NM1 - 6

C-138

YEAR(S):

2000

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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JAN 1 1 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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to appropri
District Off

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 NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 E. MAIN STREET 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:

✓ FCC CAT FINES. 30 SUPERSACKS
FINE PARTICLES FROM CATALYST COLLECTED IN THE CYCLONES AT THE FCC UNIT DURING THE REGENERATION PROCESS.

01-2001

ASPHALT SAMPLE CANS. 10 DRUMS
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.

01-2002

ENCLOSED YOU WILL FIND A CERTIFICATE OF WASTE STATUS FOR EACH WASTE STREAM SINCE THEY ARE GENERATED ON A REGULAR BASIS AND HAVE BEEN APPROVED IN THE PAST.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 01-05-00
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: Martyne J. Kieling 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: **Navajo Refining Company**

ADDRESS: **501 East Main**

GENERATING SITE: **Navajo Refining Company**

COUNTY: **Eddy**

STATE: **NM**

TYPE OF WASTE: **FCC Catalyst Fines**

ESTIMATED VOLUME: **30 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 Incorportated**

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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA,NM 88210

DATE: 1/3/00

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
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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 NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 E. MAIN STREET 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:

FCC CAT FINES. 30 SUPERSACKS
FINE PARTICLES FROM CATALYST COLLECTED IN THE CYCLONES AT THE FCC UNIT DURING THE REGENERATION PROCESS.

01-2001

✓ ASPHALT SAMPLE CANS. 10 DRUMS
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.

01-2002

ENCLOSED YOU WILL FIND A CERTIFICATE OF WASTE STATUS FOR EACH WASTE STREAM SINCE THEY ARE GENERATED ON A REGULAR BASIS AND HAVE BEEN APPROVED IN THE PAST.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 01-05-00
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: Environm. Eng. Specialist DATE: 01-06-2000

APPROVED BY: Martyne J Kieling 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: **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 Incorportated**

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: 1/3/00

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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to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator NAVAJO PIPELINE
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site MONUMENT STATION
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) MONUMENT STATION P. O. BOX 159, 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:

01-2003

MATERIAL WAS GENERATED BY A PIPELINE SPILL. VERBAL APPROVAL GIVEN BY WAYNE PRICE WITH NMOCD. I AM ENCLOSING A KNOWLEDGE OF PROCESS LETTER AND CERTIFICATE OF WASTE.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 1-13-00
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: 01-14-00

APPROVED BY: [signature] TITLE: Environmental Geologist DATE: 01-24-00

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

COMPANY / GENERATOR Navajo Refining

ADDRESS 501 E. Main Artesia NM

GENERATING SITE Monument Station

COUNTY Lea STATE NM

TYPE OF WASTE Crude Contaminated Soil

ESTIMATED VOLUME 40 yds.

GENERATING PROCESS Pipeline Spill

REMARKS

NMOCD FACILITY CRI

TRUCKING COMPANY

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 Darrell Moore
SIGNATURE

NAME Darrell Moore
PRINTED

ADDRESS 501 E. Main
Artesia NM 88210

DATE 1/13/2000

01-2003

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

GAR- file legal
cc: WJG
Phil Youngblood
D. Griffin
CLC - Dallas

May 9, 1996

CERTIFIED MAIL
RETURN RECEIPT NO. P-269-269-145

Mr. Jim G. Townsend
Manager of Transportation
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211-0159

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed Navajo Refining Company's (Navajo) February 26, 1996 correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Navajo 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 until December 31, 2000.

2. Navajo will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.

3. Navajo 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.

Please be advised that OCD approval does not relieve Navajo 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 Navajo of responsibility for compliance with any other federal, state or local laws and/or regulations. If you have questions please contact me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

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

Exhibit A

Map of Navajo Refining Gathering System

(One Page)

Exhibit B

TCLP Results
Bad Luck Leak Site

(Three Pages)

TELEPHONE
(505) 748-3311

EASYLINK
62905278

Navajo 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

January 30, 1996

Mr. Roger Anderson
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Dear Mr. Anderson:

Since November 1994, Navajo Refining Company (Pipeline Division), has performed five (5) Toxic Characteristic Leaching Procedures (TCLP) on soils contaminated by crude oil spilled from our pipeline gathering system East of Artesia, New Mexico, (see Exhibit A). This system contains approximately 700 miles of pipeline. These tests cover nine (9) different leak sites throughout our gathering system, and are representative of the crude oil carried by this system.

The purpose of this letter is to request that Navajo Refining Company (Pipeline Division) be allowed to rely upon these tests to satisfy the TCLP Requirements for leaks occurring in this gathering system during the calendar year 1996. I have enclosed copies of the five (5) TCLP results for your inspection. A summary of these tests are as follows:

LOCATION	NO.	DATE	REMARKS
Bad Luck	2	10/27/94	Composite Sample Not Hazardous
Barber	3	10/28/94	Composite Sample Not Hazardous
Beeson Station	1	12/20/94	Composite Sample Not Hazardous
East Cedar Lake	7	10/25/95	Composite Sample Not Hazardous
Composite of: Yates, Burton Flats, Phillips, Marbob & East/West Cedar Lake		10/25/95	Composite Sample Not Hazardous

Navajo Refining feels that using these representative test will serve the intent of the regulations as well as being cost effective. Should any condition present itself during the coming year that would drastically change the composition of our crude oil, we will notify the OCD immediately and take the appropriate action at that time.

If you should require any additional information, or if I can be of any assistance please call me.

Sincerely,

Jim G. Townsend
Manager of Transportation

JGT/pb

K.W. Brown Environmental Services
A Division of AMEC Environmental Services, Inc.
501 Graham Road, College Station, TX 77845
Telephone: (409) 690-9280, Fax (409) 690-7310

November 9, 1994

Mr. Jim Townsend
Navajo Refining Company
501 East Main Street
P.O. Drawer 159
Artesia, New Mexico 88210

RE: Navajo (Bad Luck) - Artesia New Mexico

Dear Mr. Townsend:

This letter is intended to provide an update regarding the extent of contamination at the referenced property. On October 27, 1994, K. W. Brown Environmental Services performed an assessment of the excavation at Navajo's Bad Luck site. The assessment consisted of visual inspection of the open excavation and stockpile soils and composite sampling of these soils in accordance with the procedures discussed with the Artesia office of the New Mexico Oil Conservation Division (OCD). The sampling techniques and constituent analysis also incorporated the procedures outlined in OCD's "Guidelines For Remediation of Leaks, Spills, and Releases, August 13, 1993."

The sampling locations for the stockpile samples (BAD 1 and 2) and excavation samples (BAD 3 through 7) are presented in Table 1 and are illustrated in the attached Figure 1.

Table 1. Analytical Results of Composite Soil Samples taken at Bad Luck site.

Sample ID	Lab ID	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethylbenzene (ug/Kg)	p,m-Xylenes (ug/Kg)	o-Xylenes (ug/Kg)	TRPH (mg/Kg)	TRPH DET LIMIT (mg/Kg)
BAD - 1	0694G01990	ND	62.7	46.5	108.0	49.3	17500	250
BAD - 2	0694G01991	4.79	96.1	70.9	181.0	82.2	10900	625
BAD - 3	0694G01992	15.9	125.0	82.9	127.0	54.4	10900	250
BAD - 4	0694G01993	42.9	290.0	133.0	269.0	113.0	20800	250
BAD - 5	0694G01994	ND	5.72	3.5	10.2	6.22	1730	25
BAD - 6	0694G01995	ND	ND	ND	ND	ND	40	10
BAD - 7	0694G01996	ND	ND	ND	ND	ND	16	10

BAD-7 is a duplicate of BAD-6.

The pipeline leak resulted in the release of crude oil to the surrounding soils. These impacted soils were subsequently evaluated for RCRA toxicity characterization leaching procedure (TCLP) analysis for volatiles, semivolatiles, and metals, and reactivity, corrosivity and ignitability to determine if the impacted soils were characteristically hazardous. The sample designated as BAD -1 was selected for hazardous waste evaluation due to the relatively

consistent total recoverable petroleum hydrocarbon (TRPH) documented for the stockpile soils.

Table 2. TCLP results for BAD -1 composite sample.

Analyte	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
TCLP Volatiles			
Benzene	0.041	0.025	0.5
Carbon Tetrachloride	ND	0.025	0.5
Chlorobezene	ND	0.025	100
Chloroform	ND	0.025	6.0
1,2 - Dichloroethane	ND	0.025	0.5
1,1 - Dichloroethylene	ND	0.025	0.7
Methyl ethyl ketone	ND	0.050	200
Tetrachloroethylene	ND	0.050	0.7
Trichloroethylene	ND	0.050	0.5
Vinyl Chloride	ND	0.050	0.2
TCLP Semivolatiles			
o-Cresol	ND	0.01	200
m,p-Cresol	ND	0.01	200
1,4-Dichlorobenzene	ND	0.01	7.5
2,4-Dinitrotoluene	ND	0.01	0.13
Hexachlorobenzene	ND	0.01	0.13
Hexachloro-1,3-butadiene	ND	0.01	0.5
Hexachloroethane	ND	0.01	3.0
Nitrobenzene	ND	0.01	2.0
Pentachlorophenol	ND	0.03	100
Pyridine	ND	0.01	5.0
2,4,5-Trichlorophenol	ND	0.01	400
2,4,6-Trichlorophenol	ND	0.01	2.0
TCLP Trace Metals			
Arsenic	ND	0.2	5.0
Barium	ND	0.5	100
Cadmium	ND	0.05	1.0
Chromium	ND	0.05	5.0
Lead	ND	0.2	5.0
Mercury	ND	0.002	0.2
Selenium	ND	0.2	1.0
Silver	ND	0.1	5.0
Reactivity			
Reactivity - Cyanide	ND	250	250
Reactivity - Sulfide	ND	250	500
pH (s.u.)		7.6	2.0<pH<12.5
Flash Point (°F)		>140	must exceed 140

Mr. Jim Tow...
Navajo Refining Company
November 9, 1994

The results of these analysis indicate that the impacted soils are **not** characteristically hazardous and may be remediated in accordance with the referenced OCD guidelines. A formal assessment report will be submitted to Navajo Refining by November 23, 1994. The report will further document sampling procedures/analytical methodology, discuss action levels, potential receptors and recommended remedial technology.

If you have any questions concerning this matter, please contact me at (409) 690-9280 in our College Station office.

Respectfully,

W. R. Cullen

W. R. Cullen, P.E.
Engineering Group Manager

WRC/sch
Enclosure
File:
via Fax and US Mail

Exhibit C

TCLP Results
Barber Leak Site

(Three Pages)

K.W. Brown Environmental Services
A Division of K.W. Brown Environmental Services, Inc.
501 Graham Road, College Station, TX 77845
Telephone: (409) 690-9280, Fax: (409) 690-7310

November 15, 1994

Mr. Jim Townsend
Navajo Refining Company
501 East Main Street
P.O. Drawer 159
Artesia, New Mexico 88210

RE: Navajo (Barber) - Artesia New Mexico

Dear Mr. Townsend:

The following letter is forwarded to Navajo Refining Company to provide preliminary information regarding the Navajo Barber site. On October 27 and 28, 1994, K. W. Brown Environmental Services performed an assessment of the excavation at Navajo's Barber site. The assessment consisted of visual inspection of the open excavation and stockpile soils and composite sampling of these soils in accordance with the procedures discussed with the Artesia office of the New Mexico Oil Conservation Division (OCD) on October 26, 1994.

The sampling locations for the stockpile samples and excavation samples are presented in Table 1 and are illustrated in the attached Figure 1.

Table 1. Analytical results of composite soil samples taken at the Barber site.

Sample ID	Lab ID	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethylbenzene (ug/Kg)	p,m-Xylenes (ug/Kg)	o-Xylenes (ug/Kg)	TRPH (mg/Kg)	TRPH DET LMT (mg/Kg)
BAR - 1	0694G01997	< 25	< 25	< 25	< 25	< 25	71	10
BAR - 2	0694G01998	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	15	10
BAR - 3	0694G01999	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	10
BAR - 4	0694G02000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	ND	10
BAR - 5	0694G02001	< 49	< 49	< 49	95	92	627	25
BAR - 6	0694G02002	< 5	< 5	14	87	105	654	25
BAR - 7	0694G02003	< 1.0	1.8	4.2	34.2	17.1	820	25
BAR - 8	0694G02004	< 19500	20000	< 19500	42600	< 19500	8510	250
BAR - 9	0694G02005	12700	131000	29100	125000	59800	20600	250
BAR - 10	0694G02006	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	196	10
BAR - 11	0694G02007	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	185	10
BAR - 12	0694G02008	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	230	10
BAR - 13	0694G02009	8420	81800	29100	101000	48800	15100	250
BAR - 14	0694G02010	52200	153000	52200	168000	70400	32000	500
BAR - 15	0694G02011	< 48	< 48	< 484	1020	1030	1980	25
BAR - 16	0694G02012	< 1.0	1.6	< 1.0	2.8	< 1.0	212	25
BAR - 17	0694G02013	< 50	.111	<661	.777	850	1450	25
BAR - 18	0694G02014	16300	141000	59000	180000	91000	20400	250
BAR - 19	0694G02015	< 18600	55400	< 18600	86200	36200	13500	250
BAR - 20	0694G02016	18400	183000	39200	204000	100000	22700	250
BAR - 21	0694G02017	< 18800	20400	< 18800	38600	19700	8480	250
BAR - 22	0694G02018	< 19000	152000	36100	168000	88400	20800	250

A significant disparity in indicator parameter TRPH levels was noted for the stockpile soils. As a result, the composite samples from the stockpile soils were subsampled and again composited for analysis. The subsamples were taken from sample designations BAR-8, 9, 13, 14, 18, 19, 20, 21, and 22. This sample was evaluated for RCRA toxicity characteristic leaching procedure (TCLP) analysis for volatiles, semivolatiles, and metals, and reactivity, corrosivity and ignitability to determine if the impacted soils were characteristically hazardous. The results of the analysis are presented in Table 2.

Table 2. TCLP results for the composite sample of BAR- 8, 9, 13, 14, 18, 19, 20, 21, and 22.

Analyte	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
TCLP Volatiles			
Benzene	ND	0.005	0.5
Carbon Tetrachloride	ND	0.005	0.5
Chlorobenzene	ND	0.005	100
Chloroform	ND	0.005	6.0
1,2 - Dichloroethane	ND	0.005	0.5
1,1 - Dichloroethylene	ND	0.005	0.7
Methyl ethyl ketone	ND	0.010	200
Tetrachloroethylene	ND	0.005	0.7
Trichloroethylene	ND	0.005	0.5
Vinyl Chloride	ND	0.005	0.2
TCLP Semivolatiles			
o-Cresol	ND	0.01	200
m,p-Cresol	ND	0.01	200
1,4-Dichlorobenzene	ND	0.01	7.5
2,4-Dinitrotoluene	ND	0.01	0.13
Hexachlorobenzene	ND	0.01	0.13
Hexachloro-1,3-butadiene	ND	0.01	0.5
Hexachloroethane	ND	0.01	3.0
Nitrobenzene	ND	0.01	2.0
Pentachlorophenol	ND	0.025	100
Pyridine	ND	0.01	5.0
2,4,5-Trichlorophenol	ND	0.01	400
2,4,6-Trichlorophenol	ND	0.01	2.0
TCLP Trace Metals			
Arsenic	ND	0.2	5.0
Barium	ND	0.5	100
Cadmium	ND	0.05	1.0
Chromium	ND	0.05	5.0
Lead	ND	0.2	5.0
Mercury	ND	0.002	0.2
Selenium	ND	0.2	1.0
Silver	ND	0.1	5.0

Table 2. (cont.) TCLP results for the composite sample of BAR- 8, 9, 13, 14, 18, 19, 20, 21, and 22.

Reactivity			
Reactivity - Cyanide	ND	250	250
Reactivity - Sulfide	ND	250	500
pH (s.u.)	7.6		2.0<pH<12.5
Flash Point (°F)	>140°		<140° is hazardous

The results of these analyses indicate that the impacted soils are not characteristically hazardous and may be remediated in accordance with OCD guidelines. A formal assessment report will be submitted to Navajo Refining by November 23, 1994. The report will further document sampling procedures and analytical methodology, discuss action levels, potential receptors, and recommended remedial technology.

If you have any questions concerning this matter, please contact me at (409) 690-9280 in our College Station office.

Respectfully,

Ronald Sen for

W. R. Cullen, P.E.
Engineering Group Manager

WRC/sch
Enclosure
via Fax and US Mail

Exhibit D

TCLP Results
Beeson Station Leak Site

(Three Pages)

K.W. Brown Environmental Services
A Division of AMEC Environmental Services, Inc.
501 Graham Road, College Station, TX 77845
Telephone: (409) 690-9380, Fax (409) 690-7310

December 30, 1994

Mr. Jim Townsend
Navajo Refining Company
501 East Main Street
P.O. Drawer 159
Artesia, New Mexico 88210

RE: Navajo (Beeson Station) - Loco Hills - New Mexico

Dear Mr. Townsend:

On December 19 and 20, 1994, K. W. Brown Environmental Services (KWBES) performed an assessment of the excavation and stockpile soils at Navajo's Beeson Station. The assessment consisted of visual inspection of the open excavation and advancement of several exploratory borings in the immediate vicinity of the spill. In addition, composite samples were collected from the stockpile soils in accordance with the procedures discussed with personnel from the Artesia office of the New Mexico Oil Conservation Division (OCD). The sampling techniques and constituent analysis also incorporated the procedures outlined in OCD's "Guidelines For Remediation Of Leaks, Spills, and Releases", August 13, 1993. This letter is intended to provide an update regarding the classification of the impacted soils at the referenced property.

The spill resulted in the release of crude oil to the near surface soils. The majority of these soils (estimated to be approximately 1,000 cubic yards) were excavated and placed on polyethylene sheeting within the bermed area near the spill. These impacted soils were subsequently evaluated for RCRA toxicity characterization leaching procedure (TCLP) analysis for volatiles, metals, and reactivity, corrosivity and ignitability (RCI) to determine if the impacted soils were characteristically hazardous. Two composite samples designated as BEE 9 and 10 were obtained from the stockpile and submitted to the laboratory for classification purposes. These two samples were subsequently composited in the laboratory to obtain a representative sample for analysis. The results of the analysis are presented in Table 1.

The results of these analysis indicate that the impacted soils are not characteristically hazardous and may be remediated in accordance with the referenced OCD guidelines. A formal assessment report will be submitted to Navajo Refining by January 13, 1995. The report will further document sampling procedures/analytical methodology, delineate the extent of contamination that may be attributed to the spill, discuss action levels, potential receptors, and recommended remedial technology.

Mr. Jim Towns
Navajo Refining Company
December 30, 1994

Table 1. Analytical results for composite sample of BEE 9 and 10.

Analyte	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
Benzene	ND	0.005	0.5
Carbon tetrachloride	ND	0.005	0.5
Chlorobezene	ND	0.005	100
Chloroform	ND	0.005	6.0
1,2 - Dichloroethane	ND	0.005	0.5
1,1 - Dichloroethylene	ND	0.005	0.7
Methyl ethyl ketone	ND	0.010	200
Tetrachloroethylene	ND	0.005	0.7
Trichloroethylene	ND	0.005	0.5
Vinyl chloride	ND	0.005	0.2
Arsenic	ND	0.2	5.0
Barium	1.7	0.5	100
Cadmium	ND	0.05	1.0
Chromium	ND	0.05	5.0
Lead	ND	0.2	5.0
Mercury	ND	0.002	0.2
Selenium	ND	0.2	1.0
Silver	ND	0.1	5.0
Reactivity - Cyanide	ND	50	250
Reactivity - Sulfide	ND	50	500
pH (s.u.)	7.6		2.0<pH<12.5
Flash Point (F)	>140		must exceed 140

If you have any questions concerning this matter, please contact me at our College Station office. (409) 690-9280.

Respectfully,

W. R. Cullen

W. R. Cullen, Jr., P.E.
Engineering Group Manager

WRC:dr
File: 622094004-110
via US Mail

Mr. Jim Townsend
Navajo Refining Company
December 30, 1994

Table 1. Analytical results for composite sample of BEE 9 and 10.

Analyte	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
Benzene	ND	0.005	0.5
Carbon tetrachloride	ND	0.005	0.5
Chlorobenzene	ND	0.005	100
Chloroform	ND	0.005	6.0
1,2 - Dichloroethane	ND	0.005	0.5
1,1 - Dichloroethylene	ND	0.005	0.7
Methyl ethyl ketone	ND	0.010	200
Tetrachloroethylene	ND	0.005	0.7
Trichloroethylene	ND	0.005	0.5
Vinyl chloride	ND	0.005	0.2
Arsenic	ND	0.2	5.0
Barium	1.7	0.5	100
Cadmium	ND	0.05	1.0
Chromium	ND	0.05	5.0
Lead	ND	0.2	5.0
Mercury	ND	0.002	0.2
Selenium	ND	0.2	1.0
Silver	ND	0.1	5.0
Reactivity - Cyanide	ND	50	250
Reactivity - Sulfide	ND	50	500
pH (s.u.)	7.6		2.0<pH<12.5
Flash Point (F)	>140		must exceed 140

If you have any questions concerning this matter, please contact me at our College Station office, (409) 690-9280.

