARRIO		
Invoice to:			
(If different from above)			
Project #:		Project Name:	

[illegible]

Relinquished by: <i>Bryan M. ...</i>	Date: 11/2/99	Time: 16:15	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: <i>Jack Windham</i>	Date: 11-3-99	Time: 10:30 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

LAB USE ONLY	Intact	<u>Y</u> / <u>N</u>
	Headspace	<u>Y</u> / <u>N</u>
	Temp	<u>-2°</u>
	Log-in Review	<u>mb</u>

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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-1
Originated 8/8

Submit Orig:
Plus 1 C
to appropriate
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator NAVAJO REFINING CO.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site ARTESIA FACILITY
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter LEA LAND, INC.
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. MAIN ARTESIA	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:

12-007 (6) 55 gallon drums

Waste generated from the cleaning out of the crude tower (T-101) during turn around.

I am enclosing analytical, Chain of Custody, and a Certificate of waste, as well as letter of explanation from Bryan Madrid of Navajo.

12-008 30 yards

Hydrocarbon contaminated soil and debris coming from various spill clean ups from around the plant during turnaround.

I am enclosing analytical, Chain of Custody and Certificate of Waste.

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

SIGNATURE: KATH HARPER TITLE: BOOKKEEPER DATE: 12-10-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 12-15-99
APPROVED BY: [Signature] TITLE: Env. Bureau Chief DATE: 12/22/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Lea Refining Company

COUNTY: Lea

STATE: NM

TYPE OF WASTE: Hydrocarbon contaminated soil and debris

ESTIMATED VOLUME: 30 yards

GENERATING PROCESS: Soil and debris came from various spill clean ups
from around the plant during turnaround.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land Incorporated

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: *Bryan Madrid*
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 12/8/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid
501 E. Main
Artesia, NM 88210

November 23, 1999
Receiving Date: 11/04/99
Sample Type: Soil
Project #: N/A
Project Location: Lovington, Texas

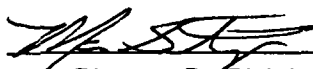
Extraction Date: 11/07/99
Analysis Date: 11/08/99
Sampling Date: 11/03/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T134823 Contaminated Debris & Soil	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	105	4	107	105
1,1-Dichloroethene	0.70	0.05	ND	97	2	133	97
Methyl Ethyl Ketone	200.0	0.5	ND	113	3	104	113
Chloroform	6.00	0.05	ND	87	1	100	87
1,2-Dichloroethane	0.50	0.05	ND	80	0	88	80
Benzene	0.50	0.05	0.13	107	2	125	107
Carbon Tetrachloride	0.50	0.05	ND	102	0	115	102
Trichloroethene	0.50	0.05	ND	103	0	119	103
Tetrachloroethene	0.70	0.05	ND	111	4	128	111
Chlorobenzene	100.00	0.05	ND	99	2	108	99
1,4-Dichlorobenzene	7.50	0.05	ND	98	1	106	98

SURROGATES	% Recovery
Dibromofluoromethane	87
Toluene-d8	106
4-Bromofluorobenzene	98

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG


Director, Dr. Blair Leftwich

11/23/99
Date

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

November 23, 1999
Receiving Date: 11/04/99
Sample Type: Soil
Project #: N/A
Project Location: Lovington, Texas

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Darrell Moore
501 E. Main
Artesia, NM 88210

Extraction Date: 11/09/99
Analysis Date: 11/10/99
Sampling Date: 11/03/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T134823 Contaminated Debris & Soil	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	68	*82	14	113
1,4-Dichlorobenzene	7.5	0.05	ND	63	9	58	105
o-Cresol	200.0	0.05	ND	65	19	51	109
m,p-Cresol	200.0	0.05	ND	66	17	47	110
Hexachloroethane	3.0	0.05	ND	62	10	56	104
Nitrobenzene	2.0	0.05	ND	63	8	76	105
Hexachlorobutadiene	0.5	0.05	ND	63	4	68	104
2,4,6-Trichlorophenol	2.0	0.05	ND	60	8	73	99
2,4,5-Trichlorophenol	400.0	0.05	ND	60	8	74	100
2,4-Dinitrotoluene	0.13	0.05	ND	65	7	82	108
2,4-Dichlorophenoxyacetic acid	10.0	0.05	ND	64	6	94	106
Hexachlorobenzene	0.13	0.05	ND	63	3	99	106
2,4,5-TP	1.0	0.05	ND	59	1	97	98
Pentachlorophenol	100.0	0.05	ND	54	15	58	90

SURROGATES

% Recovery

2-Fluorophenol	48
Phenol-d6	28
Nitrobenzene-d5	85
2-Fluorobiphenyl	81
2,4,6-Tribromophenol	102
Terphenyl-d14	90

*RPD out of range. Reported data as no analyte appeared in sample.

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA

Director, Dr. Blair Leftwich

11/24/99
Date

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296 808•794•1296 FAX 808•794•1298
El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

November 23, 1999

Receiving Date: 11/04/99

Sample Type: Soil

Project #: N/A

Project Location: Lovington, Texas

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88210

Sampling Date: 11/03/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
T134823	Contaminated Debris & Soil	5.0 <0.10	100 <0.10	1.0 <0.02	5.0 <0.05	5.0 <0.10	1.0 <0.10	5.0 <0.05	0.20 <0.010
ICV		0.99	20.3	0.50	1.00	2.48	2.47	0.99	0.00517
CCV		0.98	20.4	0.50	1.00	2.48	2.47	0.99	0.00526
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		1	1	1	0	1	1	4	1
% Extraction Accuracy		97	84	99	103	99	89	98	86
% Instrument Accuracy		98	101	100	100	99	99	99	104
EXTRACTION DATE:		11/08/99	11/08/99	11/08/99	11/08/99	11/08/99	11/08/99	11/08/99	11/08/99
ANALYSIS DATE:		11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	11/09/99

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 1.20 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Ag, Cr; 20 mg/L Ba; 0.50 mg/L Cd; 2.50 mg/L Se, Pb; Hg CV: 0.0050 mg/L


Director, D. Blair Leftwich

11/23/99
Date

TRACE ANALYSIS, INC.

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 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

November 23, 1999

Receiving Date: 11/04/99

Sample Type: Soil

Project #: N/A

Project Location: Lovington, Texas

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Byran Madrid

501 E. Main

Artesia, NM 88210

Extraction Date: 11/04/99

Analysis Date: 11/04/99

Sampling Date: 11/03/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
T134823		---	500	250	---	<2 >12.5	---
		Contaminated Debris & Soil	Non-reactive	<10	Non-corrosive	6.47	Non-Ignitable

RPD

% Extraction Accuracy

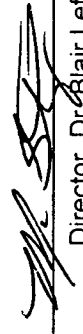
% Instrument Accuracy

1

98

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM


 Director, Dr. Blair Leftwich

11/23/99
 Date

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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-13
Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator NAVAJO REFINING CO.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site ARTESIA FACILITY
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter LEA LAND, INC.
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NM
7. Location of Material (Street Address or ULSTR) 501 E. MAIN ARTESIA	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:

12-007 (6) 55 gallon drums

Waste generated from the cleaning out of the crude tower (T-101) during turnaround. Environmental Bureau Oil Conservation Division
I am enclosing analytical, Chain of Custody, and a Certificate of waste, as well as letter of explanation from Bryan Madrid of Navajo.

12-008 30 yards

Hydrocarbon contaminated soil and debris coming from various spill clean ups from around the plant during turnaround.

I am enclosing analytical, Chain of Custody and Certificate of Waste.

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

SIGNATURE: KATH HARPER
Waste Management Facility Authorized Agent

TITLE: BOOKKEEPER

DATE: 12-10-99

TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams

TITLE: Environ. Eng. Specialist DATE: 12-15-99

APPROVED BY: [Signature]

TITLE: Env. Bureau Chief DATE: 12/16/99

TELEPHONE
(505) 748-3311

EASYLINK
62905278



REFINING COMPANY

501 EAST MAIN STREET • P. O. BOX 159
ARTESIA, NEW MEXICO 88211-0159

FAX
(505) 746-6410 ACCTG
(505) 746-6155 EXEC
(505) 748-9077 ENGR
(505) 746-4438 P / L

December 8, 1999

Ken Marsh
CRI Inc.
P.O. Box 388
Hobbs, NM 88241

Dear Mr. Marsh:

I would like to get the following wastes generated at Navajo's plant in Lovington profiled into your facility.

1. Contaminated debris and soil
2. Sludge from crude tower T-101

I feel the waste generated from the crude tower warrants further explanation. As you can see, a full TCLP was run on this waste stream and it failed for benzene. In the past, this has never been the case, therefore another sample was taken and analyzed only for TCLP benzene. As you can see, it came back non hazardous. To further verify this stream should be non hazardous, another sample was analyzed strictly for TCLP benzene. It also came back non hazardous. Navajo feels that since process has not changed, this stream should be accepted into your facility. All results, including one on 10/97, are enclosed.

If you have any questions, please call me at (505) 748-3311. Thank you for your time.

Sincerely,

Bryan Madrid

Bryan Madrid
Environmental Specialist

Encl.

file: CRI 1999

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR: Navajo Refining Company

ADDRESS: 501 East Main

GENERATING SITE: Lea Refining Company

COUNTY: Lea

STATE: NM

TYPE OF WASTE: Crude tower sludge (T-101)

ESTIMATED VOLUME: 6- 55 gallon drums

GENERATING PROCESS: Waste generated from the cleaning out of the crude tower (T-101) during turnaround.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorporated

TRUCKING COMPANY: Lea Land, Inc.

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 12/8/99

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main
Artesia, NM 88209

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Sludge

Project #: N/A

Project Location: Lovington, New Mexico

Extraction Date: 10/05/99

Analysis Date: 10/09/99

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T132774 T-101	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	95	2	108	95
1,1-Dichloroethene	0.70	0.05	ND	100	2	102	100
Methyl Ethyl Ketone	200.0	0.5	ND	108	3	98	108
Chloroform	6.00	0.05	ND	103	0	106	103
1,2-Dichloroethane	0.50	0.05	ND	102	0	115	102
Benzene	0.50	0.05	1.3	102	0	104	102
Carbon Tetrachloride	0.50	0.05	ND	101	8	90	101
Trichloroethene	0.50	0.05	ND	100	1	98	100
Tetrachloroethene	0.70	0.05	ND	99	1	98	99
Chlorobenzene	100.00	0.05	ND	101	1	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	107	1	108	107

SURROGATES

% Recovery

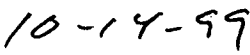
Dibromofluoromethane 103
Toluene-d8 101
4-Bromofluorobenzene 100

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG


Director, Dr. Blair Leftwich


Date

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

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El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

October 14, 1999

Receiving Date: 10/05/99

Sample Type: Sludge

Project #: N/A

Project Location: Lovington, New Mexico

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Darrell Moore

501 E. Main

Artesia, NM 88210

Extraction Date: 10/06/99

Analysis Date: 10/07/99

Sampling Date: 10/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T132774 T-101	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	58	1	69	97
1,4-Dichlorobenzene	7.5	0.05	ND	60	3	74	99
o-Cresol	200.0	0.05	ND	60	10	92	101
m,p-Cresol	200.0	0.05	ND	61	13	85	101
Hexachloroethane	3.0	0.05	ND	59	2	75	99
Nitrobenzene	2.0	0.05	ND	61	3	113	101
Hexachlorobutadiene	0.5	0.05	ND	60	4	83	100
2,4,6-Trichlorophenol	2.0	0.05	ND	60	6	113	101
2,4,5-Trichlorophenol	400.0	0.05	ND	63	4	124	105
2,4-Dinitrotoluene	0.13	0.05	ND	70	0	148	117
2,4-Dichlorophenoxyacetic acid	10.0	0.05	ND	70	0	129	117
Hexachlorobenzene	0.13	0.05	ND	61	8	135	102
2,4,5-TP	1.0	0.05	ND	58	15	118	113
Pentachlorophenol	100.0	0.05	ND	57	2	129	94

SURROGATES

% Recovery

2-Fluorophenol

63

Phenol-d6

40

Nitrobenzene-d5

110

2-Fluorobiphenyl

101

2,4,6-Tribromophenol

134

Terphenyl-d14

120

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA


Director, Dr. Blair Leftwich

10-14-99
Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

October 14, 1999
 Receiving Date: 10/05/99
 Sample Type: Sludge
 Project #: N/A
 Project Location: Lovington, New Mexico
 Sampling Date: 10/04/99
 Sample Condition: I & C
 Sample Received by: VW
 Project Name: N/A

ANALYTICAL RESULTS FOR

NAVAJO REFINING CO.

Attention: Bryan Madrid

501 E. Main

Artesia, NM 88209

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
	EPA LIMIT =	5.0	100	1.0	5.0	5.0	1.0	5.0	0.20
T132774	T-101	<0.20	0.54	<0.20	<0.20	<0.20	<0.20	<0.20	<0.010
T132775	T-501	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.010
ICV		1.08	1.10	2.20	1.09	1.09	1.08	0.216	0.0056
CCV		0.92	0.96	1.96	0.96	0.95	0.92	0.182	0.0059
REPORTING LIMIT		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.010
RPD		1	1	1	1	1	2	5	2
% Extraction Accuracy		108	106	104	109	104	102	105	88
% Instrument Accuracy		100	103	104	103	102	100	99	116
EXTRACTION DATE:		10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99	10/05/99
ANALYSIS DATE:		10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/08/99	10/12/99

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Se, Pb, Ba, Cr: 2.0 mg/L Cd 0.20 mg/L Ag Hg CV: 0.0050 mg/L

BS

10-14-99

Director: Dr. Blair Leftwich

Date

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Extraction Date: 10/13/99
 Analysis Date: 10/13/99
 Sampling Date: 10/04/99
 Sample Condition: I & C
 Sample Received by: VW
 Project Name: N/A

October 14, 1999
 Receiving Date: 10/05/99
 Sample Type: Sludge
 Project #: N/A
 Project Location: Lovington, New Mexico

NAVAJO REFINING CO.
 Attention: Byran Madrid
 501 E. Main
 Artesia, NM 88210

PH (s.u.)

CORROSIVITY

CYANIDES (ppm)

SULFIDES (ppm)

REACTIVITY

Field Code

EPA LIMIT =

IGNITABILITY

RPD

% Extraction Accuracy

% Instrument Accuracy

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM

BS

Director, Dr. Blair Leftwich

10-14-99

Date

Page 1 of 1

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

TraceAnalysis, Inc.

Phone #:

(Street, City, Zip)

Bryan Madrid

Invoice to:
(If different from above)

Project Name:

Sampler Signature: _____

Sampler Signature: *Deeth Ernst*

[illegible]

Date: _____ Time: _____

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Date: _____ Time: _____

Uchi Wadhe 10.5.59 9:00m

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

09/00506

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

LAB USE ONLY

Y
Z

Y / N

28

review

Carrier # FedEx 8024267660



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424
El Paso, Texas 79922

800•378•1296
888•588•3443

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Bryan Madrid
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: 10/27/99

Project Number: N/A
Project Name: N/A
Project Location: Lovington

Order ID Number: 99101917

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
133702	T-101	Sludge	10/18/99	9:00	10/19/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 2 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Report Date: 10/27/99

Order ID Number: 99101917

Page Number: 2 of 2

N/A

N/A

Lovington

Analytical Results Report

Sample Number: 133702

Description: T-101

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Benzene (mg/L)		<0.050	1	S 8021B	10/24/99	10/25/99	RC	PB02849	QC03601	0.001
Surrogate		Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #	
TFT (mg/L)		5.43	1	50	109	80 - 120	RC	PB02849	QC03601	
4-BFB (mg/L)		5.07	1	50	101	80 - 120	RC	PB02849	QC03601	

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TCLP Benzene (mg/L)		0.1	0.099	99	80 - 120	10/25/99	QC03601
CCV (1	TCLP Benzene (mg/L)		0.1	0.098	98	80 - 120	10/25/99	QC03601

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TRACE ANALYSIS, INC.

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915•585•3443 FAX 915•585•4944

Analytical and Quality Control Report

Bryan Madrid
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: 11/22/99

Project Number: N/A
Project Name: N/A
Project Location: Lovington

Order ID Number: 99110409

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
134824	T-101	Sludge	11/3/99	9:00	11/4/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 2 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Report Date: 11/22/99

Order ID Number: 99110409

Page Number: 2 of 2

N/A

N/A

Lovington

Analytical Results Report

Sample Number: 134824

Description: T-101

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Benzene (mg/L)										
TCLP Benzene		0.077	50	S 8021B	11/19/99	11/19/99	RC	PB03189	QC04136	0.001

**Quality Control Report
Method Blanks**

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TCLP Benzene (mg/L)		<0.001	0.001	11/19/99	PB03189	QC04136

**Quality Control Report
Lab Control Spikes and Duplicate Spike**

Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS TCLP Benzene (mg/L)	<0.001	1	0.1	0.09	90		80 - 120	0 - 20	QC04136
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS TFT (mg/L)		1	0.1	0.092	92		80 - 120		QC04136
LCS 4-BFB (mg/L)		1	0.1	0.096	96		80 - 120		QC04136
LCSD TCLP Benzene (mg/L)	<0.001	1	0.1	0.087	87	3	80 - 120	0 - 20	QC04136
Standard Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCSD TFT (mg/L)		1	0.1	0.088	88		80 - 120		QC04136
LCSD 4-BFB (mg/L)		1	0.1	0.091	91		80 - 120		QC04136

**Quality Control Report
Continuing Calibration Verification Standard**

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TCLP Benzene (mg/L)		0.1	0.084	84	80 - 120	11/19/99	QC04136
CCV (1	TCLP Benzene (mg/L)		0.1	0.091	91	80 - 120	11/19/99	QC04136

6701 Aberdeen Avenue
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ANALYTICAL RESULTS FOR
Navajo Refining
Attention: Darrell Moore
501 E. Main
Artesia NM 88210

Date: Nov 13, 1997
Date Rec: 10/25/97
Project: N/A
Proj Name: N/A
Proj Loc: Lovington

Lab Receiving # : 9710000440
Sampling Date: 10/21/97
Sample Condition: Intact and Cool
Sample Received By: ML

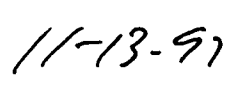
TCLP Vol in Sludge (mg/L)	EPA Limit	Reporting Limit	Method Blank	T84068		QC	RPD	%EA	%IA
				T-101	Crude Twr				
Vinyl Chloride	0.2	0.05	ND	ND		105	9	78	105
1,1-Dichloroethene	0.7	0.05	ND	ND		101	9	87	101
Methyl Ethyl Ketone	200.0	0.50	ND	ND		93	1	104	93
Chloroform	6.0	0.05	ND	ND		104	3	103	104
1,2-Dichloroethane	0.5	0.05	ND	ND		112	7	103	112
Benzene	0.5	0.05	ND	ND		100	4	97	100
Carbon Tetrachloride	0.5	0.05	ND	ND		118	7	112	118
Trichloroethene	0.5	0.05	ND	ND		98	5	97	98
Tetrachloroethane	0.7	0.05	ND	ND		94	5	93	94
Chlorobenzene	100.0	0.05	ND	ND		98	4	93	98
1,4-Dichlorobenzene	7.5	0.05	ND	ND		100	4	94	100

% RECOVERY

Dibromofluoromethane	93
Toluene-d8	94
4-Bromofluorobenzene	90

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/L)
TCLP Vol	EPA 1311	10/28/97	EPA 8260	10/29/97	RW	100 ea	100 ea


Director, Dr. Blair Leftwich


Date


TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis

6701 Aberdeen Avenue

Lubbock, Texas 79424

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**ANALYTICAL RESULTS FOR
NAVAJO REFINING COMPANY**

Attention: Darrell Moore

501 E. Main

Artesia, NM 88210

November 10, 1997

Receiving Date: 10/22/97

Sample Type: Sludge

Project No: NA

Project Location: Lovington, NM

Extraction Date: 11/03/97

Analysis Date: 11/05/97

Sampling Date: 10/21/97

Sample Condition: Intact & Cool

Sample Received by: RP

Project Name: NA

T84068/7703998

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T-101 (Crude Tower)				
			Sludge	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	81	*150	7	101
1,4-Dichlorobenzene	7.5	0.05	ND	93	9	39	116
o-Cresol	200.0	0.05	ND	74	1	84	93
m,p-Cresol	200.0	0.05	ND	93	1	64	116
Total Cresol	200.0	0.05	ND	—	—	—	—
Hexachloroethane	3.0	0.05	ND	86	3	30	108
Nitrobenzene	2.0	0.05	ND	86	15	49	108
Hexachlorobutadiene	0.5	0.05	ND	73	20	26	91
2,4,6-Trichlorophenol	2.0	0.05	ND	78	10	55	98
2,4,5-Trichlorophenol	400.0	0.05	ND	75	7	53	94
2,4-Dinitrotoluene	0.13	0.05	ND	91	8	62	114
2,4-D	10.0	0.05	ND	65	14	24	81
Hexachlorobenzene	0.13	0.05	ND	89	1	67	111
2,4,5-TP	1.0	0.05	ND	94	13	45	118
Pentachlorophenol	100.0	0.05	ND	84	2	79	105

*NOTE: RPD Out of Limits.

ND - Not Detected

Surrogates

% RECOVERY

2-Fluorophenol	22
Phenol-d6	46
Nitrobenzene-d5	63
2-Fluorobiphenyl	54
2,4,6-Tribromophenol	47
Terphenyl-d14	94

Methods: EPA SW 846-1311, 8270.

CHEMIST: RP/HW



Director, Dr. Blair Leftwich

11-10-97

DATE

TRACE ANALYSIS, INC.

A Laboratory for Advanced Environmental Research and Analysis

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue
Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

CLIENT NAVAJO REFINING COMPANY
501 E MAIN/PO BOX 159
ARTESIA, NM 88211

SAMPLE NO. : 7703998
INVOICE NO.: TE0082
REPORT DATE: 10-30-97
REVIEWED BY: *HS*
PAGE : 1 OF 1

CLIENT SAMPLE ID : T-101(Crude Tower)Sludge
SAMPLE TYPE: Sludge
SAMPLED BY: B. Madul
SUBMITTED BY: D. Moore
SAMPLE SOURCE: Lovington NM

AUTHORIZED BY : D. Moore
CLIENT P.O. : --
SAMPLE DATE: 10-21-97
SUBMITTAL DATE : 10-22-97
EXTRACTION DATE: --

TCLP Metals

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Arsenic (TCLP)	<0.050	mg/L	0.050	10-28-97	SW846 7061	N. Munir
Barium (TCLP)	<5.0	mg/L	5.0	10-29-97	SW846 7080A	N. Munir
Cadmium (TCLP)	<0.25	mg/L	0.25	10-28-97	SW846 7130	N. Munir
Chromium (TCLP)	<0.50	mg/L	0.50	10-28-97	SW846 7190	N. Munir
Lead (TCLP)	<0.75	mg/L	0.75	10-28-97	SW846 7420	N. Munir
Mercury (TCLP)	<0.010	mg/L	0.010	10-24-97	SW846 7471A	N. Munir
Selenium (TCLP)	<0.050	mg/L	0.050	10-28-97	SW846 7741A	N. Munir
Silver (TCLP)	<0.25	mg/L	0.25	10-28-97	SW846 7760A	N. Munir

(1) Copy to Client

ANALYSTS SIGNATURE REQUIRED WHEN APPLICABLE. ONLY TO THE ANALYSTS
TESTED. FURNISHING THE REPORT CAN ONLY BE COMPLETED BY THE ANALYSTS.

ASherma

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue

Lubbock, Texas 79424

806•794•1296

FAX 806•794•1298

CLIENT NAVAJO REFINING COMPANY

501 E MAIN/PO BOX 159

ARTESIA, NM 88211

SAMPLE NO. : 7703998

INVOICE NO.: TE0082

REPORT DATE: 11-12-97

REVIEWED BY: *[Signature]*

PAGE : 1 OF 1

CLIENT SAMPLE ID : T-101(Crude Tower)Sludge

SAMPLE TYPE: Sludge

SAMPLED BY: B. Madul

SUBMITTED BY: D. Moore

SAMPLE SOURCE: Lovington NM

AUTHORIZED BY : D. Moore

CLIENT P.O. : --

SAMPLE DATE: 10-21-97

SUBMITTAL DATE : 10-22-97

EXTRACTION DATE: --

Inorganic Non-Metals-Solids

D A T A T A B L E

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Flash Point	>180	degrees F	N/A	10-30-97	SW-1010	A. Donohue
Corrosivity	-		+/-	10-30-97	SW-9045 C	A. Donohue

(1) Copy to Client

ANALYST: ANALYST: REPORTED: NEW / APPY ONLY TO THE SAMPLES
TESTED. PATTERNS: THIS REPORT CAN ONLY BE USED IN ITS ENTIRETY.

A. Sharma



TRACE ANALYSIS, INC.

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Lubbock, Texas 79424

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FAX 806•794•1298

ANALYTICAL RESULTS FOR

NAVAJO REFINING COMPANY

Attention: Darrell Moore

501 E. Main

Artesia, NM 88210

November 10, 1997

Receiving Date: 10/22/97

Sample Type: Sludge

Project No: NA

Project Location: Lovington, NM

Extraction Date: 10/28/97

Analysis Date: 10/28/97

Sampling Date: 10/21/97

Sample Condition: Intact & Cool

Sample Received by: RP

Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)
-----	------------	------------	-------------------	-------------------

EPA LIMIT =

T84067/7703997	Cooling Tower Sludge	—	500	250
T84068/7703998	T-101 (Crude Tower) Sludge	Non-reactive	130	30
T84069/7703999	Flare Line Sludge	Non-reactive	<10	<2.5
T84070/7704000	Shell Bottom Sludge	Non-reactive	<10	<2.5
T84071/7704001	De-Salter Sludge	Non-reactive	<10	<2.5
T84072/7704002	Hydrocarbon Cont. Soil	Non-reactive	<10	<2.5
QC	Quality Control	—	—	—

RPD

% Extraction Accuracy

% Instrument Accuracy

METHODS: EPA SW 846-2.1.3.

CHEMIST: JG

BB

Director, Dr. Blair Leftwich

11-10-97

DATE

6701 Aberdeen Avenue Lubbock, Texas 79424
Tel (806) 794 1296 Fax (806) 794 1298
1 (800) 378 1296

Phone #: 525-748-3311

FAX #: 505-248-9077

Company Name & Address:
Navajo Refining Co

Project Name:

Sampler Signature:

Sampler Signature: Byron M. ...

[illegible]

Relinquished by: Daniel Moore Date: 10/22/97 Time: 11:30

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

Relinquished by: _____ **Date:** _____ **Time:** _____

Received at Laboratory by: _____ Date: _____ Time: _____

REMARKS

Received on 10-2-1944

Dist. I - (505) 393-6161
O. A. 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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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DEC 17 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford Odessa Pipe Plant
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 8870 W. Loop 338 Odessa, TX 79760
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 8870 W. Loop 338 Odessa, TX 79762	
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:

Pipe Scale generated by scraping rust from pipes.

I am enclosing analytical, Certificate of Waste Status and Chain of Custody.

12-005

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 12-04-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 12-10-99
APPROVED BY: Monty J. Smith TITLE: Environmental Geologist DATE: 12-17-99

RECEIVED
DEC 17 1999
Environmental Bureau
Oil Conservation Division



**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY/GENERATOR Weatherford Enterra

ADDRESS 8870 W. Loop 338, Odessa, Texas 79762

GENERATING SITE 8870 W. Loop 338, Odessa, Texas 79762 - PIPEPLANT

COUNTY Ector **STATE** TX

TYPE OF WASTE Pipe Scale

ESTIMATED VOLUME 40 cubic yards

GENERATING PROCESS Scraping rust from pipes

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc. 505/383-1079

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 (EPA) July 1998 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 "hazardous or listed waste" pursuant to the provisions of 40 CFR Part 261. Subparts C and D, has not 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.

AGENT Melinda Beggs
SIGNATURE
NAME Melinda Beggs
PRINTED
ADDRESS 1031 Andrews Hwy., Ste. 115
Midland, Texas 79701
DATE December 2, 1999

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Terry James
Llano Permian Environmental
1031 Andrews Hwy, Ste. 115
Midland, TX 79701

Report Date: 11/17/99

Project Number: WEA.005.GCI
Project Name: Pipe Plant Scale
Project Location: West Loop 338.Odessa

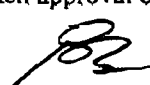
Order ID Number: 99111307

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
135456	Pipe Scale	Solid	11/12/99	10:30	11/13/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 2 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director

Report Date: 11/17/99

Order ID Number: 99111307

Page Number: 2 of 2

WEA.005.GCI

Pipe Plant Scale

West Loop 338, Odessa

Analytical Results Report

Sample Number: 135456

Description: Pipe Scale

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RD
TPH (mg/Kg)										
TRPHC		160000	1	E 418.1	11/15/99	11/16/99	MF	PB03109	QC04064	10

Quality Control Report
Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TRPHC (mg/Kg)		100	106	106	70 - 130	11/16/99	QC04064
CCV (1	TRPHC (mg/Kg)		100	103	103	70 - 130	11/16/99	QC04064
CCV (2	TRPHC (mg/Kg)		100	104	104	70 - 130	11/16/99	QC04064

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 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

LLANO PERMIAN ENVIRONMENTAL

Attention: Terry James

1031 Andrews Hwy., Suite 115

Midland, Texas 79701

November 24, 1999

Receiving Date: 11/13/99

Sample Type: Solid

Project #: WEA.005.GCI

Project Location: West Loop 338, Odessa

Sampling Date: 11/12/99

Sample Condition: I & C

Sample Received by: RR

Project Name: Pipe Plant Scale

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
T135456	EPA LIMIT = Pipe Scale	5.0 <0.10	100 <5.0	1.0 <0.02	5.0 <0.05	5.0 <0.10	1.0 <0.10	5.0 <0.05	0.20 <0.010
ICV		1.00	1.04	1.05	1.04	1.03	1.01	0.202	0.00497
CCV		0.96	0.99	1.0	0.99	0.99	0.96	0.191	0.00508
REPORTING LIMIT		0.10	5.0	0.02	0.05	0.10	0.10	0.05	0.010

RPD

% Extraction Accuracy

% Instrument Accuracy

*LCS & LCSD were used for %EA & RPD due to poor recovery in MS & MSD.

EXTRACTION DATE:

ANALYSIS DATE:

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 2.0 mg/L: Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Se, Pb, Ba, Cr: 0.20 mg/L Ag Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

Date

11/24/99

TRACE ANALYSIS, INC.

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 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

November 24, 1999

Receiving Date: 11/13/99

Sample Type: Solid

Project #: WEA.005.GCI

Project Location: West Loop 336, Odessa

LLANO PERMIAN ENVIRONMENTAL

Attention: Terry James

1031 Andrews Hwy., Suite 115

Midland, Texas 79701

Extraction Date: 11/04/99

Analysis Date: 11/04/99

Sampling Date: 11/12/99

Sample Condition: I & C

Sample Received by: RR

Project Name: Pipe Plant Scale

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
-----	------------	------------	-------------------	-------------------	-------------	--------------	--------------

EPA LIMIT =

Pipe Scale

<2 >12.5

Non-corrosive

<2.5

<10

Non-reactive

EPA LIMIT =

Pipe Scale

<2 >12.5

Non-corrosive

<2.5

<10

Non-reactive

RPD

% Extraction Accuracy

% Instrument Accuracy

0

100

0

100

0

100

0

100

0

100

0

100

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM



Director, Dr. Blair Leftwich

11-24-99

Date



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El Paso, Texas 79922 888-588-3443
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915-585-3443 FAX 915-585-4944

ANALYTICAL RESULTS FOR LLANO PERMIAN ENVIRONMENTAL

Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, Texas 79701

November 24, 1999
Receiving Date: 11/13/99
Sample Type: Solid
Project #: WEA.005.GCI
Project Location: West Loop 338, Odessa

Extraction Date: 11/20/99
Analysis Date: 11/21/99
Sampling Date: 11/12/99
Sample Condition: I & C
Sample Received by: RR
Project Name: Pipe Plant Scale

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T135458 Pipe Scale	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	101	1	108	101
1,1-Dichloroethene	0.70	0.05	ND	90	2	136	90
Methyl Ethyl Ketone	200.0	0.5	ND	105	4	124	105
Chloroform	6.00	0.05	ND	84	3	100	84
1,2-Dichloroethane	0.50	0.05	ND	87	3	88	87
Benzene	0.50	0.05	ND	107	2	127	107
Carbon Tetrachloride	0.50	0.05	ND	90	3	108	90
Trichloroethene	0.50	0.05	ND	104	0	122	104
Tetrachloroethene	0.70	0.05	ND	107	1	130	107
Chlorobenzene	100.00	0.05	ND	97	0	110	97
1,4-Dichlorobenzene	7.50	0.05	ND	94	0	107	94

SURROGATES	% Recovery
Dibromofluoromethane	85
Toluene-d8	105
4-Bromofluorobenzene	85

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG



Director, Dr. Blair Leftwich

11/24/99
Date



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El Paso, Texas 79922 888•588•3443
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806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR LLANO PERMIAN ENVIRONMENTAL

Attention: Terry James
1031 Andrews Hwy., Suite 115
Midland, Texas 79701

Extraction Date: 11/17/99

Analysis Date: 11/19/99

Sampling Date: 11/12/99

Sample Condition: I & C

Sample Received by: RR

Project Name: Pipe Plant Scale

November 24, 1999

Receiving Date: 11/13/99

Sample Type: Solid

Project #: WEA.005.GCI

Project Location: West Loop 338, Odessa

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T135456 Pipe Scale	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	51	125*	10	85
1,4-Dichlorobenzene	7.5	0.05	ND	63	2	49	105
o-Cresol	200.0	0.05	ND	61	8	57	101
m,p-Cresol	200.0	0.05	ND	61	17	51	101
Hexachloroethane	3.0	0.05	ND	62	0	44	104
Nitrobenzene	2.0	0.05	ND	63	2	70	106
Hexachlorobutadiene	0.5	0.05	ND	64	0	48	106
2,4,6-Trichlorophenol	2.0	0.05	ND	64	17	64	106
2,4,5-Trichlorophenol	400.0	0.05	ND	64	4	71	106
2,4-Dinitrotoluene	0.13	0.05	ND	70	8	79	117
2,4-D	10.0	0.05	ND	69	8	86	116
Hexachlorobenzene	0.13	0.05	ND	62	4	76	103
2,4,5-TP	1.0	0.05	ND	65	1	80	109
Pentachlorophenol	100.0	0.05	ND	61	99*	0	102

*Out of range.