Respectfully,

W. R. Cullen

W. R. Cullen, Jr., P.E.
Engineering Group Manager

WRC:dr
File: 822034004-110
via US Mail

Exhibit E

TCLP Results
East Cedar Lake Leak Site
and
Composite Sample of Yates, Burton Flats, Phillips, East and West Cedar Lake, and Marbob BKU Leak Sites

(Three Pages)

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

TPH/BTEX ANALYSIS REPORT

Company: SES, Inc.
Address: P.O. Box 1613
City, State: Hobbs, NM 88241

Date: 11/13/95
Lab #: H2255

Project Name: Navajo Pipeline
Location: Eddy County, NM
Sampled by: DB Date: 10/25/95 Time: various
Analyzed by: MI Date: 10/26-30/95 Time: various
Sample Type: Soil Sample Condition: Intact Units: ppm

Samp #	Field Code	TRPHC	BENZENE	TOLUENE	ETHYL BENZENE	PARA-XYLENE	META-XYLENE	ORTHO-XYLENE
1	Composite - 6	39,077	1.386	4.492	4.165	0.826	1.959	1.236
2	Cedar Lake E. 529	69,071	2.526	8.420	5.215	1.400	2.799	1.916
	QC Recovery	385	0.808	0.805	0.919	0.871	0.906	0.874
	QC Spike	375	0.872	0.852	0.856	0.844	0.854	0.844
	Accuracy	102.6%	93 %	94 %	107 %	103 %	106 %	104 %
	Air Blank	***	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

Methods - GAS CHROMOTOGRAPHY; INFRARED SPECTROSCOPY
- EPA SW-846; 8020, 418.1, 3510, 3540 or 3550

Mitch Irvin

Mitch Irvin

11/13/95
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

TCLP ANALYSIS REPORT

Date: 11/20/95
Lab #: H2255-1

Company: SES, Inc.
Address: P.O. Box 1613
City, State: Hobbs, NM 88241

Project Name: Navajo Pipeline
Location: Eddy County, NM
Sampled by: DB
Sample Type: Soil

Date: 10/25/95
Sample Condition: Intact
Units: ppm

Sample ID: Composite - 6 Sites

TCLP ORGANICS

PARAMETER	RESULT	EPA LIMIT
Pyridine	<0.002	5.00
o-Cresol	<0.002	200
m,p-Cresol	<0.004	200
Hexachloroethane	<0.002	3.00
Nitrobenzene	<0.002	2.00
Hexachloro-1,3-butadiene	<0.002	0.500
2,4,6-Trichlorophenol	<0.002	2.00
2,4,5-Trichlorophenol	<0.002	400
2,4-Dinitrotoluene	<0.002	0.130
Hexachlorobenzene	<0.002	0.130
Pentachlorophenol	<0.002	100
Vinyl chloride	<0.002	0.20
1,1-Dichloroethylene	<0.002	0.70
Methyl ethyl ketone	<0.002	200
Chloroform	0.016	6.00
1,2-Dichloroethane	<0.002	0.50
Benzene	0.015	0.50
Carbon tetrachloride	<0.002	0.50
Trichloroethylene	<0.002	0.50
Tetrachloroethylene	<0.002	0.70
Chlorobenzene	<0.002	100
1,4-Dichlorobenzene	<0.002	7.50

TCLP INORGANICS (Leachate)

PARAMETER	RESULT	EPA LIMIT
Silver	<0.1	5.0
Arsenic	<0.1	5.0
Barium	0.9	100.0
Cadmium	<0.1	1.0
Chromium	<0.1	5.0
Mercury	<0.002	0.2
Lead	<0.1	5.0
Selenium	<0.1	1.0

METHODS: TCLP ORGANICS - EPA 8260/8270
METHODS: TCLP INORGANICS (Leachate) - EPA 1311/7000

Mitch Irvin

Mitch Irvin

11/20/95
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

TCLP ANALYSIS REPORT

Company: SES, Inc.
Address: P.O. Box 1613
City, State: Hobbs, NM 88241

Date: 11/20/95
Lab #: H2255-2

Project Name: Navajo Pipeline
Location: Eddy County, NM
Sampled by: DB
Sample Type: Soil

Date: 10/25/95
Sample Condition: Intact
Units: ppm

Sample ID: Cedar Lake - East - 529

TCLP ORGANICS

PARAMETER	RESULT	EPA LIMIT
Pyridine	<0.002	5.00
o-Cresol	<0.002	200
m,p-Cresol	<0.004	200
Hexachloroethane	<0.002	3.00
Nitrobenzene	<0.002	2.00
Hexachloro-1,3-butadiene	<0.002	0.500
2,4,6-Trichlorophenol	<0.002	2.00
2,4,5-Trichlorophenol	<0.002	400
2,4-Dinitrotoluene	<0.002	0.130
Hexachlorobenzene	<0.002	0.130
Pentachlorophenol	<0.002	100
Vinyl chloride	<0.002	0.20
1,1-Dichloroethylene	<0.002	0.70
Methyl ethyl ketone	<0.002	200
Chloroform	0.011	6.00
1,2-Dichloroethane	<0.002	0.50
Benzene	0.115	0.50
Carbon tetrachloride	<0.002	0.50
Trichloroethylene	<0.002	0.50
Tetrachloroethylene	<0.002	0.70
Chlorobenzene	<0.002	100
1,4-Dichlorobenzene	<0.002	7.50

TCLP INORGANICS (Leachate)

PARAMETER	RESULT	EPA LIMIT
Silver	<0.1	5.0
Arsenic	<0.1	5.0
Barium	0.8	100.0
Cadmium	<0.1	1.0
Chromium	<0.1	5.0
Mercury	<0.002	0.2
Lead	<0.1	5.0
Selenium	<0.1	1.0

METHODS: TCLP ORGANICS - EPA 8260/8270
METHODS: TCLP INORGANICS (Leachate) - EPA 1311/7000

Mitch Irvin

11/20/95
Date

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
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
FEB 24 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

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 NEW MEXICO
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:

02-009 CHARCOAL FILTERS. PELLETS USED TO ABSORB ANY HYDROCARBONS DURING AMINE REGENERATION. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS.

02-010 FILTERS. FILTERS ARE USED TO SEPARATE SOLIDS AND OTHER IMPURITIES FROM AMINE IN OUR AMINE UNIT AND SOUR WATER IN OUR TAIL GAS UNIT. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS.

02-011 INJECTION WELL FILTERS. FILTERS ARE USED TO SEPARATE SOLIDS AND OTHER IMPURITIES BEFORE WASTEWATER IS SENT TO THE INJECTION WELLS. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-22-00
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: 02-23-00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 02-024-00

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-773 carbon filter pellets**

ESTIMATED VOLUME: **10 yards**

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

REMARKS: **TCLP analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

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: 2/18/00

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

January 6, 2000
Receiving Date: 12/29/99
Sample Type: Solid
Project #: N/A
Project Location:

Extraction Date: 01/02/00
Analysis Date: 01/03/00
Sampling Date: 12/28/99
Sample Condition: I & C
Sample Received by: MF
Project Name: N/A

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T138050 Charcoal Filter D-773	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	105	3	96	105
1,1-Dichloroethene	0.70	0.05	ND	98	4	130	98
Methyl Ethyl Ketone	200.0	0.5	ND	111	5	123	111
Chloroform	6.00	0.05	ND	104	2	120	104
1,2-Dichloroethane	0.50	0.05	ND	103	1	122	103
Benzene	0.50	0.05	0.16	98	1	112	98
Carbon Tetrachloride	0.50	0.05	ND	107	1	124	107
Trichloroethene	0.50	0.05	ND	100	0	103	100
Tetrachloroethene	0.70	0.05	ND	107	6	129	107
Chlorobenzene	100.00	0.05	ND	97	1	102	97
1,4-Dichlorobenzene	7.50	0.05	ND	97	1	104	97

SURROGATES	% Recovery
Dibromofluoromethane	119
Toluene-d8	94
4-Bromofluorobenzene	82

ND = Not Detected

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

Director, Dr. Blair Leftwich

1-6-00
Date

TRACEANALYSIS, 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

January 6, 2000
Receiving Date: 12/29/99
Sample Type: Solid
Project #: N/A
Project Location:

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

Extraction Date: 12/30/99
Analysis Date: 12/30/99
Sampling Date: 12/28/99
Sample Condition: I & C
Sample Received by: MF
Project Name: N/A

TCLP Semi-Volatiles (mg/L)	EPA LIMIT	Reporting Limit	T138050 Charcoal Filter	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	53	38*	28	89
1,4-Dichlorobenzene	7.5	0.05	ND	60	15	54	99
o-Cresol	200.0	0.05	ND	60	18	53	100
m,p-Cresol	200.0	0.05	ND	63	18	96	104
Hexachloroethane	3.0	0.05	ND	58	15	53	96
Nitrobenzene	2.0	0.05	ND	58	11	65	96
Hexachlorobutadiene	0.5	0.05	ND	61	10	61	102
2,4,6-Trichlorophenol	2.0	0.05	ND	64	3	68	107
2,4,5-Trichlorophenol	400.0	0.05	ND	66	6	71	110
2,4-Dinitrotoluene	0.13	0.05	ND	63	2	76	106
2,4-Dichlorophenoxyacetic acid	10.0	0.05	ND	65	0	50	109
Hexachlorobenzene	0.13	0.05	ND	61	2	72	102
2,4,5-TP	1.0	0.05	ND	60	6	46	100
Pentachlorophenol	100.0	0.05	ND	61	70*	62	101

RPD's out of range. No analytes appeared in sample.

SURROGATES	% Recovery
2-Fluorophenol	57
Phenol-d6	46
Nitrobenzene-d5	73
2-Fluorobiphenyl	76
2,4,6-Tribromophenol	55
Terphenyl-d14	119

ND = Not Detected
METHODS: EPA SW-846-1311, 8270
CHEMIST: MA

1-6-00

Director, Dr. Blair Leftwich

Date

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

January 6, 2000
Receiving Date: 12/29/99
Sample Type: Solid
Project #: N/A
Project Location:

Sampling Date: 12/28/99
Sample Condition: I & C
Sample Received by: MF
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 =	5.0	100	1.0	5.0	5.0	1.0	5.0	0.20
T138050	Charcoal Filter	<0.10	0.16	<0.02	0.05	<0.10	0.14	<0.05	<0.010
ICV		1.02	21.6	0.52	1.03	0.51	0.51	1.01	0.00557
CCV		1.02	21.6	0.52	1.03	0.52	0.52	1.01	0.00597
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		2	0	2	2	1	2	0	4
% Extraction Accuracy		101	110	103	104	109	103	90	81
% Instrument Accuracy		102	108	104	103	102	102	101	115
EXTRACTION DATE:		01/03/00	01/03/00	01/03/00	01/03/00	01/03/00	01/03/00	01/03/00	12/29/99
ANALYSIS DATE:		01/05/00	01/05/00	01/05/00	01/05/00	01/05/00	01/05/00	01/05/00	12/30/99

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: 4.0 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, Se, Pb; Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

1-6-00
Date

TRACEANALYSIS, 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

January 6, 2000
Receiving Date: 12/29/99
Sample Type: Solid
Project #: N/A
Project Location:

Analysis Date: 01/04/00
Sampling Date: 12/28/99
Sample Condition: I & C
Sample Received by: MF
Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T138050	Charcoal Filter	Non-reactive	<10	<2.5	Non-corrosive	9.09	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

1-6-00
Date

138050

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 # 99122903

Company Name: NAVAJO REFINING Co.
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PELLETS	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
	~~CHARCOAL~~																																			
138050	CHARCOAL FILTER	1	1L					X			X	X		12/28/99	15:00						X	X	X		X										

Relinquished by: Bryan Madrid Date: 12/28/99 Time: 16:15
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Marty Formoley Date: 12/29/99 Time: 9:30am

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 0°C
Log-In Review

REMARKS:

1/6

Carrier # Fed EX 273 0400 425

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

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
FEB 24 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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to appropri
District Off

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 NEW MEXICO
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:

02-009 CHARCOAL FILTERS. PELLETS USED TO ABSORB ANY HYDROCARBONS DURING AMINE REGENERATION. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS.

02-010 FILTERS. FILTERS ARE USED TO SEPARATE SOLIDS AND OTHER IMPURITIES FROM AMINE IN OUR AMINE UNIT AND SOUR WATER IN OUR TAIL GAS UNIT. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS.

02-011 INJECTION WELL FILTERS. FILTERS ARE USED TO SEPARATE SOLIDS AND OTHER IMPURITIES BEFORE WASTEWATER IS SENT TO THE INJECTION WELLS. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-22-00
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: Environm. Eng. Specialist DATE: 02-23-00

APPROVED BY: Martyne J. Kupsky TITLE: Environmental Geologist DATE: 02-24-00

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 from amine in our amine unit and sour water in our tail gas unit.

REMARKS: Process has not changed - Previous analysis enclosed.

NMOCD FACILITY: Controlled Recovery Incorportated

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: 2/18/00

TRACEANALYSIS, 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: 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

08/30/99
DATE

TRACEANALYSIS, 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

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

TCLP Semi-Volatile (mg/L)	EPA Limit	Reporting Limit	T129820 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

08/31/99
Date

TRACEANALYSIS, 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: 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

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

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: Hg SPIKE 0.0500 mg/L
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.00500 mg/L

Director, Dr. Blair Leftwich

08/30/99
Date

TRACEANALYSIS, 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

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

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

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

129820-21

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 # 99081309

Company Name: NAVAJO REFINING CO.
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Solid Filter	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME
129820	FILTER	1	1L				X	✓			X	X		8/12/99	13:00
129821	TK 116	1	1L				✓	X			X	X		8/12/99	13:00

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
129820						X	X	X		X							
129821						X	X	X		X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	8/12/99	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Debbie Mitchell	8/13/99	9:20am

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 10 °
Log-In Review

REMARKS:

Carrier # FedEx 259 4616 227

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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to appropri
District Off

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 NEW MEXICO
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:

02-012 PIPELINE FILTERS. FILTERS ARE USED TO SEPARATE SOLIDS FROM FINISHED PRODUCTS BEING TRANSFERRED IN PIPELINES TO OUR EL PASO TERMINAL.
I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND LETTER FROM THE NMED
20 YARDS

02-013 HYDROCARBON CONTAMINATED SOIL. SOIL GENERATED DURING THE CLEANUP OF A GAS OIL SPILL PLUS OTHER SPILL CLEAN UPS AROUND THE PLANT.
I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
300 YARDS.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-22-00
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: 02-23-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 02-24-00

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 Incorportated**

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: 2/18/00

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

GARY E. JOHNSON
GOVERNOR

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,

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

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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FEB 24 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

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 NEW MEXICO
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:

02-009 CHARCOAL FILTERS. PELLETS USED TO ABSORB ANY HYDROCARBONS DURING AMINE REGENERATION. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS.

02-010 FILTERS. FILTERS ARE USED TO SEPARATE SOLIDS AND OTHER IMPURITIES FROM AMINE IN OUR AMINE UNIT AND SOUR WATER IN OUR TAIL GAS UNIT. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS.

02-011 INJECTION WELL FILTERS. FILTERS ARE USED TO SEPARATE SOLIDS AND OTHER IMPURITIES BEFORE WASTEWATER IS SENT TO THE INJECTION WELLS. I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
10 YARDS

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-22-00
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: 02-23-00

APPROVED BY: Marilyn J. Kirby TITLE: Environmental Geologist DATE: 02/24/00

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: **Process has not changed - Previous analysis enclosed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

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: 2/18/00

TRACEANALYSIS, 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

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

TRACEANALYSIS, 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

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 LIMIT	Reporting Limit	T132779 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	61
Phenol-d6	41
Nitrobenzene-d5	107
2-Fluorobiphenyl	103
2,4,6-Tribromophenol	109
Terphenyl-d14	100

ND = Not Detected
METHODS: EPA SW 846-1311, 8270
CHEMIST: MA

Director, Dr. Blair Leftwich

10-14-99
Date

TRACEANALYSIS, 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: Filter
Project No: N/A
Project Location: N/A

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO,
Attention: Byran 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)
	EPA LIMIT =	5.0	100	1.0	5.0	5.0	1.0	5.0	0.20
T132779	Inject Well Filter	<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
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

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NAVAJO REFINING CO.
Attention: Byran Madrid
501 E. Main
Artesia, NM 88209

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

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 =	---	500	250	---	<2 >12.5	---
T132779	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

132779-80

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 # 99100507

Company Name: NAVAJO REFINING Co.
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	FILTER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
132779	INJECT. WELL FILTER	1	1L					X			X	X		10/4/99	13:00						X	X	X		X											
80	FLUORIDE PRECIP.	1	1L				X				X	X		10/4/99	13:30						X	X	X		X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	10/4/99	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Vicki Wrodhan	10-5-99	9:00

LAB USE ONLY
Intact Y N
Headspace Y / N
Temp 5°C
Log-in Review MS

REMARKS:

10/14/99

Carrier # FEDEX 264 2874 656

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
FEB 24 2000
Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/

Submit Orig
Plus 1 C
to appropr
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 NEW MEXICO
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:

02-012 PIPELINE FILTERS. FILTERS ARE USED TO SEPARATE SOLIDS FROM FINISHED PRODUCTS BEING TRANSFERRED IN PIPELINES TO OUR EL PASO TERMINAL.
I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND LETTER FROM THE NMED
20 YARDS

02-013 HYDROCARBON CONTAMINATED SOIL. SOIL GENERATED DURING THE CLEANUP OF A GAS OIL SPILL PLUS OTHER SPILL CLEAN UPS AROUND THE PLANT.
I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.
300 YARDS.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-22-00
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: 02-23-00

APPROVED BY: Marilyn J. Kelly TITLE: Environmental Geologist DATE: 02-24-00

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: 300 yards

GENERATING PROCESS: Soil generated during the cleanup of a gas oil spill plus other spill clean ups around the plant.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: Lea Land Incorporated and Sweatt Construction

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: 2/18/00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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E-Mail: lab@traceanalysis.com

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

February 10, 2000
Receiving Date: 01/28/2000
Sample Type: Soil
Project No: NA
Project Location: NA

Extraction Date: 01/31/2000
Analysis Date: 02/01/2000
Sampling Date: 01/27/2000
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T139542 Contam. Soil	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	104	4	99	104
1,1-Dichloroethene	0.70	0.05	ND	96	1	132	96
Methyl Ethyl Ketone	200.0	0.5	ND	107	6	103	107
Chloroform	6.00	0.05	ND	99	0	108	99
1,2-Dichloroethane	0.50	0.05	ND	102	4	110	102
Benzene	0.50	0.05	ND	102	2	111	102
Carbon Tetrachloride	0.50	0.05	ND	107	1	118	107
Trichloroethene	0.50	0.05	ND	103	0	108	103
Tetrachloroethene	0.70	0.05	ND	103	2	111	103
Chlorobenzene	100.00	0.05	ND	101	2	101	101
1,4-Dichlorobenzene	7.50	0.05	ND	102	2	108	102

SURROGATES	**% Recovery**
Dibromofluoromethane	87
Toluene-d8	94
4-Bromofluorobenzene	95

ND = Not Detected

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

Director, Dr. Blair Leftwich

2-10-00
DATE

TRACEANALYSIS, 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

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

Report Date: 2/10/00

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

Order ID Number: A00012824

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
139542	Contam-Soil	Soil	1/27/00	13:00	1/28/00

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 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 139542
Description: Contam-Soil

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
1,4-Dichlorobenzene	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
o-Cresol	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
m,p-Cresol	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
Hexachloroethane	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
Nitrobenzene	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
Hexachlorobutadiene	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
2,4,5-Trichlorophenol	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
2,4-D	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
Hexachlorobenzene	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
2,4,5-TP	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25
Pentachlorophenol	<0.05	1	E 8270C	2/2/00	2/7/00	RC	PB00561	QC00786	0.25

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	34.47	1	80	43	16 - 65	RC	PB00561	QC00786
Phenol-d5	23.17	1	80	29	8 - 48	RC	PB00561	QC00786
Nitrobenzene-d5	59.23	1	80	74	28 - 118	RC	PB00561	QC00786
2-Fluorobiphenyl	60.64	1	80	76	40 - 106	RC	PB00561	QC00786
2,4,6-Tribromophenol	66.58	1	80	83	48 - 117	RC	PB00561	QC00786
Terphenyl-d14	66.41	1	80	83	48 - 132	RC	PB00561	QC00786

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
1,4-Dichlorobenzene (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
o-Cresol (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
m,p-Cresol (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
Hexachloroethane (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
Nitrobenzene (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
Hexachlorobutadiene (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
2,4,6-Trichlorophenol (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
2,4,5-Trichlorophenol (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
2,4-Dinitrotoluene (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
2,4-D (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
Hexachlorobenzene (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
2,4,5-TP (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786
Pentachlorophenol (mg/L)		<0.05	0.25	2/7/00	PB00561	QC00786

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	50.30	80	63	16 - 65	QC00786
Phenol-d5 (mg/Kg)	39.85	80	50	8 - 48	QC00786
Nitrobenzene-d5 (mg/Kg)	63.06	80	79	28 - 118	QC00786
2-Fluorobiphenyl (mg/Kg)	65.06	80	81	40 - 106	QC00786
2,4,6-Tribromophenol (mg/Kg)	44.33	80	55	48 - 117	QC00786
Terphenyl-d14 (mg/Kg)	70.39	80	88	48 - 132	QC00786

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	Pyridine (mg/L)	<0.05	1	80	15.25	19		0 - 103	0 - 20	QC00786
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	58.03	73		33 - 84	0 - 20	QC00786
LCS	o-Cresol (mg/L)	<0.05	1	80	60.18	75		34 - 93	0 - 20	QC00786
LCS	m,p-Cresol (mg/L)	<0.05	1	160	121.94	76		0 - 128	0 - 20	QC00786
LCS	Hexachloroethane (mg/L)	<0.05	1	80	53.68	67		28 - 87	0 - 20	QC00786
LCS	Nitrobenzene (mg/L)	<0.05	1	80	64.52	81		40 - 98	0 - 20	QC00786
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	54.25	68		30 - 91	0 - 20	QC00786
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	57.66	72		43 - 109	0 - 20	QC00786
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	61.03	76		47 - 106	0 - 20	QC00786
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	54.97	69		52 - 101	0 - 20	QC00786
LCS	2,4-D (mg/L)	<0.05	1	80	49.89	62		0 - 139	0 - 20	QC00786
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	81.49	102		43 - 117	0 - 20	QC00786
LCS	2,4,5-TP (mg/L)	<0.05	1	80	53.20	67		0 - 138	0 - 20	QC00786
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	49.47	62		27 - 107	0 - 20	QC00786

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	49.02	61	16 - 65	QC00786
LCS	Phenol-d5 (mg/Kg)	1	80	38.09	48	8 - 48	QC00786
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	58.66	73	28 - 118	QC00786
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	62.07	78	40 - 106	QC00786
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	58.98	74	48 - 117	QC00786
LCS	Terphenyl-d14 (mg/Kg)	1	80	69.00	86	48 - 132	QC00786

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 #
CCV 1	Pyridine (mg/L)		60	59.20	99	0 - 103	2/7/00	QC00786
CCV 1	1,4-Dichlorobenzene (mg/L)		60	58.79	98	33 - 84	2/7/00	QC00786
CCV 1	o-Cresol (mg/L)		60	58.02	97	34 - 93	2/7/00	QC00786
CCV 1	m,p-Cresol (mg/L)		60	59.01	98	0 - 128	2/7/00	QC00786
CCV 1	Hexachloroethane (mg/L)		60	60.23	100	28 - 87	2/7/00	QC00786
CCV 1	Nitrobenzene (mg/L)		60	59.65	99	40 - 98	2/7/00	QC00786
CCV 1	Hexachlorobutadiene (mg/L)		60	58.80	98	30 - 91	2/7/00	QC00786
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.37	99	43 - 109	2/7/00	QC00786
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.02	98	47 - 106	2/7/00	QC00786
CCV 1	2,4-Dinitrotoluene (mg/L)		60	58.81	98	52 - 101	2/7/00	QC00786
CCV 1	2,4-D (mg/L)		60	60.48	101	0 - 139	2/7/00	QC00786
CCV 1	Hexachlorobenzene (mg/L)		60	57.03	95	43 - 117	2/7/00	QC00786
CCV 1	2,4,5-TP (mg/L)		60	54.69	91	0 - 138	2/7/00	QC00786
CCV 1	Pentachlorophenol (mg/L)		60	56.12	94	27 - 107	2/7/00	QC00786
CCV 1	2-Fluorophenol (mg/L)		60	60	100	16 - 65	2/7/00	QC00786
CCV 1	Phenol-d5 (mg/L)		60	60	100	8 - 48	2/7/00	QC00786
CCV 1	Nitrobenzene-d5 (mg/L)		60	60	100	28 - 118	2/7/00	QC00786
CCV 1	2-Fluorobiphenyl (mg/L)		60	60	100	40 - 106	2/7/00	QC00786
CCV 1	2,4,6-Tribromophenol (mg/L)		60	60	100	48 - 117	2/7/00	QC00786
CCV 1	Terphenyl-d14 (mg/L)		60	60	100	48 - 132	2/7/00	QC00786

TRACEANALYSIS, 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

February 10, 2000
Receiving Date: 01/28/2000
Sample Type: Soil
Project No: NA
Project Location: NA

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

Sampling Date: 01/27/2000
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

TCLP METALS (mg/L)

TA#	Field Code	Ag	As	Ba	Cd	Cr	Pb	Se	Hg
	EPA LIMIT =	5.0	5.0	100.0	1.0	5.0	5.0	1.0	0.20
T139542	Contam. Soil	<0.50	<1.0	<2.0	<0.50	<1.0	<1.0	<0.50	<0.010
ICV		0.196	1.0	1.0	0.95	0.97	0.97	0.98	0.00525
CCV		0.193	0.98	1.0	0.99	1.0	1.0	0.99	0.0527
Reporting Limit		0.50	1.0	2.0	0.50	1.0	1.0	0.50	0.010
RPD		1	4	3	4	4	3	2	7
% Extraction Accuracy		97	109	102	99	101	98	105	100
% Instrument Accuracy		97	99	102	97	98	98	98	105
EXTRACTION DATE		02/01/2000	02/01/2000	02/01/2000	02/01/2000	02/01/2000	02/01/2000	02/01/2000	01/31/2000
ANALYSIS DATE		02/02/2000	02/02/2000	02/02/2000	02/02/2000	02/02/2000	02/02/2000	02/02/2000	02/03/2000

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
METHODS: EPA SW 846-1311, 6010B, 7470A.
TCLP METALS SPIKE: 10 mg/L As, Se, Cd, Cr, Pb, Ba; 1.50 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.0050 mg/L Hg.

Director, Dr. Blair Leftwich

2-10-00
Date

TRACEANALYSIS, 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•535•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

February 17, 2000
Receiving Date: 01/28/2000
Sample Type: Soil
Project No: NA
Project Location: NA

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

Prep Date: 02/04/2000
Analysis Date: 02/04/2000
Sampling Date: 01/27/2000
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: NA

*CORRECTED CERTIFICATE

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250	—	<2 >12.5	---
T139542	Contam. Soil	Non-Reactive	<10	<2.5	Non-corrosive	7.73	Nonignitable
QC	Quality Control	—	—	—	---	7.0	---
RPD		0	0	0	0	0	0
% Extraction Accuracy		—	---	—	—	—	---
% Instrument Accuracy		---	---	---	—	100	---

*NOTE: Corrected Corrosivity from corrosive to non-corrosive.

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

Director, Dr. Blair Leftwich

2-17-00
DATE

139542

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 #: H000 12824

Company Name: NAVAJO REFINING Co.
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	SAMPLING: DATE	SAMPLING: TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
39570	Control - Soil	1	1L		X					X	X	1/27/00	13:00						X	X	X		X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	1/27/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				1-28-00	2:00

LAB USE ONLY
Intact: Y N
Headspace: Y N
Temp: 1/
Log-In Review: [illegible]

REMARKS:

2/11

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
MAR 0 8 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

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 NEW MEXICO
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:

02-014

BLAST SAND. GENERATED DURING THE SANDBLASTING OF THE INSIDE OF A GASOLINE TANK BEFORE REPAIRING.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-29-00
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 Engineer Specialist DATE: 03-03-00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 03-08-00

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: **Blast Sand**

ESTIMATED VOLUME: **40 yards**

GENERATING PROCESS: **Generated during the sandblasting of the inside of a gasoline tank before repairing.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 2/25/08

TRACEANALYSIS, 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

February 18, 2000
Receiving Date: 02/04/00
Sample Type: Solid
Project #: N/A
Project Location:

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

Analysis Date: 02/16/00
Sampling Date: 02/03/00
Sample Condition: I & C
Sample Received by: JM
Project Name: N/A

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T139873	Blast Sand TK112	Non-reactive	<10	<2.5	Non-corrosive	5.90	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

BL

Director, Dr. Blair Leftwich

2-18-00

Date

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

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

Report Date: 2/18/00

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

Order ID Number: A00020415

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
139873 ✓	Blast Sand K 112	Solid	2/3/00	13:00	2/4/00

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 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 139873
Description: Blast Sand K 112

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Hg (mg/L)									
TCLP Mercury	<0.010	1	S 7470A	2/7/00	2/10/00	BP	PB00797	QC00969	0.01
TCLP Metals (mg/L)									
TCLP Arsenic	<0.10	1	S 6010B	2/7/00	2/9/00	RR	PB00792	QC00963	0.1
TCLP Barium	<0.10	1	S 6010B	2/7/00	2/9/00	RR	PB00792	QC00963	0.1
TCLP Cadmium	<0.02	1	S 6010B	2/7/00	2/9/00	RR	PB00792	QC00963	0.02
TCLP Chromium	<0.05	1	S 6010B	2/7/00	2/9/00	RR	PB00792	QC00963	0.05
TCLP Lead	<0.10	1	S 6010B	2/7/00	2/9/00	RR	PB00792	QC00963	0.1
TCLP Selenium	<0.10	1	S 6010B	2/7/00	2/9/00	RR	PB00792	QC00963	0.1
TCLP Silver	<0.05	1	S 6010B	2/7/00	2/9/00	RR	PB00792	QC00963	0.05
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
o-Cresol	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
m,p-Cresol	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
Hexachloroethane	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
Nitrobenzene	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
2,4,6-Trichlorophenol	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
2,4-Dinitrotoluene	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
2,4-D	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
Hexachlorobenzene	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
2,4,5-TP	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05
Pentachlorophenol	<0.05	1	E 8270C	2/15/00	2/15/00	LK	PB00735	QC00923	0.05

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	29.81	1	80	37	16 - 65	LK	PB00735	QC00923
Phenol-d5	22.50	1	80	28	8 - 48	LK	PB00735	QC00923
Nitrobenzene-d5	52.85	1	80	66	28 - 118	LK	PB00735	QC00923
2-Fluorobiphenyl	52.77	1	80	66	40 - 106	LK	PB00735	QC00923
2,4,6-Tribromophenol	58.48	1	80	73	48 - 117	LK	PB00735	QC00923
Terphenyl-d14	63.87	1	80	80	48 - 132	LK	PB00735	QC00923

TCLP Volatiles (mg/L)									
Vinyl Chloride	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
1,1-Dichloroethene	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
Methyl ethyl ketone	<0.5	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.01
Chloroform	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
1,2-Dichloroethane (EDC)	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
Benzene	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
Carbon Tetrachloride	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
Trichloroethene (TCE)	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
Tetrachloroethene (PCE)	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
Chlorobenzene	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001
1,4-Dichlorobenzene	<0.05	50	S 8260B	2/9/00	2/10/00	JG	PB00800	QC00971	0.001

N/A N/A N/A

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
Dibromofluoromethane	44	1	50	88	80 - 120	JG	PB00800	QC00971
Toluene-d8	48	1	50	96	80 - 120	JG	PB00800	QC00971
4-Bromofluorobenzene	47	1	50	94	80 - 120	JG	PB00800	QC00971

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TCLP Mercury (mg/L)		<0.010	0.01	2/10/00	PB00797	QC00969

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TCLP Arsenic (mg/L)		<0.10	0.1	2/9/00	PB00792	QC00963
TCLP Barium (mg/L)		<0.10	0.1	2/9/00	PB00792	QC00963
TCLP Cadmium (mg/L)		<0.02	0.02	2/9/00	PB00792	QC00963
TCLP Chromium (mg/L)		<0.05	0.05	2/9/00	PB00792	QC00963
TCLP Lead (mg/L)		<0.10	0.1	2/9/00	PB00792	QC00963
TCLP Selenium (mg/L)		<0.10	0.1	2/9/00	PB00792	QC00963
TCLP Silver (mg/L)		<0.05	0.05	2/9/00	PB00792	QC00963

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
1,4-Dichlorobenzene (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
o-Cresol (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
m,p-Cresol (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
Hexachloroethane (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
Nitrobenzene (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
Hexachlorobutadiene (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
2,4,6-Trichlorophenol (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
2,4,5-Trichlorophenol (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
2,4-Dinitrotoluene (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
2,4-D (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
Hexachlorobenzene (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
2,4,5-TP (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923
Pentachlorophenol (mg/L)		<0.05	0.05	2/15/00	PB00735	QC00923

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	30.93	80	39	16 - 65	QC00923
Phenol-d5 (mg/Kg)	22.74	80	28	8 - 48	QC00923
Nitrobenzene-d5 (mg/Kg)	52.69	80	66	28 - 118	QC00923
2-Fluorobiphenyl (mg/Kg)	50.83	80	64	40 - 106	QC00923
2,4,6-Tribromophenol (mg/Kg)	52.94	80	66	48 - 117	QC00923
Terphenyl-d14 (mg/Kg)	64.46	80	81	48 - 132	QC00923

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Vinyl Chloride (mg/L)		<0.05	0.001	2/10/00	PB00800	QC00971
1,1-Dichloroethene (mg/L)		<0.05	0.001	2/10/00	PB00800	QC00971
Methyl ethyl ketone (mg/L)		<0.5	0.01	2/10/00	PB00800	QC00971
Chloroform (mg/L)		<0.05	0.001	2/10/00	PB00800	QC00971
1,2-Dichloroethane (EDC) (mg/L)		<0.05	0.001	2/10/00	PB00800	QC00971

N/A N/A N/A

Benzene (mg/L)	<0.05	0.001	2/10/00	PB00800	QC00971
Carbon Tetrachloride (mg/L)	<0.05	0.001	2/10/00	PB00800	QC00971
Trichloroethene (TCE) (mg/L)	<0.05	0.001	2/10/00	PB00800	QC00971
Tetrachloroethene (PCE) (mg/L)	<0.05	0.001	2/10/00	PB00800	QC00971
Chlorobenzene (mg/L)	<0.05	0.001	2/10/00	PB00800	QC00971
1,4-Dichlorobenzene (mg/L)	<0.05	0.001	2/10/00	PB00800	QC00971
Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
Dibromofluoromethane (mg/Kg)	43	50	86	80 - 120	QC00971
Toluene-d8 (mg/Kg)	48.5	50	97	80 - 120	QC00971
4-Bromofluorobenzene (mg/Kg)	47.5	50	95	80 - 120	QC00971

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	TCLP Arsenic (mg/L)	<0.10	1	10	9.87	99		75 - 125	0 - 20	QC00963
MS	TCLP Barium (mg/L)	0.13	1	10	9.55	94		75 - 125	0 - 20	QC00963
MS	TCLP Cadmium (mg/L)	<0.02	1	10	9.40	94		75 - 125	0 - 20	QC00963
MS	TCLP Chromium (mg/L)	<0.05	1	10	9.36	94		75 - 125	0 - 20	QC00963
MS	TCLP Lead (mg/L)	<0.10	1	10	9.15	92		75 - 125	0 - 20	QC00963
MS	TCLP Selenium (mg/L)	<0.10	1	10	9.61	96		75 - 125	0 - 20	QC00963
MS	TCLP Silver (mg/L)	<0.05	1	2	2.09	105		75 - 125	0 - 20	QC00963
MSD	TCLP Arsenic (mg/L)	<0.10	1	10	9.86	99	0	75 - 125	0 - 20	QC00963
MSD	TCLP Barium (mg/L)	0.13	1	10	9.61	95	1	75 - 125	0 - 20	QC00963
MSD	TCLP Cadmium (mg/L)	<0.02	1	10	9.40	94	0	75 - 125	0 - 20	QC00963
MSD	TCLP Chromium (mg/L)	<0.05	1	10	9.41	94	1	75 - 125	0 - 20	QC00963
MSD	TCLP Lead (mg/L)	<0.10	1	10	9.20	92	1	75 - 125	0 - 20	QC00963
MSD	TCLP Selenium (mg/L)	<0.10	1	10	9.66	97	1	75 - 125	0 - 20	QC00963
MSD	TCLP Silver (mg/L)	<0.05	1	2	2.10	105	0	75 - 125	0 - 20	QC00963

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	TCLP Mercury (mg/L)	<0.010	1	0.05	0.0552	110		80 - 120	0 - 20	QC00969
MSD	TCLP Mercury (mg/L)	<0.010	1	0.05	0.0560	112	1	80 - 120	0 - 20	QC00969

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Vinyl Chloride (mg/L)	<0.05	1	5	4.90	98		80 - 120	0 - 20	QC00971
MS	1,1-Dichloroethene (mg/L)	<0.05	1	5	6.50	130		80 - 120	0 - 20	QC00971
MS	Methyl ethyl ketone (mg/L)	<0.5	1	5	5.35	107		80 - 120	0 - 20	QC00971
MS	Chloroform (mg/L)	<0.05	1	5	5.05	101		80 - 120	0 - 20	QC00971
MS	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	5	5.10	102		80 - 120	0 - 20	QC00971
MS	Benzene (mg/L)	<0.05	1	5	5.75	115		80 - 120	0 - 20	QC00971
MS	Carbon Tetrachloride (mg/L)	<0.05	1	5	5.35	107		80 - 120	0 - 20	QC00971
MS	Trichloroethene (TCE) (mg/L)	<0.05	1	5	5.40	108		80 - 120	0 - 20	QC00971
MS	Tetrachloroethene (PCE) (mg/L)	<0.05	1	5	5.75	115		80 - 120	0 - 20	QC00971
MS	Chlorobenzene (mg/L)	<0.05	1	5	5.10	102		80 - 120	0 - 20	QC00971
MS	1,4-Dichlorobenzene (mg/L)	<0.05	1	5	5.35	107		80 - 120	0 - 20	QC00971

Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.	% Rec. Limit	Prep Batch #	QC Batch #
MS	Dibromofluoromethane (mg/Kg)	44.5	1	50	JG	89	80 - 120	PB00800	QC00971
MS	Toluene-d8 (mg/Kg)	49	1	50	JG	98	80 - 120	PB00800	QC00971
MS	4-Bromofluorobenzene (mg/Kg)	48	1	50	JG	96	80 - 120	PB00800	QC00971

N/A N/A N/A

MSD	Vinyl Chloride (mg/L)	<0.05	1	5	4.90	98	0	80 - 120	0 - 20	QC00971
MSD	1,1-Dichloroethene (mg/L)	<0.05	1	5	6.50	130	0	80 - 120	0 - 20	QC00971
MSD	Methyl ethyl ketone (mg/L)	<0.5	1	5	5.30	106	1	80 - 120	0 - 20	QC00971
MSD	Chloroform (mg/L)	<0.05	1	5	5.05	101	0	80 - 120	0 - 20	QC00971
MSD	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	5	5.20	104	2	80 - 120	0 - 20	QC00971
MSD	Benzene (mg/L)	<0.05	1	5	5.80	116	1	80 - 120	0 - 20	QC00971
MSD	Carbon Tetrachloride (mg/L)	<0.05	1	5	5.35	107	0	80 - 120	0 - 20	QC00971
MSD	Trichloroethene (TCE) (mg/L)	<0.05	1	5	5.40	108	0	80 - 120	0 - 20	QC00971
MSD	Tetrachloroethene (PCE) (mg/L)	<0.05	1	5	5.50	110	4	80 - 120	0 - 20	QC00971
MSD	Chlorobenzene (mg/L)	<0.05	1	5	5.00	100	2	80 - 120	0 - 20	QC00971
MSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	5	5.25	105	2	80 - 120	0 - 20	QC00971

Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.	% Rec. Limit	Prep Batch #	QC Batch #
MSD	Dibromofluoromethane (mg/Kg)	46	1	50	JG	92	80 - 120	PB00800	QC00971
MSD	Toluene-d8 (mg/Kg)	49	1	50	JG	98	80 - 120	PB00800	QC00971
MSD	4-Bromofluorobenzene (mg/Kg)	48	1	50	JG	96	80 - 120	PB00800	QC00971

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 Mercury (mg/L)	<0.010	1	0.05	0.0564	113		80 - 120	0 - 20	QC00969
LCSD	TCLP Mercury (mg/L)	<0.010	1	0.05	0.0567	113	1	80 - 120	0 - 20	QC00969

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	TCLP Arsenic (mg/L)	<0.10	1	10	9.93	99		75 - 125	0 - 20	QC00963
LCS	TCLP Barium (mg/L)	<0.10	1	10	10.1	101		75 - 125	0 - 20	QC00963
LCS	TCLP Cadmium (mg/L)	<0.02	1	10	9.94	99		75 - 125	0 - 20	QC00963
LCS	TCLP Chromium (mg/L)	<0.05	1	10	10.1	101		75 - 125	0 - 20	QC00963
LCS	TCLP Lead (mg/L)	<0.10	1	10	10.1	101		75 - 125	0 - 20	QC00963
LCS	TCLP Selenium (mg/L)	<0.10	1	10	9.74	97		75 - 125	0 - 20	QC00963
LCS	TCLP Silver (mg/L)	<0.05	1	2	2.21	111		75 - 125	0 - 20	QC00963
LCSD	TCLP Arsenic (mg/L)	<0.10	1	10	10.0	100	1	75 - 125	0 - 20	QC00963
LCSD	TCLP Barium (mg/L)	<0.10	1	10	10.2	102	1	75 - 125	0 - 20	QC00963
LCSD	TCLP Cadmium (mg/L)	<0.02	1	10	9.92	99	0	75 - 125	0 - 20	QC00963
LCSD	TCLP Chromium (mg/L)	<0.05	1	10	10.1	101	0	75 - 125	0 - 20	QC00963
LCSD	TCLP Lead (mg/L)	<0.10	1	10	10.1	101	0	75 - 125	0 - 20	QC00963
LCSD	TCLP Selenium (mg/L)	<0.10	1	10	9.82	98	1	75 - 125	0 - 20	QC00963
LCSD	TCLP Silver (mg/L)	<0.05	1	2	2.21	111	0	75 - 125	0 - 20	QC00963

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Pyridine (mg/L)	<0.05	1	80	31.72	40		0 - 103	0 - 20	QC00923
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	58.43	73		33 - 84	0 - 20	QC00923
LCS	o-Cresol (mg/L)	<0.05	1	80	58.33	73		34 - 93	0 - 20	QC00923
LCS	m,p-Cresol (mg/L)	<0.05	1	160	106.14	66		0 - 128	0 - 20	QC00923
LCS	Hexachloroethane (mg/L)	<0.05	1	80	52.71	66		28 - 87	0 - 20	QC00923
LCS	Nitrobenzene (mg/L)	<0.05	1	80	63.59	79		40 - 98	0 - 20	QC00923
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	53.79	67		30 - 91	0 - 20	QC00923
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	62.16	78		43 - 109	0 - 20	QC00923
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	60.35	75		47 - 106	0 - 20	QC00923
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	71.74	90		52 - 101	0 - 20	QC00923
LCS	2,4-D (mg/L)	<0.05	1	80	45.52	57		0 - 139	0 - 20	QC00923
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	67.03	84		43 - 117	0 - 20	QC00923
LCS	2,4,5-TP (mg/L)	<0.05	1	80	54.79	68		0 - 138	0 - 20	QC00923
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	56.42	71		27 - 107	0 - 20	QC00923