SURROGATES	% Recovery
2-Fluorophenol	36
Phenol-d6	23
Nitrobenzene-d5	66
2-Fluorobiphenyl	68
2,4,6-Tribromophenol	54
Terphenyl-d14	83

ND = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA



Director: Dr. Blair Leftwich

11/24/99

Date

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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
DEC 17 1999
Environmental Bureau
Oil Conservation Division

Form C-15
Originated 8/8/

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 PEMCO 2238 Stevens 5. Originating Site Odessa, TX 79764
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 2238 Stevens Odessa, TX	
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:

Waste Water and Sludge generated from the steam cleaning of oilfield equipment.

I enclosing Analytical, Certificate of Waste Status and Chain of Custody.

12-004

Estimated Volume 60 cu. yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 12-4-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 12-10-99
APPROVED BY: Martinez J. Kelly TITLE: Environmental Geologist DATE: 12/17/99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY/GENERATOR PEMCO

ADDRESS 2238 Steven Rd., Odessa, Texas 79764

GENERATING SITE 2238 Steven Rd., Odessa, Texas 79764

COUNTY Ector STATE TX

TYPE OF WASTE Waste Water and Sludge

ESTIMATED VOLUME 60 cubic yards

GENERATING PROCESS Steam Cleaning oil field equipment

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc. 505/393-1079

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 (EPA) July 1998 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 "hazardous or listed waste" pursuant to the provisions of 40 CFR Part 261. Subparts C and D, has not 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.

AGENT Melinda Beggs
SIGNATURE
NAME Melinda Beggs
PRINTED
ADDRESS 1031 Andrews Hwy., Ste. 115
Midland, Texas 79701
DATE December 3, 1999

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 888-588-3443 915-585-3443 FAX 915-585-4944
 E-Mail: lab@traceanalysis.com

November 17, 1999

Receiving Date: 11/05/99

Sample Type: Sludge

Project #: PEM 001 GCI

Project Location: Odessa, Texas

ANALYTICAL RESULTS FOR

LLANO PERMIAN ENVIRONMENTAL

Attention: Terry James

1031 Andrews Hwy. Suite 115

Midland, Texas 79701

Extraction Date: 11/15/99

Analysis Date: 11/15/99

Sampling Date: 11/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: General Compliance

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
-----	------------	------------	-------------------	-------------------	-------------	--------------	--------------

EPA LIMIT =

Sludge-1

<2 >12.5

7.50

Non-ignitable

RPD

% Extraction Accuracy

% Instrument Accuracy

0

100

0

100

0

100

0

100

0

99

0

100

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

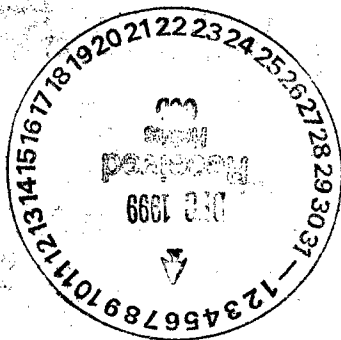
CHEMIST: JM



Director, Dr. Blair Leftwich

11-17-99

Date



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 E-Mail: lab@traceanalysis.com

November 15, 1999

Receiving Date: 11/05/99

Sample Type: Sludge

Project #: PEM 001.GCI

Project Location: Odessa, Texas

ANALYTICAL RESULTS FOR

LLANO PERMIAN

Attention: Terry James

1031 Andrews Hwy, Suite 115

Midland, Texas 79701

Sampling Date: 11/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: General Compliance

TA#	FIELD CODE	TCLP As (mg/L)	TCLP Ba (mg/L)	TCLP Cd (mg/L)	TCLP Cr (mg/L)	TCLP Pb (mg/L)	TCLP Se (mg/L)	TCLP Ag (mg/L)	TCLP Hg (mg/L)
T134925	EPA LIMIT = Sludge-1	5.0 <0.10	100 <0.10	1.0 <0.02	5.0 <0.05	5.0 <0.10	1.0 <0.10	5.0 <0.05	0.20 <0.010
ICV		0.99	20.3	0.50	1.00	2.48	2.47	0.99	0.00517
CCV		0.98	20.4	0.50	1.00	2.48	2.47	0.99	0.00526
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		1	1	1	0	1	1	1	1
% Extraction Accuracy		97	84	99	103	99	89	98	86
% Instrument Accuracy		98	101	100	100	99	99	99	104
EXTRACTION DATE:	11/08/99	11/08/99	11/08/99	11/08/99	11/08/99	11/08/99	11/08/99	11/08/99	11/08/99
ANALYSIS DATE:	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	11/10/99	11/09/99

METHODS: EPA 846-1311, 6010B, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP

TOTAL METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 2.0 mg/L Ag Hg SPIKE 0.050 mg/L

TOTAL METALS CV: 1.0 mg/L As, Se, Pb, Ba, Cr: 0.20 mg/L Ag Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

Date

11-15-99

TRACE ANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

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915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR LLANO PERMIAN

Attention: Terry James
1031 Andrews Hwy, Suite 115
Midland, Texas 79701

Extraction Date: 11/09/99

Analysis Date: 11/10/99

Sampling Date: 11/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: General Compliance

November 15, 1999

Receiving Date: 11/05/99

Sample Type: Sludge

Project #: PEM 001.GCI

Project Location: Odessa, Texas

CLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T134925 Sludge-1	QC	RPD	%EA	%IA
pyridine	5.0	0.05	ND	68	82	14	113
4-Dichlorobenzene	7.5	0.05	ND	63	9	58	105
m-Cresol	200.0	0.05	ND	65	19	51	109
o,p-Cresol	200.0	0.05	ND	66	17	478	110
hexachloroethane	3.0	0.05	ND	62	10	56	104
nitrobenzene	2.0	0.05	ND	63	8	76	105
hexachlorobutadiene	0.5	0.05	ND	63	4	68	104
4,6-Trichlorophenol	2.0	0.05	ND	60	8	73	99
4,5-Trichlorophenol	400.0	0.05	ND	60	8	74	100
4-Dinitrotoluene	0.13	0.05	ND	65	7	82	108
4-D	10.0	0.05	ND	64	6	94	106
hexachlorobenzene	0.13	0.05	ND	63	3	99	106
4,5-TP	1.0	0.05	ND	59	1	97	98
pentachlorophenol	100.0	0.05	ND	54	15	58	90
Out of range.							

URROGATES	% Recovery
Fluorophenol	47
phenol-d6	29
nitrobenzene-d5	80
Fluorobiphenyl	82
4,6-Tribromophenol	98
phenyl-d14	80

D = Not Detected

METHODS: EPA SW 846-1311, 8270

CHEMIST: MA

Director, Dr. Blair Leftwich

Date

11-15-99



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

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El Paso, Texas 79922 888•588•3443
E-Mail: lab@traceanalysis.com

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915•585•3443 FAX 915•585•4944

ANALYTICAL RESULTS FOR LLANO PERMIAN

Attention: Terry James

1031 Andrews Hwy, Suite 115
Midland, Texas 79701

November 15, 1999

Receiving Date: 11/05/99

Sample Type: Sludge

Project #: PEM 001.GCI

Project Location: Odessa, Texas

Extraction Date: 11/07/99

Analysis Date: 11/08/99

Sampling Date: 11/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: General Compliance

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T134925 Sludge-1	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	105	4	107	105
1,1-Dichloroethene	0.70	0.05	ND	97	2	133	97
Methyl Ethyl Ketone	200.0	0.5	ND	113	3	104	113
Chloroform	6.00	0.05	ND	87	1	100	87
1,2-Dichloroethane	0.50	0.05	ND	80	0	88	80
Benzene	0.50	0.05	0.06	107	2	125	107
Carbon Tetrachloride	0.50	0.05	ND	102	0	115	102
Trichloroethene	0.50	0.05	ND	103	0	119	103
Tetrachloroethene	0.70	0.05	ND	111	4	128	111
Chlorobenzene	100.00	0.05	ND	99	2	108	99
1,4-Dichlorobenzene	7.50	0.05	ND	98	1	106	98

SURROGATES

% Recovery

Dibromofluoromethane 85
Toluene-d8 107
1-Bromofluorobenzene 96

ND = Not Detected

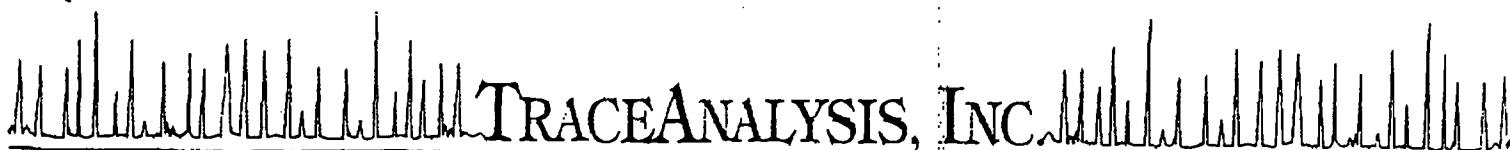
METHODS: EPA SW 846-1311, 8260.

CHEMIST: JG



Director, Dr. Blair Leftwich

11-15-99
Date



TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Terry James
Llano Permian Environmental
1031 Andrews Hwy, Ste. 115
Midland, TX 79701

Report Date: 11/15/99

Project Number: PEM 001 GCI
Project Name: General Compliance
Project Location: Odessa, Texas

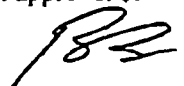
Order ID Number: 99110504

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
134925	Sludge-1	Sludge	11/4/99	11:25	11/5/99
134926	SS-1	Soil	11/4/99	11:35	11/5/99
134927	SS-2	Soil	11/4/99	11:40	11/5/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 3 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.


Dr. Blair Leftwich, Director

Report Date: 11/15/99

Order ID Number: 99110504

Page Number: 2 of 3

PEM001GCI

General Compliance

Odessa, Tx.

Analytical Results Report

Sample Number: 134925

Description: Sludge-1

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TX1005 (mg/Kg)										
C6-C10		<5000	100	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50
>C10-C28		25200	100	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50
C6-C28		25200	100	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50

Sample Number: 134926

Description: SS-1

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TX1005 (mg/Kg)										
C6-C10		<50	1	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50
>C10-C28		69	1	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50
C6-C28		69	1	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50

Sample Number: 134927

Description: SS-2

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TX1005 (mg/Kg)										
C6-C10		<50	1	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50
>C10-C28		75	1	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50
C6-C28		75	1	TX1005	11/5/99	11/5/99	MF	PB03007	QC03862	50

**Quality Control Report
Method Blanks**

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
C6-C10 (mg/Kg)		<50	50	11/5/99	PB03007	QC03862
>C10-C28 (mg/Kg)		<50	50	11/5/99	PB03007	QC03862
C6-C28 (mg/Kg)		<50	50	11/5/99	PB03007	QC03862

Report Date: 11/15/99

Order ID Number: 99110504

Page Number: 3 of 3

PEM001GCI

General Compliance

Odessa, Tx.

Quality Control Report Matrix Spike and Matrix Duplicate Spike

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	C6-C10 (mg/Kg)	<50	1	250	222	89		70 - 130	0 - 30	QC03862
MS	>C10-C28 (mg/Kg)	69	1	250	268	107		70 - 130	0 - 30	QC03862
MS	C6-C28 (mg/Kg)	69	1	500	490	98		70 - 130	0 - 30	QC03862
MSD	C6-C10 (mg/Kg)	<50	1	250	234	94	5	70 - 130	0 - 30	QC03862
MSD	>C10-C28 (mg/Kg)	69	1	250	283	113	5	70 - 130	0 - 30	QC03862
MSD	C6-C28 (mg/Kg)	69	1	500	517	103	5	70 - 130	0 - 30	QC03862

Quality Control Report Lab Control Spikes and Duplicate Spike

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	C6-C10 (mg/Kg)	<50	1	250	212	85		70 - 130	0 - 30	QC03862
LCS	>C10-C28 (mg/Kg)	<50	1	250	271	108		70 - 130	0 - 30	QC03862
LCS	C6-C28 (mg/Kg)	<50	1	500	483	97		70 - 130	0 - 30	QC03862
LCSD	C6-C10 (mg/Kg)	<50	1	250	226	90	6	70 - 130	0 - 30	QC03862
LCSD	>C10-C28 (mg/Kg)	<50	1	250	268	107	1	70 - 130	0 - 30	QC03862
LCSD	C6-C28 (mg/Kg)	<50	1	500	494	99	2	70 - 130	0 - 30	QC03862

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	C6-C10 (mg/Kg)		250	221	88	70 - 130	11/5/99	QC03862
ICV	>C10-C28 (mg/Kg)		250	270	108	70 - 130	11/5/99	QC03862
ICV	C6-C28 (mg/Kg)		500	491	98	70 - 130	11/5/99	QC03862
CCV (1	C6-C10 (mg/Kg)		250	234	94	70 - 130	11/5/99	QC03862
CCV (1	>C10-C28 (mg/Kg)		250	249	100	70 - 130	11/5/99	QC03862
CCV (1	C6-C28 (mg/Kg)		500	483	97	70 - 130	11/5/99	QC03862

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

4725 Ripley Dr., Ste. A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4844
1 (888) 588-3443

Trace Analysis, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 99110504

Company Name:

LFE (Llano-Ramón)

Phone #:

915/522-2133

Address:

(Street, City, Zip)
1031 Andrews Hwy, Ste 115 915/522-2180

Fax #:

915/522-2180

Contact Person:

Terry James

Invoice to:
(If different from above)

Project #:

DEM 001 GCT

Project Name:

General Compliance

Project Location:

Odessa, TX

Sampler Signature:

Melinda Bugg

LAB #
(LAB USE ONLY)

FIELD CODE

CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

HCL

HNO3

ICE

NONE

DATE

TIME

MATRIX

PRESERVATIVE

SAMPLING

MTBE 8021B/602

BTEX 8021B/602

TPH 418.10X1000

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Sb Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC-MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

ANALYSIS REQUEST
(Circle or Specify Method No.)

Contact Person: Terry James										1031 Andrews Hwy, Ste 15 915/522-2180									
Invoice to: (if different from above)																			
Project #: DEM 001 GCT										Project Name: General Compliance									
Project Location: Odessa, TX										Sampler Signature: M. Mendez									
</																			

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received at Laboratory by:

Date: Time:

LAB USE ONLY

Intact YHeadspace YTemp 10Log-in Review ME

REMARKS:

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of form.

11/17

District I - (505) 393-6161
O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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-13
Originated 8/8/

RECEIVED
DEC 17 1999
Environmental Bureau
Oil Conservation Division

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 EOTT ENERGY OPERATING 5. Originating Site S/W4 SE/4, S-9, T-24S R-32E LEA CO. NM MURCHISON OIL & GAS
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter MERRYMAN CONST.
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NM
7. Location of Material (Street Address or ULSTR) MURCHISON ENRON #9 (AS ABOVE)	
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:

CRUDE OIL RELEASE ON MURCHISON OIL & GAS, ENRON #9 LEASE
EOTT OIL SPILL. VERBAL APPROVAL CHRIS WILLIAMS 12-4-99 7:55 AM

12-006

Estimated Volume 23 YARDS cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 12-9-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 12-10-99

APPROVED BY: Mary J. Kirby TITLE: Environmental Geologist DATE: 12/17/99

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

*Murchison Oil + Gas location
Enron #9*ORIGINATING LOCATION: *SW/4 SE/4 Sec. 9, T-24-S, R-32-E, Lea Co., NM*SOURCE: *Crude Oil release*DISPOSAL LOCATION: *CRT*

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
concur with the status of the waste from the subject site.

EOTT Energy Operating

Name

Glennah Frost

Title/Agency

SR. ENV. Engineer

Address

*PO Box 1660**Midland TX 79702*

Signature

Glennah Frost

Date

*12-7-99**Merriman Construction
Jake - transporter*

Verbal approval
from Chris Williams
12-4-99, 7:55 am



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87506
(805) 827-7131

September 17, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-288-258-835

Ms. Lennah Frost
Environmental Engineer
EOTT Energy
P.O. Box 1660
Midland, Texas 79702

RE: CRUDE OIL GATHERING SYSTEM SPILLS

Dear Ms. Frost:

The New Mexico Oil Conservation Division (OCD) has reviewed EOTT Energy Operating Limited Partnership (EOTT) August 8, 1996 correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. EOTT requests that they be allowed to use these analyses and a statement of process knowledge for determining the soils to be RCRA non-hazardous during future crude oil pipeline spill remediations. These analyses are to be used in lieu of individual sampling of each spill event.

The above referenced request is approved with the following conditions:

1. The above representative analyses can be used in lieu of individual sampling of each spill event.
2. EOTT will reference the above waste determination identified as "EOTT-DENTON-8896" in all future RCRA non-exempt crude oil spill reports to the OCD.
3. EOTT will notify the OCD within 24 hours of any system changes which could potentially alter the composition of any spilled crude such that RCRA hazardous waste characteristics in the spill area could be exceeded.

Ms. Lennah Frost
September 17, 1996
Page -2-

Please be advised that OCD approval does not relieve EOTT of liability should these types of leaks and spills result in actual contamination of surface waters, ground waters or the environment. In addition, OCD approval does not relieve EOTT of responsibility for compliance with any other federal, state or local laws and/or regulations. If you have questions please contact me at (505) 827-7152.

Sincerely,



Roger C. Anderson
Environmental Bureau Chief

xc: OCD Artesia District Office
Benito Garcia, NMED Hazardous and Radioactive Waste Bureau

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
311 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

DEC 01 1999

Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

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 Weatherford 8870 W. Loop 338 North Odessa, Texas 79764
2. Management Facility Destination Controlled Recovery, Inc.	5. Originating Site Odessa, Texas 79764
3. Address of Facility Operator P. O. Box 388, Hobbs, NM 88241	6. Transporter Henderson Environmental & Malco Trucking
7. Location of Material (Street Address or ULSTR) 8870 W. Loop 338 North Odessa, Texas 79764	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:

Enclosed Please find sludge and waste water generated by the steam cleaning of oilfield tools.

I am enclosing a Certificate of Waste Status, current analytical, Chain of Custody and Texas Waste Code.

11-001

Estimated Volume 400 barrels cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 11-24-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)
APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 11-30-99
APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 12-3-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY/GENERATOR WEATHERFORD

ADDRESS 8870 WEST LOOP 338 ODESSA, TX. 79764

GENERATING SITE 8870 WEST LOOP 338 ODESSA, TX 79764

COUNTY ECTOR STATE TEXAS

TYPE OF WASTE SLUDGE AND WASTE WATER

ESTIMATED VOLUME 400 BBL. (16,800 GALLONS)

GENERATING PROCESS STEAM CLEANING OIL FIELD TOOLS

REMARKS _____

NMOCD FACILITY CONTROLLED RECOVERY INC.

TRUCKING COMPANY MALCO (915)563-9220, HENDERSON (806)744-6278

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not 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.

AGENT

SIGNATURE

NAME

CAROLYN BURKE

PRINTED

ADDRESS

8870 WEST LOOP 338 N

ODESSA, TX. 79764

DATE

11/19/99

ANALYTICAL REPORT 1-71344

for

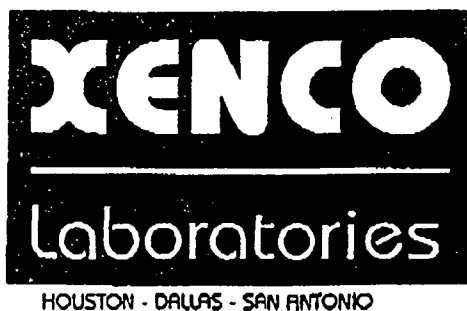
Nickell Environmental

Project Manager: Chris E. Stapp

Project Name: Sump Removal

Project Id: WEA 116-0000

June 20, 1997



11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
Phone (281) 589-0692 Fax (281) 589-0695



11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
Houston - Dallas - San Antonio

June 20, 1997

Project Manager: Chris E. Stapp
Nickell Environmental
11246 S. Post Oak #306
Houston, TX 77035

Reference: XENCO Report No.: 1-71344
Project Name: Sump Removal
Project ID: WEA 116-0000
Project Address: Odessa, TX WLP

Dear Chris E. Stapp:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-71344. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, and completeness.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-71344 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO Laboratories is accredited by the American Association for Laboratory Accreditation (A2LA) for technical competence in the field of Environmental Testing (Certificate No. 0343-01). In accordance with A2LA's guidelines, XENCO operates a Quality System that meets ISO/IEC Guide 25 requirements and is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,


Eddie R. Moriarty, Ph.D.
QA/QC Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified in California, Oklahoma, Kansas, Arkansas, and approved by numerous other States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY!*

[illegible]

Dr. K. Connors, Yellow & White Lab

• Pre-scheduling is recommended

Precision Analytical Services



ANALYTICAL CHAIN OF CUSTODY REPORT

Nickell Environmental

Project Name: Sump Removal

Project ID: WEA 116-0000

Project Manager: Chris E. Stapp

Project Location: Odessa, TX WLP

XENCO COC#: 1-71344

Date Received in Lab: Jun 12, 1997 10:00 by RT

XENCO contact : Scott Sample/Edward Yonemoto

Field ID	Lab ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis Available
1 S1 Sump	171344-001	TPH	EPA 418.1	ppm	Standard	Jun 11, 1997 14:15		Jun 19, 1997 by JS	Jun 19, 1997 14:52 by JS
2		pH	SW846-9040	S.U.	Standard	Jun 11, 1997 14:15		Jun 12, 1997 by CY	Jun 12, 1997 16:20 by CY
3		Ign/LF.P.	SW-846 1010	deg. F	Standard	Jun 11, 1997 14:15		Jun 13, 1997 by CG	Jun 13, 1997 10:40 by CG
4		Cyanide RCI	SW846 7.3.3	mg/L	Standard	Jun 11, 1997 14:15		Jun 14, 1997 by CG	Jun 14, 1997 13:05 by CG
5		Sulfide RCI	SW846 7.3.4	mg/L	Standard	Jun 11, 1997 14:15		Jun 14, 1997 by CG	Jun 14, 1997 12:00 by CG
6		TCLP Metals	SW846-1311/80	mg/L	Standard	Jun 11, 1997 14:15		Jun 12, 1997 by JS	Jun 13, 1997 15:58 by SA
7		TCLP Mercury	EPA 1311/7470	mg/L	Standard	Jun 11, 1997 14:15		Jun 12, 1997 by JS	Jun 13, 1997 13:10 by EZ
8		TCLP Vol.	EPA 1311/8260	mg/L	Standard	Jun 11, 1997 14:15		Jun 19, 1997 by CE	Jun 19, 1997 16:44 by CE
9		TCLP S.V.	EPA 1311/8270	mg/L	Standard	Jun 11, 1997 14:15		Jun 17, 1997 by CY	Jun 17, 1997 16:30 by LC
10 S2 Sump	171344-002	TPH	EPA 418.1	ppm	Standard	Jun 11, 1997 14:20		Jun 19, 1997 by JS	Jun 19, 1997 14:54 by JS
11		pH	SW846-9040	S.U.	Standard	Jun 11, 1997 14:20		Jun 12, 1997 by CY	Jun 12, 1997 16:25 by CY
12		Ign/LF.P.	SW-846 1010	deg. F	Standard	Jun 11, 1997 14:20		Jun 13, 1997 by CG	Jun 13, 1997 10:50 by CG
13		Cyanide RCI	SW846 7.3.3	mg/L	Standard	Jun 11, 1997 14:20		Jun 14, 1997 by CG	Jun 14, 1997 13:10 by CG
14		Sulfide RCI	SW846 7.3.4	mg/L	Standard	Jun 11, 1997 14:20		Jun 14, 1997 by CG	Jun 14, 1997 12:05 by CG
15		TCLP Metals	SW846-1311/80	mg/L	Standard	Jun 11, 1997 14:20		Jun 12, 1997 by JS	Jun 13, 1997 16:05 by SA
16		TCLP Mercury	EPA 1311/7470	mg/L	Standard	Jun 11, 1997 14:20		Jun 12, 1997 by JS	Jun 13, 1997 13:11 by EZ
17		TCLP Vol.	EPA 1311/8260	mg/L	Standard	Jun 11, 1997 14:20		Jun 19, 1997 by CE	Jun 19, 1997 16:23 by CE
18		TCLP S.V.	EPA 1311/8270	mg/L	Standard	Jun 11, 1997 14:20		Jun 17, 1997 by CY	Jun 17, 1997 17:16 by LC

**CERTIFICATE OF ANALYSIS SUMMARY 1-71344****Nickell Environmental**
Project Name: Sump Removal

Project ID: WEA 113-0000
Project Manager: Chris E. Stapp
Project Location: Odessa, TX WLP

Date Received in Lab: Jun 12, 1997 10:00 by RT

Date Report Faxed: Jun 20, 1997

XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID:	171344-001	171344-002				
	Field ID:	S1	S2				
	Depth:						
Ignit./F.P. Analyzed by EPA 1010	Date Analyzed - Analytical Results deg. F						
	Jun 13, 1997	Jun 13, 1997					
Ignitability, Pensky-Martens	> 180	> 180					
TCLP Metals Analyzed by EPA1311/6010	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)						
	Jun 13, 1997	Jun 13, 1997					
Arsenic	< 0.6	< 0.6					
Barium	< 1.1	< 1.1					
Cadmium	< 0.11	< 0.11					
Chromium	< 0.6	< 0.6					
Lead	< 0.6	< 0.6					
Silver	< 0.09	< 0.09					
Selenium	< 0.4	< 0.4					
TCLP Mercury Analyzed by EPA 7470	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)						
	Jun 13, 1997	Jun 13, 1997					
Mercury	< 0.020	< 0.020					
Cyanide RCI Analyzed by SW846 7.3.3	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)						
	Jun 14, 1997	Jun 14, 1997					
Cyanide	< 0.5	< 0.5					
Sulfide RCI Analyzed by SW846 7.3.4	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)						
	Jun 14, 1997	Jun 14, 1997					
Sulfide	< 0.5	< 0.5					
pH Analyzed by EPA 9040	Date Analyzed - Analytical Results S.U.						
	Jun 12, 1997	Jun 12, 1997					
pH, Electrometric	8.10	8.00					
TCLP S.V. Analyzed by EPA 8270	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)						
	Jun 17, 1997	Jun 17, 1997					

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of Nickell Environmental.

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


Edward H. Yonemoto, Ph.D.
QA/QC Manager

Nickell Environmental
Project Name: Sump Removal

Project ID: WEA 116-0000
 Project Manager: Chris E. Stapp
 Project Location: Odessa, TX WLP

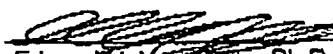
Date Received in Lab: Jun 12, 1997 10:00 by RT
 Date Report Faxed: Jun 20, 1997

XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID:	171344-001	171344-002				
	Field ID:	S1	S2				
	Depth:						
1,4-Dichlorobenzene		< 1.00	< 1.00				
2,4-Dinitrotoluene		< 0.10	< 0.10				
Hexachlorobenzene		< 0.08	< 0.08				
Hexachlorobutadiene		< 0.40	< 0.40				
Hexachloroethane		< 1.00	< 1.00				
2-Methylphenol		< 10.00	< 10.00				
3-Methylphenol		< 10.00	< 10.00				
4-Methylphenol		< 10.00	< 10.00				
Nitrobenzene		< 1.00	< 1.00				
Pentachlorophenol		< 10.00	< 10.00				
Pyridine		< 1.00	< 1.00				
2,4,5-Trichlorophenol		< 10.00	< 10.00				
2,4,6-Trichlorophenol		< 1.00	< 1.00				
TCLP Vol. Analyzed by EPA1311/8260		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jun 19, 1997	Jun 19, 1997				
Benzene		< 0.1	< 0.1				
2-Butanone		< 8.0	< 8.0				
Carbon Tetrachloride		< 0.1	< 0.1				
Chloroform		< 0.5	< 0.5				
1,2-Dichloroethane		< 0.1	< 0.1				
1,1-Dichloroethene		< 0.1	< 0.1				
Tetrachloroethene		< 0.1	< 0.1				
Trichloroethene		< 0.1	< 0.1				
Vinyl chloride		< 0.05	< 0.05				
Chlorobenzene		< 4.0	< 4.0				

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of Nickell Environmental.

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 Edward H. Yonemoto, Ph.D.
 QA/QC Manager

**CERTIFICATE OF ANALYSIS SUMMARY 1-71344****Nickell Environmental**
Project Name: Sump Removal

Project ID: WEA 116-0000
Project Manager: Chris E. Stapp
Project Location: Odessa, TX WLP

Date Received in Lab: Jun 12, 1997 10:00 by RT

Date Report Faxed: Jun 20, 1997

XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID:	171344-001	171344-002				
	Field ID:	S1	S2				
	Depth:						
TPH Analyzed by EPA 418.1		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jun 19, 1997	Jun 19, 1997				
Total Petroleum Hydrocarbons		11300	18400				

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of Nickell Environmental.