N/A N/A N/A

Standard	Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS	2-Fluorophenol (mg/Kg)		1	80	36.75	46		16 - 65		QC00923
LCS	Phenol-d5 (mg/Kg)		1	80	26.07	33		8 - 48		QC00923
LCS	Nitrobenzene-d5 (mg/Kg)		1	80	60.93	76		28 - 118		QC00923
LCS	2-Fluorobiphenyl (mg/Kg)		1	80	58.17	73		40 - 106		QC00923
LCS	2,4,6-Tribromophenol (mg/Kg)		1	80	61.03	76		48 - 117		QC00923
LCS	Terphenyl-d14 (mg/Kg)		1	80	64.34	80		48 - 132		QC00923
LCSD	Pyridine (mg/L)	<0.05	1	80	36.18	45	13	0 - 103	0 - 20	QC00923
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	49.67	62	16	33 - 84	0 - 20	QC00923
LCSD	o-Cresol (mg/L)	<0.05	1	80	51.93	65	12	34 - 93	0 - 20	QC00923
LCSD	m,p-Cresol (mg/L)	<0.05	1	160	94.19	59	12	0 - 128	0 - 20	QC00923
LCSD	Hexachloroethane (mg/L)	<0.05	1	80	44.41	56	17	28 - 87	0 - 20	QC00923
LCSD	Nitrobenzene (mg/L)	<0.05	1	80	54.69	68	15	40 - 98	0 - 20	QC00923
LCSD	Hexachlorobutadiene (mg/L)	<0.05	1	80	44.67	56	19	30 - 91	0 - 20	QC00923
LCSD	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	56.90	71	9	43 - 109	0 - 20	QC00923
LCSD	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	56.79	71	6	47 - 106	0 - 20	QC00923
LCSD	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	69.57	87	3	52 - 101	0 - 20	QC00923
LCSD	2,4-D (mg/L)	<0.05	1	80	46.22	58	2	0 - 139	0 - 20	QC00923
LCSD	Hexachlorobenzene (mg/L)	<0.05	1	80	65.22	82	3	43 - 117	0 - 20	QC00923
LCSD	2,4,5-TP (mg/L)	<0.05	1	80	58.29	73	6	0 - 138	0 - 20	QC00923
LCSD	Pentachlorophenol (mg/L)	<0.05	1	80	55.91	70	1	27 - 107	0 - 20	QC00923

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	31.07	39	16 - 65	QC00923
LCSD	Phenol-d5 (mg/Kg)	1	80	22.85	29	8 - 48	QC00923
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	53.32	67	28 - 118	QC00923
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	52.68	66	40 - 106	QC00923
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	57.31	72	48 - 117	QC00923
LCSD	Terphenyl-d14 (mg/Kg)	1	80	65.84	82	48 - 132	QC00923

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Vinyl Chloride (mg/L)	<0.05	1	5	4.80	96		80 - 120	0 - 20	QC00971
LCS	1,1-Dichloroethene (mg/L)	<0.05	1	5	6.50	130		80 - 120	0 - 20	QC00971
LCS	Methyl ethyl ketone (mg/L)	<0.5	1	5	4.90	98		80 - 120	0 - 20	QC00971
LCS	Chloroform (mg/L)	<0.05	1	5	5.25	105		80 - 120	0 - 20	QC00971
LCS	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	5	5.35	107		80 - 120	0 - 20	QC00971
LCS	Benzene (mg/L)	<0.05	1	5	5.80	116		80 - 120	0 - 20	QC00971
LCS	Carbon Tetrachloride (mg/L)	<0.05	1	5	5.50	110		80 - 120	0 - 20	QC00971
LCS	Trichloroethene (TCE) (mg/L)	<0.05	1	5	5.40	108		80 - 120	0 - 20	QC00971
LCS	Tetrachloroethene (PCE) (mg/L)	<0.05	1	5	5.55	111		80 - 120	0 - 20	QC00971
LCS	Chlorobenzene (mg/L)	<0.05	1	5	5.0	100		80 - 120	0 - 20	QC00971
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	5	5.35	107		80 - 120	0 - 20	QC00971

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	Dibromofluoromethane (mg/Kg)	1	50	46	92	80 - 120	QC00971
LCS	Toluene-d8 (mg/Kg)	1	50	49.5	99	80 - 120	QC00971
LCS	4-Bromofluorobenzene (mg/Kg)	1	50	48.5	97	80 - 120	QC00971

LCSD	Vinyl Chloride (mg/L)	<0.05	1	5	4.85	97	1	80 - 120	0 - 20	QC00971
LCSD	1,1-Dichloroethene (mg/L)	<0.05	1	5	6.45	129	1	80 - 120	0 - 20	QC00971
LCSD	Methyl ethyl ketone (mg/L)	<0.5	1	5	5.20	104	6	80 - 120	0 - 20	QC00971
LCSD	Chloroform (mg/L)	<0.05	1	5	5.25	105	0	80 - 120	0 - 20	QC00971
LCSD	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	5	5.40	108	1	80 - 120	0 - 20	QC00971
LCSD	Benzene (mg/L)	<0.05	1	5	5.70	114	2	80 - 120	0 - 20	QC00971
LCSD	Carbon Tetrachloride (mg/L)	<0.05	1	5	5.50	110	0	80 - 120	0 - 20	QC00971
LCSD	Trichloroethene (TCE) (mg/L)	<0.05	1	5	5.40	108	0	80 - 120	0 - 20	QC00971
LCSD	Tetrachloroethene (PCE) (mg/L)	<0.05	1	5	5.55	111	0	80 - 120	0 - 20	QC00971
LCSD	Chlorobenzene (mg/L)	<0.05	1	5	5.05	101	1	80 - 120	0 - 20	QC00971
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	5	5.20	104	3	80 - 120	0 - 20	QC00971

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	Dibromofluoromethane (mg/Kg)	1	50	46.5	93	80 - 120	QC00971
LCSD	Toluene-d8 (mg/Kg)	1	50	49.5	99	80 - 120	QC00971
LCSD	4-Bromofluorobenzene (mg/Kg)	1	50	49.5	99	80 - 120	QC00971

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 #
CCV 1	TCLP Mercury (mg/L)		0.005	0.00548	110	80 - 120	2/10/00	QC00969

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TCLP Arsenic (mg/L)		1	1.04	104	75 - 125	2/9/00	QC00963
ICV	TCLP Barium (mg/L)		1	1.03	103	75 - 125	2/9/00	QC00963
ICV	TCLP Cadmium (mg/L)		1	1.03	103	75 - 125	2/9/00	QC00963
ICV	TCLP Chromium (mg/L)		1	1.02	102	75 - 125	2/9/00	QC00963
ICV	TCLP Lead (mg/L)		1	1.03	103	75 - 125	2/9/00	QC00963
ICV	TCLP Selenium (mg/L)		1	1.03	103	75 - 125	2/9/00	QC00963
ICV	TCLP Silver (mg/L)		0.2	0.205	102	75 - 125	2/9/00	QC00963
CCV 1	TCLP Arsenic (mg/L)		1	1.00	100	75 - 125	2/9/00	QC00963
CCV 1	TCLP Barium (mg/L)		1	1.01	101	75 - 125	2/9/00	QC00963
CCV 1	TCLP Cadmium (mg/L)		1	1.01	101	75 - 125	2/9/00	QC00963
CCV 1	TCLP Chromium (mg/L)		1	1.01	101	75 - 125	2/9/00	QC00963
CCV 1	TCLP Lead (mg/L)		1	1.01	101	75 - 125	2/9/00	QC00963
CCV 1	TCLP Selenium (mg/L)		1	1.00	100	75 - 125	2/9/00	QC00963
CCV 1	TCLP Silver (mg/L)		0.2	0.201	100	75 - 125	2/9/00	QC00963

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Pyridine (mg/L)		60	60.08	100	0 - 103	2/15/00	QC00923
CCV 1	1,4-Dichlorobenzene (mg/L)		60	63.73	106	33 - 84	2/15/00	QC00923
CCV 1	o-Cresol (mg/L)		60	71.65	119	34 - 93	2/15/00	QC00923
CCV 1	m,p-Cresol (mg/L)		60	67.62	113	0 - 128	2/15/00	QC00923
CCV 1	Hexachloroethane (mg/L)		60	62.82	105	28 - 87	2/15/00	QC00923
CCV 1	Nitrobenzene (mg/L)		60	65.60	109	40 - 98	2/15/00	QC00923
CCV 1	Hexachlorobutadiene (mg/L)		60	60.71	101	30 - 91	2/15/00	QC00923
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	67.64	113	43 - 109	2/15/00	QC00923
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	66.64	111	47 - 106	2/15/00	QC00923
CCV 1	2,4-Dinitrotoluene (mg/L)		60	71.47	119	52 - 101	2/15/00	QC00923
CCV 1	2,4-D (mg/L)		60	64.69	108	0 - 139	2/15/00	QC00923
CCV 1	Hexachlorobenzene (mg/L)		60	60.34	101	43 - 117	2/15/00	QC00923
CCV 1	2,4,5-TP (mg/L)		60	69.56	116	0 - 138	2/15/00	QC00923
CCV 1	Pentachlorophenol (mg/L)		60	66.33	111	27 - 107	2/15/00	QC00923
CCV 1	2-Fluorophenol (mg/L)		60	57.17	95	16 - 65	2/15/00	QC00923
CCV 1	Phenol-d5 (mg/L)		60	65.22	109	8 - 48	2/15/00	QC00923
CCV 1	Nitrobenzene-d5 (mg/L)		60	65.56	109	28 - 118	2/15/00	QC00923
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.92	102	40 - 106	2/15/00	QC00923

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 #
CCV 1	2,4,6-Tribromophenol (mg/L)		60	64.52	108	48 - 117	2/15/00	QC00923
CCV 1	Terphenyl-d14 (mg/L)		60	67.71	113	48 - 132	2/15/00	QC00923

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Vinyl Chloride (mg/L)		60	54	90	80 - 120	2/10/00	QC00971
CCV 1	1,1-Dichloroethene (mg/L)		60	57	95	80 - 120	2/10/00	QC00971
CCV 1	Methyl ethyl ketone (mg/L)		60	63	105	80 - 120	2/10/00	QC00971
CCV 1	Chloroform (mg/L)		60	54.5	91	80 - 120	2/10/00	QC00971
CCV 1	1,2-Dichloroethane (EDC) (mg/L)		60	53.5	89	80 - 120	2/10/00	QC00971
CCV 1	Benzene (mg/L)		60	64	107	80 - 120	2/10/00	QC00971
CCV 1	Carbon Tetrachloride (mg/L)		60	56.5	94	80 - 120	2/10/00	QC00971
CCV 1	Trichloroethene (TCE) (mg/L)		60	62	103	80 - 120	2/10/00	QC00971
CCV 1	Tetrachloroethene (PCE) (mg/L)		60	65.5	109	80 - 120	2/10/00	QC00971
CCV 1	Chlorobenzene (mg/L)		60	62	103	80 - 120	2/10/00	QC00971
CCV 1	1,4-Dichlorobenzene (mg/L)		60	61	102	80 - 120	2/10/00	QC00971
CCV 1	Dibromofluoromethane (mg/L)		50	43	86	80 - 120	2/10/00	QC00971
CCV 1	Toluene-d8 (mg/L)		50	48.5	97	80 - 120	2/10/00	QC00971
CCV 1	4-Bromofluorobenzene (mg/L)		50	47.5	95	80 - 120	2/10/00	QC00971

139873

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 # A000 20415

Company Name: NAVAJO REFINING Co.
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	SAND	PRESERVATIVE METHOD: HCL	HNO3	$NaHSO_4$	H_2SO_4	NaOH	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
139873	BLAST SAND TK112							X						X	X		2/3/00	13:00						X	X	X		X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	2/3/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Jackie Windham	2-4-00	10:00 AM

LAB USE ONLY

Intact (Y) / N
Headspace Y / N
Temp 1° °
Log-in Review ORB

REMARKS:

2/10

Carrier # Fedex 270 1351 424

ORIGINAL COPY

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
MAR 0 8 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

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 NEW MEXICO
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:

03-001

MOLE SIEVE (D-490, D-491). USED TO DRY DIESEL BEFORE IT IS SENT TO STORAGE.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY. THE PROCESS HAS NOT CHANGED.

Re Sample the Waste Stream ICE
Check Reasonable, MJK 3-8-00

Prior to Next request For Mole Sieve
Navajo will Need to resample
this waste Stream and ensure
that the entire Shipment 4°C ±2°
Pencles the Lab within
Vol, SVOC, Flash Point and Cyanide
All require to be Chilled to 4° ±2
MJK 3-8-00

Estimated Volume 40 YARDS 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: 3-3-00

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: 03-06-00

DENIED

APPROVED BY: _____ TITLE: Environmental Geologist DATE: 03-08-00

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: **Mole Sieve (D-490, D-491)**

ESTIMATED VOLUME: **40 yards**

GENERATING PROCESS: **Used to dry diesel before it is sent to storage.**

REMARKS: **Previous analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 3/1/00

Pace Analytical

Pace Analytical Services, Inc.
161 James Drive West, Suite 100
St. Rose, LA 70087
Tel: 504-469-0333
Fax: 504-469-0555

Darrell Moore
Navajo Refining Co.
Post Office Box 159
Artesia, NM 88211

Project: TCLP'S
Site:
Episode: IFO

To: Darrell Moore

Enclosed please find the analytical results for sample(s) received by Pace Analytical Services, Inc. - New Orleans.

This report contains a summary of the quality control data associated with the analyses as well as copies of the chain-of-custody documents.

You may direct any inquires concerning this report to your Project Manager, or any one of the Project Managers listed below:

Ms. Karen H. Brown, Manager, Ext. 325
Mr. Craig McCollum, Ext. 326
Ms. Cindy Olavesen, Ext. 327

Sincerely,

Karen H Brown
Project Manager

7/28/97
Date

Enclosures

Pace Analytical Services, Inc. - New Orleans
Sample Cross Reference Summary

Episode: IFO Client: Navajo Refining Co.

Project: TCLP'S

Site:

Lab ID	Client ID	Description	Matrix	Collected	Received
IFO-001	12-204 SANDFILTER		Other	07/11/97	07/14/97
IFO-002	TK1215 SLUDGE		Other	07/11/97	07/14/97
IFO-003	SEWER INSERTS		Other	07/11/97	07/14/97
IFO-004	MOLE SIEVE-DHDU		Other	07/11/97	07/14/97
IFO-005	D-204 SANDFILTER		Other	07/16/97	07/17/97
IFO-006	TK1215 SLUDGE		Other	07/16/97	07/17/97
IFO-007	MOLE SIEVE-DHDU		Other	07/16/97	07/17/97

Narrative for Batch 23197

Volatile Organics

Poor recovery of vinyl chloride was observed in the matrix spikes for this batch; acceptable laboratory performance has been demonstrated by the laboratory control sample recovery.

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Organic Protocol

Client ID:	MOLE SIEVE-DHDU	**Client:**	NAVAJO REFINING CO.
Project:	TCLP'S	**Site:**	None
Lab ID:	IFO-007 Leachate	**Episode:**	IFO
Sample Qu:			
Description:	None	**Matrix:**	Other
% Moisture:	n/a		
Method:	Leachate SW 8240 TCLP Volatile Organics	**Batch:**	23197
Units:	mg/l		

Prep Factor: 1.00 **Leached:** 7/21/97 **Prepared:** **Analyzed:** 23-Jul-97 20:02 DE

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	2	ND	D2 C3	0.100	0.500
78-93-3	2-Butanone (Methyl ethyl ketone)	2	ND	D2 C3	0.200	200
56-23-5	Carbon tetrachloride	2	ND	D2 C3	0.100	0.500
108-90-7	Chlorobenzene	2	ND	D2 C3	0.100	100
67-66-3	Chloroform	2	ND	D2 C3	0.100	6.00
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	2	ND	D2 C3	0.100	0.500
75-35-4	1,1-Dichloroethene (Dichloroethylene)	2	ND	D2 C3	0.100	0.700
127-18-4	Tetrachloroethene (Perchloroethylene)	2	ND	D2 C3	0.100	0.700
79-01-6	Trichloroethene (Trichloroethylene)	2	ND	D2 C3	0.100	0.500
75-01-4	Vinyl chloride (Chloroethene)	2	ND	D2 C3	0.200	0.200

10 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

7/25/97 15:41:23

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Organic Protocol

Client ID: MOLE SIEVE-DHDU
Client: NAVAJO REFINING CO.
Project: TCLP'S
Site: None
Lab ID: IFO-004 Leachate
Episode: IFO
Sample Qu:
Description: None
Matrix: Other
% Moisture: n/a
Method: Leachate SW 8270 TCLP Semivolatile Organics
Batch: 22980
Units: mg/l

Prep Factor: 1.00 **Leached:** 7/15/97 **Prepared:** 16-Jul-97 **Analyzed:** 19-Jul-97 3:04 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND	C3	0.0400	7.50
51-28-5	2,4-Dinitrotoluene	1	ND	C3	0.0400	0.130
118-74-1	Hexachlorobenzene	1	ND	C3	0.0400	0.130
118-74-1	Hexachlorobutadiene	1	ND	C3	0.0400	0.500
67-72-1	Hexachloroethane	1	ND	C3	0.0400	3.00
95-48-7	2-Methylphenol (o-Cresol)	1	ND	C3	0.0400	200
108-39-4	3-Methylphenol (m-Cresol)	1	ND	C3	0.0400	200
106-44-5	4-Methylphenol (p-Cresol)	1	0.0523	C3	0.0400	200
98-95-3	Nitrobenzene	1	ND	C3	0.0400	2.00
87-86-5	Pentachlorophenol	1	ND	C3	0.100	100
110-86-1	Pyridine	1	ND	C3	0.0400	5.00
95-95-4	2,4,5-Trichlorophenol	1	ND	C3	0.100	400
88-06-2	2,4,6-Trichlorophenol	1	ND	C3	0.0400	2.00

13 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

7/25/97 15:41:23

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: MOLE SIEVE-DHDU
Client: NAVAJO REFINING CO.
Project: TCLP'S
Site: None
Lab ID: IFO-004 Leachate
Episode: IFO
Description: None
Matrix: Other
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	SW 6010	23103	1	1	ND	C3	mg/l	1.00	16-Jul-97	16-Jul-97	15:13 KJR	5.00
Barium	SW 6010	23103	1	1	ND	C3	mg/l	1.00	16-Jul-97	16-Jul-97	15:13 KJR	100
Cadmium	SW 6010	23103	1	1	ND	C3	mg/l	0.100	16-Jul-97	16-Jul-97	15:13 KJR	1.00
Chromium	SW 6010	23103	1	1	ND	C3	mg/l	0.500	16-Jul-97	16-Jul-97	15:13 KJR	5.00
Lead	SW 6010	23103	1	1	ND	C3	mg/l	0.500	16-Jul-97	16-Jul-97	15:13 KJR	5.00
Mercury	SW 7470	23104	1	1	ND	C3	mg/l	0.0002	16-Jul-97	17-Jul-97	16:56 KJR	0.200
Selenium	SW 6010	23103	1	1	ND	C3	mg/l	0.200	16-Jul-97	16-Jul-97	15:13 KJR	1.00
Silver	SW 6010	23103	1	1	ND	C3	mg/l	0.500	16-Jul-97	16-Jul-97	15:13 KJR	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

7/29/97 11:01:41

Report of Laboratory Analysis

Pace Analytical Services, Inc. - New Orleans

Single Sample - Inorganic Parameters

Client ID: MOLE SIEVE-DHDU
Client: NAVAJO REFINING CO.
Project: TCLP'S
Site: None
Lab ID: IFO-004
Episode: IFO
Description: None
Matrix: Other
%Moisture: n/a

ParameterName	Method	Batch	DF	PF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
pH-Corrosivity	SW 9045	23093	1	1	10.5	C3	S.U.			14-Jul-97	DM	
Reactive Cyanide	SW 7.3.3.2	23081	1	1	ND	C3	mg/kg	25.0		15-Jul-97	16:27 LAK	
Reactive Sulfide	SW 7.3.4.2	23081	1	1	ND	C3	mg/kg	50.0	14-Jul-97	15-Jul-97	DM	

3 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. The Prep Factor accounts for a non-routine sample size.
Reporting Limit is corrected for sample size, dilution and moisture content if applicable.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.
For moisture results, wet denotes result is not corrected for moisture and n/a denotes not applicable.

7/25/97 15:43:42

Analytical Results - Conventional Parameters

NAVAJO REFINING CO.

Non-Liquid Ignitability Data Sheet

Prepared Date: NA
Analyzed Date: 7/14/97 @ 1500

Client ID/ Lab ID	Spontaneous Ignition	Ignitable With Moisture	Ignites When Agitated	Burns Vigorously When Lit	Meet Ignitable Characteristic
12-204 SANDFILTER (IFO-001)	No	No	No	No	No
TK1215 SLUDGE (IFO-002)	No	No	No	No	No
SEWER INSERTS (IFO-003)	No	No	No	No	No
MOLE SIEVE-DHDU (IFO-004)	No	No	No	No	No

RCRA Characteristic - Ignitability

For non-liquid samples the EPA methods and guidelines for judging samples as meeting the characteristic of ignitability are ill- defined. For liquid samples, a closed cup flashpoint test is performed and this allows the determination of a flash temperature.

For the non-liquid samples the regulation specifically states:

> "It is not a liquid and is capable, under standard temperature and pressure, of causing fire through friction, absorption of moisture or spontaneous chemical changes and, when ignited, burns so vigorously and persistently that it creates a hazard" and there is no method referenced.

In order to determine whether samples meet this characteristic we have devised the following set of tests, and present the results of each component to our clients. As opposed to the temperature of flashpoint presented for liquid samples, only a YES or NO is provided as final data for the determination of non-liquid Ignitability.

Test Components

A)	sample undergoes spontaneous combustion	YES or NO
B)	sample ignites when moisture added (water)	YES or NO
C)	sample burns vigorously when lit with a flame (open container)	YES or NO
D)	sample ignites when agitated (friction)	YES or NO

Determination:

> If any of the A, B, or D components are YES the sample will be determined as Ignitable. If only C is YES, the sample would still NOT meet the criteria and the sample would be deemed NON IGNITABLE.

If you have any questions with regard to procedures or data, please contact our laboratory.

Pace Analytical Services, Inc. - New Orleans
Laboratory Quality Control Definitions

Our laboratory employs quality control (QC) measures to ensure the quality of our analytical data by defining its accuracy and precision. Presentation of the QC data with the report allows the data user the opportunity to evaluate these results and to gauge the method performance. In order to assist the understanding of these data, routine components of our QC program are defined below.

BATCH - A batch is a group of 20 samples or less of a given matrix and analysis by a specific protocol or analytical method.

BLANK - A method blank is a "clean" laboratory sample carried through the entire analytical process. One or more method blanks are prepared with each batch of samples. The analysis of method blanks demonstrates that method interferences caused by contaminants, reagents and glassware are known and minimized. A method blank should not contain any analytes of interest above the reporting limit. There are method allowances for common laboratory artifacts such as methylene chloride, acetone and bis-2-ethylhexyl phthalate.

LABORATORY CONTROL SPIKE - A laboratory control spike (LCS or blank spike) is a blank which has been spiked with known concentrations of target analytes. The LCS is carried through the entire analytical process. One or more LCS are prepared with each batch of samples. The percent recovery of the spiked analytes provides a measure of the accuracy of the analytical process in the absence of matrix effects.

MATRIX SPIKE - A matrix spike (MS) is a client sample which is spiked with known concentrations of target analytes. The MS is carried through the entire analytical process. One or more matrix spikes are prepared with every batch of samples. For organic methods, a matrix spike duplicate (MSD) is also prepared. The percent recovery of the spiked analytes provides a measure of the method accuracy in the selected sample and matrix.

DUPLICATE - A duplicate is a sample for which replicate aliquouts are carried through the entire analytical process. Comparison of the original results to those of the duplicate results provides a measure of the method precision in the sample and matrix. By convention, precision is measured for inorganic analyses using a sample and a sample duplicate, whereas for organics analyses, an MS/MSD are used.

SURROGATE - A surrogate is a non-target analyte which is added to all samples and QC samples prior to extraction or analysis. The percent recovery of the surrogate provides a measure of the method accuracy in each sample tested. Surrogates are used for organics methods only.

QC LIMITS - QC limits specify the expected percent recovery range for a spiked compound. QC limits may be set by method criteria or calculated from laboratory generated data. For many methods, these limits are advisory and do not require corrective action if exceeded.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: IFO

Method: Leachate GC/MS Volatile Organics Batch: 23197 Units: mg/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup %RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Benzene	0.500	105		0.200	88	93	6	1-200	0-200	25	
2-Butanone (Methyl ethyl ketone)	0.500	144		0.200	106	112	6	1-200	0-200	25	
Carbon tetrachloride	0.500	113		0.200	90	99	10	1-200	0-200	25	
Chlorobenzene	0.500	101		0.200	111	114	3	1-200	0-200	25	
Chloroform	0.500	100		0.200	95	102	7	1-200	0-200	25	
1,2-Dichloroethane (Ethylene dichloride)	0.500	127		0.200	95	103	8	1-200	0-200	25	
1,1-Dichloroethene (Dichloroethylene)	0.500	95		0.200	24	27	12	1-200	0-200	25	
Tetrachloroethene (Perchloroethylene)	0.500	95		0.200	112	113	1	1-200	0-200	25	
Trichloroethene (Trichloroethylene)	0.500	106		0.200	97	101	4	1-200	0-200	25	
Vinyl chloride (Chloroethene)	0.500	90		0.200				1-200	0-200	25	N

10 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: IFO

Method: Leachate GC/MS Semivolatile Organics Batch: 22980 Units: mg/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup %RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.100	69		0.100	56	68	19	1-200	0-200	25	
2,4-Dinitrotoluene	0.100	79		0.100	72	79	9	1-200	0-200	25	
Hexachlorobenzene	0.100	87		0.100	77	90	16	1-200	0-200	25	
Hexachlorobutadiene	0.100	80		0.100	70	88	23	1-200	0-200	25	
Hexachloroethane	0.100	65		0.100	58	66	13	1-200	0-200	25	
2-Methylphenol (o-Cresol)	0.300	75		0.300	69	77	11	1-200	0-200	25	
3-Methylphenol (m-Cresol)	0.300	88		0.300	76	88	15	0-200	0-200	25	
4-Methylphenol (p-Cresol)	0.300	88		0.300	76	88	15	1-200	0-200	25	
Nitrobenzene	0.100	83		0.100	67	82	20	1-200	0-200	25	
Pentachlorophenol	0.300	97		0.300	88	97	10	1-200	0-200	25	
Pyridine	0.100	66		0.100	65	74	13	1-200	0-200	25	
2,4,5-Trichlorophenol	0.300	82		0.300	75	83	10	1-200	0-200	25	
2,4,6-Trichlorophenol	0.300	86		0.300	72	83	14	1-200	0-200	25	

13 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: IFO

Method: Leachate GC/MS Semivolatile Organics Batch: 23112 Units: mg/l

Parameter Name	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup %RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
1,4-Dichlorobenzene (p-Dichlorobenzene)	0.100	62		0.100	57	61	7	1-200	0-200	25	
2,4-Dinitrotoluene	0.100	69		0.100	73	68	7	1-200	0-200	25	
Hexachlorobenzene	0.100	92		0.100	82	80	2	1-200	0-200	25	
Hexachlorobutadiene	0.100	62		0.100	64	59	8	1-200	0-200	25	
Hexachloroethane	0.100	15		0.100	55	13	124 *	1-200	0-200	25	
2-Methylphenol (o-Cresol)	0.300	80		0.300	71	75	5	1-200	0-200	25	
3-Methylphenol (m-Cresol)	0.300	77		0.300	69	70	1	0-200	0-200	25	
4-Methylphenol (p-Cresol)	0.300	77		0.300	69	70	1	1-200	0-200	25	
Nitrobenzene	0.100	75		0.100	71	74	4	1-200	0-200	25	
Pentachlorophenol	0.300	83		0.300	86	70	21	1-200	0-200	25	
Pyridine	0.100	91		0.100	77	77	0	1-200	0-200	25	
2,4,5-Trichlorophenol	0.300	81		0.300	73	77	5	1-200	0-200	25	
2,4,6-Trichlorophenol	0.300	78		0.300	68	76	11	1-200	0-200	25	

13 compound(s) reported

* denotes recovery outside of QC limits.
MS spike concentrations are not corrected for moisture content of the spiked sample.

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: IFO

Method: Leachate GC/MS Volatile Organics **Batch:** 23197

Lab ID	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
23197B1M02	91	97	91					
23197B1M25	102	99	93					
23197MS	99	103	94					
23197MSD	103	101	93					
23197SK25	110	94	95					
IFO-005	104	100	101					
IFO-006	108	98	86					
IFO-007	103	100	86					
IGD-005	103	105	113					
IGF-001	98	108	109					
IGF-002	105	100	86					
IGH-001	101	103	139 *					
IGH-001RE	104	104	112					
IGO-001	94	106	106					
IGQ-001	93	97	93					
IGQ-002	108	99	90					
IIE-001	98	106	103					
QC limits:	**88 - 110**	**86 - 115**	**86 - 118**					

Sur 1: SS Toluene-d8
Sur 2: SS 4-Bromofluorobenzene
Sur 3: SS Dibromofluoromethane

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an exception.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: IFO

Method: Leachate GC/MS Semivolatile Organics **Batch:** 22980

Lab ID	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
22980B1	73	66	90	71	67	87		
22980B10	79	78	69	82	82	78		
22980B2	90	81	91	88	82	92		
22980B3	81	77	77	78	81	71		
22980B4	84	76	84	81	81	73		
22980B5	72	68	74	66	61	68		
22980B6	77	66	77	72	66	71		
22980B7	79	70	77	73	70	72		
22980B8	74	66	77	56	75	79		
22980B9	75	67	72	70	69	72		
22980MS	69	65	77	76	71	80		
22980MSD	88	74	95	87	86	94		
22980S1	89	73	87	84	81	84		
IAZ-001	87	75	89	84	80	88		
IBK-001	178 D	66	81	3	27	70		
IBK-001RE	158 D	71	83	4	45	61		
IBT-001	80	74	97	73	67	86		
IBU-001	54	61	83	58	44	82		
ICD-001	86	74	95	82	79	91		
ICD-002	87	71	93	82	78	84		
ICD-003	79	66	86	79	73	82		
ICL-001	81	86	79	76	74	75		
ICW-001	78	86	86	89	88	85		
ICW-002	76	77	90	80	78	80		
IDC-001	68	62	76	65	59	72		
IDL-001	80	66	77	77	75	77		
IDT-001	78	67	80	75	74	74		
IDW-002	83	51	54	67	62	65		
IEI-001	37	33 *	38	35	32	33		
IFA-001	59	56	54	56	43	67		
IFA-002	0 D	0 D	0 D	0 D	0 D	0 D		
IFK-001	63	55	61	63	53	65		
IFO-002	79	69	80	81	74	83		
IFO-003	79	73	76	82	88	88		
IFO-003DL	77	70	80	77	72	87		
IFO-004	81	68	72	80	79	83		

*** denotes surrogate recovery outside of QC limits.**
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an excursion.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

7/25/97 15:45:11

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: IFO

Method: Leachate GC/MS Semivolatile Organics Batch: 22980

Lab ID	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
QC limits:	35 - 114	43 - 116	33 - 141	1 - 105	1 - 112	1 - 115		

Sur 1: SS Nitrobenzene-d5
Sur 2: SS 2-Fluorobiphenyl
Sur 3: SS Terphenyl-d14
Sur 4: SS Phenol-d5
Sur 5: SS 2-Fluorophenol
Sur 6: SS 2,4,6-Tribromophenol

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an exception.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

7/25/97 15:45:11

Report of Batch Surrogate Recovery

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Episode: IFO

Method: Leachate GC/MS Semivolatile Organics **Batch:** 23112

Lab ID	Sur 1 %Rec	Sur 2 %Rec	Sur 3 %Rec	Sur 4 %Rec	Sur 5 %Rec	Sur 6 %Rec	Sur 7 %Rec	Sur 8 %Rec
23112B1	74	63	74	71	72	75		
23112B2	87	83	89	83	87	87		
23112B3	90	79	92	91	99	91		
23112MS	73	69	88	82	72	90		
23112MSD	76	61	72	75	75	76		
23112S1	74	64	75	78	79	82		
IFO-001	72	63	71	70	69	77		
IGD-005	84	92	90	80	86	98		
IGO-001	93	74	90	91	95	92		
IGQ-001	85	74	92	86	90	97		
IGQ-002	81	69	86	83	87	94		
QC limits:	35 - 114	43 - 116	33 - 141	1 - 105	1 - 112	1 - 115		

Sur 1: SS Nitrobenzene-d5
Sur 2: SS 2-Fluorobiphenyl
Sur 3: SS Terphenyl-d14
Sur 4: SS Phenol-d5
Sur 5: SS 2-Fluorophenol
Sur 6: SS 2,4,6-Tribromophenol

* denotes surrogate recovery outside of QC limits.
D denotes surrogate recovery is outside of QC limits due to sample dilution, and is not considered an exception.
A Lab ID consisting of a batch number with a B suffix is a method blank.
A Lab ID consisting of a batch number with a S suffix is an LCS.
A Lab ID with a MS suffix is a matrix spike.
A Lab ID with a MSD suffix is a matrix spike duplicate.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 23197B1M02 TCLP Leachate

Description: Leachate Method Blank **Episode:** IFO **% Moisture:** n/a

Method: Leachate GC/MS Volatile Organics **Batch:** 23197 **Units:** mg/l

Prep Factor: 1 **Leached:** 7/1/97 **Prepared:** **Analyzed:** 02-Jul-97 20:17 KC

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
71-43-2	Benzene	1	ND	C3	0.0500
78-93-3	2-Butanone (Methyl ethyl ketone)	1	ND	C3	0.100
56-23-5	Carbon tetrachloride	1	ND	C3	0.0500
108-90-7	Chlorobenzene	1	ND	C3	0.0500
67-66-3	Chloroform	1	ND	C3	0.0500
107-06-2	1,2-Dichloroethane (Ethylene dichloride)	1	ND	C3	0.0500
75-35-4	1,1-Dichloroethene (Dichloroethylene)	1	ND	C3	0.0500
127-18-4	Tetrachloroethene (Perchloroethylene)	1	ND	C3	0.0500
79-01-6	Trichloroethene (Trichloroethylene)	1	ND	C3	0.0500
75-01-4	Vinyl chloride (Chloroethene)	1	ND	C3	0.100

10 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 22980B1 TCLP Leachate

Description: Leachate Method Blank **Episode:** IFO **% Moisture:** n/a

Method: Leachate GC/MS Semivolatile Organics **Batch:** 22980 **Units:** mg/l

Prep Factor: 1 **Leached:** 7/2/97 **Prepared:** 03-Jul-97 **Analyzed:** 07-Jul-97 21:03 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND	C3	0.0400
51-28-5	2,4-Dinitrotoluene	1	ND	C3	0.0400
118-74-1	Hexachlorobenzene	1	ND	C3	0.0400
118-74-1	Hexachlorobutadiene	1	ND	C3	0.0400
67-72-1	Hexachloroethane	1	ND	C3	0.0400
95-48-7	2-Methylphenol (o-Cresol)	1	ND	C3	0.0400
108-39-4	3-Methylphenol (m-Cresol)	1	ND	C3	0.0400
106-44-5	4-Methylphenol (p-Cresol)	1	ND	C3	0.0400
98-95-3	Nitrobenzene	1	ND	C3	0.0400
87-86-5	Pentachlorophenol	1	ND	C3	0.100
110-86-1	Pyridine	1	ND	C3	0.0400
95-95-4	2,4,5-Trichlorophenol	1	ND	C3	0.100
88-06-2	2,4,6-Trichlorophenol	1	ND	C3	0.0400

13 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Method Blank

Pace Analytical Services, Inc. - New Orleans

Organic Protocol - Single Batch

Lab ID: 23112B1 TCLP Leachate

Description: Leachate Method Blank **Episode:** IFO **% Moisture:** n/a

Method: Leachate GC/MS Semivolatile Organics **Batch:** 23112 **Units:** mg/l

Prep Factor: 1 **Leached:** 7/15/97 **Prepared:** 16-Jul-97 **Analyzed:** 21-Jul-97 19:50 JA

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit
106-46-7	1,4-Dichlorobenzene (p-Dichlorobenzene)	1	ND	C3	0.0400
51-28-5	2,4-Dinitrotoluene	1	ND	C3	0.0400
118-74-1	Hexachlorobenzene	1	ND	C3	0.0400
118-74-1	Hexachlorobutadiene	1	ND	C3	0.0400
67-72-1	Hexachloroethane	1	ND	C3	0.0400
95-48-7	2-Methylphenol (o-Cresol)	1	ND	C3	0.0400
108-39-4	3-Methylphenol (m-Cresol)	1	ND	C3	0.0400
106-44-5	4-Methylphenol (p-Cresol)	1	ND	C3	0.0400
98-95-3	Nitrobenzene	1	ND	C3	0.0400
87-86-5	Pentachlorophenol	1	ND	C3	0.100
110-86-1	Pyridine	1	ND	C3	0.0400
95-95-4	2,4,5-Trichlorophenol	1	ND	C3	0.100
88-06-2	2,4,6-Trichlorophenol	1	ND	C3	0.0400

13 compound(s) reported

ND denotes Not Detected at or above the reporting limit.
DF denotes Dilution Factor.
RL denotes sample Reporting Limit.
Qu lists qualifiers. Specific qualifiers are defined at the end of the report.

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Multiple Parameters - Multiple Batches

Episode: IFO

Parameter Name	Batch	Blank	Units	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup %RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
Arsenic	23103	ND	mg/l	5.00	91		5.00	94		0	80-120	50-150	100	
Barium	23103	ND	mg/l	5.00	95		5.00	90		4	80-120	50-150	47	
Cadmium	23103	ND	mg/l	1.00	97		1.00	88		0	80-120	50-150	100	
Chromium	23103	ND	mg/l	5.00	95		5.00	91		0	80-120	50-150	100	
Copper	23103	ND	mg/l	1.00	121 *		1.00	90		0	80-120	50-150	100	Q4
Lead	23103	ND	mg/l	5.00	98		5.00	86		4	80-120	50-150	20	
Nickel	23103	ND	mg/l	1.00	102		1.00	95		5	80-120	50-150	30	
Selenium	23103	ND	mg/l	1.00	89		1.00	91		0	80-120	50-150	100	
Silver	23103	ND	mg/l	1.00	95		1.00	91		0	80-120	50-150	100	
Zinc	23103	ND	mg/l	1.00	103		1.00	135		4	80-120	50-150	20	
Mercury	23104	ND	mg/l	0.0010	99		0.0010	102		0	80-120	50-150	100	Q1

Report of Quality Control

Pace Analytical Services, Inc. - New Orleans

Multiple Parameters - Multiple Batches

Episode: IFO

Parameter Name	Batch	Blank	Units	LCS Spike	LCS %Rec	LCSD %Rec	MS Spike	MS %Rec	MSD %Rec	Dup %RPD	QC Limits LCS	QC Limits MS/MSD	RPD Max	Qu
pH-Corrosivity	23093	ND	S.U.	6.00	101					0	99-101		20	
Reactive Cyanide	23081	ND	mg/kg	100	17		100	19		0	1-30	0-30	100	
Reactive Sulfide	23081	ND	mg/kg	400	92		390	81		0	80-120	75-125	20	

=(Count([ParaCode])) -" parameter(s) reported"
* denotes recovery outside of QC limits.
Spike amounts are not corrected for moisture content of the spiked sample.

7/25/97 15:45:39

QA/QC SUMMARY

CONVENTIONAL PARAMETERS

PARAMETER	Matrix/Blank Spike Level	Blank Det'n Limits	Blank Units	Blank Blank Conc.	Spike Recovery (%) Matrix	Spike Recovery (%) Blank	Replicate Precision RPD	QC Batch #
Ignitability	NA/NA	NA	°C	NA	NA	NA	0.0	23092

Report Qualifiers

Pace Analytical Services, Inc. - New Orleans

Single Episode

Episode: IFO

Qualifier	Qualifier Description
C3	The result for this parameter is not corrected for moisture content except for TOCs, which are dried before analysis.
D1	The analysis was performed at a dilution due to the high analyte concentration.
D2	The analysis was performed at a dilution due to the presence of matrix interferences.
Q1	The matrix spike recoveries are poor. Acceptable method performance for this analyte has been demonstrated by the laboratory control sample recovery.
Q4	The laboratory control sample recovery is poor. Acceptable method performance for this analyte has been demonstrated by the matrix spike recovery.

Pace Analytical

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client: Navajo Refining	Report To:	Turn around Time	Pace Client No.
Address: 501 East Main, Artesia NM 88210	Bill To:	☐ 24 Hours	Pace Project Manager
	P.O. # / Billing Reference	☐ 48 Hours	Pace Project No.
		☐ 3-5 Days	
		☐ 1 Week 2 Weeks	
Phone	Project Name / No.	☐ Normal 14 Days	*Requested Due Date:

Sampled By (PRINT): LAURIE MCDANIEL

Sampler Signature: Laurie McDaniel

Date Sampled: 7/11/97

Rec'd 5/30/97
5 sets sent

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH	$Na_2S_2O_3$	TCLP-VOA	TCLP-SVOA	RCI							REMARKS
1	D-304 Sandfilter	14:05	Sand		3	3						X	X	X							
2	TK 1215 Sludge	14:10	Sludge		3	3						X	X	X							
3	Sewer Inserts	14:15	Sludge		3	3						X	X	X							
4	Mole Sieve - DHDU	14:10	Catalyst		3	3						X	X	X							
5																					
6																					
7																					
8																					

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT/DATE	SHIPMENT METHOD RETURNED/DATE
588		Fed Ex 7/11/97	

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Laurie McDaniel NAVASO FEDEX	7/11/97	16:15	FEDEX Anne Webster / Pace	7-14-97	0930

Additional Comments

Fill 3 containers per sample
TK 1215 sludge
~~Mole Sieve~~ & D-304 Sandfilter
are from Lovington

SAMPLE CONDITION

Temp: 24 °C	Received on Ice: Y / N	Sealed Cooler: Y / N	Samples Intact: Y / N	pH ___

SEE REVERSE SIDE FOR INSTRUCTIONS

Controlled Recovery, Inc.
P.O. Box 388 Hobbs, NM 88241
Phone: (505)393-1079 Fax: (505)393-3615

CRI

To:	MARTYNE J. KIELING	**From:**	KEN MARSH
Fax:	(505) 827-8177	**Pages:**	3, INCLUDING COVER
Phone:		**Date:**	3-8--00
Re:	LETTER FROM BRYAN MADRID/NAVAJO	**CC:**	

☐ **Urgent** X **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:** **MARTYNE, PLEASE CALL ME ABOUT THIS.**

THANKS, KEN

NAVAJO REFINING COMPANY
P.O. BOX 159
501 E. MAIN STREET

ARTESIA, NEW MEXICO 88210
PHONE: (505) 748-3311
FAX: (505) 748-9077

FAX COVER SHEET

SENDING TO: NAME: **KATH HARPER**

ORGANIZATION/FIRM: **CONTROLLED RECOVERY, INC.**

FAX #: **(505) 393-3615**

SENDING FROM: NAME: Bryan Madrid

DATE: March 8, 2000

NO. OF PAGES (INCLUDING COVER PAGE): 3

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL EXT. 362.

Kath,

Attached is the information we discussed. Please have Ken call me when he gets a chance.

Thanks,

Bryan

TELEPHONE
(505) 748-3311

EASYLINK
62905278

NAVAJO 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

March 8, 2000

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

Dear Mr. Marsh:

I did some investigating as to why the mole sieve I was trying to profile into you facility was denied. As it turns out, it was also rejected the first time because it arrived unpreserved. To remedy this problem, a second sample was sent to Pace Analytical for the required analysis. Enclosed, you will find the letter that was sent to explain the previous situation and the chain of custody for the second sample. Hopefully this will clear up any problems and this waste can be approved as soon as possible.

If there are anymore questions, please call me at (505) 748-3311.