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


Edward H. Yonemoto, Ph.D.
QA/QC Manager



Certificate Of Quality Control for Batch 17A11A42

SW- 846 1010 Ignitability, Pensky- Martens

Date Validated: Jun 16, 1997 16:45

Analyst: CG

Date Analyzed: Jun 13, 1997 10:20

Matrix: Solid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

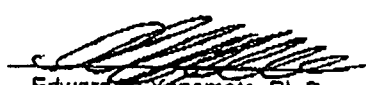
MATRIX DUPLICATE ANALYSIS						
Q.C. Sample ID 171332- 001	(A) Sample Result	(B) Duplicate Result	(C) Method Detection Limit	(D) QC Relative Difference	(E) LIMITS Relative Difference	(F) Qualifier
	deg. F	deg. F	deg. F	%	%	
Parameter						
Ignitability, Pensky-Martens	>180	>180	75-180	0.0	15.0	

Relative Difference [D] = $200 \times (B-A)/(B+A)$

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only


Edward H. Yonemoto, Ph.D.
QA/QC Manager


Certificate Of Quality Control for Batch : 17A18C40
SW846- 1311/6010 TCLP Metals
Date Validated: Jun 14, 1997 09:30

Analyst: SA

Date Analyzed: Jun 13, 1997 14:34

Matrix: Solid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

BLANK SPIKE ANALYSIS

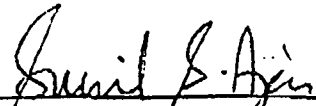
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Method Detection Limit	QC	LIMITS	
	mg/L	mg/L	mg/L	mg/L	Blank Spike Recovery %	Recovery Range %	
Arsenic	< 0.22	1.97	2.22	0.22	88.7	65-135	
Barium	< 0.11	1.22	1.11	0.11	109.9	65-135	
Cadmium	< 0.056	0.387	0.444	0.056	87.2	65-135	
Chromium	< 0.22	0.94	1.11	0.22	84.7	65-135	
Lead	< 0.22	1.92	2.22	0.22	86.5	65-135	
Selenium	< 0.22	2.15	2.22	0.22	96.8	65-135	
Silver	< 0.089	0.654	0.888	0.089	73.6	65-135	

Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only


 Edward H. Yonemoto, Ph.D.
 QA/QC Manager



Certificate Of Quality Control for Batch : 17A18C40

SW846- 1311/6010 TCLP Metals

Date Validated: Jun 14, 1997 09:30

Date Analyzed: Jun 13, 1997 15:02

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA

Matrix: Solid

Q.C. Sample ID 171354-009 Parameter		MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Method Detection Limit mg/L	[D] QC Relative Difference %	[E] LIMITS Relative Difference %	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H] QC Matrix Spike Recovery %	[I] LIMITS Recovery Range %	[J] Qualifier
Arsenic		< 0.22	< 0.22	0.22	N.C.	25.0	2.1	2.2	93.2	65-135	
Barium		1.79	1.82	0.11	1.7	25.0	2.8	1.1	86.5	65-135	
Cadmium		< 0.056	< 0.056	0.056	N.C.	25.0	0.38	0.44	86.5	65-135	
Chromium		< 0.22	< 0.22	0.22	N.C.	25.0	1.0	1.1	85.6	65-135	
Lead		< 0.22	< 0.22	0.22	N.C.	25.0	2.0	2.2	89.2	65-135	
Selenium		< 0.22	< 0.22	0.22	N.C.	25.0	2.2	2.2	100.8	65-135	
Silver		< 0.089	< 0.089	0.089	N.C.	25.0	0.73	0.89	82.4	65-135	

Relative Difference [D] = $200 \times (B-A)/(B+A)$

Matrix Spike Recovery [H] = $100 \times (F-A)/G$

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager


Certificate Of Quality Control for Batch 17A05B55
EPA 1311/7470 TCLP Mercury
Date Validated: Jun 14, 1997 09:45

Analyst: EZ

Date Analyzed: Jun 13, 1997 12:59

Matrix: Solid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Method Detection Limit	QC	LIMITS	
	mg/L	mg/L	mg/L	mg/L	Blank Spike Recovery %	Recovery Range %	
Mercury	< 0.0010	0.0018	0.0025	0.0010	72.0	65-135	

Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto
 Edward H. Yonemoto, Ph.D.
 QA/QC Manager



Certificate Of Quality Control for Batch : 17A06B55

EPA 13H/7470 TCLP Mercury

Date Validated: Jun 14, 1997 09:45

Date Analyzed: Jun 13, 1997 13:01

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ

Matrix: Solid

Q.C. Sample ID 171354- 013 Parameter		MATRIX DUPLICATE ANALYSIS						MATRIX SPIKE ANALYSIS					
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Method Detection Limit mg/L	[D]		[E] LIMITS Relative Difference %	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]		[I] LIMITS Recovery Range %	[J] Qualifier
					QC Relative Difference %	Matrix Spike Recovery %				QC	Matrix Spike Recovery %		
Mercury		< 0.0010	< 0.0010	0.0010	N/C	25.0	0.0025	0.0025	100.0	65-135			

Relative Difference (D) = $200 \cdot (B-A)/(B+A)$
Matrix Spike Recovery [H] = $100 \cdot (F-A)/[G]$
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto
Edward H. Yonemoto, Ph.D.
QA/QC Manager


Certificate Of Quality Control for Batch 17A12B11
SW846 7.3.3 Reactive Cyanide
Date Validated: Jun 16, 1997 16:30

Analyst: CG

Date Analyzed: Jun 14, 1997 12:40

Matrix: Liquid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank Result mg/L	Blank Spike Result mg/L	Blank Spike Amount mg/L	Method. Detection Limit mg/L	QC	LIMITS	
					Blank Spike Recovery %	Recovery Range %	
Cyanide	< 0.05	0.09	0.10	0.05	94.7	70-125	

Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager


Certificate Of Quality Control for Batch: 17A12B10
SW846 7.3.4 Reactive Sulfide
Date Validated: Jun 16, 1997 16:35

Analyst: CG

Date Analyzed: Jun 14, 1997 11:40

Matrix: Liquid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

BLANK SPIKE ANALYSIS							
Parameter	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Blank Result	Blank Spike Result	Blank Spike Amount	Method Detection Limit	QC	LIMITS	
	mg/L	mg/L	mg/L	mg/L	Blank Spike Recovery %	Recovery Range %	
Sulfide	< 0.50	6.48	6.80	0.50	95.3	70-125	

 Blank Spike Recovery [E] = $100 \cdot (B-A)/(C)$

N.C. = Not calculated; data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only

 Edward H. Yonemoto, Ph.D.
 QA/QC Manager


Certificate Of Quality Control for Batch 17A13A82
EPA 150.1 pH, Electrometric

Date Validated: Jun 12, 1997 17:55

Analyst: CY

Date Analyzed: Jun 12, 1997 15:50

Matrix: Liquid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

MATRIX DUPLICATE ANALYSIS						
Q.C. Sample ID 171341- 001	(A) Sample Result	(B) Duplicate Result	(C) Method Detection Limit	(D) QC Relative Difference	(E) LIMITS Relative Difference	(F) Qualifier
	S.U.	S.U.	S.U.	%	%	
pH, Electrometric	7.196	7.215	0 - 14	0.3	3.0	

 Relative Difference (D) = $200 \times (B-A)/(B+A)$

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

All results are based on MDL and validated for QC purposes only


 Edward H. Yonemoto, Ph.D.
 QA/QC Manager



Certificate of Quality Control for Batch 17A84C20

EPA 1311/8270 TCLP Semi-volatiles

Date Validated: Jun 18, 1997 14:01

Date Analyzed: Jun 17, 1997 14:59

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: LC

Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC		[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualife
							Spike Relative Difference %	Blank Spike Recovery %			
Acenaphthene	< 0.0020	0.0822	0.0886	0.1000	0.0020	31.0	7.5	82.2	88.6	46-116	
4-Chloro-3-Methylphenol	< 0.0010	0.0694	0.0630	0.1000	0.0010	42.0	9.7	69.4	63.0	23-87	
2-Chlorophenol	< 0.0040	0.0868	0.0900	0.1000	0.0040	40.0	3.8	86.8	80.0	27-123	
1,4-Dichlorobenzene	< 0.0040	0.0834	0.0960	0.1000	0.0040	28.0	14.0	83.4	96.0	36-87	
2,4-Dinitrotoluene	< 0.0010	0.0878	0.0946	0.1000	0.0010	38.0	7.5	87.8	94.6	24-86	
N-Nitroso-di-n-propylamine	< 0.0080	0.1010	0.1156	0.1000	0.0080	38.0	13.5	101.0	115.6	41-116	
4-Nitrophenol	< 0.0080	0.0372	0.0336	0.1000	0.0080	50.0	10.2	37.2	33.6	10-80	
Pentachlorophenol	< 0.0010	0.0664	0.0674	0.1000	0.0010	50.0	1.5	66.4	67.4	9-103	
Phenol	< 0.0040	0.0518	0.0466	0.1000	0.0040	42.0	10.6	51.8	46.6	12-89	
Pyrene	< 0.0040	0.0946	0.1070	0.1000	0.0040	31.0	12.3	94.6	107.0	26-127	
1,2,4-Trichlorobenzene	< 0.0040	0.0764	0.0842	0.1000	0.0040	28.0	9.7	76.4	84.2	39-98	

Spike Relative Difference [F] = $200 \cdot (B-C) / (B+C)$

Blank Spike Recovery [G] = $100 \cdot (B-A) / B$

B.S.D. = Blank Spike Duplicate

B.S.D. Recovery [H] = $100 \cdot (C-A) / D$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Houston - Dallas - San Antonio

Edward H. Yonemoto, Ph.D.
QA/QC Manager



Certificate of Quality Control for Batch 17A01C45

SW146- 8260 Volatile Organic Analysis

Date Validated: Jun 20, 1997 12:45

Date Analyzed: Jun 19, 1997 17:42

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CE

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 171402- 004	Parameter	[A] Sample Result mg/L	[B] Matrix Spike Result mg/L	[C] Matrix Spike Duplicate Result mg/L	[D] Matrix Spike Amount mg/L	[E] Method Detection Limit mg/L	Matrix Limit Relative Difference %	[F] QC		[G] QC		[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifi.
								Spike Relative Difference %		Matrix Spike Recovery %				
	Benzene	< 0.0010	0.0492	0.0492	0.0500	0.0010	11.0	0.0		99.4		98.4	76-127	
	Chlorobenzene	< 0.0010	0.0492	0.0496	0.0500	0.0010	13.0	0.8		98.4		99.2	75-130	
	1,1-Dichloroethene	< 0.0040	0.0421	0.0422	0.0500	0.0040	14.0	0.2		84.2		84.4	61-145	
	Toluene	< 0.0010	0.0494	0.0479	0.0500	0.0010	13.0	3.1		98.8		95.8	76-125	
	Trichloroethene	< 0.0030	0.0475	0.0480	0.0500	0.0030	14.0	1.0		95.0		96.0	71-120	

Spike Relative Difference [F] = $200 \cdot (B - C) / (B + C)$

Matrix Spike Recovery [G] = $100 \cdot (B - A) / D$

M.S.D. = Matrix Spike Duplicate

M.S.D. Recovery [H] = $100 \cdot (C - A) / D$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager



Certificate Of Quality Control for Batch : 17A07E24

EPA 418.1 Total Petroleum Hydrocarbons

Date Validated: Jun 19, 1997 16:00

Date Analyzed: Jun 19, 1997 14:48

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: JS

Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Method Detection Limit ppm	Blank Limit Relative Difference %	[F] QC		[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualify
							Spike Relative Difference %	Blank Spike Recovery %			
Total Petroleum Hydrocarbons	< 0.51	4.34	4.40	4.71	0.51	25.0	1.4	92.1	93.4	70-125	

Spike Relative Difference [F] = $200 \cdot (B-C) / (B+C)$
Blank Spike Recovery [G] = $100 \cdot (B-A) / (D)$
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = $100 \cdot (C-A) / (D)$
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

TOTAL F. 10

Houston · Dallas · San Antonio

Edward H. Yonemoto, Ph.D.
QA/QC Manager

Page

LTH020

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***

Notice of Registration

Industrial and Hazardous Waste

Page: 1
Date: 02/20/97

75327 Weatherford U.S., Inc.

Solid Waste Registration Number: 75327 EPA ID: TXD988025755

Company Name: Weatherford U.S., Inc.

Site Name: Odessa-Tool

Site Location: 8870 N Loop 338 W, Odessa, TX

Contact: ~~Debra~~ ~~Wicks~~Region: 7
County: 68 Ector

Initial Registration Date: 05/06/1991

Last Amendment Date: 09/18/1995

Last Date RCR Computer Update: 06/19/1996

Phone: 915-550-9297

Mailing Address: P. O. Drawer 112

Odessa, TX 79760-0112

Site Street Address: 8870 N Loop 338 W

Odessa, TX 79764-

Registration Status: Active

Registration Type: Generator

Generator Type: Non-Industrial and/or municipal

Hazardous Waste Generation Status: Small Quantity Generator

Reporting Method: STEERS

Primary SIC Code: 1389 Oil & Gas Field Services, Not Elsewhere Found

Handler Status:

Operator Information

Name:

Phone:

Address:

Owner Information

Name: Weatherford U.S., Inc.

Phone:

Address: P. O. Box 27608

Suite 1000

Houston, TX, 77227-7608

As of 09/18/1995 - the next unassigned sequence number for UNITS is 6012 and
the next unassigned sequence number for UNITS is 001.

75327 Weatherford C.S., Inc.

*** WASTE INFORMATION ***

Waste Code	Waste Status	Date of Status	Managed Waste/Offsite	Radio-Active	THRC Audit Complete
00103071	Active	01/26/93	Off	No	

Description from Generator: Pipe scale, scraping of pipe used in the oil and gas industry/ ongoing process.

Form Code: 107 Metal scale, filings, or scrap

Current Management Unit(s): None

* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

00103071 1 Active 01/26/93 Off No

Description from Generator: Pump material /tools are clean cleaned and washed to remove lubricant, dirt, paint, pease, and corrosion products/August 1993.

Form Code: 695 Petro contain sludge not still bottom & oily sludges

Current Management Unit(s): None

* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

6001203H H Active 06/05/94 Off No

Description from Generator: Spent solvents (mineral spirits/varnol). Oil field related equipment, tools and parts are rinsed in solvent to removed grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and silt debris parts washing.

BPA Hazardous Waste Numbers: 203 Non-halogenated solvent

Current Management Unit(s): None

* Origin Codes: 1 Onsite-process/service

* Source Codes: 119 Other cleaning and degreasing

* Measurement Points: 1 Before mixing

* SIC Codes: 1365 Oil & Gas Field Services, Not Elsewhere Found

Company's Internal Code(s): 7355 Equipment Rental and Leasing, NEC

3533 Oil Field Machinery & Equipment

6002203H H Active 06/05/94 Off No

Description from Generator: Spent immersion cleaner/cold cleaner. Oil field related equipment, tools, parts, and pipe are cleaned in immersion cleaner to remove grease and debris during servicing. Waste is a mixture of heavy aromatic Naphtha, oil, Monothanolamine, grease and silt debris.

EPH Hazardous Waste Numbers: 203 Non-halogenated solvent

Current Management Unit(s): None

* Origin Codes: 1 Onsite-process/service

* Source Codes: 119 Other cleaning and degreasing

* Measurement Points: 1 Before mixing

* SIC Codes: 1365 Oil & Gas Field Services, Not Elsewhere Found

Company's Internal Code(s): 7359 Equipment Rental and Leasing, NEC

3533 Oil Field Machinery & Equipment

60032051 I Active 08/05/94 Off No

Description from Generator: Oil-water emulsion and mixture from oil field equipment servicing. Oil field hydraulic equipment, pipe, and tools are cleaned and reconditioned. Oil, grease, and wash water collect in pump. Waste is mixture of oil and water. Non-hazardous.

Form Code: 205 Oil-water emulsion or mixture

Current Management Unit(s): None

* Origin Codes: 1 Onsite-process/service

LHM020

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***
 Notice of Registration
 Industrial and Hazardous Waste

Page: 3
 Date: 02/20/97

75327 Weatherford U.S., Inc.

Texas Waste Status Date of
 Waste Class Status

Managed Radio-
 Onsite/active TNRCC Audit
 Offsite Complete

***** Active Wastes *****

Company's Internal Code(s): Slump Waste - Liquid

6004012 2 Active 08/05/94 Off

Description from Generator: Class 2 paper, lumber, plastic, paper packing material, plastic packing material, styrofoam, glass, aluminum foil. Does not include metal parts, floor sweepings or scrap metals. Generating process is general non hazardous maintenance.

Form Code: 901 Plant production refuse
 * Origin Codes: 1 Onsite-process/service
 Company's Internal Code(s): Plant Refuse

6005012 2 Active 08/05/94 Off

Description from Generator: Class 2 paper, cardboard, linings, wrappings, paper, wood or plastic wrappings, food waste, glass, aluminum foil, aluminum cans, plastic, styrofoam, food packings, empty shipping cartons, binders. Process generating is from general office operations.

Form Code: 903 Plant office refuse
 * Origin Codes: 1 Onsite-process/service
 Company's Internal Code(s): Office Refuse

6006102 1 Active 08/05/94 Off

Description from Generator: Used all filters from vehicle and equipment maintenance. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)
 * Origin Codes: 1 Onsite-process/service
 Current Management Units: None

6007061 1 Active 08/05/94 Off

Description from Generator: Used motor oil and used hydraulic oil from vehicle and equipment maintenance. to be sent to oil recycler. Non-hazardous.

Form Code: 206 Waste oil
 * Origin Codes: 1 Onsite-process/service
 Current Management Units: None

6008101 1 Active 08/05/94 Off

Description from Generator: Used paint filters from spray paint application equipment used in painting oil field tools and equipment. Filters have been dried. There are no liquids present. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)
 * Origin Codes: 1 Onsite-process/service
 Current Management Units: None

IH0020

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***
 Notice of Registration
 Industrial and Hazardous Waste

Page: 4
 Date: 02/20/97

75327 Weatherford U.S., Inc.
 Texas Waste Status Date of Managed
 Waste Class Status Status
 Code
 ***** Active Wastes *****

6009209H H Active 08/05/94 OFF No
 Description from Generator: Paint waste, oil based, liquid containing paint thinner of mineral spirits/Varnol.
 Generating process is from painting oil field tools and equipment, general maintenance.
 Ignitable.

EPA Hazardous Waste Number: E001
 Form Code: 209 Organic paint, ink, lacquer, or varnish

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

* Source Codes: A21 Painting 3533 Oil Field Machinery & Equipment
 * Measurement Points: 1 Before mixing
 1389 Oil & Gas Field Services, Not Elsewhere Found
 7359 Equipment Rental and Leasing, NRC

60102091 I Active 08/05/94 OFF No
 Description from Generator: Waste paint, water based. Process generating is from paint parts, tools and equipment.
 General maintenance.

EPA Hazardous Waste Number: E001
 Form Code: 209 Organic paint, ink, lacquer, or varnish

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

6014091 I Active 08/05/94 OFF No
 Description from Generator: Paint waste solids from clean up of paint booth overpray, floor sweepings and wood with
 overpray. Generating process is from painting oil field tools and equipment.

EPA Hazardous Waste Number: E001
 Form Code: 409 Other non-halogenated organic solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

601211H H Active 08/05/94 OFF No
 Description from Generator: Spent waste paint thinner used in thinning paint, cleaning paint equipment and general
 maintenance for paint preparation activities of oil field tools and equipment. Contains
 mineral spirits/Varnol/Water Naphtha. Ignitable.

EPA Hazardous Waste Number: E001
 Form Code: 211 Paint thinner or petroleum distillates

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

* Source Codes: A21 Painting A19 Other cleaning and degreasing
 * Measurement Points: 1 Before mixing
 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
 7359 Equipment Rental and Leasing, NRC

6013191 I Active 08/05/94 OFF No
 Description from Generator: Pipe waste solids, including rust, drilling mud and dry oil. Generated during the cleaning
 and reconditioning of oil field drilling pipe. Non-hazardous.

EPA Hazardous Waste Number: E001
 Form Code: 319 Other waste inorganic solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service

IHM020

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***

Notice of Registration

Industrial and Hazardous Waste

Page: 5
Date: 02/20/97

75337 Weatherford U.S., Inc.
Texas Waste Status Date of Managed
Waste Class Status Status
Code Offsite
***** Active Waste *****

6013020 II Active 08/05/94 Off No
Description from Generator: Used lead batteries, or battery parts, casings or cores. Process generating is "out of service" batteries from facility vehicles and equipment maintenance. To be sent to battery recycler. Hazardous.

EPA Hazardous Waste Numbers: 309 Batteries or battery parts, casings, cores
Current Management Units: D602 D008
Form Code: None

* Origin Codes: 1 Onsite-process/service
* Source Codes: 455 Filter/battery replacement
* Measurement Points: 1 Before mixing
* DIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found
7349 Building Maintenance Services, NEC

60153101 I Active 08/05/94 Off No
Description from Generator: Oil absorbents, rags and pads from general clean up and maintenance activities. For cleaning motor releases of oil from maintenance and repair of equipment. Waste is generally a mixture of non-biodegradable absorbent granules, rags & pads impregnated with oil. Non-hazardous.

Form Code: 310 Spent solid filters or absorbents (inorganic)
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60163081 I Active 08/05/94 Off No
Description from Generator: Empty metal drums and empty metal containers from products purchased. Rendered empty after use of product. Non-hazardous.

Form Code: 308 Empty or crushed metal drums or containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

50174061 I Active 08/05/93 Off No
Description from Generator: Empty fiber or plastic containers from products purchased. Rendered empty after use of product. Non-hazardous.

Form Code: 406 Empty fiber or plastic containers
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60182961 I Active 08/05/94 Off No
Description from Generator: Waste glycol based antifreeze/coolant. Removed from facility vehicles and equipment during service and repair. Non-hazardous.

Form Code: 296 Ethylene glycol based antifreeze
Current Management Units: None
* Origin Codes: 1 Onsite-process/service

60196951 I Active 09/18/95 Off No
Description from Generator: Petroleum contaminated sludge from pump. Tools are steam cleaned & washed to remove lubricant, dirt, paint, scale & corrosion. Liquids are removed & sludge remains.

Form Code: 595 Petro contain sludge not still bottoms & oily sludges
Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sludge sludge

LINC20

*** TEXAS NATURAL RESOURCES CONSERVATION COMMISSION ***
 Notice of Registration
 Industrial and Hazardous Waste

Page: 6
 Date: 02/20/97

75327 Weatherford U.S., Inc.
 Waste Status Date of Managed
 Class Status Offsite Radio- TRRC Audit
 Code active Complete
 ***** Active Wastes *****

60203071 1 Active 08/05/94 OFF No
 Description from Generator: Scrap metal. Generated during the manufacture and servicing of oil field tools and equipment. Miscellaneous metal pieces and parts which are no longer useable are scrapped and sent to metal recycler. Non-hazardous.

Form Code: 307 Metal scale, filings, or scrap
 Current Management Units: None
 * Origin Codes: 1 Onsite-process/service
 Company's Internal Code(s): Scrap metal

60219022 2 Active 08/05/94 OFF No
 Description from Generator: Supplemental plant refuse - primarily solid floor sweepings from plant production operations. Non-hazardous.

Form Code: 902 Supplemental plant production refuse
 Current Management Units: None
 * Origin Codes: 1 Onsite-process/service

60222291 1 Active 03/05/94 OFF No
 Description from Generator: Oil based machine coolant/water sealable. Liquid. Spent coolant from machining process of cooling, cutting and grooving. Non-hazardous.

Form Code: 219 Other organic liquids
 Current Management Units: None
 * Origin Codes: 1 Onsite-process/service

60234891 1 Active 09/18/95 OFF No
 Description from Generator: Pipe coating. Coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of drippings from application process are collected for disposal.

Form Code: 489 Petroleum contaminated solids
 Current Management Units: None
 * Origin Codes: 1 Onsite-process/service

60242058 1 Active 08/05/94 OFF No
 Description from Generator: Paint waste, liquids, containing toluene and/or xylene. Spent paint from painting tools, parts and equipment. Hazardous
 Form Code: 209 Organic paint, ink, lacquer, or varnish
 Current Management Units: D001 F003 F005

Form Code: 1 Onsite-process/service
 * Origin Codes: 1 Onsite-process/service
 * Source Codes: 1 Before mixing
 * Measurement Points: 1389 Oil & Gas Field Services, Not Elsewhere Found
 * SIC Codes: 7359 Equipment Rental and Leasing, NEC
 3533 Oil Field Machinery & Equipment

THR020

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***
 Notice of Registration
 Industrial and Hazardous Waste

Page: 7
 Date: 02/20/97

75327 Bentlerford U.S., Inc.
 Waste Name: Bentlerford U.S., Inc.
 Waste Class: Industrial and Hazardous Waste
 Status: Active
 Date of Management: 08/05/94
 Offsite: Complete

60251011 H Active 08/05/94 OFF No
 Description from Generator: Paint waste filters. Solid paint filters containing liquids. Not dry. Used paint filters from spray paint equipment used in paint equipment. Paint contains toluene and xylene from thinning process. Hazardous.1

EPA Hazardous Waste Numbers: 310 Spent solid filters or absorbents (inorganic)
 Form Code: D001 F003 F005
 Current Management Units: None

* Source Codes: A21 Painting
 * SIC Codes: 1 Before mixing
 1389 Oil & Gas Field Services, Not Elsewhere Found

Company's Internal Code(s): 7539 Equipment Rental and Leasing, NEC

60264891 1 Active 08/05/94 OFF No
 Description from Generator: Petroleum contaminated solids. Non-hazardous. Sand, silt, grit, residual hydraulic oil, grease and paint chips accumulate from cleaning of oil field pipe, parts, and equipment.

Form Code: 489 Petroleum contaminated solids
 Current Management Units: None
 * Origin Codes: 1 Onsite-process/service

60283131 1 Active 12/28/96 OFF No
 Description from Generator: Used tires removed from trucks & equipment. Tires are no longer in service & are sent to tire recycler.

Form Code: 319 Other waste inorganic solids
 Current Management Units: None
 * Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

6029209H R Active 09/18/95 OFF No
 Description from Generator: Waste paint aerosol cans used for painting oil field tools & equipment. Oil field tools & equipment are painted as needed between use. Waste includes paint aerosol cans with residual paint & propellant

Form Code: 209 Organic paint, ink, lacquer, or varnish
 EPA Hazardous Waste Numbers: D001 F003 F005
 Current Management Units: None

* Source Codes: 1 Onsite-process/service
 * SIC Codes: A21 Painting
 1 Before mixing
 1385 Oil & Gas Field Services, Not Elsewhere Found

7359 Equipment Rental and Leasing, NEC 3533 Oil Field Machinery & Equipment

60304891 1 Active 09/18/95 OFF No
 Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are serviced & cleaned at facility between rentals. Waste includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.

Form Code: 485 Petroleum contaminated solids
 Current Management Units: None
 * Origin Codes: 1 Onsite-process/service

INW020

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***

Notice of Registration

Industrial and Hazardous Waste

Page: 5
Date: 02/20/97

75327 Weatherford U.S., Inc.

Texas Waste Status Date of
Waste Class Status Managed
Code Offsite/ active TRRC Audit
Complete

***** Active Status *****

633109H H Active 09/18/95 OF No No
Description from Generator: Spent caustic solution used for striping paint & grease from oil field rental tools
during cleaning process. Waste includes mixed solution of water, sodium hydroxide, oil,
grease & paint.EPA Hazardous Waste Numbers: 109 Spent caustic
D002 D006 E007 E008

Current Management Units: None

* Origin Codes: 1 Onsite-process/service
* Source Codes: A01 Caustic (alkali) cleaning
* Measurement Points: 1 Before mixing
* SIC Codes: 1399 Oil & Gas field services, Not Elsewhere Found

990002 H Active Off No

Description from Generator: D001 CHARACTERISTIC OF IDENTIFIABILITY

Form Code:

EPA Hazardous Waste Numbers: D018 D019

Current Management Units: None

* Origin Codes:

* This first value is considered the primary value (e.g. primary origin code).
As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

** No Longer Generated Wastes **

00196951 I Inactive 09/18/95 BA No No

Description from Generator: Petroleum contaminated sludge from sump. Tools are steam cleaned and washed to remove
lubricant, dirt, paint, scale and corrosion. Liquids are removed and this sludge remains.

Form Code:

Current Management Units: None

* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sump Sludge

002346931 I Inactive 09/18/95 BA No No

Description from Generator: Pipe coating. Non hazardous. Pipe coating is applied to oil field drilling pipe to inhibit
corrosion. Drilled/solidified accumulations of the drippings from the application process
are collected for disposal.

Form Code: 489 Petroleum contaminated solids

Current Management Units: None

* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Pipe coatings/drippings

As of 09/18/1995, the next unassigned sequence number for WASTES is 6032.

TRACE ANALYSIS, INC.

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4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800-378-1293 HW-194-1293 FAX 806-791-1788
El Paso, Texas 79977 HH-588-3443 915-585-3443 FAX 015-585-4844
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR LLANO PERMIAN ENVIRONMENTAL

November 8, 1999
Receiving Date: 10/29/99
Sample Type: Sludge
Project #: WEA.005.GCI
Project Location: Odessa, Texas

Attention: Terry James
4104 West 53rd Avenue East
Amarillo, Texas 79109-3234

Extraction Date: 11/03/99
Analysis Date: 11/04/99
Sampling Date: 10/30/99
Sample Condition: I & C
Sample Received by: RR
Project Name: Weatherford Loop

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T134575 WEA.005.HWD	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	66	1	39	109
1,4-Dichlorobenzene	7.5	0.05	ND	63	2	50	104
o-Cresol	200.0	0.05	ND	59	2	47	98
m,p-Cresol	200.0	0.05	ND	59	3	44	98
Hexachloroethane	3.0	0.05	ND	63	1	51	105
Nitrobenzene	2.0	0.05	ND	63	3	66	105
Hexachlorobutadiene	0.5	0.05	ND	65	2	56	108
2,4,6-Trichlorophenol	2.0	0.05	ND	62	3	48	103
2,4,5-Trichlorophenol	400.0	0.05	ND	58	2	60	98
2,4-Dinitrotoluene	0.13	0.05	ND	68	9	63	113
2,4-D	10.0	0.05	ND	68	10	69	113
Hexachlorobenzene	0.13	0.05	ND	64	4	75	107
2,4,5-TP	1.0	0.05	ND	66	4	80	110
Pentachlorophenol	100.0	0.05	ND	63	5	68	104

SURROGATES	% Recovery
2-Fluorophenol	45
Phenol-d8	28
Nitrobenzene-d5	81
2-Fluorobiphenyl	82
2,4,6-Tribromophenol	81
Terphenyl-d14	76

ND = Not Detected
METHODS: EPA SW 846-1311, 8270
CHEMIST: MA



Director, Dr. Blair Leftwich

11-8-99

Date

TRACE ANALYSIS, INC.

6781 Alameda Avenue, Suite 9
4725 Ripley Avenue, Suite 2
Lubbock, Texas 79424 800-338-1236 806-794-1236 FAX 806-794-1238
El Paso, Texas 79922 803-538-3442 915-581-3443 FAX 915-581-3444
E-Mail: info@traceanalysis.com

November 8, 1999
Receiving Date: 10/29/99
Sample Type: Sludge
Project #: WEA.005 GCI
Project Location: Odessa, Texas

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Terry James
4104 West 33rd Avenue East
Amarillo, Texas 79109-3234

Extraction Date: 11/04/99
Analysis Date: 11/04/99
Sampling Date: 10/30/99
Sample Condition: L & C
Sample Received by: RR
Project Name: Weatherford Loop

TAN	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
T134575	WEA.005.HWD	Non-reactive	<10	<2.5	Non-corrosive	7.00	Non-ignitable

RPD	0	0	0	0	0	0	0
% Extraction Accuracy	100	100	100	100	100	98	100
% Instrument Accuracy	---	---	---	---	---	---	---

METHODS: EPA SW 846-Chapter 7.7.3, Chapter 7.7.2, Chapter 7.7.1.
CHEMIST: JIM

Director: Dr. Blair Leftwich

Date

BL

11-8-99

TRACE ANALYSIS, INC.

6721 Alvarado Avenue, Suite C Lubbock, Texas 79424 (806) 794-1236 FAX (806) 794-1238
 2725 Taylor Avenue, Suite A El Paso, Texas 79922 (938) 588-3442 (938) 585-3443 FAX (938) 585-4544
 E-Mail: Lab@TraceAnalysis.com

ANALYTICAL RESULTS FOR

LLANO PERMIAN ENVIRONMENTAL

November 8, 1999
 Receiving Date: 10/29/99
 Sample Type: Sludge
 Project #: WEA.006.GCI
 Project Location: Odessa, Texas

Attention: Terry James
 4104 West 33rd Avenue East
 Amarillo, Texas 79109-3234

Sampling Date: 10/30/99
 Sample Condition: 1 & C
 Sample Received by: RR
 Project Name: Weatherford Loop

TS#	FIELD CODE	(mg/L)	TCLP As	(mg/L)	TCLP Ba	(mg/L)	TCLP Cd	(mg/L)	TCLP Cr	(mg/L)	TCLP Pb	(mg/L)	TCLP Se	(mg/L)	TCLP Ag	(mg/L)	TCLP Hg	(mg/L)
	EPA LIMIT =	5.0		100		1.0		5.0		5.0		5.0		1.0		5.0		0.20
T134575	WEA.005.HWD	<0.50		0.55		<0.02		<0.10		<0.20		<0.50		<0.05		<0.010		
ICV		0.97		0.97		0.97		0.97		0.98		0.96		0.96		0.191		0.00497
CCV		0.96		0.98		0.99		0.98		1.00		0.95		0.201		0.00508		
REPORTING LIMIT		0.50		0.10		0.02		0.10		0.20		0.50		0.05		0.010		

REP	3	2	2	3	3	4	3	3
% Extraction Accuracy	108	101	99	101	88	107	99	81
% Instrument Accuracy	96	97	98	97	99	95	98	100

EXTRACTION DATE: 11/01/99 11/01/99 11/01/99 11/01/99 11/01/99 11/01/99 11/01/99 11/01/99
 ANALYSIS DATE: 11/03/99 11/03/99 11/03/99 11/03/99 11/03/99 11/03/99 11/03/99 11/03/99

METHODS: EPA 846-1311, 6010B, 7470A
 CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba, Rr, Hg, BP
 TOTAL METALS SPIKE: 10 mg/L As, Se, Cd, Cr, Pb, Ba, 2.0 mg/L Ag Hg SPIKE 0.050 mg/L
 TOTAL METALS CV: 1.0 mg/L As, Se, Pb, Ba, Cr 0.20 mg/L Ag Hg CV: 0.0050 mg/L

Director, Dr. Blair Lethrich

Date

BS

11-8-99



TRACEANALYSIS, INC.

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ANALYTICAL RESULTS FOR LLANO PERMIAN ENVIRONMENTAL

Attention: Terry James
4104 West 33rd Avenue East
Amarillo, Texas 79109-3234

November 8, 1999
Receiving Date: 10/29/99
Sample Type: Sludge
Project #: WEA.005.GCI
Project Location: Odessa, Texas

Extraction Date: 11/02/99
Analysis Date: 11/03/99
Sampling Date: 10/30/99
Sample Condition: I & C
Sample Received by: RR
Project Name: Weatherford Loop

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T134575 WEA.005.HWD	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	108	3	114	108
1,1-Dichloroethene	0.70	0.05	ND	98	2	138	98
Methyl Ethyl Ketone	200.0	0.5	ND	105	6	113	105
Chloroform	6.00	0.05	ND	93	3	110	93
1,2-Dichloroethene	0.50	0.05	ND	88	3	104	88
Benzene	0.50	0.05	ND	99	3	116	99
Carbon Tetrachloride	0.50	0.05	ND	110	2	133	110
Trichloroethene	0.50	0.05	ND	97	1	116	97
Tetrachloroethene	0.70	0.05	ND	103	1	120	103
Chlorobenzene	100.00	0.05	ND	99	1	110	99
1,4-Dichlorobenzene	7.50	0.05	ND	96	1	108	96

SURROGATES	% Recovery
Dibromofluoromethane	95
Toluene-d8	104
4-Bromofluorobenzene	95

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.
CHEMIST: JG


Director, Dr. Blair Leftwich

11-8-99
Date

Report Date: 11/3/99
WFA:005.GCI

Order ID Number: 99103002
Weatherford Loop

Page Number: 2 of 2
Odessa, TX

Analytical Results Report

Sample Number: 134575
Description: WFA.005.HWD

Param	Flag	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDI
TRPHC (mg/Kg)		126000	1	1418.1	11/2/99	11/2/99	MM	FB02948	QC03796	10

Quality Control Report Continuing Calibration Verification Standard

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TRPHC (mg/Kg)		100	107	107	70 - 130	11/2/99	QC03796
CCV (1	TRPHC (mg/Kg)		100	105	105	70 - 130	11/2/99	QC03796
CCV (2	TRPHC (mg/Kg)		100	104	104	70 - 130	11/2/99	QC03796



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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Terry James
Llano Permian Environmental
4104 West 33rd Avenue East
Amarillo, TX 79109-3234

Report Date: 11/3/99

Project Number: WEA.005.GCI
Project Name: Weatherford Loop
Project Location: Odessa, TX

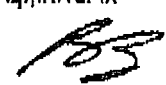
Order ID Number: 99103002

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace Analysis, Inc. for analysis:

Sample Number	Sample Description	Matrix	Date Taken	Time Taken	Date Received
134575	WEA.005.HWD	Sludge	10/29/99	9:00	10/30/99

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 2 pages and shall not be reproduced except in its entirety, without written approval of Trace Analysis, Inc.


Dr. Blair Leftwich, Director

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

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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Environmental Bureau
Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 2401 Sivley	Artesia, 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:

The following analytical is from the BJ Services Artesia Facility. The material was generated by washing dirt and mud off of servicing equipment. I am enclosing a Certificate of Waste Status, letter from the NMOCD extending the life of the sampling analysis, analytical and chain of custody. This material has been approved in the past.