Sincerely,

Bryan Madrid

Bryan Madrid
Environmental Specialist

Encl.

file: CRI 2000

CRI

TELEPHONE
(505) 748-3311

EASYLINK
62905278

Navajo 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

August 27, 1997

Billie Charo
Office Manager
Controlled Recovery Inc.
P.O. Box 369
Hobbs, NM 88241

Dear Billie:

Earlier this month, I sent Ken Marsh a letter trying to get Mole Sieve from our Navajo Refining Plant profiled into CRI. It was denied on the basis that the sample was received at a temperature of 24 degrees C. The first sample of Mole Sieve did arrive warm so on the advice of Pace Analysis, a new sample was sent a few days later that arrived at 1 degree C. Only the TCLP Volatiles were run on the second sample as we feel the lack of ice shouldn't affect the metals, semi-volatiles, or RCI results. In order to hopefully resolve this problem, I have enclosed the chain of custody for the second sample.

On August 1, 1997, I sent Ken Marsh another letter trying to get wastes from our Lea Refining Plant profiled into CRI. Just as above, these samples weren't received the following day. I sent the wrong chain of custody for the TCLP Volatiles analysis for D-204 Sandfilter and Tank 1215. I have enclosed the correct chain of custody that has the required receiving information on it. This issue was not addressed previously, but in order to avoid a future problem, I am sending it to you now.

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

Sincerely,

Bryan Madrid

Bryan Madrid
Environmental Specialist

Encl.

Pace Analytical

CHAIN-OF-CUSTODY RECORD
Analytical Request

03/08/00 15:37 ☎5053933615
03/08/00 WED 14:15 FAX 7489077

ent NAVAJO REFINING	Report To:	Turn around Time	Pace Client No.
ldress 501 E. MAIN	Bill To:	☐ 24 Hours	Pace Project Manager
ARTESIA, NM 8821	P.O. # / Billing Reference	☐ 48 Hours	Pace Project No.
one	Project Name / No.	☐ 3-5 Days	*Requested Due Date:
		☐ 1 Week 2 Weeks	
		☐ Normal 14 Days	

mpled By (PRINT): BRYAN MADRID

er Signature: Bryan Madrid — Date Sampled: 7-16-97 ✓

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	VOA (HCL)	NaOH	$Na_2S_2O_3$	ANALYSES REQUEST: TCLP-VOA	TCLP-SVOA	RCI								REMARKS
1	D-204 SANDFILLER	8:35	SAND		1	1						X										
2	TK 1215 SLUDGE	8:10	SLUDGE		1	1						X										
3	MOLE-SIEVE-DHDU	9:20	CATALYST		1	1						X										
4	(NAD) NAPHTA DITCH	8:45	SLUDGE		3	3						X	X	X								
5	TK 1201 E CRUDE BTMS.	8:55	SLUDGE		3	3						X	X	X								
6																						
8																						

COOLER NOS.	BAILERS	SHIPMENT METHOD OUT/DATE	RETURNED/DATE
		FED EX 7/16/97	

ITEM NUMBER	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Bryan Madrid / NAVAJO FEDEX	7/16/97	16:15	FEDEX Annie Webster / PACE	7-17-97	0850

ditional Comments

ALL FROM LOVINGTON
EXCEPT MOLE SIEVE

SAMPLE CONDITION

Temp: 1 °C	Received on Ice: (Y) / N	Sealed Cooler: (Y) / N	Samples Intact: (Y) / N	pH

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

CRI ENGINEERING

005
004

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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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
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Oil Conservation Division
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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 NEW MEXICO
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:

04-002

ASPHALT SAMPLE CANS. 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. THIS WASTE HAS BEEN APPROVED IN THE PAST. I AM ENCLOSING A CERTIFICATE OF WASTE STATUS AND COPY OF PREVIOUS C-138 PER MARTYNE KIELING'S INSTRUCTIONS.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 4-6-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. 505-303-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Eng. Specialist DATE: 4-7-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4-10-00

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 Incorportated**

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: 4/3/00

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

Hydrocarbon Contaminated soil, D-342 catalyst, D-759 catalyst and asphalt sample cans. See attached Certificate of Waste Status, analysis and Chain of custody and Navajo lettered [illegible]

04-29 6099
15 4-29 6106

15-4-29 6106
all

04-002

1) Hydrocarbon Cont. Soil
60 yards

2) D-345 Catalyst
15 yards

3) D-759 (carbon filter) catalyst
10 yards

4) Asphalt sample cans
10 drums

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

SIGNATURE: K Marsh TITLE: Manager DATE: 4-14-99
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. 505-393-1079

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Eng. DATE: 4-19-99

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 4-15-99

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P. O. Box 1980
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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 NEW MEXICO
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:

04-001

FCC CATALYST FINES. THESE ARE THE FINE PARTICLES FROM CATALYST COLLECTED IN THE CYCLONES AT THE FCC UNIT DURING THE REGENERATION PROCESS. THIS WASTE HAS BEEN APPROVED IN THE PAST. I AM ENCLOSING A CERTIFICATE OF WASTE STATUS AND COPY OF PREVIOUS C-138 PER MARTYNE KIELING'S INSTRUCTIONS.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 4-6-00
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: 4-7-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4-10-00

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: **30 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 Incorportated**

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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA,NM 88210

DATE:

Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining C
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site 501 E. Main Artesia, NM
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	

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:

Sewer insert solids, Vacuum tower (W-62) scale and pall rings and FCC cat fines . See attached Certificate of Waste Status, NMED letter, Navajo letter, analysis and Chain of custody.

Used 4-19-99 6078 all-

03-005

Used 4-13-99 6067 all

SEWER INSERT SOLIDS
(40) 55 gallon drums
(1) rolloff bin w/ 15 yds.

VACUUM TOWER (W-62)
SCALE & PALL RINGS
(10) Drums

MSDS Submitted 10-2-98 Approved C-138 mjK
FCC CAT FINES
(30) Supersacks

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

SIGNATURE: K Marsh TITLE: Manager DATE: 3-24-99
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: Environmental Eng DATE: 4-5-99

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 3-26-99

District I - (505) 393-6161
P. O. Box 1980
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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 BES
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	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:

05-002 3-363 CATALYST. CATALYST STRIPS HYDROGEN CHLORIDE FROM REFORMATE IN THE CONTINUOUS CATALYTIC REGENERATION (CCR) REFORMER UNIT. I AM ENCLOSING ANALYTICAL DATA, NON-EXEMPT CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.

30 YARDS

05-003 HYDROCARBON CONTAMINATED SOIL. SOIL GENERATED DURING THE CLEANUP OF SMALL SP AROUND NAVAJO'S ARTESIA PLANT. I AM ENCLOSING ANALYTICAL DATA NON-EXEMPT CERTIFICATE OF AND CHAIN OF CUSTODY.

150 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: 5-10-00
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. Engineer Specialist DATE: 05-12-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 05-18-00

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: **150 yards**

GENERATING PROCESS: **Soil generated during the cleanup of small spills around Navajo's Artesia plant.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Brinninstool Equipment Sales**

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: 5/5/00

TRACEANALYSIS, 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

April 24, 2000
Receiving Date: 04/13/2000
Sample Type: Soil
Project No: NA
Project Location: NA

Extraction Date: 04/17/2000
Analysis Date: 04/18/2000
Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T144452 Contam. Soil	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	116	2	93	116
1,1-Dichloroethene	0.70	0.05	ND	120	2	127	120
Methyl Ethyl Ketone	200.0	0.5	ND	108	20	92	108
Chloroform	6.00	0.05	ND	104	1	116	104
1,2-Dichloroethane	0.50	0.05	ND	107	1	116	107
Benzene	0.50	0.05	ND	105	3	108	105
Carbon Tetrachloride	0.50	0.05	ND	105	2	115	105
Trichloroethene	0.50	0.05	ND	112	2	111	112
Tetrachloroethene	0.70	0.05	ND	115	2	108	115
Chlorobenzene	100.00	0.05	ND	103	2	106	103
1,4-Dichlorobenzene	7.50	0.05	ND	99	0	104	99

SURROGATES	**% Recovery**
Dibromofluoromethane	104
Toluene-d8	99
4-Bromofluorobenzene	92

ND = Not Detected

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

Director, Dr. Blair Leftwich

4-24-00
DATE

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	16.82	1	80	21	20 - 67	BP	PB01859	QC02226
Phenol-d5	13.59	1	80	17	7 - 55	BP	PB01859	QC02226
Nitrobenzene-d5	40.50	1	80	51	33 - 116	BP	PB01859	QC02226
2-Fluorobiphenyl	47.49	1	80	59	47 - 107	BP	PB01859	QC02226
2,4,6-Tribromophenol	35.85	1	80	45	47 - 113	BP	PB01859	QC02226
Terphenyl-d14	46.77	1	80	58	47 - 124	BP	PB01859	QC02226

Sample Number: 144452
Description: Contam Soil

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
o-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
m,p-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
Hexachloroethane	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
Nitrobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
2,4-D	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
Hexachlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
2,4,5-TP	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
Pentachlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	22.36	1	80	28	20 - 67	BP	PB01859	QC02227
Phenol-d5	16.58	1	80	21	7 - 55	BP	PB01859	QC02227
Nitrobenzene-d5	48.19	1	80	60	33 - 116	BP	PB01859	QC02227
2-Fluorobiphenyl	53.49	1	80	67	47 - 107	BP	PB01859	QC02227
2,4,6-Tribromophenol	47.88	1	80	60	47 - 113	BP	PB01859	QC02227
Terphenyl-d14	43.72	1	80	55	47 - 124	BP	PB01859	QC02227

TRACEANALYSIS, 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

April 24, 2000
Receiving Date: 04/13/2000
Sample Type: Soil
Project No: NA
Project Location: NA

Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TCLP METALS (mg/L)

TA#	Field Code	Ag	As	Ba	Cd	Cr	Pb	Se	Hg
	EPA LIMIT =	5.0	5.0	100.0	1.0	5.0	5.0	1.0	0.20
T144452	Contam. Soil	<0.05	<0.10	0.31	<0.02	<0.05	<0.10	<0.10	<0.010
ICV		0.200	1.00	1.03	1.02	1.02	1.01	0.97	0.00540
CCV		0.198	0.98	1.00	0.98	1.00	0.99	0.96	0.00538
Reporting Limit		0.05	0.10	0.10	0.02	0.05	0.10	0.10	0.010
RPD		1	2	1	1	1	1	1	0
% Extraction Accuracy		75	100	98	98	99	94	91	109
% Instrument Accuracy		99	98	100	98	100	99	96	108
EXTRACTION DATE		04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/17/2000
ANALYSIS DATE		04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/19/2000

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: JM
METHODS: EPA SW 846-1311, 6010B, 7470A.
TCLP METALS SPIKE: 10 mg/L As, Se, Cd, Cr, Pb, Ba; 4 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.005 mg/L Hg.

Director, Dr. Blair Leftwich

4-24-00
Date

TRACEANALYSIS, 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

April 26, 2000
Receiving Date: 04/13/2000
Sample Type: Soil
Project No: NA
Project Location: NA

Prep Date: 04/26/2000
Analysis Date: 04/26/2000
Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T144452	Contam. Soil	Non-Reactive	<10	<2.5	Non-corrosive	7.26	Nonignitable
QC	Quality Control	---	---	---	---	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: JM

Director, Dr. Blair Leftwich

4-26-00
DATE

TRACEANALYSIS, 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

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

Report Date: 4/24/00

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

Order ID Number: A00041309

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
144450	Sewer Inserts	Sludge	4/12/00	13:30	4/13/00
144451	DAF	Sludge	4/12/00	14:00	4/13/00
144452	Contam Soil	Soil	4/12/00	14:15	4/13/00

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 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
1,4-Dichlorobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
o-Cresol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
m,p-Cresol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachloroethane (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Nitrobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachlorobutadiene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,6-Trichlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,5-Trichlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4-Dinitrotoluene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4-D (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachlorobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,5-TP (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Pentachlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	23.60	80	30	20 - 67	QC02226
Phenol-d5 (mg/Kg)	20.79	80	26	7 - 55	QC02226
Nitrobenzene-d5 (mg/Kg)	50.77	80	63	33 - 116	QC02226
2-Fluorobiphenyl (mg/Kg)	54.33	80	68	47 - 107	QC02226
2,4,6-Tribromophenol (mg/Kg)	43.24	80	54	47 - 113	QC02226
Terphenyl-d14 (mg/Kg)	49.06	80	61	47 - 124	QC02226

Pyridine (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
1,4-Dichlorobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
o-Cresol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
m,p-Cresol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachloroethane (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Nitrobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachlorobutadiene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,6-Trichlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,5-Trichlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4-Dinitrotoluene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4-D (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachlorobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,5-TP (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Pentachlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	23.60	80	30	20 - 67	QC02227
Phenol-d5 (mg/Kg)	20.79	80	26	7 - 55	QC02227
Nitrobenzene-d5 (mg/Kg)	50.77	80	63	33 - 116	QC02227
2-Fluorobiphenyl (mg/Kg)	54.33	80	68	47 - 107	QC02227
2,4,6-Tribromophenol (mg/Kg)	43.24	80	54	47 - 113	QC02227
Terphenyl-d14 (mg/Kg)	49.06	80	61	47 - 124	QC02227

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	Pyridine (mg/L)	<0.05	1	80	29.04	36		0 - 92	-	QC02226
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	48.29	60		39 - 87	-	QC02226
LCS	o-Cresol (mg/L)	<0.05	1	80	40.22	50		41 - 92	-	QC02226
LCS	m,p-Cresol (mg/L)	<0.05	1	160	73.40	46		7 - 127	-	QC02226
LCS	Hexachloroethane (mg/L)	<0.05	1	80	46.23	58		35 - 85	-	QC02226
LCS	Nitrobenzene (mg/L)	<0.05	1	80	55.05	69		43 - 108	-	QC02226
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	48.49	61		38 - 89	-	QC02226
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.07	66		47 - 107	-	QC02226
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	52.86	66		49 - 105	-	QC02226
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	50.97	64		49 - 105	-	QC02226
LCS	2,4-D (mg/L)	<0.05	1	80	63.15	79		0 - 127	-	QC02226
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	61.83	77		47 - 122	-	QC02226
LCS	2,4,5-TP (mg/L)	<0.05	1	80	69.47	87		0 - 130	-	QC02226
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	44.58	56		33 - 99	-	QC02226

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	22.96	29	20 - 67	QC02226
LCS	Phenol-d5 (mg/Kg)	1	80	16.56	21	7 - 55	QC02226
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	50.96	64	33 - 116	QC02226
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	55.06	69	47 - 107	QC02226
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	45.24	57	47 - 113	QC02226
LCS	Terphenyl-d14 (mg/Kg)	1	80	48.53	61	47 - 124	QC02226

LCSD	Pyridine (mg/L)	<0.05	1	80	27.07	34	7	-	0 - 20	QC02226
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	46.09	58	5	-	0 - 20	QC02226
LCSD	o-Cresol (mg/L)	<0.05	1	80	41.88	52	4	-	0 - 20	QC02226
LCSD	m,p-Cresol (mg/L)	<0.05	1	160	76.89	48	5	-	0 - 20	QC02226
LCSD	Hexachloroethane (mg/L)	<0.05	1	80	43.60	55	6	-	0 - 20	QC02226
LCSD	Nitrobenzene (mg/L)	<0.05	1	80	52.96	66	4	-	0 - 20	QC02226
LCSD	Hexachlorobutadiene (mg/L)	<0.05	1	80	45.56	57	6	-	0 - 20	QC02226
LCSD	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.60	67	1	-	0 - 20	QC02226
LCSD	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	53.99	67	2	-	0 - 20	QC02226
LCSD	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	52.02	65	2	-	0 - 20	QC02226
LCSD	2,4-D (mg/L)	<0.05	1	80	66.18	83	5	-	0 - 20	QC02226
LCSD	Hexachlorobenzene (mg/L)	<0.05	1	80	63.17	79	2	-	0 - 20	QC02226
LCSD	2,4,5-TP (mg/L)	<0.05	1	80	75.17	94	8	-	0 - 20	QC02226
LCSD	Pentachlorophenol (mg/L)	<0.05	1	80	46.98	59	5	-	0 - 20	QC02226

N/A N/A N/A

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	23.12	29	20 - 67	QC02226
LCSD	Phenol-d5 (mg/Kg)	1	80	17.75	22	7 - 55	QC02226
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.52	63	33 - 116	QC02226
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	53.42	67	47 - 107	QC02226
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	45.30	57	47 - 113	QC02226
LCSD	Terphenyl-d14 (mg/Kg)	1	80	50.24	63	47 - 124	QC02226

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Pyridine (mg/L)	<0.05	1	80	29.04	36		0 - 92	-	QC02227
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	48.29	60		39 - 87	-	QC02227
LCS	o-Cresol (mg/L)	<0.05	1	80	40.22	50		41 - 92	-	QC02227
LCS	m,p-Cresol (mg/L)	<0.05	1	160	73.40	46		7 - 127	-	QC02227
LCS	Hexachloroethane (mg/L)	<0.05	1	80	46.23	58		35 - 85	-	QC02227
LCS	Nitrobenzene (mg/L)	<0.05	1	80	55.05	69		43 - 108	-	QC02227
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	48.49	61		38 - 89	-	QC02227
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.07	66		47 - 107	-	QC02227
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	52.86	66		49 - 105	-	QC02227
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	50.97	64		49 - 105	-	QC02227
LCS	2,4-D (mg/L)	<0.05	1	80	63.15	79		0 - 127	-	QC02227
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	61.83	77		47 - 122	-	QC02227
LCS	2,4,5-TP (mg/L)	<0.05	1	80	69.47	87		0 - 130	-	QC02227
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	44.58	56		33 - 99	-	QC02227

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	22.96	29	20 - 67	QC02227
LCS	Phenol-d5 (mg/Kg)	1	80	16.56	21	7 - 55	QC02227
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	50.96	64	33 - 116	QC02227
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	55.06	69	47 - 107	QC02227
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	45.24	57	47 - 113	QC02227
LCS	Terphenyl-d14 (mg/Kg)	1	80	48.53	61	47 - 124	QC02227

LCSD	Pyridine (mg/L)	<0.05	1	80	27.07	34	7	-	0 - 20	QC02227
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	46.09	58	5	-	0 - 20	QC02227
LCSD	o-Cresol (mg/L)	<0.05	1	80	41.88	52	4	-	0 - 20	QC02227
LCSD	m,p-Cresol (mg/L)	<0.05	1	160	76.89	48	5	-	0 - 20	QC02227
LCSD	Hexachloroethane (mg/L)	<0.05	1	80	43.60	55	6	-	0 - 20	QC02227
LCSD	Nitrobenzene (mg/L)	<0.05	1	80	52.96	66	4	-	0 - 20	QC02227
LCSD	Hexachlorobutadiene (mg/L)	<0.05	1	80	45.56	57	6	-	0 - 20	QC02227
LCSD	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.60	67	1	-	0 - 20	QC02227
LCSD	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	53.99	67	2	-	0 - 20	QC02227
LCSD	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	52.02	65	2	-	0 - 20	QC02227
LCSD	2,4-D (mg/L)	<0.05	1	80	66.18	83	5	-	0 - 20	QC02227
LCSD	Hexachlorobenzene (mg/L)	<0.05	1	80	63.17	79	2	-	0 - 20	QC02227
LCSD	2,4,5-TP (mg/L)	<0.05	1	80	75.17	94	8	-	0 - 20	QC02227
LCSD	Pentachlorophenol (mg/L)	<0.05	1	80	46.98	59	5	-	0 - 20	QC02227

N/A N/A N/A

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	23.12	29	20 - 67	QC02227
LCSD	Phenol-d5 (mg/Kg)	1	80	17.75	22	7 - 55	QC02227
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.52	63	33 - 116	QC02227
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	53.42	67	47 - 107	QC02227
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	45.30	57	47 - 113	QC02227
LCSD	Terphenyl-d14 (mg/Kg)	1	80	50.24	63	47 - 124	QC02227

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 #
CCV 1	Pyridine (mg/L)		60	56.79	95	0 - 92	4/20/00	QC02226
CCV 1	1,4-Dichlorobenzene (mg/L)		60	60.25	100	39 - 87	4/20/00	QC02226
CCV 1	o-Cresol (mg/L)		60	58.34	97	41 - 92	4/20/00	QC02226
CCV 1	m,p-Cresol (mg/L)		60	58.05	97	7 - 127	4/20/00	QC02226
CCV 1	Hexachloroethane (mg/L)		60	60.04	100	35 - 85	4/20/00	QC02226
CCV 1	Nitrobenzene (mg/L)		60	57.30	96	43 - 108	4/20/00	QC02226
CCV 1	Hexachlorobutadiene (mg/L)		60	59.55	99	38 - 89	4/20/00	QC02226
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.69	99	47 - 107	4/20/00	QC02226
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.83	100	49 - 105	4/20/00	QC02226
CCV 1	2,4-Dinitrotoluene (mg/L)		60	57.62	96	49 - 105	4/20/00	QC02226
CCV 1	2,4-D (mg/L)		60	54.35	91	0 - 127	4/20/00	QC02226
CCV 1	Hexachlorobenzene (mg/L)		60	55.73	93	47 - 122	4/20/00	QC02226
CCV 1	2,4,5-TP (mg/L)		60	50.48	84	0 - 130	4/20/00	QC02226
CCV 1	Pentachlorophenol (mg/L)		60	60.05	100	33 - 99	4/20/00	QC02226
CCV 1	2-Fluorophenol (mg/L)		60	54.95	92	20 - 67	4/20/00	QC02226
CCV 1	Phenol-d5 (mg/L)		60	54.65	91	7 - 55	4/20/00	QC02226
CCV 1	Nitrobenzene-d5 (mg/L)		60	55.70	93	33 - 116	4/20/00	QC02226
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.50	101	47 - 107	4/20/00	QC02226
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.17	94	47 - 113	4/20/00	QC02226
CCV 1	Terphenyl-d14 (mg/L)		60	56.75	95	47 - 124	4/20/00	QC02226

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Pyridine (mg/L)		60	56.79	95	0 - 92	4/20/00	QC02227
CCV 1	1,4-Dichlorobenzene (mg/L)		60	60.25	100	39 - 87	4/20/00	QC02227
CCV 1	o-Cresol (mg/L)		60	58.34	97	41 - 92	4/20/00	QC02227
CCV 1	m,p-Cresol (mg/L)		60	58.05	97	7 - 127	4/20/00	QC02227
CCV 1	Hexachloroethane (mg/L)		60	60.04	100	35 - 85	4/20/00	QC02227
CCV 1	Nitrobenzene (mg/L)		60	57.30	96	43 - 108	4/20/00	QC02227
CCV 1	Hexachlorobutadiene (mg/L)		60	59.55	99	38 - 89	4/20/00	QC02227
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.69	99	47 - 107	4/20/00	QC02227
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.83	100	49 - 105	4/20/00	QC02227
CCV 1	2,4-Dinitrotoluene (mg/L)		60	57.62	96	49 - 105	4/20/00	QC02227
CCV 1	2,4-D (mg/L)		60	54.35	91	0 - 127	4/20/00	QC02227
CCV 1	Hexachlorobenzene (mg/L)		60	55.73	93	47 - 122	4/20/00	QC02227
CCV 1	2,4,5-TP (mg/L)		60	50.48	84	0 - 130	4/20/00	QC02227
CCV 1	Pentachlorophenol (mg/L)		60	60.05	100	33 - 99	4/20/00	QC02227
CCV 1	2-Fluorophenol (mg/L)		60	54.95	92	20 - 67	4/20/00	QC02227
CCV 1	Phenol-d5 (mg/L)		60	54.65	91	7 - 55	4/20/00	QC02227
CCV 1	Nitrobenzene-d5 (mg/L)		60	55.70	93	33 - 116	4/20/00	QC02227

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 #
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.50	101	47 - 107	4/20/00	QC02227
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.17	94	47 - 113	4/20/00	QC02227
CCV 1	Terphenyl-d14 (mg/L)		60	56.75	95	47 - 124	4/20/00	QC02227

144450-52

6701 Aberdeen Avenue, Ste. 9
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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 # A00041309

Company Name: NAVAJO REFINING CO
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
144450	SEWER INSERTS	1	1L				X			X	X	4/12/00	13:30
51	DAF	1	1L				X			X	X	4/12/00	14:00
52	CONTAM. SOIL	1	1L		X					X	X	4/12/00	14:15

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
144450						X	X	X		X							
51						X	X	X		X							
52						X	X	X		X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	4/12/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Hussey	4-13-00	10:00

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 2 °
Log-in Review MM

REMARKS:
4-26-00

Carrier # Fedex 282-5175-114

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

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District I - (505) 393-6161
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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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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 BES
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	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:

05-002 3-363 CATALYST. CATALYST STRIPS HYDROGEN CHLORIDE FROM REFORMATE IN THE CONTINUOUS CATALYTIC REGENERATION (CCR) REFORMER UNIT. I AM ENCLOSING ANALYTICAL DATA, NON-EXEMPT CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.

30 YARDS

05-003 HYDROCARBON CONTAMINATED SOIL. SOIL GENERATED DURING THE CLEANUP OF SMALL SP AROUND NAVAJO'S ARTESIA PLANT. I AM ENCLOSING ANALYTICAL DATA NON-EXEMPT CERTIFICATE OF AND CHAIN OF CUSTODY.

150 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: 5-10-00
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. Engineer Specialist DATE: 05-12-00

APPROVED BY: Marilyn Witt TITLE: Environmental Geologist DATE: 05-18-00

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 hydorgen chloride from reformate in the Continuous Catalytic Regeneration (CCR) Reformer Unit.**

REMARKS: **Ealier analysis enclosed - Process has not changed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **Brinninstool Equipment Sales**

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: 5/5/00

TRACEANALYSIS, 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: 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:

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T102038/982860 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

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E-Mail: lab@traceanalysis.com

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	47
Phenol-d6	40
Nitrobenzene-d5	86
2-Fluorobiphenyl	76
2,4,6-Tribromophenol	93
Terphenyl-d14	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

TRACEANALYSIS, INC.

ANALYTICAL REPORT

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E-Mail: lab@traceanalysis.com

CLIENT NAVAJO REFINING CO.
501 E. MAIN
ARTESIA, NM 88211

SAMPLE NO. : 982860
INVOICE NO.: 22102386
REPORT DATE: 07-13-98
REVIEWED BY:
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

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
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

MANAGING DIRECTOR

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

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

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

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:

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

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #:

Company Name: NAVAJO REFINING CO. Phone #: (505) 748-3311
Address: 501 E. MAIN Fax #:
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #: Project Name:
Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Carbon	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH					Turn Around Time if different from standard	Hold
982460	D-363 CIRCLE GUARD	1	1L					X			X	X		7/1/98	15:00						X	X	X	X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	7/1/98	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date: 7/2/98	Time: 1045

LAB USE ONLY
Intact: (Y) N
Headspace: Y N N/A
Temp: 4 °
Log-In Review: L 7/2/98

REMARKS:

Carrier #: LONESTAR 10434439

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

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1000 Rio Brazos Road
Aztec, NM 87410
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New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator NAVAJO REFINING
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site LEA REFINING LOVINGTON, NM
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter BES
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	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:

05-001

BLAST SAND. I AM ENCLOSING ANALYTICAL DATA, NON-EXEMPT CERTIFICATE OF WASTE AND CHAIN OF CUSTODY. ASPHALT STORAGE TANK SANDBLASTED AND PUT BACK INTO SERVICE.

Estimated Volume 15-55 GAL. DRUMS cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 5-10-00
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. Engineer Specialist DATE: 05-12-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 05-18-00

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 (Tk 1207)

ESTIMATED VOLUME: Fifteen- 55 gallon drums

GENERATING PROCESS: Asphalt storage tank sandblasted and put back into service.

REMARKS: Analysis enclosed

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: Brinninstool Equipment Sales

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: 5/5/00

TRACEANALYSIS, 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

Darrell Moore
Navajo Refining
501 E. Main
Artesia, NM 88210

Report Date: 4/4/00

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

Order ID Number: A00032208

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
143048	TK 1207 Blast Sand	Solid	3/21/00	13:00	3/22/00

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 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 143048
Description: TK 1207 Blast Sand

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Corrosivity (mm/yr)									
Corrosivity	Non	1	S 1110	4/3/00	4/3/00	JM	PB01537	QC01845	
pH	7.88	1	S 1110	4/3/00	4/3/00	JM	PB01537	QC01845	
Ignitability									
Ignitability	non-ignitable	1	W-846 Ch. 7	4/3/00	4/3/00	JM	PB01538	QC01846	
Reactivity									
Reactivity	Non-reactive	1	S 7.3	4/3/00	4/3/00	JM	PB01539	QC01847	
Hydrogen Sulfide	<10	1	S 7.3	4/3/00	4/3/00	JM	PB01539	QC01847	
Hydrogen Cyanide	<2.5	1	S 7.3	4/3/00	4/3/00	JM	PB01539	QC01847	
TCLP Hg (mg/L)									
TCLP Mercury	<0.010	1	S 7470A	3/24/00	3/24/00	BP	PB01536	QC01844	0.01
TCLP Metals (mg/L)									
TCLP Arsenic	<.10	1	S 6010B	3/23/00	3/23/00	RR	PB01404	QC01676	0.1
TCLP Barium	<.10	1	S 6010B	3/23/00	3/23/00	RR	PB01404	QC01676	0.1
TCLP Cadmium	<.02	1	S 6010B	3/23/00	3/23/00	RR	PB01404	QC01676	0.02
TCLP Chromium	<.05	1	S 6010B	3/23/00	3/23/00	RR	PB01404	QC01676	0.05
TCLP Lead	<.10	1	S 6010B	3/23/00	3/23/00	RR	PB01404	QC01676	0.1
TCLP Selenium	<.10	1	S 6010B	3/23/00	3/23/00	RR	PB01404	QC01676	0.1
TCLP Silver	<.05	1	S 6010B	3/23/00	3/23/00	RR	PB01404	QC01676	0.05
TCLP Semivolatiles (mg/L)									
Pyridine	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
1,4-Dichlorobenzene	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
o-Cresol	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
m,p-Cresol	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
Hexachloroethane	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
Nitrobenzene	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
Hexachlorobutadiene	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
2,4,6-Trichlorophenol	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
2,4,5-Trichlorophenol	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
2,4-Dinitrotoluene	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
2,4-D	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
Hexachlorobenzene	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
2,4,5-TP	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05
Pentachlorophenol	<0.10	2	E 8270C	3/24/00	3/24/00	MA	PB01429	QC01710	0.05

Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	31.65	1	80	40	16 - 65	MA	PB01429	QC01710
Phenol-d5	20.90	1	80	26	8 - 48	MA	PB01429	QC01710
Nitrobenzene-d5	59.14	1	80	74	28 - 118	MA	PB01429	QC01710
2-Fluorobiphenyl	63.01	1	80	79	40 - 106	MA	PB01429	QC01710
2,4,6-Tribromophenol	52.37	1	80	65	48 - 117	MA	PB01429	QC01710
Terphenyl-d14	58.47	1	80	73	48 - 132	MA	PB01429	QC01710

TCLP Volatiles (mg/L)									
Vinyl Chloride	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001

N/A N/A N/A

1,1-Dichloroethene	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001
Methyl ethyl ketone	<.500	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.01
Chloroform	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001
1,2-Dichloroethane (EDC)	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001
Benzene	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001
Carbon Tetrachloride	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001
Trichloroethene (TCE)	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001
Tetrachloroethene (PCE)	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001
Chlorobenzene	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001
1,4-Dichlorobenzene	<.050	1	S 8260B	3/27/00	3/27/00	JG	PB01492	QC01775	0.001

Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
Dibromofluoromethane	51.5	1	50	103	80 - 120	JG	PB01492	QC01775
Toluene-d8	49.5	1	50	99	80 - 120	JG	PB01492	QC01775
4-Bromofluorobenzene	49.5	1	50	99	80 - 120	JG	PB01492	QC01775

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TCLP Mercury (mg/L)		<0.010	0.01	3/24/00	PB01536	QC01844

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TCLP Arsenic (mg/L)		<.10	0.1	3/23/00	PB01404	QC01676
TCLP Barium (mg/L)		<.10	0.1	3/23/00	PB01404	QC01676
TCLP Cadmium (mg/L)		<.02	0.02	3/23/00	PB01404	QC01676
TCLP Chromium (mg/L)		<.05	0.05	3/23/00	PB01404	QC01676
TCLP Lead (mg/L)		<.10	0.1	3/23/00	PB01404	QC01676
TCLP Selenium (mg/L)		<.10	0.1	3/23/00	PB01404	QC01676
TCLP Silver (mg/L)		<.05	0.05	3/23/00	PB01404	QC01676

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
1,4-Dichlorobenzene (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
o-Cresol (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
m,p-Cresol (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
Hexachloroethane (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
Nitrobenzene (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
Hexachlorobutadiene (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
2,4,6-Trichlorophenol (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
2,4,5-Trichlorophenol (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
2,4-Dinitrotoluene (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
2,4-D (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
Hexachlorobenzene (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
2,4,5-TP (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710
Pentachlorophenol (mg/L)		<0.05	0.05	3/24/00	PB01429	QC01710

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	34.00	80	43	16 - 65	QC01710
Phenol-d5 (mg/Kg)	23.18	80	29	8 - 48	QC01710
Nitrobenzene-d5 (mg/Kg)	64.55	80	81	28 - 118	QC01710
2-Fluorobiphenyl (mg/Kg)	67.64	80	85	40 - 106	QC01710
2,4,6-Tribromophenol (mg/Kg)	47.88	80	60	48 - 117	QC01710
Terphenyl-d14 (mg/Kg)	55.62	80	70	48 - 132	QC01710

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Vinyl Chloride (mg/L)		<.050	0.001	3/27/00	PB01492	QC01775
1,1-Dichloroethene (mg/L)		<.050	0.001	3/27/00	PB01492	QC01775
Methyl ethyl ketone (mg/L)		<.500	0.01	3/27/00	PB01492	QC01775
Chloroform (mg/L)		<.050	0.001	3/27/00	PB01492	QC01775
1,2-Dichloroethane (EDC) (mg/L)		<.050	0.001	3/27/00	PB01492	QC01775

N/A N/A N/A

Benzene (mg/L)	<.050	0.001	3/27/00	PB01492	QC01775
Carbon Tetrachloride (mg/L)	<.050	0.001	3/27/00	PB01492	QC01775
Trichloroethene (TCE) (mg/L)	<.050	0.001	3/27/00	PB01492	QC01775
Tetrachloroethene (PCE) (mg/L)	<.050	0.001	3/27/00	PB01492	QC01775
Chlorobenzene (mg/L)	<.050	0.001	3/27/00	PB01492	QC01775
1,4-Dichlorobenzene (mg/L)	<.050	0.001	3/27/00	PB01492	QC01775

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
Dibromofluoromethane (mg/L)	49.5	50	99	80 - 120	QC01775
Toluene-d8 (mg/L)	49	50	98	80 - 120	QC01775
4-Bromofluorobenzene (mg/L)	49	50	98	80 - 120	QC01775

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	TCLP Arsenic (mg/L)	<.10	1	10	9.4	94		75 - 125	-	QC01676
MS	TCLP Barium (mg/L)	<.10	1	10	11	110		75 - 125	-	QC01676
MS	TCLP Cadmium (mg/L)	<.02	1	10	9.97	100		75 - 125	-	QC01676
MS	TCLP Chromium (mg/L)	<.05	1	10	10.1	101		75 - 125	-	QC01676
MS	TCLP Lead (mg/L)	<.10	1	10	10.3	103		75 - 125	-	QC01676
MS	TCLP Selenium (mg/L)	<.10	1	10	9.68	97		75 - 125	-	QC01676
MS	TCLP Silver (mg/L)	<.05	1	2	2.08	104		75 - 125	-	QC01676
MSD	TCLP Arsenic (mg/L)	<.10	1	10	9.45	95	1	-	0 - 20	QC01676
MSD	TCLP Barium (mg/L)	<.10	1	10	10.9	109	1	-	0 - 20	QC01676
MSD	TCLP Cadmium (mg/L)	<.02	1	10	9.88	99	1	-	0 - 20	QC01676
MSD	TCLP Chromium (mg/L)	<.05	1	10	10.1	101	0	-	0 - 20	QC01676
MSD	TCLP Lead (mg/L)	<.10	1	10	10.2	102	1	-	0 - 20	QC01676
MSD	TCLP Selenium (mg/L)	<.10	1	10	9.60	96	1	-	0 - 20	QC01676
MSD	TCLP Silver (mg/L)	<.05	1	2	2.06	103	1	-	0 - 20	QC01676

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	TCLP Mercury (mg/L)	<0.010	1	0.05	0.0450	90		80 - 120	-	QC01844
MSD	TCLP Mercury (mg/L)	<0.010	1	0.05	0.0431	86	4	-	0 - 20	QC01844

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 Mercury (mg/L)	<0.010	1	0.05	0.0455	91		80 - 120	-	QC01844
LCSD	TCLP Mercury (mg/L)	<0.010	1	0.05	0.0475	95	4	-	0 - 20	QC01844

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	TCLP Arsenic (mg/L)	<.10	1	10	9.19	92		75 - 125	-	QC01676
LCS	TCLP Barium (mg/L)	<.10	1	10	10.7	107		75 - 125	-	QC01676
LCS	TCLP Cadmium (mg/L)	<.02	1	10	9.79	98		75 - 125	-	QC01676
LCS	TCLP Chromium (mg/L)	<.05	1	10	9.88	99		75 - 125	-	QC01676
LCS	TCLP Lead (mg/L)	<.10	1	10	10.1	101		75 - 125	-	QC01676
LCS	TCLP Selenium (mg/L)	<.10	1	10	9.47	95		75 - 125	-	QC01676
LCS	TCLP Silver (mg/L)	<.05	1	2	2.04	102		75 - 125	-	QC01676
LCSD	TCLP Arsenic (mg/L)	<.10	1	10	9.21	92	0	-	0 - 20	QC01676
LCSD	TCLP Barium (mg/L)	<.10	1	10	10.7	107	0	-	0 - 20	QC01676
LCSD	TCLP Cadmium (mg/L)	<.02	1	10	9.79	98	0	-	0 - 20	QC01676
LCSD	TCLP Chromium (mg/L)	<.05	1	10	9.88	99	0	-	0 - 20	QC01676
LCSD	TCLP Lead (mg/L)	<.10	1	10	10.1	101	0	-	0 - 20	QC01676
LCSD	TCLP Selenium (mg/L)	<.10	1	10	9.42	94	1	-	0 - 20	QC01676
LCSD	TCLP Silver (mg/L)	<.05	1	2	2.02	101	1	-	0 - 20	QC01676

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Pyridine (mg/L)	<0.05	1	80	39.38	49		0 - 103	-	QC01710
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	54.19	68		33 - 84	-	QC01710
LCS	o-Cresol (mg/L)	<0.05	1	80	54.62	68		34 - 93	-	QC01710
LCS	m,p-Cresol (mg/L)	<0.05	1	160	103.07	64		0 - 128	-	QC01710
LCS	Hexachloroethane (mg/L)	<0.05	1	80	53.46	67		28 - 87	-	QC01710
LCS	Nitrobenzene (mg/L)	<0.05	1	80	65.38	82		40 - 98	-	QC01710
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	57.72	72		30 - 91	-	QC01710
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	62.24	78		43 - 109	-	QC01710
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	60.47	76		47 - 106	-	QC01710
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	63.91	80		52 - 101	-	QC01710
LCS	2,4-D (mg/L)	<0.05	1	80	67.53	84		0 - 139	-	QC01710
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	66.49	83		43 - 117	-	QC01710
LCS	2,4,5-TP (mg/L)	<0.05	1	80	58.99	74		0 - 138	-	QC01710
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	43.50	54		27 - 107	-	QC01710

N/A N/A N/A

Standard	Surrogate		Dil.	Spike Amount	Result	% Rec.		% Rec. Limit		QC Batch #
LCS	2-Fluorophenol (mg/Kg)		1	80	32.40	41		16 - 65		QC01710
LCS	Phenol-d5 (mg/Kg)		1	80	23.30	29		8 - 48		QC01710
LCS	Nitrobenzene-d5 (mg/Kg)		1	80	59.54	74		28 - 118		QC01710
LCS	2-Fluorobiphenyl (mg/Kg)		1	80	62.64	78		40 - 106		QC01710
LCS	2,4,6-Tribromophenol (mg/Kg)		1	80	57.16	71		48 - 117		QC01710
LCS	Terphenyl-d14 (mg/Kg)		1	80	62.10	78		48 - 132		QC01710
LCSD	Pyridine (mg/L)	<0.05	1	80	42.22	53	7	-	0 - 20	QC01710
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	59.52	74	9	-	0 - 20	QC01710
LCSD	o-Cresol (mg/L)	<0.05	1	80	55.21	69	1	-	0 - 20	QC01710
LCSD	m,p-Cresol (mg/L)	<0.05	1	160	101.40	63	2	-	0 - 20	QC01710
LCSD	Hexachloroethane (mg/L)	<0.05	1	80	59.18	74	10	-	0 - 20	QC01710
LCSD	Nitrobenzene (mg/L)	<0.05	1	80	70.93	89	8	-	0 - 20	QC01710
LCSD	Hexachlorobutadiene (mg/L)	<0.05	1	80	63.45	79	9	-	0 - 20	QC01710
LCSD	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	67.54	84	8	-	0 - 20	QC01710
LCSD	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	63.79	80	5	-	0 - 20	QC01710
LCSD	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	63.07	79	1	-	0 - 20	QC01710
LCSD	2,4-D (mg/L)	<0.05	1	80	69.40	87	3	-	0 - 20	QC01710
LCSD	Hexachlorobenzene (mg/L)	<0.05	1	80	66.46	83	0	-	0 - 20	QC01710
LCSD	2,4,5-TP (mg/L)	<0.05	1	80	59.11	74	0	-	0 - 20	QC01710
LCSD	Pentachlorophenol (mg/L)	<0.05	1	80	48.89	61	12	-	0 - 20	QC01710

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	34.18	43	16 - 65	QC01710
LCSD	Phenol-d5 (mg/Kg)	1	80	23.97	30	8 - 48	QC01710
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	64.72	81	28 - 118	QC01710
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	67.58	84	40 - 106	QC01710
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	57.35	72	48 - 117	QC01710
LCSD	Terphenyl-d14 (mg/Kg)	1	80	58.87	74	48 - 132	QC01710

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Vinyl Chloride (mg/L)	<.050	1	5	5.42	108		80 - 120	-	QC01775
LCS	1,1-Dichloroethene (mg/L)	<.050	1	5	6.64	133		80 - 120	-	QC01775
LCS	Methyl ethyl ketone (mg/L)	<.500	1	5	4.78	96		80 - 120	-	QC01775
LCS	Chloroform (mg/L)	<.050	1	5	5.71	114		80 - 120	-	QC01775
LCS	1,2-Dichloroethane (EDC) (mg/L)	<.050	1	5	5.61	112		80 - 120	-	QC01775
LCS	Benzene (mg/L)	<.050	1	5	5.87	117		80 - 120	-	QC01775
LCS	Carbon Tetrachloride (mg/L)	<.050	1	5	6.41	128		80 - 120	-	QC01775
LCS	Trichloroethene (TCE) (mg/L)	<.050	1	5	5.67	113		80 - 120	-	QC01775
LCS	Tetrachloroethene (PCE) (mg/L)	<.050	1	5	5.67	113		80 - 120	-	QC01775
LCS	Chlorobenzene (mg/L)	<.050	1	5	5.57	111		80 - 120	-	QC01775
LCS	1,4-Dichlorobenzene (mg/L)	<.050	1	5	5.44	109		80 - 120	-	QC01775