10-002

Estimated Volume 200 bbl.s cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 10-13-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Specialist DATE: 10-18-99
APPROVED BY: Martyn J. King TITLE: Environmental Geologist DATE: 10/20/99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BT Services
ADDRESS 2401 Sivley
GENERATING SITE Artesia Facility
COUNTY Eddy STATE NM
TYPE OF WASTE Wash Rack Sludge
ESTIMATED VOLUME _____
GENERATING PROCESS Washing dirt & mud
off of servicing equipment
REMARKS N/A
NMOCD FACILITY CR1
TRUCKING COMPANY CR1

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Perry Britton
SIGNATURE
NAME Perry Britton
PRINTED
ADDRESS 2401 Sivley
Artesia N.M. 88210
DATE 10-13-99

**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT****OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87506
(505) 827-7131**

March 24, 1999

**CERTIFIED MAIL
RETURN RECEIPT NO. P-326-936-524**

Mr. Mike Wiggins
BJ Services Company
2401 Sivley,
Artesia, NM 88210

Re: **BJ Services Co.**
Artesia NM, Wash Rack Sludge Waste Stream

Dear Mr. Wiggins:

The New Mexico Oil Conservation Division (OCD) has received the BJ Services Company (BJ) request to extend the life of the sampling analysis of the wash rack sludge waste stream. BJ's current wash rack sludge waste stream sample analysis is hereby approved until June 13, 2000, the expiration of the current Artesia facility discharge plan. If any changes or modifications are made to the Artesia BJ facility prior to this date a new waste analysis will be required prior to any waste disposal. New sample analysis on the above referenced waste stream will be required for this waste to be disposed of after June 13, 2000.

Disposal of this waste stream at an OCD approved surface waste management facility (711 facility) will require the 711 facility to submit a C-138, generator certificate of waste status, a copy of the analytical report for the wash rack sludge collected on January 14, 1998, and a copy of this approval letter.

Please be advised that this approval does not relieve BJ of liability should their operation result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve BJ of responsibility for compliance with other federal, state or local laws and/or regulations.

If there are any questions, please call me at (505) 827-7153.

Sincerely,

A handwritten signature in cursive script, appearing to read "Martyne J. Kielling".

Martyne J. Kielling
Environmental Geologist

xc: Hobbs OCD Office
Artesia OCD Office

**Certificate of
Analysis**

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

512 892-6684 Direct
512 892-6652 Fax



ANALYTICAL REPORT

ARTESIA, NM

Lot #: 18A160124

DAVID BURKETT

B.J. Services Company

QUANTERRA INCORPORATED

A handwritten signature in cursive script, appearing to read "Sandra L. Green".

Sandra L. Green
Project Manager

February 6, 1998

EXECUTIVE SUMMARY - Detection Highlights

I8A160124

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
WASH RACK SLUDGE 01/14/98 08:30 001				
Flashpoint	>150	>150	deg F	SW846 1010
Total Recoverable Petroleum Hydrocarbons	19000	760	mg/kg	MCAWW 418.1
Corrosivity	7.3	1.0	No Units	SW846 9045A
Percent Moisture	34.1	0.50	%	OCLP OLM03.1

ANALYTICAL METHODS SUMMARY

I8A160124

PARAMETER	ANALYTICAL METHOD
% Moisture, Decanted-CLP	OCLEP 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 8240B

References:

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

SAMPLE SUMMARY

I8A160124

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CEX9V	001	WASH RACK SLUDGE	01/14/98	08:00

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.

B.J. SERVICES COMPANY
Client Sample ID: WASH RACK SLUDGE
TCLP GC/MS Semivolatiles

Lot-Sample #....: I8A160124-001	Work Order #....: CEX9V107	Matrix.....: SOLID
Date Sampled....: 01/14/98 08:30	Date Received...: 01/16/98	
Leach Date.....: 01/21/98	Prep Date.....: 01/26/98	Analysis Date...: 01/28/98
Leach Batch #...: P802109	Prep Batch #....: 8026185	Analysis Time...: 09:52
Dilution Factor: 1		
% Moisture.....: 34		

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	38	(21 - 100)
Phenol-d5	32	(10 - 94)
Nitrobenzene-d5	69	(35 - 114)
2-Fluorobiphenyl	64	(43 - 116)
2,4,6-Tribromophenol	111	(10 - 123)
Terphenyl-d14	114	(33 - 141)

NOTE(S):

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

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #....: I8A160124-001	Work Order #....: CEX9V108	Matrix.....: SOLID
Date Sampled....: 01/14/98 08:30	Date Received...: 01/16/98	
Leach Date.....: 01/21/98	Prep Date.....: 02/05/98	Analysis Date...: 02/05/98
Leach Batch #...: P802108	Prep Batch #....: 8036228	Analysis Time...: 23:05
Dilution Factor: 1		
% Moisture.....: 34		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	0.050	mg/L	SW846 8240B
Carbon tetrachloride	ND	0.050	mg/L	SW846 8240B
Chlorobenzene	ND	0.050	mg/L	SW846 8240B
Chloroform	ND	0.050	mg/L	SW846 8240B
1,2-Dichloroethane	ND	0.050	mg/L	SW846 8240B
1,1-Dichloroethylene	ND	0.050	mg/L	SW846 8240B
Methyl ethyl ketone	ND	0.20	mg/L	SW846 8240B
Tetrachloroethylene	ND	0.050	mg/L	SW846 8240B
Trichloroethylene	ND	0.050	mg/L	SW846 8240B
Vinyl chloride	ND	0.10	mg/L	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	100	(86 - 115)
1,2-Dichloroethane-d4	93	(76 - 114)
Toluene-d8	93	(88 - 110)

NOTE(S):

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

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

General Chemistry

Lot-Sample #....: IBA160124-001 Work Order #....: CEX9V Matrix.....: SOLID
Date Sampled...: 01/14/98 08:30 Date Received...: 01/16/98
% Moisture.....: 34

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Corrosivity	7.3	1.0	No Units	SW846 9045A	01/19/98	8020112
	Dilution Factor: 1 Analysis Time...: 13:00					
Flashpoint	>150	>150	deg F	SW846 1010	01/23/98	8026151
	Dilution Factor: 1 Analysis Time...: 00:00					
Percent Moisture	34.1	0.50	%	OCLP OLM03.1	01/20-01/21/98	8020237
	Dilution Factor: 1 Analysis Time...: 13:00					
Reactive Cyanide	ND	300	mg/kg	SW846 7.3.3	01/21-01/22/98	8022182
	Dilution Factor: 1 Analysis Time...: 11:16					
Reactive Sulfide	ND	300	mg/kg	SW846 7.3.4	01/21-01/22/98	8022189
	Dilution Factor: 1 Analysis Time...: 00:00					
Total Recoverable Petroleum Hydrocarbons	19000	760	mg/kg	MCAWW 418.1	01/26-01/27/98	8026164
	Dilution Factor: 50 Analysis Time...: 15:00					

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.



Environmental
Services

D.S. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

TCLP Metals

Lot-Sample #....: I8A160124-001

Matrix.....: SOLID

Date Sampled....: 01/14/98 08:30 Date Received...: 01/16/98

Leach Date.....: 01/21/98 Leach Batch #...: P802109

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER
Prep Batch #....: 8023178						
Silver	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time...: 12:33				
Arsenic	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time...: 12:33				
Barium	ND	20.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time...: 12:33				
Cadmium	ND	0.20	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time...: 12:33				
Chromium	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time...: 12:33				
Lead	ND	1.0	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time...: 12:33				
Selenium	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10
		Dilution Factor: 2				
		Analysis Time...: 12:33				
Prep Batch #....: 8026167						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/26/98	CEX9V10
		Dilution Factor: 1				
		Analysis Time...: 15:53				

NOTE(S):

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

QC DATA ASSOCIATION SUMMARY

I8A160124

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 1010		8026151	8026034
	SOLID	MCAWW 418.1		8026164	8026045
	SOLID	SW846 6010A	P802109	8023178	8023051
	SOLID	SW846 9045A		8020112	8020009
	SOLID	OCLP OLM03.1		8020237	8021086
	SOLID	SW846 7.3.3		8022182	8022046
	SOLID	SW846 7.3.4		8022189	8022048
	SOLID	SW846 8270B	P802109	8026185	8026060
	SOLID	SW846 8240B	P802108	8036228	8037030
	SOLID	SW846 7470A	P802109	8026167	8026051

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #....: I8A160124
MB Lot-Sample #: I8A210000-228
Leach Date.....: 01/21/98
Leach Batch #...: P802109
Dilution Factor: 1

Work Order #....: CF1H8109
Prep Date.....: 01/26/98
Prep Batch #....: 8026185

Matrix.....: SOLID
Analysis Date...: 01/27/98
Analysis Time...: 20:56

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	42	(21 - 100)
Phenol-d5	31	(10 - 94)
Nitrobenzene-d5	71	(35 - 114)
2-Fluorobiphenyl	65	(43 - 116)
2,4,6-Tribromophenol	77	(10 - 123)
Terphenyl-d14	99	(33 - 141)

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: I8A160124
MB Lot-Sample #: I8B050000-228

Work Order #....: CF814101

Matrix.....: SOLID

Analysis Date...: 02/06/98
Dilution Factor: 1

Prep Date.....: 02/05/98
Prep Batch #....: 8036228

Analysis Time...: 00:07

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Benzene	ND	0.050	mg/L		SW846 8240B
Carbon tetrachloride	ND	0.050	mg/L		SW846 8240B
Chlorobenzene	ND	0.050	mg/L		SW846 8240B
Chloroform	ND	0.050	mg/L		SW846 8240B
1,2-Dichloroethane	ND	0.050	mg/L		SW846 8240B
1,1-Dichloroethylene	ND	0.050	mg/L		SW846 8240B
Methyl ethyl ketone	ND	0.20	mg/L		SW846 8240B
Tetrachloroethylene	ND	0.050	mg/L		SW846 8240B
Trichloroethylene	ND	0.050	mg/L		SW846 8240B
Vinyl chloride	ND	0.10	mg/L		SW846 8240B

SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
4-Bromofluorobenzene	106		(86 - 115)	
1,2-Dichloroethane-d4	99		(76 - 114)	
Toluene-d8	103		(88 - 110)	

NOTE(S):

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



Environmental
Services

METHOD BLANK REPORT

TCLP Metals

Client Lot #....: I8A160124

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I8A210000-228 Prep Batch #....: 8026167						
Leach Date.....: 01/21/98 Leach Batch #...: P802109						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/26/98	CF1H810
Dilution Factor: 1						
Analysis Time...: 15:44						
MB Lot-Sample #: I8A210000-228 Prep Batch #....: 8023178						
Leach Date.....: 01/21/98 Leach Batch #...: P802109						
Silver	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
Dilution Factor: 1						
Analysis Time...: 12:28						
Arsenic	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
Dilution Factor: 1						
Analysis Time...: 12:28						
Barium	ND	10.0	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
Dilution Factor: 1						
Analysis Time...: 12:28						
Cadmium	ND	0.10	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
Dilution Factor: 1						
Analysis Time...: 12:28						
Chromium	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
Dilution Factor: 1						
Analysis Time...: 12:28						
Lead	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
Dilution Factor: 1						
Analysis Time...: 12:28						
Selenium	ND	0.25	mg/L	SW846 6010A	01/23-01/26/98	CF1H810
Dilution Factor: 1						
Analysis Time...: 12:28						

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #....: I8A160124

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	01/21-01/22/98	802218
Work Order #: CF216101 MB Lot-Sample #: I8A220000-182 Dilution Factor: 1 Analysis Time...: 11:16						
Reactive Sulfide	ND	200	mg/kg	SW846 7.3.4	01/21-01/22/98	802218
Work Order #: CF22G101 MB Lot-Sample #: I8A220000-189 Dilution Factor: 1 Analysis Time...: 14:00						
Total Recoverable Petroleum Hydrocarbons	ND	10	mg/kg	MCAWW 418.1	01/26-01/27/98	802618
Work Order #: CF3EH101 MB Lot-Sample #: I8A260000-164 Dilution Factor: 1 Analysis Time...: 15:00						

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #....: I8A160124 Work Order #....: CF3FX101 Matrix.....: SOLID
LCS Lot-Sample#: I8A260000-185
Prep Date.....: 01/26/98 Analysis Date...: 01/27/98
Prep Batch #....: 8026185 Analysis Time...: 21:26
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Pyridine	0.40	0.14	mg/L	35	SW846 8270
1,4-Dichlorobenzene	0.40	0.24	mg/L	60	SW846 8270
o-Cresol	0.40	0.23	mg/L	58	SW846 8270
m-Cresol & p-Cresol	0.80	0.41	mg/L	51	SW846 8270
Hexachloroethane	0.40	0.23	mg/L	57	SW846 8270
Nitrobenzene	0.40	0.24	mg/L	61	SW846 8270
Hexachlorobutadiene	0.40	0.23	mg/L	57	SW846 8270
2,4,6-Trichlorophenol	0.40	0.26	mg/L	64	SW846 8270
2,4,5-Trichlorophenol	0.40	0.24	mg/L	60	SW846 8270
2,4-Dinitrotoluene	0.40	0.25	mg/L	62	SW846 8270
Hexachlorobenzene	0.40	0.37	mg/L	93	SW846 8270
Pentachlorophenol	0.40	0.37	mg/L	93	SW846 8270

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(21 - 100)
Phenol-d5	27	(10 - 94)
Nitrobenzene-d5	60	(35 - 114)
2-Fluorobiphenyl	55	(43 - 116)
2,4,6-Tribromophenol	72	(10 - 123)
Terphenyl-d14	102	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT
GC/MS Semivolatiles

Client Lot #....: I8A160124 Work Order #....: CF3FX101 Matrix.....: SOLID
 LCS Lot-Sample#: I8A260000-185
 Prep Date.....: 01/26/98 Analysis Date...: 01/27/98
 Prep Batch #....: 8026185 Analysis Time...: 21:26
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Pyridine	35	(1.0 - 144)	SW846 8270B
1,4-Dichlorobenzene	60	(26 - 112)	SW846 8270B
o-Cresol	58	(21 - 137)	SW846 8270B
m-Cresol & p-Cresol	51	(19 - 126)	SW846 8270B
Hexachloroethane	57	(26 - 102)	SW846 8270B
Nitrobenzene	61	(42 - 120)	SW846 8270B
Hexachlorobutadiene	57	(33 - 111)	SW846 8270B
2,4,6-Trichlorophenol	64	(19 - 122)	SW846 8270B
2,4,5-Trichlorophenol	60	(29 - 123)	SW846 8270B
2,4-Dinitrotoluene	62	(31 - 106)	SW846 8270B
Hexachlorobenzene	93	(42 - 120)	SW846 8270B
Pentachlorophenol	93	(12 - 156)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	38	(21 - 100)
Phenol-d5	27	(10 - 94)
Nitrobenzene-d5	60	(35 - 114)
2-Fluorobiphenyl	55	(43 - 116)
2,4,6-Tribromophenol	72	(10 - 123)
Terphenyl-d14	102	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: I8A160124 Work Order #....: CF814102 Matrix.....: SOLID
LCS Lot-Sample#: I8B050000-228
Prep Date.....: 02/05/98 Analysis Date...: 02/05/98
Prep Batch #....: 8036228 Analysis Time...: 23:36
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Vinyl chloride	0.50	0.47	mg/L	94	SW846 8240B
1,1-Dichloroethylene	0.50	0.53	mg/L	106	SW846 8240B
Chloroform	0.50	0.51	mg/L	103	SW846 8240B
1,2-Dichloroethane	0.50	0.52	mg/L	105	SW846 8240B
Methyl ethyl ketone	0.50	0.41	mg/L	82	SW846 8240B
Carbon tetrachloride	0.50	0.49	mg/L	98	SW846 8240B
Trichloroethylene	0.50	0.52	mg/L	103	SW846 8240B
Benzene	0.50	0.52	mg/L	104	SW846 8240B
Tetrachloroethylene	0.50	0.53	mg/L	105	SW846 8240B
Chlorobenzene	0.50	0.53	mg/L	107	SW846 8240B
1,4-Dichlorobenzene	0.50	0.52	mg/L	105	SW846 8240B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(86 - 115)
1,2-Dichloroethane-d4	97	(76 - 114)
Toluene-d8	100	(88 - 110)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: I8A160124 Work Order #....: CF814102 Matrix.....: SOLID
 LCS Lot-Sample#: I8B050000-228
 Prep Date.....: 02/05/98 Analysis Date...: 02/05/98
 Prep Batch #....: 8036228 Analysis Time...: 23:36
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Vinyl chloride	94	(1.0- 251)	SW846 8240B
1,1-Dichloroethylene	106	(59 - 155)	SW846 8240B
Chloroform	103	(51 - 136)	SW846 8240B
1,2-Dichloroethane	105	(49 - 155)	SW846 8240B
Methyl ethyl ketone	82	(25 - 250)	SW846 8240B
Carbon tetrachloride	98	(71 - 240)	SW846 8240B
Trichloroethylene	103	(71 - 157)	SW846 8240B
Benzene	104	(37 - 151)	SW846 8240B
Tetrachloroethylene	105	(46 - 157)	SW846 8240B
Chlorobenzene	107	(37 - 160)	SW846 8240B
1,4-Dichlorobenzene	105	(75 - 137)	SW846 8240B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	102	(86 - 115)
1,2-Dichloroethane-d4	97	(76 - 114)
Toluene-d8	100	(88 - 110)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #....: I8A160124

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I8A230000-178 Prep Batch #....: 8023178							
Arsenic	2.0	2.1	mg/L	106	SW846 6010A	01/23-01/26/98	CF2HC101
			Dilution Factor: 1				
			Analysis Time...: 12:30				
Barium	2.0	2.1	mg/L	105	SW846 6010A	01/23-01/26/98	CF2HC102
			Dilution Factor: 1				
			Analysis Time...: 12:30				
Cadmium	0.050	0.050	mg/L	101	SW846 6010A	01/23-01/26/98	CF2HC103
			Dilution Factor: 1				
			Analysis Time...: 12:30				
Chromium	0.20	0.21	mg/L	104	SW846 6010A	01/23-01/26/98	CF2HC104
			Dilution Factor: 1				
			Analysis Time...: 12:30				
Lead	0.50	0.51	mg/L	102	SW846 6010A	01/23-01/26/98	CF2HC105
			Dilution Factor: 1				
			Analysis Time...: 12:30				
Selenium	2.0	2.1	mg/L	105	SW846 6010A	01/23-01/26/98	CF2HC106
			Dilution Factor: 1				
			Analysis Time...: 12:30				
Silver	0.050	0.046	mg/L	93	SW846 6010A	01/23-01/26/98	CF2HC107
			Dilution Factor: 1				
			Analysis Time...: 12:30				
LCS Lot-Sample#: I8A260000-167 Prep Batch #....: 8026167							
Mercury	0.0050	0.0053	mg/L	105	SW846 7470A	01/26/98	CF3F0101
			Dilution Factor: 1				
			Analysis Time...: 15:46				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #....: I8A160124

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: I8A230000-178 Prep Batch #....: 8023178					
Arsenic	106	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC101
		Dilution Factor: 1			
		Analysis Time...: 12:30			
Barium	105	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC102
		Dilution Factor: 1			
		Analysis Time...: 12:30			
Cadmium	101	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC103
		Dilution Factor: 1			
		Analysis Time...: 12:30			
Chromium	104	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC104
		Dilution Factor: 1			
		Analysis Time...: 12:30			
Lead	102	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC105
		Dilution Factor: 1			
		Analysis Time...: 12:30			
Selenium	105	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC106
		Dilution Factor: 1			
		Analysis Time...: 12:30			
Silver	93	(80 - 120)	SW846 6010A	01/23-01/26/98	CF2HC107
		Dilution Factor: 1			
		Analysis Time...: 12:30			
LCS Lot-Sample#: I8A260000-167 Prep Batch #....: 8026167					
Mercury	105	(80 - 120)	SW846 7470A	01/26/98	CF3F0101
		Dilution Factor: 1			
		Analysis Time...: 15:46			

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #....: I8A160124

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Flashpoint	81	80	deg F	98	SW846 1010	01/23-01/26/98	8026151

Work Order #: CF3CV101 LCS Lot-Sample#: I8A260000-151
Dilution Factor: 1
Analysis Time...: 14:00

Reactive Cyanide	40	0.19 N	mg/kg	0.46	SW846 7.3.3	01/21-01/22/98	8022182
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Work Order #: CF216102 LCS Lot-Sample#: I8A220000-182
Dilution Factor: 1
Analysis Time...: 11:16

Total Recoverable Petroleum Hydrocarbons	250	240	mg/kg	96	MCAWW 418.1	01/26-01/27/98	8026164
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Work Order #: CF3EH102 LCS Lot-Sample#: I8A260000-164
Dilution Factor: 1
Analysis Time...: 15:00

NOTE(S):

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

N Spiked analytic recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: I8A160124

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Flashpoint	98	Work Order #: CF3CV101 (95 - 105)	LCS Lot-Sample#: I8A260000-151 SW846 1010	01/23-01/26/98	8026151
Dilution Factor: 1 Analysis Time...: 14:00					
Reactive Cyanide	0.46 N	Work Order #: CF216102 (1.0- 64)	LCS Lot-Sample#: I8A220000-182 SW846 7.3.3	01/21-01/22/98	8022182
Dilution Factor: 1 Analysis Time...: 11:16					
Total Recoverable Petroleum Hydrocarbons	96	Work Order #: CF3EH102 (70 - 130)	LCS Lot-Sample#: I8A260000-164 MCAWW 418.1	01/26-01/27/98	8026164
Dilution Factor: 1 Analysis Time...: 15:00					

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #....: I8A160124
Date Sampled....: 01/14/98 10:10 Date Received...: 01/15/98

Matrix.....: SOLID

PARAMETER	AMOUNT	SAMPLE AMT	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: I8A160124-001 Prep Batch #....: 8023178										
Leach Date.....: 01/21/98 Leach Batch #...: P802109										
Silver										
ND		1.0	0.98	mg/L	97			SW846 6010A	01/23-01/26/98	CEX9V
ND		1.0	0.96	mg/L	95	1.8		SW846 6010A	01/23-01/26/98	CEX9V
Dilution Factor: 2										
Analysis Time...: 12:37										
Arsenic										
ND		5.0	5.1	mg/L	102			SW846 6010A	01/23-01/26/98	CEX9V
ND		5.0	5.0	mg/L	100	2.4		SW846 6010A	01/23-01/26/98	CEX9V
Dilution Factor: 2										
Analysis Time...: 12:37										
Barium										
ND		50.0	49.3	mg/L	97			SW846 6010A	01/23-01/26/98	CEX9V
ND		50.0	48.7	mg/L	96	1.1		SW846 6010A	01/23-01/26/98	CEX9V
Dilution Factor: 2										
Analysis Time...: 12:37										
Cadmium										
ND		1.0	0.99	mg/L	97			SW846 6010A	01/23-01/26/98	CEX9V
ND		1.0	0.98	mg/L	97	0.80		SW846 6010A	01/23-01/26/98	CEX9V
Dilution Factor: 2										
Analysis Time...: 12:37										
Chromium										
ND		5.0	4.9	mg/L	98			SW846 6010A	01/23-01/26/98	CEX9V
ND		5.0	4.9	mg/L	98	0.78		SW846 6010A	01/23-01/26/98	CEX9V
Dilution Factor: 2										
Analysis Time...: 12:37										
Lead										
ND		5.0	4.9	mg/L	98			SW846 6010A	01/23-01/26/98	CEX9V
ND		5.0	4.9	mg/L	99	0.95		SW846 6010A	01/23-01/26/98	CEX9V
Dilution Factor: 2										
Analysis Time...: 12:37										
Selenium										
ND		1.0	0.96	mg/L	96			SW846 6010A	01/23-01/26/98	CEX9V
ND		1.0	0.93	mg/L	93	2.9		SW846 6010A	01/23-01/26/98	CEX9V
Dilution Factor: 2										
Analysis Time...: 12:37										

MS Lot-Sample #: I8A160124-001 Prep Batch #....: 8026167
Leach Date.....: 01/21/98 Leach Batch #...: P802109
(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8A160124

Matrix.....: SOLID

Date Sampled...: 01/14/98 10:10 Date Received...: 01/15/98

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER
Mercury									
	ND	0.001	0.0010	mg/L	90		SW846 7470A	01/26/98	CEX9V1
	ND	0.001	0.0010	mg/L	89	1.0	SW846 7470A	01/26/98	CEX9V1

Dilution Factor: 1

Analysis Time...: 15:55

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #....: I8A160124

Matrix.....: SOLID

Date Sampled....: 01/14/98 10:10 Date Received...: 01/15/98

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD LIMITS	RPD	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I8A160124-001 Prep Batch #....: 8023178							
Leach Date.....: 01/21/98 Leach Batch #...: P802109							
Silver	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V114
	95	(80 - 120) 1.8	(0-20)		SW846 6010A	01/23-01/26/98	CEX9V115
Dilution Factor: 2							
Analysis Time...: 12:37							
Arsenic	102	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10P
	100	(80 - 120) 2.4	(0-20)		SW846 6010A	01/23-01/26/98	CEX9V10Q
Dilution Factor: 2							
Analysis Time...: 12:37							
Barium	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10R
	96	(80 - 120) 1.1	(0-20)		SW846 6010A	01/23-01/26/98	CEX9V10T
Dilution Factor: 2							
Analysis Time...: 12:37							
Cadmium	97	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10U
	97	(80 - 120) 0.80	(0-20)		SW846 6010A	01/23-01/26/98	CEX9V10V
Dilution Factor: 2							
Analysis Time...: 12:37							
Chromium	98	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V10W
	98	(80 - 120) 0.78	(0-20)		SW846 6010A	01/23-01/26/98	CEX9V10X
Dilution Factor: 2							
Analysis Time...: 12:37							
Lead	98	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V110
	99	(80 - 120) 0.95	(0-20)		SW846 6010A	01/23-01/26/98	CEX9V111
Dilution Factor: 2							
Analysis Time...: 12:37							
Selenium	96	(80 - 120)			SW846 6010A	01/23-01/26/98	CEX9V112
	93	(80 - 120) 2.9	(0-20)		SW846 6010A	01/23-01/26/98	CEX9V113
Dilution Factor: 2							
Analysis Time...: 12:37							

MS Lot-Sample #: I8A160124-001 Prep Batch #....: 8026167

Leach Date.....: 01/21/98 Leach Batch #...: P802109

Mercury	90	(75 - 125)			SW846 7470A	01/26/98	CEX9V119
	89	(75 - 125) 1.0	(0-20)		SW846 7470A	01/26/98	CEX9V11A
Dilution Factor: 1							
Analysis Time...: 15:55							

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TCLP GC/MS Semivolatiles

Client Lot #....: I8A160124 Work Order #....: CEX9V11C-MS Matrix.....: SOLID
MS Lot-Sample #: I8A160124-001 CEX9V11D-MSD
Date Sampled....: 01/14/98 08:30 Date Received...: 01/16/98
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date...: 01/27/98
Leach Batch #...: P802109 Prep Batch #....: 8026185 Analysis Time...: 22:26
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	ND	0.40	0.28	mg/L	71		SW846 8270B
	ND	0.40	0.29	mg/L	72	1.9	SW846 8270B
m-Cresol & p-Cresol	ND	0.80	0.51	mg/L	64		SW846 8270B
	ND	0.80	0.54	mg/L	67	4.9	SW846 8270B
1,4-Dichlorobenzene	ND	0.40	0.28	mg/L	70		SW846 8270B
	ND	0.40	0.28	mg/L	71	0.93	SW846 8270B
2,4-Dinitrotoluene	ND	0.40	0.35	mg/L	87		SW846 8270B
	ND	0.40	0.33	mg/L	82	5.8	SW846 8270B
Hexachlorobenzene	ND	0.40	0.37	mg/L	92		SW846 8270B
	ND	0.40	0.35	mg/L	86	6.5	SW846 8270B
Hexachlorobutadiene	ND	0.40	0.29	mg/L	72		SW846 8270B
	ND	0.40	0.30	mg/L	74	3.1	SW846 8270B
Hexachloroethane	ND	0.40	0.28	mg/L	69		SW846 8270B
	ND	0.40	0.28	mg/L	70	1.3	SW846 8270B
Nitrobenzene	ND	0.40	0.32	mg/L	79		SW846 8270B
	ND	0.40	0.32	mg/L	80	0.80	SW846 8270B
Pentachlorophenol	ND	0.40	0.43	mg/L	107		SW846 8270B
	ND	0.40	0.41	mg/L	102	4.4	SW846 8270B
Pyridine	ND	0.40	0.19	mg/L	48		SW846 8270B
	ND	0.40	0.20	mg/L	49	2.6	SW846 8270B
2,4,5-Trichlorophenol	ND	0.40	0.39	mg/L	97		SW846 8270B
	ND	0.40	0.36	mg/L	90	7.3	SW846 8270B
2,4,6-Trichlorophenol	ND	0.40	0.36	mg/L	90		SW846 8270B
	ND	0.40	0.34	mg/L	86	4.3	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(21 - 100)
	46	(21 - 100)
Phenol-d5	34	(10 - 94)
	34	(10 - 94)
Nitrobenzene-d5	78	(35 - 114)
	79	(35 - 114)
2-Fluorobiphenyl	73	(43 - 116)
	74	(43 - 116)
2,4,6-Tribromophenol	102	(10 - 123)
	95	(10 - 123)
Terphenyl-d14	101	(33 - 141)
	99	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT
TCLP GC/MS Semivolatiles

Client Lot #....: I8A160124 Work Order #....: CEX9V11C-MS Matrix.....: SOLID
 MS Lot-Sample #: I8A160124-001 CEX9V11D-MSD
 Date Sampled....: 01/14/98 08:30 Date Received...: 01/16/98
 Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date...: 01/27/98
 Leach Batch #...: P802109 Prep Batch #....: 8026185 Analysis Time...: 22:26
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	71	(21 - 137)			SW846 8270B
	72	(21 - 137)	1.9	(0-70)	SW846 8270B
m-Cresol & p-Cresol	64	(19 - 126)			SW846 8270B
	67	(19 - 126)	4.9	(0-94)	SW846 8270B
1,4-Dichlorobenzene	70	(26 - 112)			SW846 8270B
	71	(26 - 112)	0.93	(0-40)	SW846 8270B
2,4-Dinitrotoluene	87	(31 - 106)			SW846 8270B
	82	(31 - 106)	5.8	(0-55)	SW846 8270B
Hexachlorobenzene	92	(42 - 120)			SW846 8270B
	86	(42 - 120)	6.5	(0-39)	SW846 8270B
Hexachlorobutadiene	72	(33 - 111)			SW846 8270B
	74	(33 - 111)	3.1	(0-40)	SW846 8270B
Hexachloroethane	69	(26 - 102)			SW846 8270B
	70	(26 - 102)	1.3	(0-44)	SW846 8270B
Nitrobenzene	79	(42 - 120)			SW846 8270B
	80	(42 - 120)	0.80	(0-40)	SW846 8270B
Pentachlorophenol	107	(12 - 156)			SW846 8270B
	102	(12 - 156)	4.4	(0-76)	SW846 8270B
Pyridine	48	(1.0- 144)			SW846 8270B
	49	(1.0- 144)	2.6	(0-95)	SW846 8270B
2,4,5-Trichlorophenol	97	(29 - 123)			SW846 8270B
	90	(29 - 123)	7.3	(0-63)	SW846 8270B
2,4,6-Trichlorophenol	90	(19 - 122)			SW846 8270B
	86	(19 - 122)	4.3	(0-64)	SW846 8270B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	46	(21 - 100)
	46	(21 - 100)
Phenol-d5	34	(10 - 94)
	34	(10 - 94)
Nitrobenzene-d5	78	(35 - 114)
	79	(35 - 114)
2-Fluorobiphenyl	73	(43 - 116)
	74	(43 - 116)
2,4,6-Tribromophenol	102	(10 - 123)
	95	(10 - 123)
Terphenyl-d14	101	(33 - 141)
	99	(33 - 141)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT
TCLP GC/MS Volatiles

Client Lot #....: I8A160124 Work Order #....: CEX9V11E-MS Matrix.....: SOLID
 MS Lot-Sample #: I8A160124-001 CEX9V11F-MSD
 Date Sampled....: 01/14/98 08:30 Date Received...: 01/16/98
 Leach Date.....: 01/21/98 Prep Date.....: 02/05/98 Analysis Date...: 02/06/98
 Leach Batch #...: P802108 Prep Batch #....: 8036228 Analysis Time...: 00:39
 Dilution Factor: 1

PARAMETER	SAMPLE SPIKE MEASRD				PERCENT		
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
Benzene	ND	0.50	0.51	mg/L	101		SW846 8240B
	ND	0.50	0.50	mg/L	99	2.4	SW846 8240B
Carbon tetrachloride	ND	0.50	0.45	mg/L	91		SW846 8240B
	ND	0.50	0.45	mg/L	89	1.8	SW846 8240B
Chlorobenzene	ND	0.50	0.51	mg/L	102		SW846 8240B
	ND	0.50	0.51	mg/L	101	0.05	SW846 8240B
Chloroform	ND	0.50	0.49	mg/L	97		SW846 8240B
	ND	0.50	0.48	mg/L	96	1.0	SW846 8240B
1,2-Dichloroethane	ND	0.50	0.53	mg/L	106		SW846 8240B
	ND	0.50	0.53	mg/L	105	0.18	SW846 8240B
1,1-Dichloroethylene	ND	0.50	0.43	mg/L	85		SW846 8240B
	ND	0.50	0.42	mg/L	84	1.5	SW846 8240B
Methyl ethyl ketone	ND	0.50	0.50	mg/L	99		SW846 8240B
	ND	0.50	0.47	mg/L	93	5.9	SW846 8240B
Tetrachloroethylene	ND	0.50	0.51	mg/L	102		SW846 8240B
	ND	0.50	0.49	mg/L	99	3.2	SW846 8240B
Trichloroethylene	ND	0.50	0.49	mg/L	99		SW846 8240B
	ND	0.50	0.48	mg/L	96	3.2	SW846 8240B
Vinyl chloride	ND	0.50	0.51	mg/L	103		SW846 8240B
	ND	0.50	0.49	mg/L	97	5.4	SW846 8240B
1,4-Dichlorobenzene	ND	0.50	0.51	mg/L	101		SW846 8240B
	ND	0.50	0.49	mg/L	98	3.1	SW846 8240B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
4-Bromofluorobenzene	100	(86 - 115)
	101	(86 - 115)
1,2-Dichloroethane-d4	99	(76 - 114)
	101	(76 - 114)
Toluene-d8	94	(88 - 110)
	97	(88 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

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

Originated

RECEIVED

Submit C
Plus
to app
District

OCT 20 1999

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford (Odessa) Pipe Plant
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 8870 W. Loop 38 Odessa, TX 79764
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Malco Trucking
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 8870 W. Loop 338 N	Odessa, TX 79764
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 and waste water

The following analytical is from the Weatherford Odessa Pipe Plant. The material was generated from the hydroblasting of oilfield pipe. This material has been approved in the past. I have included a Certificate of Waste, Texas Waste Code and a Chain of Custody.

10-001

Estimated Volume 120 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 10-13-99
Waste Management Facility authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Specialist DATE: 10-18-99
APPROVED BY: Martinez J. Ruiz TITLE: Environmental Geologist DATE: 10/20/99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Weatherford Odessa Pipe Plant

ADDRESS 8870 W. Loop 338 N. Odessa Tx. 79764

GENERATING SITE 8870 W. Loop 338 N. Odessa Tx. 79764

COUNTY Ector STATE Texas

TYPE OF WASTE Sludge and waste water

ESTIMATED VOLUME 120 bbls. (5040 gallons)

GENERATING PROCESS This waste was generated
from hydroblasting of oil field pipe.

REMARKS This waste is from Odessa Pipe Plant.

NMOCD FACILITY Controlled Recovery Inc.

TRUCKING COMPANY Malco trucking

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Michael W. Smith (Plant manager)
SIGNATURE

NAME Weatherford (Odessa Pipe Plant)
PRINTED

ADDRESS 8870 W. Loop 338 North

Odessa Texas 79764

DATE 10-13-99



1081 Woodwinton Suite L Houston, Texas 77062
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab Batch # 71634-H

Contractor Nickell Environmental Corp (915) 520-4100
Address 19 Barry Rd Midland TX 797
Project Name Sump disposal Project Director Terry James
Project Location Pipe Plant WLP Project Manager Robbie Walker
Sample Signature Robbie Walker Project No WEA116-0000 Pipe Plant

SAMPLE CHARACTERIZATION

Field ID	Date	Time	Preservative				Container	Is Type P.O.	Other	Tank No.	Sample Description
			DEPT H	BOIL	WATER	COMB					
SP	7/15	7:15					3	9	X		Sump Sludge

Use Date Kit Unknown
Waste Oil
ITS No.
Sample Description

No. of CONTAINERS

Total

BTX (5000-000-000)
TH (K103)
TCLP Metals
TCLP
TCLP VOA
TCLP SBA

No. containers this shipment
Current FedEx
Ashten No 1477017931
Contractor COC #
Quote #:
P.O. No.

Turnaround
- ASAP
- 24 hrs
- 48 hrs
- Expedited

Remarks

Remarks

7/15/97 9:15

Robbie Walker

Received for Laboratory by

7/15/97 15:30

**CERTIFICATE OF ANALYSIS SUMMARY 1-71634****Nickell Environmental****Project Name: Sump Disposal****Project ID: WEA116-0000 Pipe Plant****Project Manager: Robbie Walker****Project Location: Pipe Plant WLP****Date Received in Lab: Jul 16, 1997 15:30 by RT****Date Report Faxed: Jul 24, 1997****XENCO contact: Scott Sample/Edward Yonemoto**

Analysis Requested	Lab ID:	171634-001					
	Field ID:	SP					
	Depth:						
Ignit./F.P. Analyzed by EPA 1010		Date Analyzed - Analytical Results deg. F					
		Jul 22, 1997					
Ignitability, Pensky-Martens		> 180					
TCLP Metals Analyzed by EPA1311/6010		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 18, 1997					
Arsenic		< 0.5					
Barium		1.3					
Cadmium		< 0.10					
Chromium		< 0.5					
Lead		< 0.5					
Silver		< 0.08					
Selenium		< 0.4					
TCLP Mercury Analyzed by EPA 7470		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Mercury		< 0.022					
Cyanide RCI Analyzed by SW846 7.3.3		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Cyanide		< 0.5					
Sulfide RCI Analyzed by SW846 7.3.4		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Sulfide		< 0.5					
pH Analyzed by EPA 9045		Date Analyzed - Analytical Results S.U.					
		Jul 18, 1997					
pH, Electrometric		7.30					
TCLP S.V. Analyzed by EPA 8270		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 21, 1997					

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of Nickell Environmental.

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


Edward H. Yonemoto, Ph.D.
QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT

Date Report Faxed: Jul 24, 1997

XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID:	171634-001					
	Field ID:	SP					
	Depth:						
1,4-Dichlorobenzene		< 0.513					
2,4-Dinitrotoluene		< 0.051					
Hexachlorobenzene		< 0.043					
Hexachlorobutadiene		< 0.205					
Hexachloroethane		< 0.513					
2-Methylphenol		< 5.128					
3-Methylphenol		< 5.128					
4-Methylphenol		< 5.128					
Nitrobenzene		< 0.513					
Pentachlorophenol		< 5.128					
Pyridine		< 0.513					
2,4,5-Trichlorophenol		< 5.128					
2,4,6-Trichlorophenol		< 0.513					
TCLP Vol. Analyzed by EPA1311/8260		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Benzene		< 0.05					
2-Butanone		< 4.00					
Carbon Tetrachloride		< 0.05					
Chloroform		< 0.25					
1,2-Dichloroethane		< 0.05					
1,1-Dichloroethene		< 0.05					
Tetrachloroethene		< 0.05					
Trichloroethene		< 0.05					
Vinyl chloride		< 0.025					
Chlorobenzene		< 2.00					

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Edward Yonemoto, Ph.D.
QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental
Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robble Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT

Date Report Faxed: Jul 24, 1997

XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID:	171634-001					
	Field ID:	SP					
TPH Analyzed by EPA 418.1	Depth:						
		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 21, 1997					
Total Petroleum Hydrocarbons		10300					

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

75327 Weatherford C.S., Inc.

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
Office of Registration
Industrial and Hazardous Waste

*** WASTE INFORMATION ***
Form No. Status Date of Managed Waste/active Complete
Code Class Status Official
Waste Active Number 44444

001007 Active 01/26/94 OFF No
Description from Generator: Pipe scale, scraping of pipe used in the oil and gas industry/ emptying pressure.
Form Code: 107
Current Management Unit: 107
Origin Codes: 1 Onsite-process/service 2 From non-haz waste mgmt

001007 1 Active 01/26/94 OFF No
Description from Generator: Pump material/boiler are steam cleaned and washed to remove lubricants, dirt, paint, resin, and corrosion products August 1993.
Form Code: 208
Current Management Unit: 208
Origin Codes: 1 Onsite-process/service 2 From non-haz waste mgmt
#:

6001301H II Active 08/05/94 OFF No
Description from Generator: Spent solvents, industrial wastes/water. Oil field related equipment, tools and parts are cleaned in solvent to remove grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and oil debris parts washing.
Form Code: 201
Current Management Unit: 201
Origin Codes: 1 Onsite-process/service 2 From non-haz waste mgmt

6001301H II Active 08/05/94 OFF No
Description from Generator: Spent solvents, industrial wastes/water. Oil field related equipment, tools and parts are cleaned in solvent to remove grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and oil debris parts washing.
Form Code: 201
Current Management Unit: 201
Origin Codes: 1 Onsite-process/service 2 From non-haz waste mgmt

6001301H II Active 08/05/94 OFF No
Description from Generator: Spent solvents, industrial wastes/water. Oil field related equipment, tools and parts are cleaned in solvent to remove grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and oil debris parts washing.
Form Code: 201
Current Management Unit: 201
Origin Codes: 1 Onsite-process/service 2 From non-haz waste mgmt

6001301H II Active 08/05/94 OFF No
Description from Generator: Spent solvents, industrial wastes/water. Oil field related equipment, tools and parts are cleaned in solvent to remove grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and oil debris parts washing.
Form Code: 201
Current Management Unit: 201
Origin Codes: 1 Onsite-process/service 2 From non-haz waste mgmt

6001301H II Active 08/05/94 OFF No
Description from Generator: Spent solvents, industrial wastes/water. Oil field related equipment, tools and parts are cleaned in solvent to remove grease and debris during servicing. Waste is mixture of spent petroleum solvent with grease and oil debris parts washing.
Form Code: 201
Current Management Unit: 201
Origin Codes: 1 Onsite-process/service 2 From non-haz waste mgmt

60045012 2	Active	08/05/91	CFC	110
------------	--------	----------	-----	-----

Current Management Units: 100
M Credit Code: 100

Company's Internal Code(s): PLANT Refugo

Description	From	Character	Class	2	Paper	Cardboard	1	Unit
60053032	2	Active	00/35/94	0EE				Mo

wooden, glass, aluminum foil, aluminum cans, plastic, styrofoam, food packaging, empty shipping cartons, binders. Process participating in from general office operations.

Form Code: 303 Plant Office Refuse
Current Management Title: None
Origln Codes: 1 Onsite-procure/assembly

Confidential Code(s): Office Refuse
606310-1 Active 03/05/94 OGI

Current Management Units:	None
Field Codes:	310 Spent solid filtrate or adsorbents (inorganic)
Leakages from containers used all filtrate from vehicle and equipment maintenance. Non-hazardous.	
Leakages from containers used all filtrate from vehicle and equipment maintenance. Non-hazardous.	

Original Code:	Vehicle-Process/Service
50070001	Active 08/05/01 Off
Description from Generator:	Dead motor oil and used hydraulic oil from vehicle and equipment, no lubricants. To be sent in

Form Cells: 206 Have 011
Current Management Units: None
to old recycler. Non-haz

* Origin Code: 1 Unstable-process/service

310 Spent solid filters or adsorbents (inorganic)

* Origin Codes: 1 Onsite-proceeds/service



15321	Weatherford U.S., Inc.	Date of Manged	Radio	THRC Audie
Texas	Patco Status			

WABE	Class	SEAL	Unfiled/
Code			OFFICE

А. А. Мельников

500920211	Active	00/05/24	OFF
-----------	--------	----------	-----

description from General: paint waste, oil base, liquid containing paint thinner of mineral spirits/Vegetol. Generating process is from painting oil field tools and equipment, general maintenance

Form Code: 209 Organic paint, ink, lacquer, or varnish

Current management Unit(s):	None
RVA Identification Number:	1001

Source Code	Material
1	Virgin Cotton
2	Wool
3	Wool
4	Wool
5	Wool
6	Wool
7	Wool
8	Wool
9	Wool
10	Wool
11	Wool
12	Wool
13	Wool
14	Wool
15	Wool
16	Wool
17	Wool
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92	Wool
93	Wool
94	Wool
95	Wool
96	Wool
97	Wool
98	Wool
99	Wool
100	Wool

SIC Codes:	2339 CII Field Machinery & Equipment
1189 Oil & Gas Field Services, Not Elsewhere Found	
7159 Equipment Rental and Leasing, NEC	

0011 00/05/96 003 No

Description from Generator: Wash, paint, water based. Erection generating
generally well informed.

Form Code: 209 Organic paint, ink, none
Management Index: none

Origin Codes: 1 Oracle-procops/servicos

SO114031 1 Active 08/05/93 - OEE
Description from Generator: Fuel Wabbe sold to Area of Gen W

109 Other non-halogenated organic solids

Current Karaganev Unit: None
... * Origin Codes: 1 Quality-procedure/service

6012211177 Active 00/05/94 OFF NO

DESCRIPTION - from Camarator:
Spent water paint thinner used in thinning paint, cleaning paint equipment and general maintenance for paint preparation activities of old field tools and equipment. Containing

Form Code: 211 Mineral spirits/Varnol/мипи нафта. Ignitable
Flammable liquid or Petroleum distillates

IPR: Kuznetsov, Yulia Evdovievna; DOB: 1980-01-01
Current Management Office: Moscow

Origin Codes: 2 On-site-process/service
Source Codes: A21 Painting

A (Kearney) Pointing: 1 Defore m/ing
 SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Poud
 1513 Oil Field Machinery & Equipment

7159 Equipment Rental And Leasing, INC

COLLINS, J. J.	08/05/94	OFF	MC
Description: Food Generator. P/no model, including rust, drilling mud and dry oil. Generated during the cleaning			

and recordkeeping of oil field drilling pipe. Non-hazardous
Form Code: 319 Other waste management solids

Current Management Unit: None
Origin Codes: 1 Onsite-process/service

TEXAS INDUSTRIAL RESOURCE CONSERVATION COMMISSION
Office of Regulation
Industrial and Hazardous Waste

Page: 2
Date: 02/20/97

73327 Reisterford U.S., Inc.
Form Name Status Date of Managed Radio- Waste Class Status Offsets active Complete

60130511 II Active 08/05/94 OIL No

Description from Generator: Used lead batteries, or battery parts, casings or cores. Process generating in "out of recycle" batteries from facility vehicles and equipment maintenance. To be sent to battery recycler, hazardous.

Form Code: 309 Batteries or battery parts, casings, cores

Current Management Unit: 2002 D008

Form Code: 1 Qualite-process/service

Current Management Unit: 155 Filter/battery replacement

Form Code: 1 Motor mixing 1509 OIL & Gas Field Services, Not Elsewhere Found 2571 OIL Field Machinery & Equipment

Form Code: 7349 Building Maintenance Services, NEC

Form Code: 110 Spent solid filters or absorbents (inorganic)

Form Code: 1 Qualite-process/service

Form Code: 110 Spent solid filters or absorbents (inorganic)

Form Code: 110 Spent solid filters or absorbents (inorganic)

Form Code: 1 Qualite-process/service

Form Code: 110 Spent solid filters or absorbents (inorganic)

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Form Code: 110 Spent solid filters or absorbents (inorganic)

*** TEXAS NATURAL RESOURCES CONSERVATION COMMISSION ***
 Notice of Registration
 Industrial and Hazardous Waste

5327	Wabbeford, E.S., Inc.	Date of	Managed	Radio-	THRCG Audit
Area	Wabbeford, E.S., Inc.	Status	Onsite/	active	Complete
Waste	Waste	Waste	Offsite		
Code	Code	Code	Code	Code	Code
0203071	Active	08/05/94	OFF	No	
Description from Generator:					
Scrap metal. Generated during the manufacture and servicing of oil field tools and equipment. Miscellaneous metal pieces and parts which are no longer useable are scrapped and sent to metal recycler. Non-hazardous.					
207 Metal scrap, filings, or scrap					
Current Management Unit:					
None					
Company's Internal Code(s):					
1 Onsite-process/service					
0219833	Active	08/05/94	OFF	No	
Description from Generator:					
Supplemental plant refuse - primarily solid floor sweepings from plant production operations. Non-hazardous.					
202 Supplemental plant production refuse					
Current Management Unit:					
None					
Company's Internal Code(s):					
1 Onsite-process/service					
60227	Active	03/05/94	OFF	No	
Description from Generator:					
Oil based machine coolant/water soluble. Liquid. Spent coolant from machining process of cooling, cutting and grinding. Non-hazardous.					
213 Other organic liquids					
Current Management Unit:					
None					
Company's Internal Code(s):					
1 Onsite-process/service					
6021491	Active	02/18/95	OFF	No	
Description from Generator:					
Pipe coating. Coating is applied to oil field drilling pipe to inhibit corrosion. Dried/solidified accumulations of drippings from application process are collected for disposal.					
409 Petroleum contaminated solids					
Current Management Unit:					
None					
Company's Internal Code(s):					
1 Onsite-process/service					
6024059	Active	08/05/94	OFF	No	
Description from Generator:					
Paint waste. Liquids, containing toluene and/or xylene. Spent paint from painting tools, parts and equipment. Hazardous.					
205 Organic paint, ink, lacquer, or varnish					
D001 F003 F005					
Current Management Unit:					
None					
Company's Internal Code(s):					
1 Onsite-process/service					
A21 Painting					
1 Before mixing					
1009 Oil & Gas Field Services, Not Elsewhere Found					
7559 Equipment Rental and Leasing, NEC					
3533 Oil Field Machinery & Equipment					

TEMA UNIVULT, INDOCONA CONSERVATION COMMISSION
Office of Registration
Industrial and Hazardous Waste

Page:
Date: 02/26/91

75317 Deatherford U.S., Inc.
Name: Waste Status Date of managed
Waste Class Status Office
Code
Active: Hazardous waste

602531011 H Active 06/05/94 OFF No

Description from Generator: Paint waste filters. Solid paint filters containing liquids. Not dry. Used paint filters from spray paint equipment used in paint equipment. Paint contains toluene and xylene from thinning process. Hazardous.
Form Codes: 210 Spent solid filters or adsorbents (inorganic)
D001 F003 F005
None

Current Management Unit: 122 Painting
* Source Codes: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
7539 Equipment Rental and Leasing, NEC
Paint filters/hazardous

60253121 2 Active 06/05/94 OFF No

Description from Generator: Petroleum contaminated solids. Non-hazardous. Sand, silt, grit, residual hydraulic oil, grease and paint chips accumulate from cleaning of oil field pipe, parts, and equipment.

Form Codes: 183 Petroleum contaminated solids
* Source Codes: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment

60253131 1 Active 12/28/94 OFF No

Description from Generator: Used wire removed from trucks & equipment. These are no longer in service & are sent to wire recycler.
Form Codes: 213 Other waste inorganic solids
* Source Codes: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment

602532031 R Active 09/16/95 OFF No

Description from Generator: Waste paint aerosol cans used for painting oil field tools & equipment. Oil field tools & equipment are painted as needed between uses. Waste includes paint aerosol cans with residual paint & propellant.
Form Codes: 209 Organic paint, ink, lacquer, or varnish
D001 F003 F005

Current Management Unit: None
* Source Codes: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment

602532031 2 Active 09/16/95 OFF No

Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are serviced & cleaned at facility between rentals. Waste includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.
Form Codes: 183 Petroleum contaminated solids
* Source Codes: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment

602532031 1 Active 09/16/95 OFF No

Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are serviced & cleaned at facility between rentals. Waste includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.
Form Codes: 183 Petroleum contaminated solids
* Source Codes: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment

Current Management Unit: None
* Source Codes: 1 Before mixing
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment

*** TSD'S NATIONAL RESOURCE CONSERVATION COMMISSION ***
Office of Registration
Industrial and Hazardous Waste

75327 Westborough D.S. Inc. Date of Managed Radio- TSDCC Audit
TSDCC Waste Status Date of Status of Status of
Waste Class Status Offsite Complete
Code
Status: Active Hazardous Waste

63110311 II Active 09/12/95 OF No No
Description from Generator: Spent caustic solution used for stripping paint & grease from oil field central tools
during cleaning process. Waste includes mixed solution of water, sodium hydroxide, oil,
grease & paint.

FERM Codes: 102 Spent caustic
Current Management Units: D002 D006 E007 E008
None

Measurement Points: 1 Onsite-process/service
2 Source Codes: A01 Caustic (alkali) cleaning
2 Before mixing
203 Oil & Gas Field Service, Not Elsewhere Found

99000 II Active OFF No
Description from Generator: D001 CHARACTERISTIC OF IMPURITY
None

FERM Codes: D012 D013
Current Management Units: None
None

* The first value is considered the primary value (e.g. primary origin code).
* of 09/12/1995, the next assigned sequence number for WASTES is 6032.

* No Longer Generated Wastes *

00196951 I Isactive 09/10/95 DA No No
Description from Generator: Petroleum contaminated sludge from pump. Tools are steam cleaned and washed to remove
lubricant, dirt, paint, scale and corrosion. Liquids are removed and this sludge remains.

Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Sludge Sludge

00234951 I Isactive 09/10/95 DA No No
Description from Generator: Pipe coating. Non hazardous. Pipe coating is applied to oil field drilling pipe to inhibit
corrosion. Drilled/solidified accumulations of the drilling fluid the application process
are collected for disposal.

Current Management Units: None
* Origin Codes: 1 Onsite-process/service
Company's Internal Code(s): Pipe coating/dripping

* As of 09/12/1995, the next assigned sequence number for WASTES is 6032.

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, Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED

OCT 04 1999

Original
Submit
Plus
to app
District

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs, NM 88240	
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:

The following analytical is from the LG&E Natural Hobbs Plant. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

09-009

Estimated Volume 2.00 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Manager DATE: 9-27-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)		
APPROVED BY: <u>Donna Williams</u>	TITLE: <u>Environ. Eng. Specialist</u>	DATE: <u>9-28-99</u>
APPROVED BY: <u>Monty J. Huff</u>	TITLE: <u>Env Geologist</u>	DATE: <u>10-4-99</u>

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural
ADDRESS 921 W. Sanger, Hobbs, NM 88241
GENERATING SITE Hobbs Plant
COUNTY Lea STATE NM
TYPE OF WASTE Wastewater
ESTIMATED VOLUME 200 bbl.s
GENERATING PROCESS Generated from rain water and
wash down water at plant
REMARKS _____
NMOCD FACILITY Controlled Recovery, Inc.
TRUCKING COMPANY Key Energy Services

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT 
SIGNATURE
NAME Ed Sloman
PRINTED
ADDRESS 921 W. Sanger, Hobbs, NM 88241
Hobbs, NM 88241
DATE 9-27-99



CRT CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	0.163	<0.005	0.038	76	0.050
m, p-Cresol	200	0.089	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

% RECOVERY

Fluorophenol	30
Phenol-d5	30
Nitrobenzene-d5	83
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	78
Terphenyl-d14	67

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.744	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.034	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.012	0.015	0.113	113	0.100

% RECOVERY

Dibromofluoromethane	87
Toluene-d8	96
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.


Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H4035-1 HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2 APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3 BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4 CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5 ANTELOPE RIDGE	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
PLANT								
Quality Control	0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC	0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery	80	112	87	100	97	99	97	80
Relative Standard Deviation	2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68

METHODS: EPA 1311, 600/4-91/01	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
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Chemist

Date

H4035M.XLS

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ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTAC
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, 40 CFR 261

Chemist

Bryant P. Cohen

Date

2/25/99

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

† Cardinal cannot accept verbal changes. Please fax written changes to 815-873-7020.

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural
ADDRESS 921 W. Sanger, Hobbs, NM 88241
GENERATING SITE Hobbs Plant
COUNTY Lea STATE NM

TYPE OF WASTE Wastewater
ESTIMATED VOLUME 100 bbl.s
GENERATING PROCESS Generated from rain water and
wash down water at plant

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT 
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger, Hobbs, NM 88241
Hobbs, NM 88241

DATE _____

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 Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED

SEP 20 1999

Environmental Bureau
Oil Conservation Division

Form C
Originated

Submit Original
Plus 1
to appropriate
District C

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator LG&E Natural 5. Originating Site Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs, NM 88240	
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:

The following analytical is from the LG&E Natural Hobbs Plant. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

09-002

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Ken Marsh TITLE: Manager DATE: 9-14-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 9-15-99
APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 9-20-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and
wash down water at plant

REMARKS _____

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TRUCKING COMPANY Key Energy Services

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AGENT 
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger
Hobbs, NM 88241

DATE _____



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HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

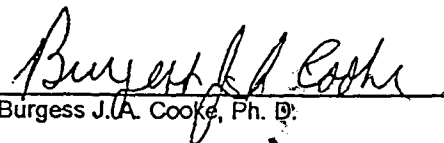
Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	0.163	<0.005	0.038	76	0.050
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2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

% RECOVERY

Fluorophenol	30
Phenol-d5	30
Nitrobenzene-d5	83
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	78
Terphenyl-d14	67

METHODS: EPA SW 846-8270, 1311


Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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Analysis Date: 02/22/99
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Sample Received By: AH
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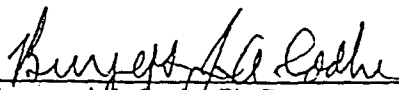
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Benzene	0.5	0.034	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
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% RECOVERY

Dibromofluoromethane	87
Toluene-d8	96
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.


Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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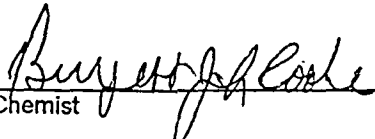
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Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:		02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4035-1	HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2	APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3	BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4	CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5	ANTELOPE RIDGE	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
	PLANT								
Quality Control		0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC		0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		80	112	87	100	97	99	97	80
Relative Standard Deviation		2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68

METHODS: EPA 1311, 600/4-91/01	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
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Chemist

2/26/99
Date

H4035M.XLS

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Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, 40 CFR 261

Chemist

Date

2/25/99

ORDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: SES, Inc		BILL TO PO #:	
Project Manager: Duke Browning		Company:	
Address:		Attn:	
City: State: Zip:		Address:	
Phone #:		City:	
Fax #:		State: Zip:	
Project #:		Phone #:	
Project Name: LC # Natural		Fax #:	
Project Location: Varidus			

LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRES.	SAMPLING	DATE	TIME	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H4035-1	Hobbs Plant		2	X						X	2/22	8:35a	V	Complete TCP
-2	Aper Station		2	X						X	2/22	9:05a	V	
-3	Booth Station		2	X						X	2/22	10:45a	V	
-4	Calmon Station		2	X						X	2/22	11:45a	V	
Sample Inval	Booth Station		2	X						X	2/22	1:45p	ATB	
-5	Antelope Ridge Plant		2	X						X	2/22	1:45p	V	

PLEASE NOTE: Liability and Damage. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or associations arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and at each collection, including attorney's fees.

Phone Result: ☐ Yes ☐ No Additional Fax #: _____

REMARKS: **All samples taken with ColiLinksa from top entry of tank**

† Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and
wash down water at plant

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT 
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger Hobbs, NM 88241
Hobbs, NM 88241

DATE _____

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-13
Originated 8/8/

RECEIVED

SEP 20 1999

Submit Origin
Plus 1 Co;
to appropriate
District Office

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford (Odessa Pipe Plant)
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 8870 W. Loop 338 N Odessa, TX 79764
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Malco Trucking
3. Address of Facility Operator P. O. Box 388, Hobbs,	8. State NM
7. Location of Material (Street Address or ULSTR) 8870 W. Loop 338 N	Odessa, TX 79764
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Sludge and waste water

The following analytical is from the Weatherford Odessa Pipe Plant. The material was generated from the hydroblasting of oilfield pipe. This material has been approved in the past. I have included a Certificate of Waste, Texas Waste Code and a Chain of Custody.

09-003

Estimated Volume 120 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 9-14-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Sp DATE: 9-15-99
APPROVED BY: Martina J. Kief TITLE: Environmental Geologist DATE: 9-20-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Weatherford (Odessa Pipe Plant)

ADDRESS 8870 W. Loop 338 N. Odessa Tx. 79764

GENERATING SITE 8870 W. Loop 338 N. Odessa Tx. 79764

COUNTY Ector STATE Texas

TYPE OF WASTE Sludge and Waste Water

ESTIMATED VOLUME 120 bbls. (5040 gallons)

GENERATING PROCESS This waste was generated
from hydroblasting of oil field pipe.

REMARKS This waste is from Odessa Pipe Plant.

NMOCD FACILITY Controlled Recovery Inc.

TRUCKING COMPANY Malco trucking

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Michael W. Smith (plant manager)
SIGNATURE

NAME Weatherford (Odessa Pipe Plant)
PRINTED

ADDRESS 8870 W. Loop 338 north

Odessa Texas 79764

DATE 9-14-99

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab Batch #:

[illegible]

**CERTIFICATE OF ANALYSIS SUMMARY 1-71634****Nickell Environmental****Project Name: Sump Disposal****Project ID: WEA116-0000 Pipe Plant****Project Manager: Robbie Walker****Project Location: Pipe Plant WLP****Date Received in Lab: Jul 16, 1997 15:30 by RT****Date Report Faxed: Jul 24, 1997****XENCO contact: Scott Sample/Edward Yonemoto**

Analysis Requested	Lab ID:	171634-001					
	Field ID:	SP					
	Depth:						
Ignit./F.P. Analyzed by EPA 1010		Date Analyzed - Analytical Results deg. F					
		Jul 22, 1997					
Ignitability, Pensky-Martens		> 180					
TCLP Metals Analyzed by EPA1311/6010		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 18, 1997					
Arsenic		< 0.5					
Barium		1.3					
Cadmium		< 0.10					
Chromium		< 0.5					
Lead		< 0.5					
Silver		< 0.08					
Selenium		< 0.4					
TCLP Mercury Analyzed by EPA 7470		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Mercury		< 0.022					
Cyanide RCI Analyzed by SW846 7.3.3		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Cyanide		< 0.5					
Sulfide RCI Analyzed by SW846 7.3.4		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 22, 1997					
Sulfide		< 0.5					
pH Analyzed by EPA 9045		Date Analyzed - Analytical Results S.U.					
		Jul 18, 1997					
pH, Electrometric		7.30					
TCLP S.V. Analyzed by EPA 8270		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 21, 1997					

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of Nickell Environmental.

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


Edward Yonemoto, Ph.D.
QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY 1-71634

Nickell Environmental
Project Name: Sump Disposal

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robbie Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT

Date Report Faxed: Jul 24, 1997

XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID:	171634-001					
	Field ID:	SP					
	Depth:						
1,4-Dichlorobenzene		< 0.513					
2,4-Dinitrotoluene		< 0.051					
Hexachlorobenzene		< 0.043					
Hexachlorobutadiene		< 0.205					
Hexachloroethane		< 0.513					
2-Methylphenol		< 5.128					
3-Methylphenol		< 5.128					
4-Methylphenol		< 5.128					
Nitrobenzene		< 0.513					
Pentachlorophenol		< 5.128					
Pyridine		< 0.513					
2,4,5-Trichlorophenol		< 5.128					
2,4,6-Trichlorophenol		< 0.513					
TCLP Vol. Analyzed by EPA1311/8260	Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)						
	Jul 22, 1997						
Benzene		< 0.05					
2-Butanone		< 4.00					
Carbon Tetrachloride		< 0.05					
Chloroform		< 0.25					
1,2-Dichloroethane		< 0.05					
1,1-Dichloroethene		< 0.05					
Tetrachloroethene		< 0.05					
Trichloroethene		< 0.05					
Vinyl chloride		< 0.025					
Chlorobenzene		< 2.00					

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Edward Yonemoto, Ph.D.
QA/QC Manager

**CERTIFICATE OF ANALYSIS SUMMARY 1-71634****Nickell Environmental***Project Name: Sump Disposal*

Project ID: WEA116-0000 Pipe Plant
Project Manager: Robble Walker
Project Location: Pipe Plant WLP

Date Received in Lab: Jul 16, 1997 15:30 by RT

Date Report Faxed: Jul 24, 1997

XENCO contact: Scott Sample/Edward Yonemoto

Analysis Requested	Lab ID:	171634-001					
	Field ID:	SP					
	Depth:						
TPH Analyzed by EPA 418.1		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Jul 21, 1997					
Total Petroleum Hydrocarbons		10300					

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of Nickell Environmental.

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


Edward H. Yonemoto, Ph.D.
QA/QC Manager

75327 New Bedford U.S. Inc.
 Name: New Bedford U.S. Inc. Status: Active
 Waste Class: 08/05/91 CFI
 Code: 310 Spent solid filters or adsorbents (inorganic)

Company's Internal Code(s): 500 Waste - Liquid
 Status: Active

6035032 2 Active 08/05/91 CFI
 Description from Generator: Class 2 paper, lumber, plastic, paper packing material, plastic packing material, hydrofoam, glass, aluminum foil. Does not include metal parts, floor sweepings or scrap metal. Generating process is general non hazardous maintenance.

Form Code: 301 Plant production refuse
 Current Management Unit: None
 " Origin Code: 1 Onsite-process/service
 Company's Internal Code(s): Plant Refuse

6035032 2 Active 08/05/91 CFI
 Description from Generator: Class 2 paper, cardboard, linings, wrappings, paper, wood or plastic wrappings, food waste, glass, aluminum foil, aluminum cans, plastic, hydrofoam, food packaging, empty shipping cartons, binders. Process generating is from general office operations.

Form Code: 303 Plant office refuse
 Current Management Unit: None
 " Origin Code: 1 Onsite-process/service
 Company's Internal Code(s): Office Refuse

6061102 1 Active 03/05/91 CFI
 Description from Generator: Used oil filters from vehicle and equipment maintenance. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)
 Current Management Unit: None
 " Origin Code: 1 Onsite-process/service

6007202 1 Active 08/05/91 CFI
 Description from Generator: Used motor oil and used hydraulic oil from vehicle and equipment maintenance. To be sent to oil recycler. Non-hazardous.

Form Code: 206 Waste oil
 Current Management Unit: None
 " Origin Code: 1 Onsite-process/service

6003101 1 Active 08/05/91 CFI
 Description from Generator: Used paint filters from spray paint application equipment used in painting all field vehicles and equipment. Filters have been dried. There are no liquids present. Non-hazardous.

Form Code: 310 Spent solid filters or adsorbents (inorganic)
 Current Management Unit: None
 " Origin Code: 1 Onsite-process/service

75337	Healthcraft D.S., Inc.				
Telco	Patent Status	Date of Status	Managed	Radio	THCC Audit
Notes	Class		Change/	active	Complete
Code			Officio		
*****	Active	March 1978	*****		

Form Code: 209 Organic paint, ink, lacquer, or varnish
BPA Hazardous Waste Numbers: E001
Current Management Units: None

631, 211 Active 08/05/96 OGI No
Description from Comorbator: Masts, paint, valvet band. Erescae generating to Eron paint parts, tools and equipment -

Form Code: 209
 The Management Unit: 209
 Origin Codes: 1. Ocelliprocera/aerolos

5011031 1 Active 08/05/91 . OCE 110
Description from Generator: Paint waste solids from clean up of paint booth overspray, floor sweepings and wood mulch
overspray. Generating process is from painting all field tools and equipment.
Toxic Codes: 109 Other non-halogenated organic solids

Critical Management Unit: M008
.. * Origin Code: 1 On-site-procedure/service

6012212LH X . Netivo 08/05/94 OEE UO
Deactivation from Generator: Spent waste paint thinner used in thinning paint, cleaning paint equipment and general

Form Code: 221
 EPA Hazardous Waste Number: D001
 Current Management Unit: 11000
 Enhancement for Paving Preparation Activities of old fluid coolers and equipment. Contains mineral epoxies/Varnish/Map Haptha. Ignitable.
 221 Paving Enhancer or Petrochemical Alkylates

Origin Codes:	1 Onsite-process/assemble	415 Office cleaning and degreasing
Source Codes:	A22 Painting	
Measurement Points:	1 Defect fixing	
SIC Codes:	1389 Oil & Gas Field Services, Not Elsewhere Found	3533 Oil Field Machinery & Equipment
	7352 Equipment Rental and Leasing, NEC	

COL33191 1	Active	08/05/94	Off	HC
Description: From Generator: Pipe waste solids, including rust, drilling mud and dry oil. Generated during the cleaning of oil field drilling pipe. Non-hazardous.				
Form Code: 319 Other waste from waste solids				

Current Management Units: None
* Origin Codes: 1 One-step process/one-level

TEXAS NATURAL RESOURCES CONSERVATION COMMISSION
Office of Regulation
Industrial and Hazardous Waste

5327 Webster, C.S., Inc. Date of Managed
Waste Class Status Onsite/ active Complete
Code 02/20/97

0203071 1 Active 08/05/94 OFF No
Description from Generator: Scrap metal. Generated during the manufacture and servicing of oil field tools and equipment. Miscellaneous metal pieces and parts which are no longer useable are scrapped and sent to metal recycler. Non-hazardous.

Current Management Units: 307 Metal waste, filings, or scrap
Company's Internal Code(s): 1 Onsite-process/service

0203072 2 Active 08/05/94 OFF No
Description from Generator: Supplemental plant refuse - primarily solid floor sweepings from plant production operations. Non-hazardous.

Current Management Units: 902 Supplemental plant production refuse
Company's Internal Code(s): 1 Onsite-process/service

0203073 1 Active 08/05/94 OFF No
Description from Generator: Oil based machine coolant/water soluble. Liquid. Spent coolant from machining process of tooling, cutting and grinding. Non-hazardous.

Current Management Units: 219 Other organic liquids
Company's Internal Code(s): 1 Onsite-process/service

0203074 1 Active 08/05/94 OFF No
Description from Generator: Pipe coating. Coating is applied to oil field drilling pipe to inhibit corrosion. Pried/solidified accumulations of drippings from application process are collected for disposal.

Current Management Units: 409 Petroleum contaminated solids
Company's Internal Code(s): 1 Onsite-process/service

0203075 1 Active 08/05/94 OFF No
Description from Generator: Paint waste, liquids, containing toluene and/or xylene. Spent paint from painting tools, parts and equipment. Hazardous

Current Management Units: 209 Organic paint, ink, lacquer, or varnish
Company's Internal Code(s): 1 Onsite-process/service

0203076 1 Active 08/05/94 OFF No
Description from Generator: 1 Before mixing
Current Management Units: 1009 Oil & Gas Field Services, Not Elsewhere Found
Company's Internal Code(s): 7553 Equipment Rental and Leasing, NEC 3533 Oil Field Machinery & Equipment

75327 Bechtelford U.S., Inc.
Waste Class: Status Date of Managed
Class Status Offsite
Active Status Offsite

602531011 H Active 06/05/94 OLF No
Description from Generator: Paint waste filters. Solid paint filters containing liquids. Not dry. Used paint filters from spray paint equipment used in paint equipment. Paint contains toluene and xylene from thinning process. Hazardous. 1

EPA Hazardous Waste Number: Form Code: 310 Spent solid filters or adsorbents (inorganic)
Current Management Unit: D001 F003 F005
None

* Source Codes: 122 Painting
* SIC Codes: 1389 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
* SIC Codes: 7259 Equipment Rental and Leasing, NEC
* Internal Code(s): Paint filters/hazardous

6025312 Active 08/05/94 OLF No
Description from Generator: Petroleum contaminated solids. Non-hazardous. Sand, silt, grit, residual hydraulic oil, grease and paint chips accumulate from cleaning of oil field pipe, parts, and equipment.
Form Code: 483 Petroleum contaminated solids
Current Management Unit: None
* Origin Codes: 1 Onsite-process/service

60253131 Active 12/28/94 OLF No
Description from Generator: Used tires removed from trucks & equipment. Tires are no longer in service & are sent to tire recycler.
Form Code: 313 Other waste inorganic solids
Current Management Unit: None
* Origin Codes: 1 Onsite-process/service 3 From non-haz waste mgmt

602532031 H Active 09/18/95 OLF No
Description from Generator: Waste paint aerosol cans used for painting oil field tools & equipment. Oil field tools & equipment are painted as needed between use. Waste includes paint aerosol cans with residual paint & propellant.
Form Code: 209 Organic paint, ink, lacquer, or varnish
EPA Hazardous Waste Number: D001 F003 F005

Current Management Unit: None
* Origin Codes: 1 Onsite-process/service
* Source Codes: 122 Painting
* SIC Codes: 1385 Oil & Gas Field Services, Not Elsewhere Found 3533 Oil Field Machinery & Equipment
* SIC Codes: 7259 Equipment Rental and Leasing, NEC

603018321 Active 09/21/95 OLF No
Description from Generator: Drilling mud, cement & crude oil solids from cleaning oil field drilling mud circulation pits. Pits are aerated & cleaned at facility between rentals. Waste includes a mixture of solid residual drilling mud, cement, crude oil & paraffin scraped & cleaned from pits.
Form Code: 483 Petroleum contaminated solids
Current Management Unit: None
* Origin Codes: 1 Onsite-process/service

*** TEXAS NATURAL RESOURCE CONSERVATION COMMISSION ***
 Notice of Registration
 Industrial and Hazardous Waste

Page:
 Date: 02/20/97

75127 Westford U.S. Inc.
 Name: Status: Date of: Managed: Radio-: TREC Judic:
 Waste Class: Status: Origin/ active: Complete
 Code: 0601031111
 Active Waste Status: 0601031111

6011031111 Active 03/12/95 0601031111 No
 Description from Generator: Spent caustic solution used for stripping paint & grease from old field rental tools during plugging process. Water includes alkyl solution of water, sodium hydroxide, oil, grease & paint.

Form Code: 102 Spent caustic
 EPA Hazardous Waste Number: D002 D006 E007 E008
 Current Management Unit: None

* Origin Codes: 1 Onsite-process/service
 * Source Codes: A01 Caustic (alkali) cleaning
 * Measurement Points: 1 before mixing
 * SIC Codes: 1300 Oil & Gas Field Services, Not Elsewhere Found

9300m H. Active OFF No
 Pelton from Generator: D001 CHARACTERISTIC OF TOXICITY

EPA Hazardous Waste Number: D018 D019
 Current Management Unit: None

* The first value is considered the primary value (e.g. primary origin code).
 As of 03/13/1995, the next unassigned sequence number for WASTES is 6032.

* No longer generated wastes *

00136951 1 Inactive 03/18/95 DA No
 Description from Generator: Petroleum contaminated sludge from pump. Tools are clean cleaned and washed to remove lubricant, dirt, paint, scale and corrosion. Liquids are removed and this sludge remains.

Form Code: 1000
 Current Management Unit: 1 Onsite-process/service
 * Origin Codes: 1 Sludge
 Company's Internal Code(s):

00136951 1 Inactive 03/18/95 DA No
 Description from Generator: Pipe coating. No hazardous. Pipe coating is applied to old field drilling pipe to inhibit corrosion. Drilled/solidified accumulations of the drilling fluid the application process are collected for disposal.

Form Code: 1000
 Current Management Unit: 1 Onsite-process/service
 * Origin Codes: 1 Pipe coating/dripping
 Company's Internal Code(s):

As of 03/13/1995, the next unassigned sequence number for WASTES is 6032.

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-13
Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Bob Alexander
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 1609 S. Ave. South Levelland, TX 79336
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Controlled Recovery
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 1609 S. Ave. South Levelland, Texas 79336	
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Oilfield waste from sump generated from the steam cleaning of oil field tools.

I am enclosing analytical, Certificate of Waste Status and chain of custody.

08-008 Also enclosed is the Texas Waste Code approval.

Called 8-31-99 spoke to Kath Need CoC & Name & Company info

Estimated Volume 150 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 8-27-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ Eng. Specialist DATE: 8-30-99

APPROVED BY: _____ TITLE: _____ DATE: _____

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY/GENERATOR Mr. Bob AlexanderADDRESS 1609 South Avenue South, Levelland, Texas 79336GENERATING SITE 1609 South Avenue South, Levelland, Texas 79336COUNTY Hockley STATE TXTYPE OF WASTE Oil field waste from sumpESTIMATED VOLUME 150 cubic yardsGENERATING PROCESS Steam cleaning of oil field tools.

REMARKS _____

NMOCD FACILITY CONTROLLED RECOVERY INC.TRUCKING COMPANY Controlled Recovery, Inc. (505) 393-1079

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40CFR, Section 2613.

AGENT



SIGNATURE

NAME Melinda Beggs

PRINTED

ADDRESS 1031 Andrews Hwy., Ste 207BMidland, Texas 79701DATE June 17, 1999

Summit Environmental Technologies, Inc.
your connection to a cleaner environment

ASLA CERTIFICATION NO. 721.01

Offices in Major U.S. Cities



April 14, 1999

2/5

R & D Pump Services
111 34th Street
Lubbock, TX 79404

Date Collected: 4/2/99
Date Received: 4/5/99
Project #: Bob Alexander
Laboratory ID #: 99965-06
Client ID #: 13 - Stockpile
Matrix: Solid
Analysis: Method 8260
Date of Analysis: 4/9/99

VOC Analysis (Method 8260)

<u>Parameter</u>	<u>Detection Level (ug/kg)</u>	<u>Result (ug/kg)</u>
Benzene	5.0	< 5.0
Bromobenzene	5.0	< 5.0
Bromochloromethane	5.0	< 5.0
Bromodichloromethane	5.0	< 5.0
Bromoform	5.0	< 5.0
Bromomethane	5.0	< 5.0
n-Butylbenzene	5.0	6.0
iso-Butylbenzene	5.0	< 5.0
tert-Butylbenzene	5.0	< 5.0
Carbon Tetrachloride	5.0	< 5.0
Chlorobenzene	5.0	< 5.0
Chloroethane	10.0	< 10.0
Chloroform	5.0	< 5.0
Chloromethane	10.0	< 10.0
2-Chlorotoluene	10.0	< 10.0
4-Chlorotoluene	5.0	< 5.0
1,2-Dibromo-3-chloropropane	10.0	< 10.0
Dibromochloromethane	5.0	< 5.0
1,2-Dibromomethane	5.0	< 5.0
Dibromomethane	5.0	< 5.0
1,2-Dichlorobenzene	5.0	< 5.0
1,3-Dichlorobenzene	5.0	< 5.0
1,4-Dichlorobenzene	5.0	< 5.0
Dichlorodifluoromethane	10.0	< 10.0
1,1-Dichloroethane	5.0	< 5.0
1,2-Dichloroethane	5.0	< 5.0
1,1-Dichloroethane	5.0	< 5.0
cis-1,2-Dichloroethane	5.0	< 5.0
trans-1,2-Dichloroethane	5.0	< 5.0

Laboratory Manager: Bassam Youssef

Summit Environmental Technologies, Inc.
your connection to a cleaner environment

A2LA CERTIFICATION NO. 724.01

Offices in Major U.S. Cities



April 14, 1999

3/5

R & D Pump Services
 111 34th Street
 Lubbock, TX 79404

Date Collected: 4/2/99
 Date Received: 4/5/99
 Project #: Bob Alexander
 Laboratory ID #: 99965-06
 Client ID #: 13 - Stockpile
 Matrix: Solid
 Analysis: Method 8260
 Date of Analysis: 4/9/99

VOC Analysis (Method 8260, Cont'd)

<u>Parameter</u>	<u>Detection Level (ug/kg)</u>	<u>Result (ug/kg)</u>
1,2-Dichloropropane	5.0	< 5.0
1,3-Dichloropropane	5.0	< 5.0
2,2-Dichloropropane	5.0	< 5.0
1,1-Dichloropropane	5.0	< 5.0
Ethylbenzene	5.0	< 5.0
Hexachlorobutadiene	5.0	< 5.0
Isopropylbenzene	5.0	< 5.0
p-Isopropyltoluene	5.0	< 5.0
Methylene Chloride	5.0	< 5.0
Naphthalene	5.0	< 5.0
n-Propylbenzene	5.0	< 5.0
Styrene	5.0	< 5.0
1,1,1,2-Tetrachloroethane	5.0	< 5.0
1,1,2,2-Tetrachloroethane	5.0	< 5.0
Tetrachloroethane	5.0	< 5.0
Toluene	5.0	6.0
1,2,3-Trichlorobenzene	5.0	< 5.0
1,2,4-Trichlorobenzene	5.0	< 5.0
1,1,1-Trichloroethane	5.0	< 5.0
1,1,2-Trichloroethane	5.0	< 5.0
Trichloroethane	5.0	< 5.0
Trichlorofluoromethane	10.0	< 10.0
1,2,3-Trichloropropane	5.0	< 5.0
1,2,4-Trimethylbenzene	5.0	< 5.0
1,3,5-Trimethylbenzene	5.0	24.0
Vinyl Chloride	10.0	< 10.0
o-Xylene	5.0	< 5.0
m,p-Xylene	5.0	< 5.0

Laboratory Manager: Bassam Youssef

Summit Environmental Technologies, Inc.
your connection to a cleaner environment

A2LA CERTIFICATION NO. 724.01

Offices in Major U.S. Cities



April 14, 1999

4/5

R & D Pump Services
 111 34th Street
 Lubbock, TX 79404

Date Collected: 4/2/99
 Date Received: 4/5/99
 Project #: Bob Alexander
 Laboratory ID #: 99965-06
 Client ID #: 13 - Stockpile
 Matrix: Solid
 Analysis: Method 8270
 Date of Analysis: 4/12/99

<u>Parameter</u>	<u>Detection Limit (mg/kg)</u>	<u>Result (mg/kg)</u>
Acenaphthene	0.2	< 0.2
Acenaphthylene	0.2	< 0.2
Anthracene	0.2	< 0.2
Benzidine	0.5	< 0.5
Benzo (a) anthracene	0.2	< 0.2
Benzo (a) pyrene	0.2	< 0.2
Benzo(b)fluoranthene	0.2	< 0.2
Benzo (ghi) perylene	0.2	< 0.2
Benzo (k) fluoranthene	0.2	< 0.2
bis (2-Chloroethoxy) methane	0.2	< 0.2
bis (7-Chloromethyl) ether	0.2	< 0.2
bis (2-chloroisopropyl) ether	0.2	< 0.2
bis (2-Ethylhexyl) phthalate	0.2	< 0.2
4-Bromophenyl phenyl ether	0.2	< 0.2
Buryl benzyl phthalate	0.2	< 0.2
2-Chloronaphthalene	0.2	< 0.2
4-Chlorophenyl phenyl ether	0.2	< 0.2
Chrysene	0.2	< 0.2
Dibenzo (a,h)anthracene	0.2	< 0.2
1,2-Dichlorobenzene	0.2	< 0.2
1,3-Dichlorobenzene	0.2	< 0.2
1,4-dichlorobenzene	0.2	< 0.2
3,3'-Dichlorobenzidine	0.5	< 0.5
Diethyl phthalate	0.2	< 0.2
Dimethyl phthalate	0.2	< 0.2
Di-n-butyl phthalate	0.2	< 0.2
2,4-Dinitrotoluene	0.2	< 0.2
2,6-Dinitrotoluene	0.2	< 0.2
Di-n-octyl phthalate	0.2	< 0.2

Laboratory Manager: Bassam Yousof

Summit Environmental Technologies, Inc.
your connection to a cleaner environment

A2LA CERTIFICATION NO. 724.01

Offices in Major U.S. Cities



April 14, 1999

5/5

R & D Pump Services
111 34th Street
Lubbock, TX 79404

Date Collected: 4/2/99
Date Received: 4/5/99
Project #: Bob Alexander
Laboratory ID #: 99965-06
Client ID #: 13 - Stockpile
Matrix: Solid
Analysis: Method 8270
Date of Analysis: 4/12/99

<u>Parameter</u>	<u>Detection Limit (mg/kg)</u>	<u>Result (mg/kg)</u>
1,2-Diphenylhydrazine	0.2	< 0.2
Fluoranthene	0.2	< 0.2
Fluorene	0.2	< 0.2
Heptachlorobenzene	0.2	< 0.2
Hexachlorobutadiene	0.2	< 0.2
Hexachlorocyclopentadiene	0.2	< 0.2
Hexachloroethane	0.2	< 0.2
Indeno (1,2,3-cd) pyrene	0.2	< 0.2
Isophorone	0.2	< 0.2
Naphthalene	0.2	< 0.2
Nitrobenzene	0.2	< 0.2
N-Nitrosodimethylamine	0.2	< 0.2
N-Nitrosodi-n-propylamine	0.2	< 0.2
N-Nitrosodiphenylamine	0.2	< 0.2
Phenanthrene	0.2	0.5
Pyrene	0.2	< 0.2
1,2,4-Trichlorobenzene	0.2	< 0.2
2-Chlorophenol	0.5	< 0.5
2,4-Dichlorophenol	0.5	< 0.5
2,4-Dimethylphenol	0.5	< 0.5
4,6-Dinitro-o-cresol	0.5	< 0.5
2,4-Dinitrophenol	0.5	< 0.5
2-Nitrophenol	0.5	< 0.5
4-Nitrophenol	0.5	< 0.5
p-Chloro-m-cresol	0.5	< 0.5
Pentachlorophenol	0.5	< 0.5
Phenol	0.5	< 0.5
2,4,5-Trichlorophenol	0.5	< 0.5
2,4,6-Trichlorophenol	0.5	< 0.5

Laboratory Manager: Bassam Yousef

03/24/1999 11:02 2162534499

PAGE 02

Summit Environmental Technologies, Inc.
your connection to a cleaner environment

A2LA CERTIFICATION NO. 724.01

Offices in Major U.S. Cities



March 24, 1999

1/4

R & D Pump Services
111 34th Street
Lubbock, TX 79404

Date Collected: 1/9/99
Date Received: 1/10/99
Project #: Bob Alexander
Client ID #: 3 - Sump Tap
Laboratory ID #: 99647-03
Matrix: Solid
Extraction Method: 1311
Date of Analysis: 1/19/99

TCLP Metals

<u>Parameter</u>	<u>Detection Limit</u> <u>(mg/l)</u>	<u>Results</u> <u>(mg/l)</u>	<u>Regulatory Level</u> <u>(mg/l)</u>
Silver	0.01	< 0.01	5
Lead	0.1	< 0.1	5
Cadmium	0.005	< 0.005	1
Chromium	0.05	< 0.05	5
Arsenic	0.01	< 0.01	5
Mercury	0.002	< 0.002	0.2
Barium	1.0	< 1.0	100
Selenium	0.02	< 0.02	1

Laboratory Manager: Barbara Young

03/24/99 11:23

TX/RX NO.3516

P.002

TRACEANALYSIS, INC.

5701 Aberdeen Avenue, Suite 9 Lutbeck, Texas 79424 803-373-1296 306-794-1236 FAX 306-794-1238
 4725 Ridley Avenue, Suite A El Paso, Texas 79902 886-563-3443 815-585-3443 FAX 815-585-3944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

Bob J. Alexander

Attention: Bob Alexander

P. O. Box 272

Levelland, Texas 79336

Extraction Date: 08/24/99

Analysis Date: 08/24/99

Sampling Date: 08/17/99

Sample Condition: I & C

Sample Received by: VW

Project Name:

August 25, 1999

Receiving Date: 08/17/99

Sample Type: Soil

Project No:

Project Location: 1609 S Levelland

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
-----	------------	------------	-------------------	-------------------	-------------	--------------	--------------

EPA LIMIT =

Composite

<2 >12.5

Non-corrosive

7.20

Non-ignitable

RPD

% Extraction Accuracy

% Instrument Accuracy

0

100

--

0

80

--

0

100

--

0

100

--

0

100

--

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.

CHEMIST: JM

Director, Dr. Blair Leftwich

Date

8-25-99

800-378-1296
Lutbeck



Page _____ of _____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST		LAB Order ID # <u>99081724</u>	
TraceAnalysis, Inc. 4775 Ridley Dr., Ste A El Paso, Texas 79922-1028 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443		Company Name: <u>Bob J. Alexander</u> Phone #: <u>806-899-5676</u> Address: <u>P.O. Box 388, Hobbs 79336</u> Contact Person: <u>Bob J. Alexander</u>	
Project Location: <u>1609 Avenue S. Lovelland</u> Project Name: <u>Bob J. Alexander</u>		Invoice to: (If different from above) Project #:	
LAB # (LAB USE ONLY)		FIELD CODE	
130012		Composite	
LAB USE ONLY Intact ☒ Y ☐ N Headspace ☐ Y ☒ N Temp _____ Log-in Review _____		REMARKS: Send Hard Copy to P.O. Box 388, Hobbs 79336 & Hard Copy to Bob Alexander. For a Copy to CRI 505-992-3615	
ANALYSIS REQUEST (Circle or Specify Method No.)		LAB USE ONLY Intact ☒ Y ☐ N Headspace ☐ Y ☒ N Temp _____ Log-in Review _____	
MIRE 8021B/602 BTEX 8021B/602 TPH 418.1/7X1005 PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi Vol. 8270C/625 PCB's 8082/808 Pesticides R081A/608 HOD, TSS, PH		Turn Around Time if different from standard	

Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.



S.B.T.

CHAIN OF CUSTODY

AZLA CERTIFICATION #: 0724-01

PROJECT NAME: Bob Alexander PROJECT LOCATION 1603 Ave S Loveland TX PO#:
IDENT NAME: Bob Alexander CLIENT ADDRESS P.O. Box 272 Loveland TX 75334
CONTACT PERSON: Chuck DeLore PHONE # 806-742-5532 FAX # 806-426441 SAMPLED BY: Paul Birdland

[illegible]

SPECIAL INSTRUCTIONS: May Results to be used for Analysis per Texas Standards
 ANALYZED BY: Carl Kunkel DATE: 3-9-93 RECEIVED BY: _____ DATE: _____
 RECEIVED AT THE LAB BY: _____ DATE: _____



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

ONE-TIME SHIPMENT REQUEST FOR TEXAS WASTE CODE FOR SHIPMENT OF CLASS 1, 2, 3 AND EPA HAZARDOUS WASTE

HW Gen - Bob
Alexander

Pursuant to the generator notification requirements of 30 TAC Section 335.6, the generator of a solid waste is required to submit to the TNRCC detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be changed without prior approval from the TNRCC.

Please type or print legibly:

GENERATOR CONTACT PERSON
GENERATOR COMPANY NAME
GENERATOR MAILING ADDRESS
CITY, STATE, ZIP CODE

PHONE NO. (915) 522-2133 (Conservant)
FAX NO. () - NONE

Bob Alexander
1607 South Avenue South
Cleveland, TX 79336

COMPLETE ONLY IF NOT REGISTERED

Are you industrial? ☒ Yes ☐ No

If industrial, have you submitted TNRCC Initial Notification form (TNRCC-0002)? ☐ Yes ☒ No

Date submitted: _____

COMPLETE ONLY IF REGISTERED

XXX02

Solid Waste Registration No.

U. S. EPA Identification No.

Generating Site Location (☒ Check if same as above) _____

(STREET ADDRESS OR PHYSICAL DESCRIPTION)

Designated Treatment, Storage, and/or Disposal Facility Name and Address BFI, Canyon, Texas or

Leo Land Disposal in New Mexico

DESCRIPTION OF WASTE (do not use DOT description or trade name)

1. Sump Sludge from Steam Cleaning
Equipment
2. _____
3. _____
4. _____

TNRCC USE ONLY

For TNRCC Assignment of
Texas Waste Code Number

DXN96031

TEXAS WASTE CODES

① FORM CODE	② CLASS CODE	③ EPA CODE	④ ORIGIN CODE
<u>603</u>	<u>1</u>	<u>HA</u>	<u>1</u>

GENERATOR/REPRESENTATIVE

I certify that the above information is correct to the best of my knowledge.

1. Terry L. James, am employed by:
(NAME, Please Print)

(COMPANY NAME AND MAILING ADDRESS)

Clano. Permian Environmental Services
1031 Andrews Highway, Ste 115
Midland, Texas 79701

PROCESSED DATE:	<u>4-07-99</u>
PROCESSED BY:	<u>PM</u>
TNRCC REGION:	<u>2</u> OFFICE

I am authorized to sign this certification for:

Mr. Bob Alexander
(COMPANY NAME)

[Signature]
(SIGNATURE)

3/29/99
(DATE)

(915) 522-2133
(PHONE NUMBER)

Controlled Recovery, Inc.
P.O. Box 388 Hobbs, NM 88241
Phone: (505)393-1079 Fax: (505)393-3615

CRI

To:	MARTYNE KEELING NMOCD	From:	KATH HARPER
Fax:	(505) 827-8177	Pages:	3 including cover
Phone:		Date:	9-14-99
Re:		CC:	

HALLIBURTON CO. & WEAVER
SERVICE (BOB ALEXANDER) 1609
SOUTH AVE. SOUTH, LEVELLAND, TX
79336

☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• **Comments:**

MARTYNE, I AM FAXING WHAT I RECEIVED FROM MELINDA BEGGS (WHICH IS WHAT SHE RECEIVED) ON THE CHAIN OF CUSTODY FOR 4/99. I DON'T KNOW IF IT IS GOING TO WORK OR NOT, BECAUSE IT'S NOT HARDLY LEGIBLE. I WILL SEND THE ORIGINAL, ALTHOUGH, IN HONESTY, I DON'T THINK IT WILL HELP. I THINK I HAD ALREADY SENT YOU THE UPDATED CERTIFICATE OF WASTE, BUT AM ENCLOSING AGAIN ANYWAY. PLEASE CALL WHEN YOU RECEIVED THIS AND LET ME KNOW WHAT YOU THINK.

THANKS, KATH

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Halliburton Co. and Weaver Service

ADDRESS 1609 South Ave. South, Levelland, Texas 79336

GENERATING SITE 1609 South Ave. South, Levelland, Texas 79336

COUNTY Hockley STATE TX

TYPE OF WASTE Oilfield waste from sump

ESTIMATED VOLUME 150 cubic yards

GENERATING PROCESS Steam cleaning of oilfield tools

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc. (505) 393-1079

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT

Melinda Beggs
SIGNATURE

NAME Melinda Beggs (Llano-Permian Environmental)

PRINTED

ADDRESS 1031 Andrews Hwy. Suite 207B

Midland, TX 79701

DATE 7-17-99

STANFORD ENVIRONMENTAL TECHNOLOGIES, INC.

1595 EAST TALLMADGE AVENUE

AKRON, OHIO 44310

TEL: 330/253-8311; FAX: 330/253-4489

CHAIN OF CUSTODY

ATA CERTIFICATION # 0724-01



S.E.T.

PROJECT NAME: Bob Alexander PROJECT LOCATION: 1405 Ave 3 Cleveland Tx PO# RS 700 80 08CLIENT NAME: Bob Alexander CLIENT ADDRESS: P.O. Box 272 Cleveland Tx 75314CONTACT PERSON: Chuck Calandra PHONE # 806-747-3517 FAX # 806-747-6445 SAMPLED BY: Paul Bellamy

#	SAMPLE ID	MEDIA	TIME	DATE	BTX	GRO	DRE	TH	TOLP	TOLP	TOLP	TOLP	OTHERS
3029	3029	3029	3029	3029	3029	3029	3029	3029	3029	3029	3029	3029	3029
1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4	4	4	4	4
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46	46	46	46	46	46	46	46	46	46	46	46	46	46
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69	69	69	69	69	69	69	69	69	69	69	69	69	69
70	70	70	70	70	70	70	70	70	70	70	70	70	70
71	71	71	71	71	71	71	71	71	71	71	71	71	71
72	72	72	72	72	72	72	72	72	72	72	72	72	72
73	73	73	73	73	73	73	73	73	73	73	73	73	73
74	74	74	74	74	74	74	74	74	74	74	74	74	74
75	75	75	75	75	75	75	75	75	75	75	75	75	75
76	76	76	76	76	76	76	76	76	76	76	76	76	76
77	77	77	77	77	77	77	77	77	77	77	77	77	77
78	78	78	78	78	78	78	78	78	78	78	78	78	78
79	79	79	79	79	79	79	79	79	79	79	79	79	79
80	80	80	80	80	80	80	80	80	80	80	80	80	80
81	81	81	81	81	81	81	81	81	81	81	81	81	81
82	82	82	82	82	82	82	82	82	82	82	82	82	82
83	83	83	83	83	83	83	83	83	83	83	83	83	83
84	84	84	84	84	84	84	84	84	84	84	84	84	84
85	85	85	85	85	85	85	85	85	85	85	85	85	85
86	86	86	86	86	86	86	86	86	86	86	86	86	86
87	87	87	87	87	87	87	87	87	87	87	87	87	87
88	88	88	88	88	88	88	88	88	88	88	88	88	88
89	89	89	89	89	89	89	89	89	89	89	89	89	89
90	90	90	90	90	90	90	90	90	90	90	90	90	90
91	91	91	91	91	91	91	91	91	91	91	91	91	91
92	92	92	92	92	92	92	92	92	92	92	92	92	92
93	93	93	93	93	93	93	93	93	93	93	93	93	93
94	94	94	94	94	94	94	94	94	94	94	94	94	94
95	95	95	95	95	95	95	95	95	95	95	95	95	95
96	96	96	96	96	96	96	96	96	96	96	96	96	96
97	97	97	97	97	97	97	97	97	97	97	97	97	97
98	98	98	98	98	98	98	98	98	98	98	98	98	98
99	99	99	99	99	99	99	99	99	99	99	99	99	99
100	100	100	100	100	100	100	100	100	100	100	100	100	100

99929-01-915

FAX RATES 806-747-6445

SPECIAL INSTRUCTIONS: Run TPH on all (The Hotter Sample) Run PCA Matrix Semi-loc vol / Archive SampleRELINQUISHED BY: Paul Bellamy DATE: 9-14-99RECEIVED BY: 11A 00DATE: 9-14-99

G. STAM

P. O. Box 1980
Hobbs, NM 88241-1980
District III - (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-13
Originated: 8/87

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford Global Compression
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hallwood Catclaw Gathering Systems Unit # 702296
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter M & M Excavating
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 5200 Interstate 20 West, Midland, TX 79703	
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 with oil was generated from the compression station. I am enclosing analytical, Certificate of Waste Status and Chain of Custody.

08-007

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 8-27-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 8-30-99

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 8-31-99

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Weatherford Global CompressionADDRESS 5200 Interstate 20 West Midland, TX 79703GENERATING SITE Hallwood Catclaw C Gathering Systems

Unit #702296

COUNTY Eddy STATE NMTYPE OF WASTE Oil - Contaminated SoilESTIMATED VOLUME 10 yardsGENERATING PROCESS Compression StationREMARKS NoneNMOCD FACILITY Controlled Recovery Inc.TRUCKING COMPANY M & M Excavating

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT Jim Davis

SIGNATURE

NAME Jim Davis

PRINTED

ADDRESS Box 1841Carlsbad, NM 88221DATE 8-20-99



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH
P.O. BOX 388
HOBBS, NM 88241
FAX TO: (505) 393-3615

Receiving Date: 08/20/99
Reporting Date: 08/25/99
Project Owner: WEATHERFORD
Project Name: HALLWOOD CATCLAW
Project Location: EDDY NM 702296

Sampling Date: 08/20/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	08/24/99	08/23/99	08/24/99	08/23/99	08/23/99	08/23/99	08/24/99	08/24/99
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H4293-1 CATCLAW	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control	0.202	0.969	46.44	0.540	1.829	4.939	0.011	0.055
True Value QC	0.200	1.000	50.00	0.500	2.000	5.000	0.010	0.050
% Recovery	101	96.9	92.8	108	91.5	98.8	110	110
Relative Standard Deviation	0.8	0.5	5.3	0.2	0.5	0.8	9.1	7.2

METHODS: EPA 1311, 600/4-91/	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
------------------------------	-------	-------	-------	-------	-------	-------	-------	-------


Gayle A. Potter, Chemist

08/25/99
Date

H4293M.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 08/20/99

Reporting Date: 08/25/99

Project Owner: WEATHERFORD

Project Name: HALLWOOD CATCLAW

Project Location: EDDY NM 702296

Lab Number: H4293-1

Sample ID: CATCLAW

Analysis Date: 08/24/99

Sampling Date: 08/20/99

Sample Type: SOIL

Sample Condition: COOL & INTACT

Received By: AH

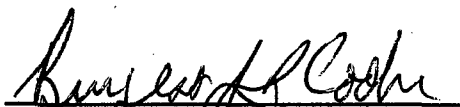
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4293-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.012	24	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.020	40	0.050
o-Cresol	200	<0.020	<0.005	0.013	26	0.050
m, p-Cresol	200	<0.020	<0.005	0.012	24	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.015	30	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.028	56	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.022	44	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.027	54	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.029	58	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.033	66	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.032	64	0.050
Pentachlorophenol	100	<0.020	<0.005	0.029	58	0.050

% RECOVERY

Fluorophenol	69
Phenol-d5	57
Nitrobenzene-d5	99
2-Fluorobiphenyl	81
2,4,6-Tribromophenol	74
Terphenyl-d14	112

METHODS: EPA SW 846-8270, 1311


Burgess J. A. Cooke, Ph. D.


Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR CONTROLLED RECOVERY, INC.

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 08/20/99

Reporting Date: 08/24/99

Project Owner: WEATHERFORD

Project Name: HALLWOOD CATCLAW

Project Location: EDDY NM 702296

Lab Number: H4293-1

Sample ID: CATCLAW

Analysis Date: 08/23/99

Sampling Date: 08/20/99

Sample Type: SOIL

Sample Condition: COOL & INTACT

Received By: AH

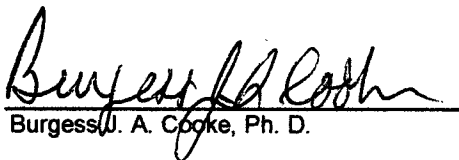
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4293-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.111	111	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.105	105	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.111	111	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.111	111	0.100
Benzene	0.5	<0.005	<0.005	0.095	95	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.096	96	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.106	106	0.100
Chlorobenzene	100	<0.005	<0.005	0.109	109	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.102	102	0.100

% RECOVERY

Dibromofluoromethane	95
Toluene-d8	93
Bromofluorobenzene	94

METHODS: EPA SW 846-8260, 1311


Burgess A. Cooke, Ph. D.

8/23/99
Date

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR
CONTROLLED RECOVERY, INC.**

ATTN: KEN MARSH

P.O. BOX 388

HOBBS, NM 88241

FAX TO: (505) 393-3615

Receiving Date: 08/20/99

Reporting Date: 08/24/99

Project Owner: WEATHERFORD

Project Name: HALLWOOD CATCLAW

Project Location: EDDY NM 702296

Sampling Date: 08/20/99

Sample Type: SOIL

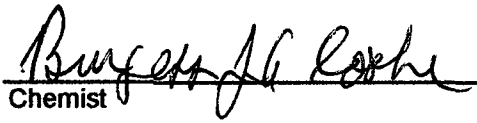
Sample Condition: COOL & INTACT

Received By: AH

Analyzed By: AH/BC

LAB NUMBER	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		08/23/99	08/23/99	08/24/99	08/24/99
H4293-1	CATCLAW	Not reactive	Not reactive	6.80	Nonflammable
Quality Control		NR	NR	7.01	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.9	NR

METHOD: EPA SW 846-7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261


Chemist

H4293R.XLS

8/24/99
Date

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2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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



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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

RECEIVED

AUG 25 1999

Form C-13
Originated: 8/8/99

Submit Original
Plus 1 Copy
to appropriate
District Office

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Star Tool Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 1000 NW County Rd. Hobbs Facility
2. Management Facility Destination Controlled Recovery Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM 88241
7. Location of Material (Street Address or ULSTR) 1000 NW County Rd.	Hobbs, NM 88240
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:

I am enclosing analytical, Certificate of waste and chain of custody on both, 200 bbls. of wash water and 20 yards of sludge generated from steam cleaning tools.

→ 08-005 200 bbls. of wash water
08-006 20 yards of sludge

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

SIGNATURE: _____ TITLE: Bookkeeper DATE: 8-20-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. DATE: 8-23-99

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 8/25/99

23



**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR STAR TOOL CO.ADDRESS 1000 NW COUNTY RD.GENERATING SITE HOBBBS FACILITYCOUNTY LEA STATE NMTYPE OF WASTE WASTE WATER & SLUDGEESTIMATED VOLUME 200 BBLs. WATER / 20 YDS. SLUDGEGENERATING PROCESS STEAM CLEANING TOOLS

REMARKS _____

NMOCD FACILITY CRITRUCKING COMPANY CRI

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

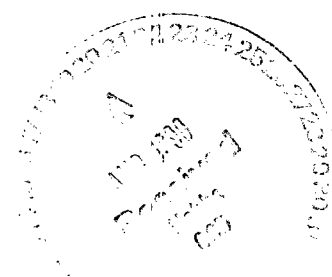
AGENT H. Don Rodgers

SIGNATURE

NAME H. DON RODGERS

PRINTED

ADDRESS 1000 NW COUNTY RD.HOBBBS NM 88240DATE 8/20/99





6/01 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-371-1296 806-754-1296 FAX 806-754-1296
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 821-588-3443 915-585-3443 FAX 915-585-4944
 E-Mail: lab@traceanalysis.com

**ANALYTICAL RESULTS FOR
STAR TOOL**

Attention: Don Rodgers
 P.O. Box 2008
 Hobbs, NM 88240

August 18, 1999
 Receiving Date: 8/4/99
 Sample Type: Sludge
 Project No: N/A
 Project Location: N/A

Extraction Date: 8/11/99
 Analysis Date: 8/12/99
 Sampling Date: 8/4/99
 Sample Condition: Intact & Cool
 Sample Received by: NG
 Project Name: Yearly Analysis

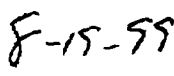
TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	Solids -BOP Sump		QC	RPD	%EA	%IA
			T128329 Conc.					
Vinyl chloride	0.20	0.05	ND		97	6	82	97
1,1-Dichloroethene	0.70	0.05	ND		102	5	98	102
Methyl Ethyl Ketone	200.0	0.5	ND		110	10	108	110
Chloroform	5.00	0.05	ND		103	4	100	103
1,2-Dichloroethane	0.50	0.05	ND		104	5	112	104
Benzene	0.50	0.05	ND		102	4	100	102
Carbon Tetrachloride	0.50	0.05	ND		120	15	98	120
Trichloroethene	0.50	0.05	ND		101	3	92	101
Tetrachloroethene	0.70	0.05	ND		97	3	86	97
Chlorobenzene	100.00	0.05	ND		97	4	95	97
1,4-Dichlorobenzene	7.50	0.05	ND		84	6	101	84

SURROGATES	% Recovery
Dibromofluoromethane	112
Toluene-d8	99
4-Bromofluorobenzene	97

ND = Not Detected

METHODS: EPA SW 846-1311, 8260B.
 CHEMIST: JG


 Director, Dr. Blair Leftwich


 DATE





6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424

El Paso, Texas 79977

E-Mail: lab@traceanalysis.com

HOU-378-1298

888-588-3443

806-794-1245

915-585-3443

FAX 808-794-1298

FAX 815-585-4944

ANALYTICAL RESULTS FOR STAR TOOLS

August 19, 1999

Receiving Date: 08/04/99

Sample Type: Sludge

Project No: N/A

Project Location: N/A

Project Name: Yearly Analysis

Attention: Don Rogers

P. O. Box 2008

Hobbs, NM 88241

Set Date: 08/05/99

Extraction Date: 08/06/99

Analysis Date: 08/10/99

Sampling Date: 08/04/99

Sample Condition: I & C

Sample Received by: VW

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T129329 Solids BOP Sump	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	63	8	57	104
1,4-Dichlorobenzene	7.5	0.05	ND	58	12	72	97
o-Cresol	200.0	0.05	ND	57	4	80	95
m,p-Cresol	200.0	0.05	ND	58	5	78	96
Hexachloroethane	3.0	0.05	ND	59	13	72	88
Nitrobenzene	2.0	0.05	ND	67	6	92	95
Hexachlorobutadiene	0.5	0.05	ND	52	11	89	86
2,4,6-Trichlorophenol	2.0	0.05	ND	55	11	98	92
2,4,5-Trichlorophenol	400.0	0.05	ND	57	1	87	95
2,4-Dinitrotoluene	0.13	0.05	ND	65	3	85	108
2,4-D	10.0	0.05	ND	61	8	79	102
Hexachlorobenzene	0.13	0.05	ND	54	8	101	89
2,4,5-TP	1.0	0.05	ND	56	4	91	93
Pentachlorophenol	100.0	0.05	ND	68	1	99	96

Surrogates	% RECOVERY
2-Fluorophenol	48
Phenol-d6	31
Nitrobenzene-d5	86
2-Fluorobiphenyl	84
2,4,6-Tribromophenol	88
Terphenyl-d14	91

ND - Not Detected

Methods: EPA SW 846-1311, 8270.

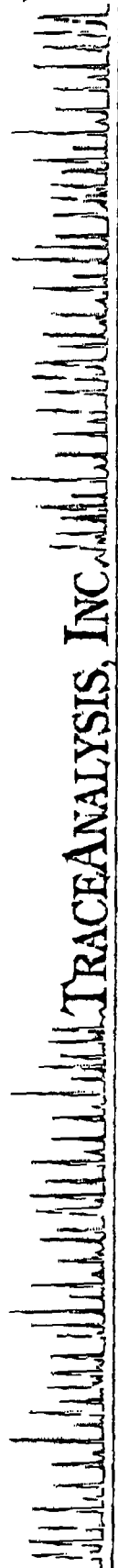
CHEMIST: LK

Director, Dr. Blair Leftwich

8-15-99

Date





6731 Alameda Avenue, Suite E Lubbock, Texas 79424 E30-378-1245 R35-754-1236 FAX 805-794-1238
 4725 Roper Avenue, Suite A El Paso, Texas 79522 938-585-3443 S75-535-3443 FAX 915-585-4544
 E-Mail: lab@traceanalysis.com

August 19, 1999

Receiving Date: 08/04/99

Sample Type: Sludge

Project No: N/A

Project Location: N/A

ANALYTICAL RESULTS FOR

STAR TOOLS

Attention: Don Rogers

P. O. Box 2008

Hobbs, NM 88241

Sampling Date: 08/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: Yearly Analysis

TCCLP METALS

TA#	FIELD CODE	As (mg/L)	Sa (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
T129329	Solids-BOP Sump	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
	EPA LIMIT =	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	0.22	<0.010
ICV		1.02	1.03	1.03	1.02	1.01	0.198	1.02	0.00487
CCV		1.01	1.02	1.00	1.01	0.99	0.195	1.03	0.00498
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		1	2	2	1	2	0	2	3
% Extraction Accuracy		104	104	101	101	98	100	98	98
% Instrument Accuracy		101	102	102	101	100	98	101	98
PREP DATE		08/05/99	08/05/99	08/05/99	08/05/99	08/05/99	08/05/99	08/05/99	08/05/99
ANALYSIS DATE		08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/11/99

METHODS: EPA SW 846-1311, 6010B, 7470A

CHEMIST: As, Sa, Cd, Cr, Pb, Ag, Ba, RR Hg: BP

TCCLP METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba:

TCCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba:

2.5 mg/L Ag Hg SPIKE: 0.050

0.20 mg/L Ag Hg CV: 0.0050

Director, Dr. Blair Leftwich

Date

8-15-99



TRACEANALYSIS, INC.

6701 Alarcon Avenue, Suite 5 Lubbock, Texas 79424 RC 5-794-1236 FAX 805-754-1238
 4725 Ripley Avenue, Suite A El Paso, Texas 79922 805-589-3443 9-5-535-3443 FAX 915-535-4344
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

STAR TOOL

Attention: Don Rodgers
 P.O. Box 2008
 Hobbs, NM 88240

Extraction Date: 8/12/99
 Analysis Date: 8/12/99
 Sampling Date: 8/4/99
 Sample Condition: Intact & Cool
 Sample Received by: NG
 Project Name: Yearly Analysis

August 18, 1999
 Receiving Date: 8/4/99
 Sample Type: Sludge
 Project No: N/A
 Project Location: N/A

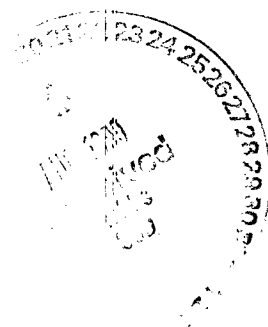
TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY (mm/yr)	pH (s.u.)	IGNITABILITY
T129329	EPA LIMIT = Solids-BOP Sump	---	500	250	>6.5 mm/yr.	<2 >12.5	---
QC	Quality Control	Non-reactive	<10	<2.5	Non-corrosive	8.06	Nonignitable
*Corrected field tox							
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		100	100	100	100	100	100

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
 CHEMIST: JM

Director, Dr. Blair Leftwich

DATE

8-19-99



TraceAnalysis, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 99080501

Company Name: STARR TOOL Phone # (505) 397-4988
Address: P.O. Box 2008, HOSRS N.M. 86440 (Street, City, Zip) Fax # 505-347-3675
Contact Person: Att. Don Rodgers
Voice to:
(different from above)
Project Name: Yearly Analysis
Project Location: Sampler Signature:

Cr Pb Se Hg 8010B/200.7
Cd Cr Pb Se Hg
C/625
erent from standard

[illegible]

By: TRACE ANALYST		Requested by: <u>Ysa Robed</u>		Date: <u>8/4</u>	Time: <u>4:05p</u>	LAB USE ONLY	REMARKS:
Requested by: _____		Date: _____		Time: _____			
Received by: _____		Date: _____		Time: _____		LAB USE ONLY	REMARKS:
Received at Laboratory by: <u>Roll Green</u>		Date: <u>8-4-99</u>		Time: <u>4:05pm</u>			
Infect: <u>Y / N</u>		Headspace: <u>Y / N</u>		Temp: <u>4</u>		LAB USE ONLY	REMARKS:
Log in Review: <u>Y / N</u>		Log in Review: <u>Y / N</u>		Log in Review: <u>Y / N</u>			

8/17



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

AUG 25 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Form C-1
Originated: 8/1

Submit Orig
Plus 1 C
to approp
District Of

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Star Tool Co.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 1000 NW County Rd Hobbs Facility
2. Management Facility Destination Controlled Recovery Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM 88241
7. Location of Material (Street Address or ULSTR) 1000 NW County Rd.	Hobbs, NM 88240
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:

I am enclosing analytical, Certificate of waste and chain of custody on both, 200 bbls. of wash water and 20 yards of sludge generated from steam cleaning tools.

→ 08-005 200 bbls. of wash water
08-006 20 yards of sludge

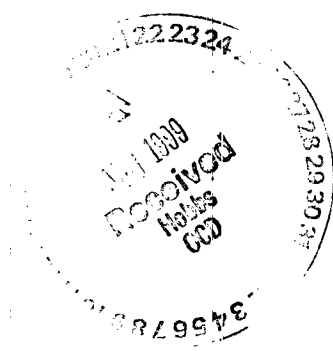
Estimated Volume see above cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: Bookkeeper DATE: 8-20-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Sp. DATE: 8-24-99

APPROVED BY: Martyn J. Kneib TITLE: Environmental Geologist DATE: 8/25/99



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR: STAR TOOL CO.
ADDRESS 1000 NW COUNTY RD.
GENERATING SITE HOBBS FACILITY
COUNTY LEA STATE NM
TYPE OF WASTE WASTE WATER & SLUDGE
ESTIMATED VOLUME 200 BBLs WATER / 20 YDS. SLUDGE
GENERATING PROCESS STEAM CLEANING TOOLS

REMARKS _____

NMOCD FACILITY CRI

TRUCKING COMPANY CRI

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT H. Don Rodgers

SIGNATURE

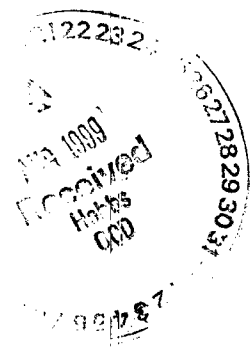
NAME H. DON RODGERS

PRINTED

ADDRESS 1000 NW COUNTY RD.

HOBBS NM 88240

DATE 8/20/99



Sent By: TRACEANALYSIS;

7941298;

19 Aug '99 4:55PM; Job 315; Page 8/8



8701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1298 815-794-1298 FAX 806-794-1298
4725 Hopley Avenue, Suite A El Paso, Texas 79922 815-588-3443 915-585-3443 FAX 915-515-4944
E-Mail: lab@traceanalysis.com

**ANALYTICAL RESULTS FOR
STAR TOOL**

Attention: Don Rodgers
P.O. Box 2008
Hobbs, NM 88240

August 18, 1999
Receiving Date: 8/4/99
Sample Type: Water
Project No: N/A
Project Location: N/A

Extraction Date: 8/12/99
Analysis Date: 8/12/99
Sampling Date: 8/4/99
Sample Condition: Intact & Cool
Sample Received by: NG
Project Name: Yearly Analysis

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	Recycled Water		QC	RPD	%EA	%IA
			T129330 Conc.					
Vinyl chloride	0.20	0.05	ND		97	6	82	97
1,1-Dichloroethene	0.70	0.05	ND		102	5	98	102
Methyl Ethyl Ketone	200.0	0.5	ND		110	10	108	110
Chloroform	8.00	0.05	ND		103	4	100	103
1,2-Dichloroethane	0.50	0.05	ND		104	5	112	104
Benzene	0.50	0.05	ND		102	4	100	102
Carbon Tetrachloride	0.50	0.05	ND		120	15	98	120
Trichloroethene	0.50	0.05	ND		101	3	92	101
Tetrachloroethene	0.70	0.05	ND		97	3	86	97
Chlorobenzene	100.00	0.05	ND		97	4	95	97
1,4-Dichlorobenzene	7.50	0.05	ND		84	6	101	84

SURROGATES	% Recovery
Dibromofluoromethane	112
Toluene-d8	98
4-Bromofluorobenzene	95

ND = Not Detected

METHODS: EPA SW 846-1311, 8260B.
CHEMIST: JG



Director, Dr. Blair Leftwich

8-19-99

DATE

121
COO
Facts
MICRO
PRO
1345678
2728293031



6701 Aberdeen Avenue, Suite 9
4725 Ripley Avenue, Suite A

Lubbock, Texas 79424 800-378-1296
El Paso, Texas 79927 888-588-3443
E-Mail: lab@traceanalysis.com

806-794-1286 FAX 806-794-1298
915-585-3443 FAX 915-585-4844

ANALYTICAL RESULTS FOR STAR TOOLS

August 19, 1999

Receiving Date: 08/04/99

Sample Type: Water

Project No: N/A

Project Location: N/A

Project Name: Yearly Analysis

Attention: Don Rogers

P. O. Box 2008

Hobbs, NM 88241

Set Date: 08/05/99

Extraction Date: 08/08/99

Analysis Date: 08/10/99

Sampling Date: 08/04/99

Sample Condition: I & C

Sample Received by: VW

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T129330 Recycled Water	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	63	6	57	104
1,4-Dichlorobenzene	7.5	0.05	ND	58	12	72	97
o-Cresol	200.0	0.05	ND	57	4	80	95
m,p-Cresol	200.0	0.05	ND	58	5	78	96
Hexachloroethane	3.0	0.05	ND	59	13	72	99
Nitrobenzene	2.0	0.05	ND	57	6	92	95
Hexachlorobutadiene	0.5	0.05	ND	52	11	69	86
2,4,6-Trichlorophenol	2.0	0.05	ND	55	11	99	92
2,4,5-Trichlorophenol	400.0	0.05	ND	57	1	87	95
2,4-Dinitrotoluene	0.13	0.05	ND	65	3	85	108
2,4-D	10.0	0.05	ND	61	8	79	102
Hexachlorobenzene	0.13	0.05	ND	54	8	101	89
2,4,5-TP	1.0	0.05	ND	56	4	91	93
Pentachlorophenol	100.0	0.05	ND	58	1	99	96

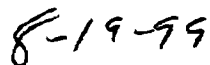
Surrogates	% RECOVERY
2-Fluorophenol	48
Phenol-d6	31
Nitrobenzene-d5	82
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	86
Terphenyl-d14	94

ND - Not Detected

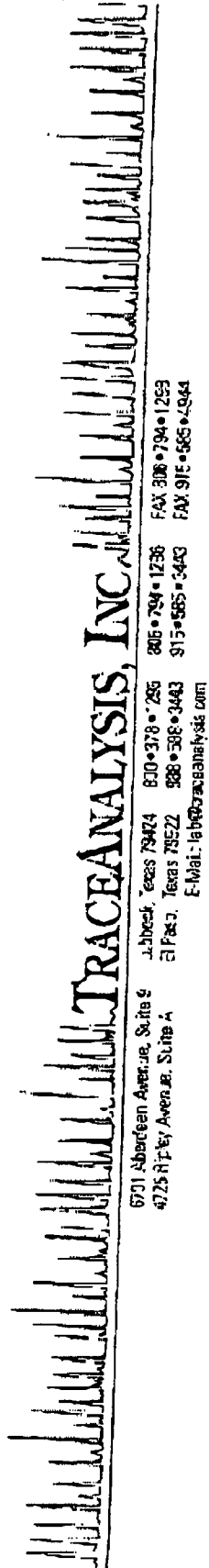
Methods: EPA SW 846-1311, 8270.

CHEMIST: LK


 Director, Dr. Blair Lettich


 Date





6701 Aberdeen Avenue, Suite 9
4725 Rye Avenue, Suite A
J. H. Beck, Texas 79424 810-378-2256 FAX 810-794-1253
El Paso, Texas 79522 988-598-3443 915-585-3443 FAX 915-585-4544
E-Mail: la66@traceanalysis.com

August 19, 1999

Receiving Date: 08/04/99

Sample Type: Water

Project No: N/A

Project Location: N/A

ANALYTICAL RESULTS FOR

STAR TOOLS

Attention: Don Rogers

P. O. Box 2008

Hobbs, NM 88241

Sampling Date: 08/04/99

Sample Condition: I & C

Sample Received by: VW

Project Name: Yearly Analysis

TCLP METALS

TA#	FIELD CODE	As (mg/L)	Se (mg/L)	Cd (mg/L)	Cr (mg/L)	Pb (mg/L)	Ag (mg/L)	Ba (mg/L)	Hg (mg/L)
T129330	Recycled Water	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
ICV		0.12	<0.10	<0.02	0.06	<0.10	<0.05	<0.10	<0.010
CCV		1.02	1.03	1.03	1.02	1.01	0.198	1.02	0.00487
		1.01	1.02	1.00	1.01	0.99	0.195	1.00	0.00496
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.06	0.10	0.010
RPD		1	2	2	1	2	0	2	3
% Extraction Accuracy		104	104	101	101	98	100	98	96
% Instrument Accuracy		101	102	102	101	100	98	101	98
PREP DATE		08/05/99	08/05/99	08/05/99	08/05/99	08/05/99	08/05/99	08/05/99	08/09/99
ANALYSIS DATE		08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/10/99

METHODS: EPA SW 846-1311, 60108, 7470A

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba, RR Hg: BP

TCLP METALS SPIKE: 10 mg/L As, Se, Cd, Cr, Pb, Ba:

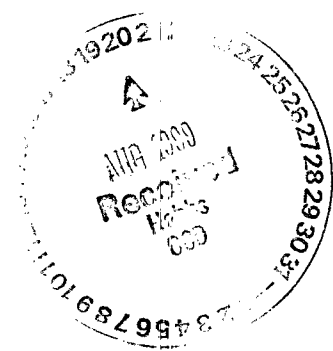
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 2.5 mg/L Ag Hg SPIKE: 0.050

0.20 mg/L Ag Hg CV: 0.0050


 Director, Dr. Blair Leftwich

Date

8-19-99



TRACEANALYSIS, INC.

5701 Averdeen Avenue, Suite 9 Lubbock, Texas 79424 802-378-1296 FAX 806-794-1298
 4725 Ripley Avenue, Suite A E. Paso, Texas 79022 888-538-3443 FAX 515-585-4944
 E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR STAR TOOL

August 18, 1999
 Receiving Date: 8/4/99
 Sample Type: Water
 Project No: N/A
 Project Location: N/A

Attention: Don Rodgers
 P.O. Box 2008
 Hobbs, NM 88240

Extraction Date: 8/12/99
 Analysis Date: 8/12/99
 Sampling Date: 8/4/99
 Sample Condition: Intact & Cool
 Sample Received by: NG
 Project Name: Yearly Analysis

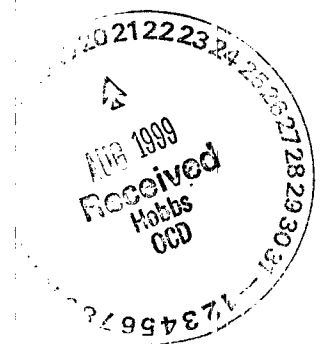
TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY (mm/yr)	pH (s.u.)	FLASHPOINT (F)
	EPA LIMIT =		500	250	>6.5 mm/yr.	<2 >12.5	>140 F
T129330	Recycled Water	Non-reactive	<10	<2.5	Non-corrosive	6.18	>150
QC	Quality Control	---	---	---	---	---	---
*Corrected field cox							
RPD		0	0	0	0	0	0
% Extraction Accuracy		---	---	---	---	---	---
% Instrument Accuracy		100	100	100	100	100	100

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2, Chapter 7 7.1.
 CHEMIST: JM

Director: Dr. Blair Leftwich

DATE

8-18-99



Page of

TraceAnalysis, Inc. 4705 Rodney Dr. Ste. A El Paso, Texas 79922-1322 Tel (915) 585-3443 Fax (915) 585-4944 (888) 585-3443		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST LAB Order ID # <u>99080501</u>		ANALYSIS REQUEST (Circle or Specify Method No.) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>MTBE B021B/C2</td> <td></td> </tr> <tr> <td>BTX B021B/C2</td> <td></td> </tr> <tr> <td>TPH 418.1/TK1005</td> <td></td> </tr> <tr> <td>PAH 82/RC</td> <td></td> </tr> <tr> <td>Total Metals: Ag As Ba Cd Cr Pb Se Hg B010B/200.7</td> <td></td> </tr> <tr> <td>TCLP Metals: Ag As Ba Cd Cr Pb Se Hg</td> <td></td> </tr> <tr> <td>TCLP Volatiles</td> <td></td> </tr> <tr> <td>TCLP Estm Volatiles</td> <td></td> </tr> <tr> <td>TCLP Pesticides</td> <td></td> </tr> <tr> <td>RCI</td> <td></td> </tr> <tr> <td>GC MS Vol. 8260B/824</td> <td></td> </tr> <tr> <td>GC MS Sam. Vol. 8270C/825</td> <td></td> </tr> <tr> <td>PCB's 8082/808</td> <td></td> </tr> <tr> <td>Mercurides 8081 A/608</td> <td></td> </tr> <tr> <td>BOD, TSS, PH</td> <td></td> </tr> <tr> <td>Turn Around Time if different from standard</td> <td></td> </tr> </table>		MTBE B021B/C2		BTX B021B/C2		TPH 418.1/TK1005		PAH 82/RC		Total Metals: Ag As Ba Cd Cr Pb Se Hg B010B/200.7		TCLP Metals: Ag As Ba Cd Cr Pb Se Hg		TCLP Volatiles		TCLP Estm Volatiles		TCLP Pesticides		RCI		GC MS Vol. 8260B/824		GC MS Sam. Vol. 8270C/825		PCB's 8082/808		Mercurides 8081 A/608		BOD, TSS, PH		Turn Around Time if different from standard	
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TraceAnalysis, Inc. 5701 Apolite Avenue, Ste. 9 Lubbock, Texas 79424 Tel (806) 794-256 Fax (806) 794-1299 (800) 976-1296		STAR TOOL (805) 397-4988 Fax: (805) 397-3675 P.O. Box 2008, Hobbs, N.M. 88240 Contact Person: <u>Don Rodgeas</u> voice to: <u>Don Rodgeas</u> (different from above) subject #: <u>Yearly Analysis</u> Project Name: <u>Yearly Analysis</u> Sampler Signature: _____																																			
LAB USE ONLY <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>LAB #</th> <th>FIELD CODE</th> <th># CONTAINERS</th> <th>VOLUME/AMOUNT</th> <th>MATRIX</th> <th>PRESERVATIVE METHOD</th> <th>SAMPLING DATE</th> <th>TIME</th> </tr> <tr> <td>19329</td> <td>Solids - BOP Sump</td> <td>1</td> <td></td> <td>WATER</td> <td>HCL</td> <td>8-4-99</td> <td></td> </tr> <tr> <td>19330</td> <td>Recycled Water</td> <td>2</td> <td></td> <td>WATER</td> <td>HCL</td> <td>8-4-99</td> <td></td> </tr> </table>		LAB #	FIELD CODE	# CONTAINERS	VOLUME/AMOUNT	MATRIX	PRESERVATIVE METHOD	SAMPLING DATE	TIME	19329	Solids - BOP Sump	1		WATER	HCL	8-4-99		19330	Recycled Water	2		WATER	HCL	8-4-99		LAB USE ONLY <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Intact</td> <td>Y / N</td> </tr> <tr> <td>Headspace</td> <td>Y / N</td> </tr> <tr> <td>Temp</td> <td>4</td> </tr> <tr> <td>Log-in Review</td> <td><u>7/17</u></td> </tr> </table>		Intact	Y / N	Headspace	Y / N	Temp	4	Log-in Review	<u>7/17</u>		
LAB #	FIELD CODE	# CONTAINERS	VOLUME/AMOUNT	MATRIX	PRESERVATIVE METHOD	SAMPLING DATE	TIME																														
19329	Solids - BOP Sump	1		WATER	HCL	8-4-99																															
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Intact	Y / N																																				
Headspace	Y / N																																				
Temp	4																																				
Log-in Review	<u>7/17</u>																																				
Received by: <u>Don Rodgeas</u> Date: <u>8/4</u> Time: <u>4:05pm</u>		Received by: _____ Date: _____ Time: _____																																			
Received by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____																																			



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

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AUG 2 1999
Environmental Bureau
Oil Conservation Division

Form
Originated
Submit O
Plus 1
to appro
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E Natural
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs, NM 88240	
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:

The following analytical is from the LG&E Natural Hobbs Plant. The waste was generated by rain water and/or washdown water. Included is a Certificate of Waste and a Chain of Custody. This material has been approved in the past.

08-004

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy
SIGNATURE: Ken Marsh TITLE: Manager DATE: 8-10-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 8-18-99
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 8-23-99



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural

ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and
wash down water at plant

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT _____

SIGNATURE

NAME Ed Sloman

PRINTED

ADDRESS 921 W. Sanger, Hobbs, NM 88241

Hobbs, NM 88241

DATE 8-10-99



ARDINAL
LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/24/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

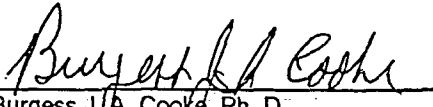
Analysis Date: 02/23/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.026	52	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.040	80	0.050
o-Cresol	200	0.163	<0.005	0.038	76	0.050
m, p-Cresol	200	0.089	<0.005	0.040	80	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.039	78	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.040	80	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.042	84	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.040	80	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.046	92	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.046	92	0.050
Pentachlorophenol	100	<0.050	<0.005	0.041	82	0.050

% RECOVERY

Fluorophenol	30
Phenol-d5	30
Nitrobenzene-d5	83
2-Fluorobiphenyl	75
2,4,6-Tribromophenol	78
Terphenyl-d14	67

METHODS: EPA SW 846-8270, 1311


Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-1
Sample ID: HOBBS PLANT

Analysis Date: 02/22/99
Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

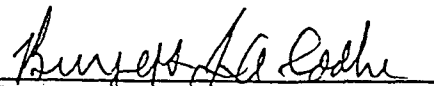
TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	0.744	<0.050	0.084	84	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.034	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.102	102	0.100
1,4-Dichlorobenzene*	7.5	0.012	0.015	0.113	113	0.100

% RECOVERY

Dibromofluoromethane	87
Toluene-d8	96
Bromofluorobenzene	96

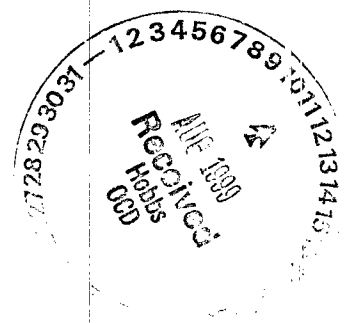
METHODS: EPA SW 846-8260, 1311

* Detected at comparable levels in sample & method blank.


Burgess J. A. Cooke, Ph. D.

2/23/99
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 02/22/99
Reporting Date: 02/26/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	02/23/99	02/24/99	02/24/99	02/24/99	02/26/99	02/26/99	02/25/99	02/23/99
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H4035-1 HOBBS PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-2 APEX STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-3 BOOTLEG STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-4 CALMON STATION	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4035-5 ANTELOPE RIDGE	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
PLANT								
Quality Control	0.040	1.117	17.30	1.003	4.828	4.973	0.0097	0.040
True Value QC	0.050	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery	80	112	87	100	97	99	97	80
Relative Standard Deviation	2.01	0.53	0.38	0.67	4.81	1.63	1.8	3.68

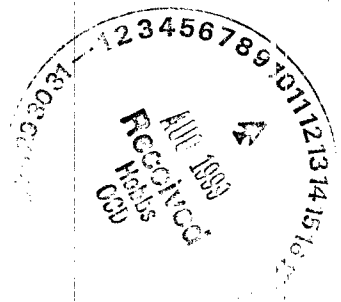
METHODS: EPA 1311, 600/4-91/01	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
--------------------------------	-------	-------	-------	-------	-------	-------	-------	-------

Chemist

Date

H4035M.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.ATTN: DYKE BROWNING
703 E. CLINTON, SUITE 103
HOBBS, NM 88240

FAX TO:

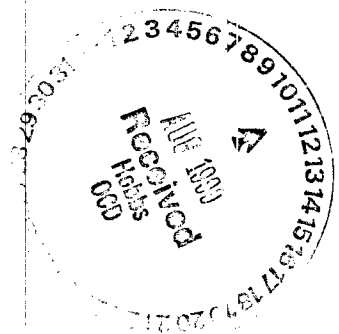
Receiving Date: 02/22/99
Reporting Date: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUSSampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY			
		Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/25/99	02/25/99	02/23/99	02/25/99
H4035-1	HOBBS PLANT	Not reactive	Not reactive	6.04	>140
H4035-2	APEX STATION	Not reactive	Not reactive	8.66	>140
H4035-3	BOOTLEG STN.	Not reactive	Not reactive	7.91	>140
H4035-4	CALMON STN.	Not reactive	Not reactive	6.47	>140
H4035-5	ANTELOPE RIDGE	Not reactive	Not reactive	8.74	>140
	PLANT				
Quality Control		NR	NR	7.02	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.3	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, 40 CFR 261

Chemist

Date



ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

+ Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR LG&E Natural
ADDRESS 921 W. Sanger, Hobbs, NM 88241

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 100 bbl.s

GENERATING PROCESS Generated from rain water and
wash down water at plant

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services

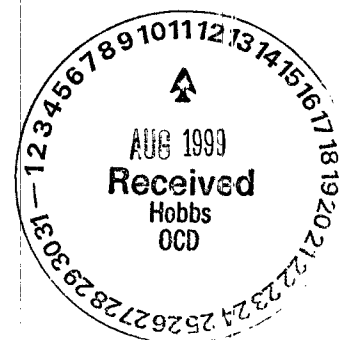
As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT 
SIGNATURE

NAME Ed Sloman
PRINTED

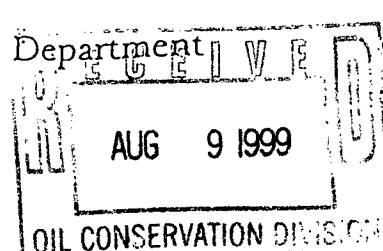
ADDRESS 921 W. Sanger, Hobbs, NM 88241
Hobbs, NM 88241

DATE _____



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



Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Banta Oilfield Serv. Inc.
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Yard
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Banta
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM 88241
7. Location of Material (Street Address or ULSTR) 2807 W. Marland,	Hobbs, NM 88240
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:

08-001

Paintwaste - I am enclosing analytical, Certificate of Waste Status and Chain of Custody.

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

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 8-5-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

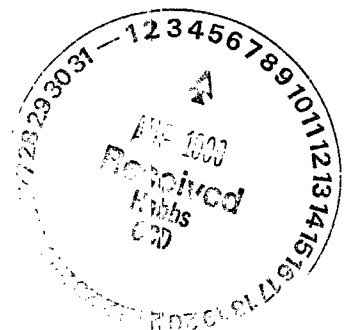
(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Specialist DATE: 8-6-99

APPROVED BY: Anthony G. G. TITLE: Environmental Geologist DATE: 9-10-99

10

15



**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Banta Oilfield ServicesADDRESS 2807 West Marland, Hobbs, NM 88240GENERATING SITE 2807 West Marland, TX 88240COUNTY Lea STATE NMTYPE OF WASTE PaintwasteESTIMATED VOLUME 5 c.y.GENERATING PROCESS Leftover paint - 56, 1/2

REMARKS _____

NMOCD FACILITY CRITRUCKING COMPANY Banta Oilfield Services

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT [Signature]
SIGNATURENAME W. Dee Whatley
PRINTEDADDRESS 703 E. Clinton #103
Hobbs, NM 88240DATE 8-5-99





CARDINAL LABORATORIES

PHONE (916) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DEE WHATLEY
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO: (505) 393-4388

Receiving Date: 07/28/99
Reporting Date: 07/30/99
Project Number: NOT GIVEN
Project Name: BANTA OILFIELD SERVICE
Project Location: HOBBS YARD

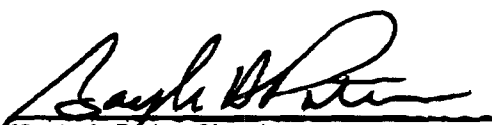
Sampling Date: 07/28/99
Sample Type: PAINT
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: GP/AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	07/29/99	07/30/99	07/30/99	07/30/99	07/30/99	07/30/99	07/30/99	07/29/99
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H4253-1 DRYING PIT COMP.	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control	0.051	2.054	54.92	1.034	0.947	2.047	0.0089	0.052
True Value QC	0.05	2.000	50.00	1.000	1.000	2.000	0.0100	0.050
% Recovery	102	102.7	109.8	103.4	94.7	102.4	99	104
Relative Standard Deviation	1.5	0.1	4.6	0.3	3.5	0.4	13.2	3.1

METHODS: EPA 1311, 600/4-91/	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
------------------------------	-------	-------	-------	-------	-------	-------	-------	-------


Gayle A. Potter, Chemist

07/30/99
Date

H4253M.XLS

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PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (506) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DEE WHATLEY
703 E. CLINTON, SUITE 103
HOBBS, NM 88240

Receiving Date: 07/28/99

Reporting Date: 07/30/99

Project Number: NOT GIVEN

Project Name: BANTA OILFIELD SERVICE

Project Location: HOBBS YARD

Lab Number: H4253-1

Sample ID: DRYING PIT COMP.

FAX TO: (505) 393-4388

Analysis Date: 07/29/99

Sampling Date: 07/28/99

Sample Type: PAINT

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4253-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.100	<0.002	0.012	24	0.050
1,4-Dichlorobenzene	7.50	<0.100	<0.002	0.020	40	0.050
o-Cresol	200	3.94	<0.002	0.013	28	0.050
m, p-Cresol	200	<0.100	<0.002	0.012	24	0.050
Hexachloroethane	3.00	<0.100	<0.002	0.015	30	0.050
Nitrobenzene	2.00	<0.100	<0.002	0.028	56	0.050
Hexachloro-1,3-butadiene	0.500	<0.100	<0.002	0.022	44	0.050
2,4,6-Trichlorophenol	2.00	<0.100	<0.002	0.027	54	0.050
2,4,5-Trichlorophenol	400	<0.100	<0.002	0.029	58	0.050
2,4-Dinitrotoluene	0.130	<0.100	<0.002	0.033	66	0.050
Hexachlorobenzene	0.130	<0.100	<0.002	0.032	64	0.050
Pentachlorophenol	100	<0.100	<0.002	0.029	58	0.050

% RECOVERY

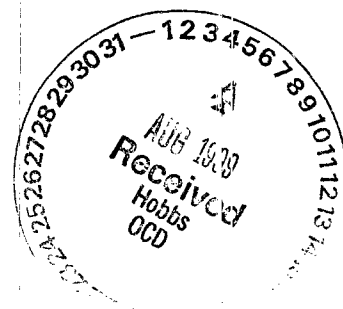
	MI(2)
Fluorophenol	14
Phenol-d5	68
Nitrobenzene-d5	47
2-Fluorobiphenyl	46
2,4,6-Tribromophenol	57
Terphenyl-d14	

METHODS: EPA SW 846-8270, 1311

NOTE: Matrix Interference (MI) observed; dilution required.

Burgess J. R. Cooke, Ph. D.
Burgess J. R. Cooke, Ph. D.

7/30/99
Date





ARDINAL LABORATORIES

PHONE (815) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.**

ATTN: DEE WHATLEY

703 E. CLINTON, SUITE 103

HOBBS, NM 88240

FAX TO: (505) 393-4388

Receiving Date: 07/28/99

Reporting Date: 07/30/99

Project Number: NOT GIVEN

Project Name: BANTA OILFIELD SERVICE

Project Location: HOBBS YARD

Sampling Date: 07/26/89

Sample Type: PAINT

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC/AH

REACTIVITY

LAB NUMBER SAMPLE ID

**Sulfide
(ppm)**

Cyanide CORROSIVITY IGNITABILITY
(ppm) (pH) (°F)

(pH)

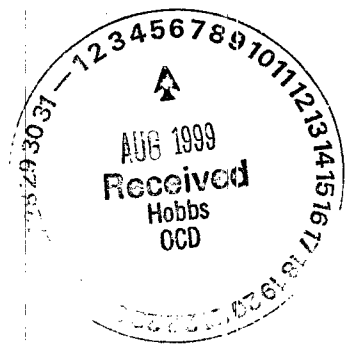
(F)

ANALYSIS DATE:		07/29/99	07/29/99	07/30/99	07/30/99
H4253-1	DRYING PIT	Not reactive	Not reactive	8.12	Nonflammable
	COMP.				
Quality Control		NR	NR	7.01	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0.1	NR

METHOD: EPA SW 846-7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

Chemist

Date _____





PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: DEE WHATLEY
703 E. CLINTON, SUITE 103
HOBBS, NM 88240

Receiving Date: 07/28/99

Reporting Date: 07/30/99

Project Number: NOT GIVEN

Project Name: SANTA OILFIELD SERVICE

Project Location: HOBBS YARD

Lab Number: H4253-1

Sample ID: DRYING PIT COMP.

FAX TO: (505) 393-4388

Analysis Date: 07/28/99

Sampling Date: 07/28/99

Sample Type: PAINT

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4253-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.111	111	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.105	105	0.100
Methyl Ethyl Ketone	200	9.55	<0.100	0.111	111	0.100
Chloroform	8.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.111	111	0.100
Benzene	0.5	0.104	<0.005	0.095	95	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.096	96	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.106	106	0.100
Chlorobenzene	100	<0.005	<0.005	0.109	109	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.102	102	0.100

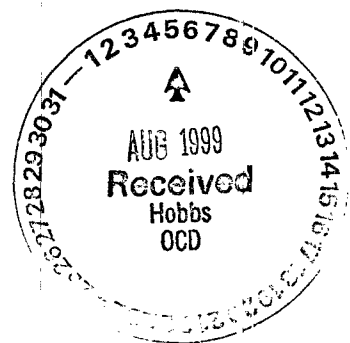
% RECOVERY

Dibromofluoromethane	96
Toluene-d8	105
Bromofluorobenzene	98

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke
Burgess J. A. Cooke, Ph. D.

7/30/99
Date



ARDINAL LABORATORIES, INC.

Page of

If terms and conditions of event will be changed on a second more than 30 days past due at the rate of 30% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

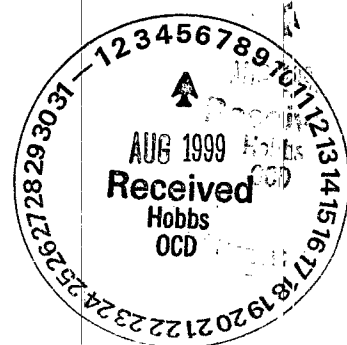
[illegible]

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result ☐ Yes ☐ No
REMARKS:

Receivables: (Lab Staff)

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

+ Cardinal cannot accept verbal changes. Please fax written changes to 815-673-7020.



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

JUL 26 1999

Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/87

Submit Origin
Plus 1 Co.
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Banta Oilfield Service
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 2807 W. Marland Hobbs, NM 88240
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Banta Oilfield Service
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 2807 W. Marland,	Hobbs, 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:

Oil spill in Hobbs location. I am enclosing analytical, Certificate of Waste and Chain of custody.

07-001

Estimated Volume 15 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 7-20-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 7-21-99
APPROVED BY: Monty J. King TITLE: Environmental Geologist DATE: 7-26-99



CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR Banta Oilfield Services

ADDRESS 2807 West Marland, Hobbs, NM 88240

GENERATING SITE 2807 W. Marland, Hobbs, NM

COUNTY Lea STATE NM

TYPE OF WASTE Soil

ESTIMATED VOLUME 15 C.Y.

GENERATING PROCESS Used Oil Spill

REMARKS _____

NMOCD FACILITY CRI

TRUCKING COMPANY Banta Oilfield Services

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

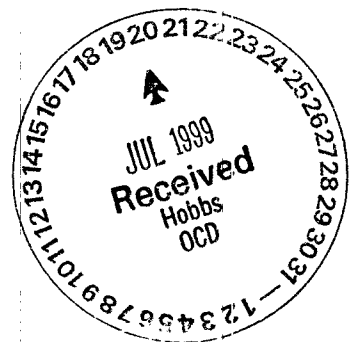
AGENT Beth A. Aldrich
SIGNATURE

NAME Beth A. Aldrich
PRINTED

ADDRESS Safety & Environmental Solutions, Inc.

703 E. Clinton, Suite 103, Hobbs, NM 88240

DATE 7-19-99





PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79803

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 06/28/99
Reporting Date: 06/30/99
Project Number: NOT GIVEN
Project Name: BANTA
Project Location: YARD
Lab Number: H4212-1
Sample ID: SPOILS PILE

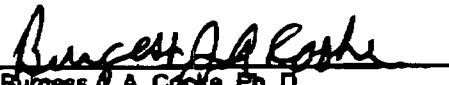
Analysis Date: 06/29/99
Sampling Date: 06/28/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JP
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4212-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.006	15	0.040
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.021	53	0.040
o-Cresol	200	<0.020	<0.005	0.012	30	0.040
m, p-Cresol	200	<0.020	<0.005	0.011	28	0.040
Hexachloroethane	3.00	<0.020	<0.005	0.014	35	0.040
Nitrobenzene	2.00	<0.020	<0.005	0.025	63	0.040
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.019	48	0.040
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.016	40	0.040
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.017	43	0.040
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.023	58	0.040
Hexachlorobenzene	0.130	<0.020	<0.005	0.021	53	0.040
Pentachlorophenol	100	<0.020	<0.005	0.012	30	0.040

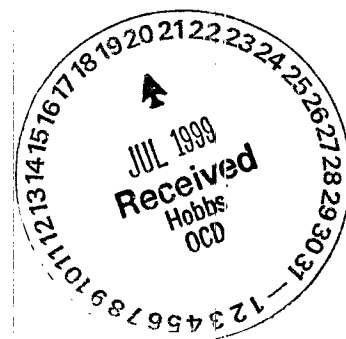
% RECOVERY

Fluorophenol	22
Phenol-d5	18
Nitrobenzene-d5	88
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	71
Terphenyl-d14	110

METHODS: EPA SW 846-8270, 1311


Burgess A. Cooke, Ph. D.

6/30/99
Date





PHONE (815) 678-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 06/28/99
Reporting Date: 06/30/99
Project Number: NOT GIVEN
Project Name: BANTA
Project Location: YARD
Lab Number: H4212-1
Sample ID: SPOILS PILE

Analysis Date: 06/29/99
Sampling Date: 06/28/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.111	111	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.105	105	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.111	111	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.111	111	0.100
Benzene	0.5	<0.005	<0.005	0.095	95	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.098	98	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.108	108	0.100
Chlorobenzene	100	<0.005	<0.005	0.109	109	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.102	102	0.100

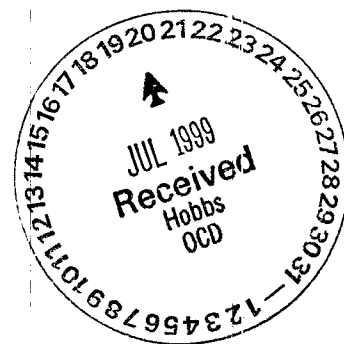
% RECOVERY

Dibromofluoromethane	83
Toluene-d8	87
Bromofluorobenzene	87

METHODS: EPA SW 846-8260, 1311

Burgess A. Cooke
Burgess A. Cooke, Ph. D.

6/30/99
Date





PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 06/28/99
Reporting Date: 07/02/99
Project Number: NOT GIVEN
Project Name: BANTA
Project Location: YARD

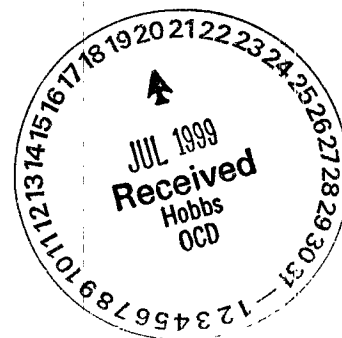
Sampling Date: 06/28/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JP
Analyzed By: BC/AH

LAB NUMBER SAMPLE ID	REACTIVITY			
	Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:	07/01/99	07/01/99	06/28/99	06/28/99
H4212-1 SPOILS PILE	Not reactive	Not reactive	8.17	Nonflammable
Quality Control	NR	NR	6.96	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	99.4	NR
Relative Percent Difference	NR	NR	0.1	NR

METHOD: EPA SW 846-7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

Benjamin J. Roache
Chemist

7/2/99
Date





PHONE (915) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 383-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SAFETY & ENVIRONMENTAL SOLUTIONS, INC.
ATTN: BOB ALLEN
703 E. CLINTON, SUITE 103
HOBBS, NM 88240
FAX TO:

Receiving Date: 06/28/99
Reporting Date: 07/02/99
Project Number: NOT GIVEN
Project Name: BANTA
Project Location: YARD

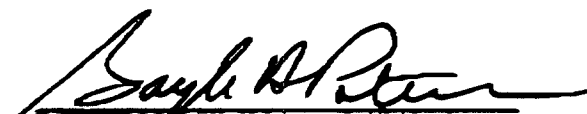
Sampling Date: 06/28/99
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: JP
Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
---------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	07/01/99	07/01/99	07/01/99	07/01/99	07/01/99	07/01/99	07/01/99	07/01/99	07/01/99
EPA LIMITS:	5	5	100	1	5	5	0.2	1	
H4212-1 SPOILS PILE	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1	
Quality Control	0.052	0.635	78.80	0.543	1.750	2.175	0.0099	0.051	
True Value QC	0.050	1.000	80.00	0.500	2.000	2.000	0.0100	0.050	
% Recovery	104	93.5	98.5	108.6	87.6	108.8	99	102	
Relative Standard Deviation	1.2	1.49	2.19	2.33	6.93	2.74	13.2	1.8	

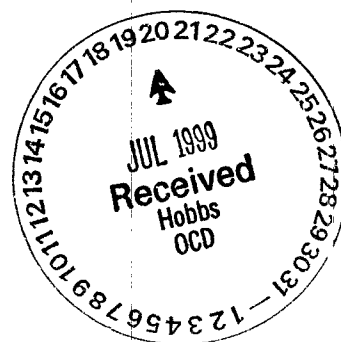
METHODS: EPA 1311, 600/4-91/	206.2	272.1	208.1	213.1	218.1	239.1	246.1	270.2	
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Gayle A. Potter, Chemist

07/02/99
Date

H4212M.XLS

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(815) 673-7001 Fax (815) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

RECEIVED
JUL 10 1999
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/87

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Hobbs Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 2708 W. County Rd.	Hobbs, NM 88240
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Waste water generated during the testing of oilfield pumps. I am including the analytical, Chain of Custody and a Certificate of Waste.

06-004

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 6-30-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 7-2-99

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 7-12-99

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"

COMPANY / GENERATOR BJ Services

ADDRESS 2708 West County Rd.

GENERATING SITE Same

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 200 barrels

GENERATING PROCESS water generated during the testing
of oilfield pumps

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 261.3.

AGENT Chon Rivas
SIGNATURE

NAME Chon Rivas
PRINTED

ADDRESS 2708 West County Road
Hobbs, NM 88240

DATE 6-30-99

Certificate of Analysis No. H9-9906504-01

BJ Services Co. U.S.A
8701 New Trials Drive
The Woodlands, TX 77381
ATTN: Rick Johnson

DATE: 06/25/99

PROJECT: Test Tank
SITE:
SAMPLED BY: BJ Services
SAMPLE ID: Test Tank

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/10/99 10:20:00
DATE RECEIVED: 06/11/99

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
Cyanide-Reactive Method 7.3.3.2/9014 *** Analyzed by: GJ Date: 06/16/99 09:00:00	ND	1	mg/kg	
Flash Point (PM) Method ASTM D-93 Analyzed by: TB Date: 06/16/99	>210		°F	
pH Method 150.1 * Analyzed by: AB Date: 06/11/99 10:00:00	7.72		pH units	
Sulfide-Reactive Method 7.3.4.2 *** Analyzed by: GJ Date: 06/16/99 09:00:00	ND	100	mg/kg	
Silver, TCLP Leachate Method 6010B *** Analyzed by: PB Date: 06/16/99 08:55:00	ND	0.02	mg/L	
Arsenic, TCLP Leachate Method 6010B *** Analyzed by: PB Date: 06/16/99 08:55:00	ND	0.2	mg/L	

ND - Not detected.

NOTES: *Ref: Methods for Chemical Analysis of Water and Wastes, 1982, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9906504-01

BJ Services Co. U.S.A
8701 New Trials Drive
The Woodlands, TX 77381
ATTN: Rick Johnson

DATE: 06/25/99

PROJECT: Test Tank
SITE:
SAMPLED BY: BJ Services
SAMPLE ID: Test Tank

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/10/99 10:20:00
DATE RECEIVED: 06/11/99

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
Barium, TCLP Leachate Method 6010B *** Analyzed by: PB Date: 06/16/99 08:55:00	ND	1	mg/L	
Cadmium, TCLP Leachate Method 6010B *** Analyzed by: PB Date: 06/16/99 08:55:00	ND	0.01	mg/L	
Chromium, TCLP Leachate Method 6010B *** Analyzed by: PB Date: 06/16/99 08:55:00	ND	0.02	mg/L	
Mercury, TCLP Leachate Method 7470 A*** Analyzed by: AG Date: 06/24/99 11:07:00	ND	0.0002	mg/L	
Acid Digestion of TCLP Leachate, ICP Method 3010A *** Analyzed by: MR Date: 06/15/99 13:30:00	06/15/99			
Lead, TCLP Leachate Method 6010B *** Analyzed by: PB Date: 06/16/99 08:55:00	ND	0.1	mg/L	

ND - Not detected.

Notes. *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9906504-01

BJ Services Co. U.S.A
8701 New Trials Drive
The Woodlands, TX 77381
ATTN: Rick Johnson

DATE: 06/25/99

PROJECT: Test Tank
SITE:
SAMPLED BY: BJ Services
SAMPLE ID: Test Tank

PROJECT NO:
MATRIX: WATER
DATE SAMPLED: 06/10/99 10:20:00
DATE RECEIVED: 06/11/99

ANALYTICAL DATA				
PARAMETER	RESULTS	DETECTION LIMIT	UNITS	
TCLP Leachate Filtering Method 1311 *** Analyzed by: KM Date: 06/15/99 10:00:00	06/15/99			
Selenium, TCLP Leachate Method 6010B *** Analyzed by: PB Date: 06/16/99 08:55:00	ND	0.2	mg/L	
TCLP Leachate Extraction Method 1311 *** Analyzed by: KM Date: 06/15/99 10:00:00	06/15/99			
Zero Headspace extraction Method 1311 Analyzed by: KM Date: 06/15/99 10:00:00	06/15/99			

ND - Not detected.

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9906504-01

BJ Services Co. U.S.A
 8701 New Trials Drive
 The Woodlands, TX 77381
 ATTN: Rick Johnson

06/25/99

PROJECT: Test Tank
 SITE:
 SAMPLED BY: BJ Services
 SAMPLE ID: Test Tank

PROJECT NO:
 MATRIX: LEACHATE
 DATE SAMPLED: 06/10/99 10:20:00
 DATE RECEIVED: 06/11/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS	RL ^
Benzene	ND	50	ug/L	500
2-Butanone	260	200	ug/L	200000
Carbon Tetrachloride	ND	50	ug/L	500
Chlorobenzene	ND	50	ug/L	100000
Chloroform	ND	50	ug/L	6000
1,2-Dichloroethane	ND	50	ug/L	500
1,1-Dichloroethene	ND	50	ug/L	700
Tetrachloroethene	ND	50	ug/L	700
Trichloroethene	ND	50	ug/L	500
Vinyl Chloride	ND	100	ug/L	200

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
4-Bromofluorobenzene	50 ug/L	98	86.00	115.0
1,2-Dichloroethane-d4	50 ug/L	104	80.00	120.0
Toluene-d8	50 ug/L	104	88.00	110.0

ANALYZED BY: GLT

DATE/TIME: 06/15/99 13:53:00

LEACHATE PREP(ZHE) BY: KM

DATE/TIME: 06/15/99 10:00:00

METHOD: 1311/8260B, TCLP Volatiles

NOTES: * - Practical Quantitation Limit

ND - Not Detected

NA - Not Analyzed

^ - Regulatory Limit. Reference Federal Register 55, 11862
 (3/29/90), RCRA Toxicity Characteristic Final Rule.

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance
 with EPA guidelines for quality assurance.

Certificate of Analysis No. H9-9906504-01

BJ Services Co. U.S.A
8701 New Trials Drive
The Woodlands, TX 77381
ATTN: Rick Johnson

06/25/99

PROJECT: Test Tank
SITE:
SAMPLED BY: BJ Services
SAMPLE ID: Test Tank

PROJECT NO:
MATRIX: LEACHATE
DATE SAMPLED: 06/10/99 10:20:00
DATE RECEIVED: 06/11/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL ^Δ	UNITS	RL ^Δ
ortho-Cresol	ND	50	ug/L	200000
meta, para-Cresols	ND	100	ug/L	200000
1,4-Dichlorobenzene	ND	50	ug/L	7500
2,4-Dinitrotoluene	ND	50	ug/L	130
Hexachlorobenzene	ND	50	ug/L	130
Hexachlorobutadiene	ND	50	ug/L	500
Hexachloroethane	ND	50	ug/L	3000
Nitrobenzene	ND	50	ug/L	2000
Pentachlorophenol	ND	250	ug/L	100000
Pyridine	ND	50	ug/L	5000
2,4,5-Trichlorophenol	ND	100	ug/L	400000
2,4,6-Trichlorophenol	ND	50	ug/L	2000

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
Nitrobenzene-d5	50 ug/L	92	35	114
2-Fluorobiphenyl	50 ug/L	80	43	116
Terphenyl-d14	50 ug/L	62	33	141
Phenol-d5	75 ug/L	91	10	110
2-Fluorophenol	75 ug/L	89	21	110
2,4,6-Tribromophenol	75 ug/L	103	10	123

ANALYZED BY: RY

DATE/TIME: 06/16/99 17:46:00

LEACHATE EXTRACTION BY: KL

DATE/TIME: 06/15/99 15:00:00

METHOD: 1311/8270C, TCLP Semivolatiles

NOTES: * Practical Quantitation Limit ND - Not Detected

NA Not Analyzed

Δ - Regulatory Limit. Reference Federal Register 55, 11862
(3/29/90), RCRA Toxicity Characteristic Final Rule.

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.

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-13
Originated 8/8/

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Shoreham Pipeline Co
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site N. Compressor Site
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Gandy
3. Address of Facility Operator P. O. Box 388, Hobbs	8. State NM
7. Location of Material (Street Address or ULSTR) 333 Clay Street, Suite 4010, Houston, TX 77002	
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:

Oil & Chemical Drums, used compressor filters.
I am enclosing analytical on the above items, as well as, the Certificate of waste and chain of custody. This was clean-up.

05-004

Estimated Volume 18 yds. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: Bookkeeper DATE: 5-26-99
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: Kath Harper TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer DATE: 6-1-99
APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 6-3-99

05/12/99 09:55

5053933815

CRI

002

**CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL
"AS REQUIRED BY NEW MEXICO OIL CONSERVATION DIVISION"**

COMPANY / GENERATOR Shoreham Pipeline Company
ADDRESS 333 Clay Street, Suite 4010, Houston, TX 77002
Shoreham Pipeline Company's North Compressor Site
GENERATING SITE located in S-7, T-8S, R-29E
*(Current location: Gandy Disposal Site, Chavez County, NM)
COUNTY Chavez STATE NM

TYPE OF WASTE Oil & chemical drums, used compressor filters
ESTIMATED VOLUME 18 yds.
GENERATING PROCESS Clean up

REMARKS _____

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Gandy

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 "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Sections 2613.

AGENT [Signature]
SIGNATURE
NAME Roy M. BREHM, JR.
PRINTED
ADDRESS P. O. Box 388
Hobbs, NM 88241

DATE MAY 25, 1999

05/12 '99 10:51

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

Project Manager:

Phone #: 713-654-7035

Roy Brehm

#XV3 713-659-3555

Company Name & Address:

Company Name & Address: Shoreham Pipeline Co
833 1/2 Clay St., Ste. 4400
North Conover St

॥ श्रीगणेशाय नमः ॥

Houston TX.	Project Name:	North Cypress	\$1
77002			\$6

संपर्क: डा. व. व.

 Sample Signature

FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX	PRESERVATIVE METHOD	SAMPLING	
					DATE	TIME
L43 # (LAB USE ONLY)			WATER			
			SOIL			
			AIR			
			SLUDGE			
			OTHER			
			HCL			
			HIH03			
			HOHE			
			OTHER			
			OTHER			

[illegible]

Cell captured by: <i>Howe & Krum</i>	Date: 3-5-99	Times: 1330	Received by: <i>Ralston J. J. J.</i>
Cell captured by:	Date:	Times:	Received by:
Cell captured by:	Date:	Times:	Received by Laboratory:

[illegible]

REMARKS

55 Len @ 684-3873



**ENVIRONMENTAL
LAB OF , INC.**

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

Receiving Date: 03/05/99
Sample Type: Soil
Project Name: North Compressor Station
Project Location: None Given

Analysis Date: see below
Sampling Date: 03/03/99
Sample Condition: Intact

ELT#	Field Code	REACTIVITY		CORROSIVITY	IGNITABILITY
		H2S	CN-	(s.u.)	
		NON-REACTIVE	NON-CORROSIVE		
		(ppm)	(ppm)		
17170	Composite Soil	<10.0	<2.5	Non Corrosive 9.66	>140 deg. F
	RPD	0	0	0	0
	% PRECISION				
	% INSTRUMENT ACCURACY			100	
	ANALYSIS DATE	3/12/99	3/12/99	3/08/99	3/18/99

METHODS: EPA SW-846-2.1.3.2.1.2.2.1.1

Raland K Tuttle
Raland K. Tuttle

3-22-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

Receiving Date: 03/05/99
Sample Type: Soil
Project Name: North Compressor Station
Project Location: None Given
Field Code: Composite Soil

Analysis Date: 03/10/99
Sampling Date: 03/03/99
Sample Condition: Intact

TCLP SEMIVOLATILE ORGANICS (mg/L)	REPORTING LIMIT	ELT# 17170	RPD	%EA	%IA
Pyridine	0.05	ND	1	43	95
1,4-Dichlorobenzene	0.05	ND	4	42	90
o-Cresol	0.05	ND	2	62	109
Nitrobenzene	0.05	ND	1	60	92
m,p-Cresol	0.05	ND	2	54	105
Hexachloroethane	0.05	ND	3	39	96
Hexachlorobutadiene	0.05	ND	3	41	95
2,4,6-Trichlorophenol	0.05	ND	3	75	98
2,4,5-Trichlorophenol	0.05	ND	3	78	100
2,4-Dinitrotoluene	0.05	ND	3	76	110
Hexachlorobenzene	0.05	ND	3	64	94
Pentachlorophenol	0.05	ND	4	72	108
2,4-D	0.05	ND	2	18	105
2,4,6-TP	0.05	ND	9	48	112

ND= NOT DETECTED, < REPORTING LIMIT
SYSTEM MONITORING COMPOUNDS

	% Recovery
2-Fluorophenol	37
Phenol-d6	25
Nitrobenzene-d5	66
2-Fluorobiphenyl	60
2,4,6-Tribromophenol	77
Terphenyl-d14	68

Method: SW 846-8270C, 1311

Raland K. Tuttle
Raland K. Tuttle

3-22-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

RECEIVING DATE: 03/05/99
SAMPLE TYPE: Soil
PROJECT: North Compressor Station
FIELD CODE: Composite Soil
PROJECT LOCATION: None Given

ANALYSIS DATE: 03/12/99
SAMPLING DATE: 03/03/99
SAMPLE CONDITION: Intact

TCLP VOLATILES (mg/L)	SAMPLE 17170	PQL	BLANK	%EA	%DEV
1,1-Dichloroethene	ND	0.001	ND	99	-2.0
2-Butanone	ND	0.010	ND		-10.4
Chloroform	ND	0.001	ND		1.9
Benzene	ND	0.001	ND	95	1.6
1,2-Dichloroethane	ND	0.001	ND		-3.8
Vinyl Chloride	ND	0.001	ND		4.6
Carbon Tetrachloride	ND	0.001	ND		7.7
Trichloroethene	ND	0.001	ND	95	0.8
Tetrachloroethene	ND	0.001	ND		-1.2
Chlorobenzene	ND	0.001	ND	89	3.8
1,4-Dichlorobenzene	ND	0.001	ND		7.7

SYSTEM MONITORING COMPOUNDS	% RECOVERY
dibromofluoromethane	95
toluene-d8	96
4-bromofluorobenzene	97

ND = < PQL

PQL = PRACTICAL QUANTITATION LIMIT

Methods: EPA SW 846-8240, 1311


Raland K. Tuttle

3-22-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

SHOREHAM PIPELINE CO.
ATTN: MR. ROY BREHM
333 N. CLAY STREET
HOUSTON, TEXAS 77002

Receiving Date: 03/05/99
Sample Type: Soil
Project: North Compressor Station
Project Location: None Given

Analysis Date: see below
Sampling Date: 03/03/99
Sample Condition: Intact

TCLP METALS (mg/L)

ELT#	Field Code	Ag	As	Ba	Cd	Cr	Hg	Pb	Se
	EPA LIMIT	5.00	5.00	100.0	1.00	5.00	0.20	5.00	1.00
17170	Composite Soil	0.01	<0.10	<0.50	0.014	<0.03	<0.010	0.14	<0.100
	REPORTING LIMIT	0.01	0.10	0.50	0.005	0.03	0.010	0.10	0.100
	% IA	100	103	108	102	104	98	105	97
	% EA	105	102	98	95	85	100	93	89

METHODS: EPA SW 846-1311, 7760, 7080, 7130, 7190, 7420, SW 846 Revision 3, 6010B, 7470A

Raland K. Tuttle
Raland K. Tuttle

5-22-99
Date