N/A N/A N/A

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	Dibromofluoromethane (mg/L)	1	50	50.5	101	80 - 120	QC01775
LCS	Toluene-d8 (mg/L)	1	50	51	102	80 - 120	QC01775
LCS	4-Bromofluorobenzene (mg/L)	1	50	50	100	80 - 120	QC01775

LCSD	Vinyl Chloride (mg/L)	<.050	1	5	5.64	113	4	-	0 - 20	QC01775
LCSD	1,1-Dichloroethene (mg/L)	<.050	1	5	6.57	131	1	-	0 - 20	QC01775
LCSD	Methyl ethyl ketone (mg/L)	<.500	1	5	4.40	88	8	-	0 - 20	QC01775
LCSD	Chloroform (mg/L)	<.050	1	5	5.64	113	1	-	0 - 20	QC01775
LCSD	1,2-Dichloroethane (EDC) (mg/L)	<.050	1	5	5.57	111	1	-	0 - 20	QC01775
LCSD	Benzene (mg/L)	<.050	1	5	5.78	116	2	-	0 - 20	QC01775
LCSD	Carbon Tetrachloride (mg/L)	<.050	1	5	6.17	123	4	-	0 - 20	QC01775
LCSD	Trichloroethene (TCE) (mg/L)	<.050	1	5	5.55	111	2	-	0 - 20	QC01775
LCSD	Tetrachloroethene (PCE) (mg/L)	<.050	1	5	5.59	112	1	-	0 - 20	QC01775
LCSD	Chlorobenzene (mg/L)	<.050	1	5	5.47	109	2	-	0 - 20	QC01775
LCSD	1,4-Dichlorobenzene (mg/L)	<.050	1	5	5.31	106	2	-	0 - 20	QC01775

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	Dibromofluoromethane (mg/L)	1	50	51	102	80 - 120	QC01775
LCSD	Toluene-d8 (mg/L)	1	50	50.5	101	80 - 120	QC01775
LCSD	4-Bromofluorobenzene (mg/L)	1	50	50	100	80 - 120	QC01775

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 #
CCV 1	TCLP Mercury (mg/L)		0.005	0.00480	96	80 - 120	3/24/00	QC01844

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TCLP Arsenic (mg/L)		1	1.03	103	75 - 125	3/23/00	QC01676
ICV	TCLP Barium (mg/L)		20	21.5	108	75 - 125	3/23/00	QC01676
ICV	TCLP Cadmium (mg/L)		0.5	.520	104	75 - 125	3/23/00	QC01676
ICV	TCLP Chromium (mg/L)		1	1.03	103	75 - 125	3/23/00	QC01676
ICV	TCLP Lead (mg/L)		0.5	.520	104	75 - 125	3/23/00	QC01676
ICV	TCLP Selenium (mg/L)		0.5	.520	104	75 - 125	3/23/00	QC01676
ICV	TCLP Silver (mg/L)		1	1.01	101	75 - 125	3/23/00	QC01676
CCV 1	TCLP Arsenic (mg/L)		1	1.04	104	75 - 125	3/23/00	QC01676
CCV 1	TCLP Barium (mg/L)		20	22	110	75 - 125	3/23/00	QC01676
CCV 1	TCLP Cadmium (mg/L)		0.5	.537	107	75 - 125	3/23/00	QC01676
CCV 1	TCLP Chromium (mg/L)		1	1.07	107	75 - 125	3/23/00	QC01676
CCV 1	TCLP Lead (mg/L)		0.5	.536	107	75 - 125	3/23/00	QC01676
CCV 1	TCLP Selenium (mg/L)		0.5	.529	106	75 - 125	3/23/00	QC01676
CCV 1	TCLP Silver (mg/L)		1	1.03	103	75 - 125	3/23/00	QC01676

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Pyridine (mg/L)		60	60.90	102	0 - 103	3/24/00	QC01710
CCV 1	1,4-Dichlorobenzene (mg/L)		60	61.76	103	33 - 84	3/24/00	QC01710
CCV 1	o-Cresol (mg/L)		60	56.19	94	34 - 93	3/24/00	QC01710
CCV 1	m,p-Cresol (mg/L)		60	57.72	96	0 - 128	3/24/00	QC01710
CCV 1	Hexachloroethane (mg/L)		60	63.56	106	28 - 87	3/24/00	QC01710
CCV 1	Nitrobenzene (mg/L)		60	61.33	102	40 - 98	3/24/00	QC01710
CCV 1	Hexachlorobutadiene (mg/L)		60	62.76	105	30 - 91	3/24/00	QC01710
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	58.55	98	43 - 109	3/24/00	QC01710
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	58.84	98	47 - 106	3/24/00	QC01710
CCV 1	2,4-Dinitrotoluene (mg/L)		60	68.32	114	52 - 101	3/24/00	QC01710
CCV 1	2,4-D (mg/L)		60	67.46	112	0 - 139	3/24/00	QC01710
CCV 1	Hexachlorobenzene (mg/L)		60	54.45	91	43 - 117	3/24/00	QC01710
CCV 1	2,4,5-TP (mg/L)		60	51.47	86	0 - 138	3/24/00	QC01710
CCV 1	Pentachlorophenol (mg/L)		60	56.74	95	27 - 107	3/24/00	QC01710
CCV 1	2-Fluorophenol (mg/L)		60	56.97	95	16 - 65	3/24/00	QC01710
CCV 1	Phenol-d5 (mg/L)		60	56.80	95	8 - 48	3/24/00	QC01710
CCV 1	Nitrobenzene-d5 (mg/L)		60	59.54	99	28 - 118	3/24/00	QC01710
CCV 1	2-Fluorobiphenyl (mg/L)		60	57.65	96	40 - 106	3/24/00	QC01710

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 #
CCV 1	2,4,6-Tribromophenol (mg/L)		60	68.88	115	48 - 117	3/24/00	QC01710
CCV 1	Terphenyl-d14 (mg/L)		60	71.67	119	48 - 132	3/24/00	QC01710

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Vinyl Chloride (mg/L)		100	108	108	80 - 120	3/27/00	QC01775
CCV 1	1,1-Dichloroethene (mg/L)		100	106	106	80 - 120	3/27/00	QC01775
CCV 1	Methyl ethyl ketone (mg/L)		100	109	109	80 - 120	3/27/00	QC01775
CCV 1	Chloroform (mg/L)		100	100	100	80 - 120	3/27/00	QC01775
CCV 1	1,2-Dichloroethane (EDC) (mg/L)		100	101	101	80 - 120	3/27/00	QC01775
CCV 1	Benzene (mg/L)		100	103	103	80 - 120	3/27/00	QC01775
CCV 1	Carbon Tetrachloride (mg/L)		100	112	112	80 - 120	3/27/00	QC01775
CCV 1	Trichloroethene (TCE) (mg/L)		100	101	101	80 - 120	3/27/00	QC01775
CCV 1	Tetrachloroethene (PCE) (mg/L)		100	99	99	80 - 120	3/27/00	QC01775
CCV 1	Chlorobenzene (mg/L)		100	103	103	80 - 120	3/27/00	QC01775
CCV 1	1,4-Dichlorobenzene (mg/L)		100	100	100	80 - 120	3/27/00	QC01775
CCV 1	Dibromofluoromethane (mg/L)		50	49.5	99	80 - 120	3/27/00	QC01775
CCV 1	Toluene-d8 (mg/L)		50	50	100	80 - 120	3/27/00	QC01775
CCV 1	4-Bromofluorobenzene (mg/L)		50	51	102	80 - 120	3/27/00	QC01775

143048

Page ____ of ____

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 # A00032208

Company Name: Navajo Refining
Phone #:
Address: (Street, City, Zip)
Fax #:
Contact Person:
Invoice to:
(If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Daniel Moore

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Sand	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH						Turn Around Time if different from standard	Hold
143048	Tk 1207 Blast Sand	1	1L					X						3/21/00	13:00						X	X	X		X												

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Daniel Moore	3/21/00	16:30			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Crowley	3-22-00	10:00 am

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 13° °
Log-in Review MS

REMARKS:
Could we rush this please
4/4

Carrier # Fedex 278-8067-493

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
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
MAY 18 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

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 BES
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	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:

SOLIDS AND DEBRIS CAUGHT IN SEWER INSERTS. SOLIDS AND DEBRIS ARE CAUGHT IN INSERTS BEFORE T ENTER THE SEWER SYSTEM. I AM ENCLOSING ANALYTICAL DATA, NON-EXEMPT CERTIFICATE OF WASTE AN CHAIN OF CUSTODY.

05-004

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: 05-10-00
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: 05-12-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 05-18-00

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 Incorportated**

TRUCKING COMPANY: **Brinninstool Equipment Sales - 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: 5/5/00

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 there after.

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,

John M. Tymkowych

John Tymkowych
RCRA Inspection/Enforcement Program Manager, HRMB

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

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

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

April 24, 2000
Receiving Date: 04/13/2000
Sample Type: Sludge
Project No: NA
Project Location: NA

Extraction Date: 04/17/2000
Analysis Date: 04/18/2000
Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T144450 Sewer Inserts	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	116	2	93	116
1,1-Dichloroethene	0.70	0.05	ND	120	2	127	120
Methyl Ethyl Ketone	200.0	0.5	ND	108	20	92	108
Chloroform	6.00	0.05	ND	104	1	116	104
1,2-Dichloroethane	0.50	0.05	ND	107	1	116	107
Benzene	0.50	0.05	ND	105	3	108	105
Carbon Tetrachloride	0.50	0.05	ND	105	2	115	105
Trichloroethene	0.50	0.05	ND	112	2	111	112
Tetrachloroethene	0.70	0.05	ND	115	2	108	115
Chlorobenzene	100.00	0.05	ND	103	2	106	103
1,4-Dichlorobenzene	7.50	0.05	ND	99	0	104	99

SURROGATES	**% Recovery**
Dibromofluoromethane	103
Toluene-d8	100
4-Bromofluorobenzene	93

ND = Not Detected

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

Director, Dr. Blair Leftwich

4-24-00
DATE

Analytical Results Report

Sample Number: 144450
Description: Sewer Inserts

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
o-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
m,p-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Hexachloroethane	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Nitrobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4-D	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,5-TP	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Pentachlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	31.65	1	80	40	20 - 67	BP	PB01859	QC02226
Phenol-d5	28.67	1	80	36	7 - 55	BP	PB01859	QC02226
Nitrobenzene-d5	47.27	1	80	59	33 - 116	BP	PB01859	QC02226
2-Fluorobiphenyl	48.84	1	80	61	47 - 107	BP	PB01859	QC02226
2,4,6-Tribromophenol	45.99	1	80	57	47 - 113	BP	PB01859	QC02226
Terphenyl-d14	40.12	1	80	50	47 - 124	BP	PB01859	QC02226

Sample Number: 144451
Description: DAF

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
o-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
m,p-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Hexachloroethane	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Nitrobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4-D	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,5-TP	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Pentachlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25

TRACEANALYSIS, 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

April 24, 2000
Receiving Date: 04/13/2000
Sample Type: Sludge
Project No: NA
Project Location: NA

Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TCLP METALS (mg/L)

TA#	Field Code	Ag	As	Ba	Cd	Cr	Pb	Se	Hg
	EPA LIMIT =	5.0	5.0	100.0	1.0	5.0	5.0	1.0	0.20
T144450	Sewer Inserts	<0.05	0.30	0.23	<0.02	<0.05	<0.10	<0.10	<0.010
T144451	DAF	<0.05	0.15	0.05	<0.02	<0.05	<0.10	<0.10	<0.010
ICV		0.200	1.00	1.03	1.02	1.02	1.01	0.97	0.00540
CCV		0.198	0.98	1.00	0.98	1.00	0.99	0.96	0.00538
Reporting Limit		0.05	0.10	0.10	0.02	0.05	0.10	0.10	0.010
RPD		1	2	1	1	1	1	1	0
% Extraction Accuracy		75	100	98	98	99	94	91	109
% Instrument Accuracy		99	98	100	98	100	99	96	108
EXTRACTION DATE		04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/17/2000
ANALYSIS DATE		04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/19/2000

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: JM
METHODS: EPA SW 846-1311, 6010B, 7470A.
TCLP METALS SPIKE: 10 mg/L As, Se, Cd, Cr, Pb, Ba; 4 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.005 mg/L Hg.

Director, Dr. Blair Leftwich

4-24-00
Date

TRACEANALYSIS, 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

April 26, 2000
Receiving Date: 04/13/2000
Sample Type: Sludge
Project No: NA
Project Location: NA

Prep Date: 04/26/2000
Analysis Date: 04/26/2000
Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T144450	Sewer Inserts	Non-Reactive	125	15	Non-corrosive	6.66	Nonignitable
T144451	DAF	Non-Reactive	30	5	Non-corrosive	7.51	Nonignitable
QC	Quality Control	---	---	---	---	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: JM

Director, Dr. Blair Leftwich

4-26-00
DATE

TRACEANALYSIS, 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

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

Report Date: 4/24/00

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

Order ID Number: A00041309

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
144450	Sewer Inserts	Sludge	4/12/00	13:30	4/13/00
144451	DAF	Sludge	4/12/00	14:00	4/13/00
144452	Contam Soil	Soil	4/12/00	14:15	4/13/00

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 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
1,4-Dichlorobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
o-Cresol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
m,p-Cresol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachloroethane (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Nitrobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachlorobutadiene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,6-Trichlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,5-Trichlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4-Dinitrotoluene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4-D (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachlorobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,5-TP (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Pentachlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	23.60	80	30	20 - 67	QC02226
Phenol-d5 (mg/Kg)	20.79	80	26	7 - 55	QC02226
Nitrobenzene-d5 (mg/Kg)	50.77	80	63	33 - 116	QC02226
2-Fluorobiphenyl (mg/Kg)	54.33	80	68	47 - 107	QC02226
2,4,6-Tribromophenol (mg/Kg)	43.24	80	54	47 - 113	QC02226
Terphenyl-d14 (mg/Kg)	49.06	80	61	47 - 124	QC02226

Pyridine (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
1,4-Dichlorobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
o-Cresol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
m,p-Cresol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachloroethane (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Nitrobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachlorobutadiene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,6-Trichlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,5-Trichlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4-Dinitrotoluene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4-D (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachlorobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,5-TP (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Pentachlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	23.60	80	30	20 - 67	QC02227
Phenol-d5 (mg/Kg)	20.79	80	26	7 - 55	QC02227
Nitrobenzene-d5 (mg/Kg)	50.77	80	63	33 - 116	QC02227
2-Fluorobiphenyl (mg/Kg)	54.33	80	68	47 - 107	QC02227
2,4,6-Tribromophenol (mg/Kg)	43.24	80	54	47 - 113	QC02227
Terphenyl-d14 (mg/Kg)	49.06	80	61	47 - 124	QC02227

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	Pyridine (mg/L)	<0.05	1	80	29.04	36		0 - 92	-	QC02226
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	48.29	60		39 - 87	-	QC02226
LCS	o-Cresol (mg/L)	<0.05	1	80	40.22	50		41 - 92	-	QC02226
LCS	m,p-Cresol (mg/L)	<0.05	1	160	73.40	46		7 - 127	-	QC02226
LCS	Hexachloroethane (mg/L)	<0.05	1	80	46.23	58		35 - 85	-	QC02226
LCS	Nitrobenzene (mg/L)	<0.05	1	80	55.05	69		43 - 108	-	QC02226
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	48.49	61		38 - 89	-	QC02226
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.07	66		47 - 107	-	QC02226
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	52.86	66		49 - 105	-	QC02226
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	50.97	64		49 - 105	-	QC02226
LCS	2,4-D (mg/L)	<0.05	1	80	63.15	79		0 - 127	-	QC02226
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	61.83	77		47 - 122	-	QC02226
LCS	2,4,5-TP (mg/L)	<0.05	1	80	69.47	87		0 - 130	-	QC02226
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	44.58	56		33 - 99	-	QC02226

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	22.96	29	20 - 67	QC02226
LCS	Phenol-d5 (mg/Kg)	1	80	16.56	21	7 - 55	QC02226
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	50.96	64	33 - 116	QC02226
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	55.06	69	47 - 107	QC02226
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	45.24	57	47 - 113	QC02226
LCS	Terphenyl-d14 (mg/Kg)	1	80	48.53	61	47 - 124	QC02226

LCSD	Pyridine (mg/L)	<0.05	1	80	27.07	34	7	-	0 - 20	QC02226
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	46.09	58	5	-	0 - 20	QC02226
LCSD	o-Cresol (mg/L)	<0.05	1	80	41.88	52	4	-	0 - 20	QC02226
LCSD	m,p-Cresol (mg/L)	<0.05	1	160	76.89	48	5	-	0 - 20	QC02226
LCSD	Hexachloroethane (mg/L)	<0.05	1	80	43.60	55	6	-	0 - 20	QC02226
LCSD	Nitrobenzene (mg/L)	<0.05	1	80	52.96	66	4	-	0 - 20	QC02226
LCSD	Hexachlorobutadiene (mg/L)	<0.05	1	80	45.56	57	6	-	0 - 20	QC02226
LCSD	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.60	67	1	-	0 - 20	QC02226
LCSD	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	53.99	67	2	-	0 - 20	QC02226
LCSD	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	52.02	65	2	-	0 - 20	QC02226
LCSD	2,4-D (mg/L)	<0.05	1	80	66.18	83	5	-	0 - 20	QC02226
LCSD	Hexachlorobenzene (mg/L)	<0.05	1	80	63.17	79	2	-	0 - 20	QC02226
LCSD	2,4,5-TP (mg/L)	<0.05	1	80	75.17	94	8	-	0 - 20	QC02226
LCSD	Pentachlorophenol (mg/L)	<0.05	1	80	46.98	59	5	-	0 - 20	QC02226

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	23.12	29	20 - 67	QC02226
LCSD	Phenol-d5 (mg/Kg)	1	80	17.75	22	7 - 55	QC02226
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.52	63	33 - 116	QC02226
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	53.42	67	47 - 107	QC02226
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	45.30	57	47 - 113	QC02226
LCSD	Terphenyl-d14 (mg/Kg)	1	80	50.24	63	47 - 124	QC02226

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Pyridine (mg/L)	<0.05	1	80	29.04	36		0 - 92	-	QC02227
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	48.29	60		39 - 87	-	QC02227
LCS	o-Cresol (mg/L)	<0.05	1	80	40.22	50		41 - 92	-	QC02227
LCS	m,p-Cresol (mg/L)	<0.05	1	160	73.40	46		7 - 127	-	QC02227
LCS	Hexachloroethane (mg/L)	<0.05	1	80	46.23	58		35 - 85	-	QC02227
LCS	Nitrobenzene (mg/L)	<0.05	1	80	55.05	69		43 - 108	-	QC02227
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	48.49	61		38 - 89	-	QC02227
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.07	66		47 - 107	-	QC02227
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	52.86	66		49 - 105	-	QC02227
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	50.97	64		49 - 105	-	QC02227
LCS	2,4-D (mg/L)	<0.05	1	80	63.15	79		0 - 127	-	QC02227
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	61.83	77		47 - 122	-	QC02227
LCS	2,4,5-TP (mg/L)	<0.05	1	80	69.47	87		0 - 130	-	QC02227
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	44.58	56		33 - 99	-	QC02227

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	22.96	29	20 - 67	QC02227
LCS	Phenol-d5 (mg/Kg)	1	80	16.56	21	7 - 55	QC02227
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	50.96	64	33 - 116	QC02227
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	55.06	69	47 - 107	QC02227
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	45.24	57	47 - 113	QC02227
LCS	Terphenyl-d14 (mg/Kg)	1	80	48.53	61	47 - 124	QC02227

LCSD	Pyridine (mg/L)	<0.05	1	80	27.07	34	7	-	0 - 20	QC02227
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	46.09	58	5	-	0 - 20	QC02227
LCSD	o-Cresol (mg/L)	<0.05	1	80	41.88	52	4	-	0 - 20	QC02227
LCSD	m,p-Cresol (mg/L)	<0.05	1	160	76.89	48	5	-	0 - 20	QC02227
LCSD	Hexachloroethane (mg/L)	<0.05	1	80	43.60	55	6	-	0 - 20	QC02227
LCSD	Nitrobenzene (mg/L)	<0.05	1	80	52.96	66	4	-	0 - 20	QC02227
LCSD	Hexachlorobutadiene (mg/L)	<0.05	1	80	45.56	57	6	-	0 - 20	QC02227
LCSD	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.60	67	1	-	0 - 20	QC02227
LCSD	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	53.99	67	2	-	0 - 20	QC02227
LCSD	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	52.02	65	2	-	0 - 20	QC02227
LCSD	2,4-D (mg/L)	<0.05	1	80	66.18	83	5	-	0 - 20	QC02227
LCSD	Hexachlorobenzene (mg/L)	<0.05	1	80	63.17	79	2	-	0 - 20	QC02227
LCSD	2,4,5-TP (mg/L)	<0.05	1	80	75.17	94	8	-	0 - 20	QC02227
LCSD	Pentachlorophenol (mg/L)	<0.05	1	80	46.98	59	5	-	0 - 20	QC02227

N/A N/A N/A

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	23.12	29	20 - 67	QC02227
LCSD	Phenol-d5 (mg/Kg)	1	80	17.75	22	7 - 55	QC02227
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.52	63	33 - 116	QC02227
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	53.42	67	47 - 107	QC02227
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	45.30	57	47 - 113	QC02227
LCSD	Terphenyl-d14 (mg/Kg)	1	80	50.24	63	47 - 124	QC02227

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 #
CCV 1	Pyridine (mg/L)		60	56.79	95	0 - 92	4/20/00	QC02226
CCV 1	1,4-Dichlorobenzene (mg/L)		60	60.25	100	39 - 87	4/20/00	QC02226
CCV 1	o-Cresol (mg/L)		60	58.34	97	41 - 92	4/20/00	QC02226
CCV 1	m,p-Cresol (mg/L)		60	58.05	97	7 - 127	4/20/00	QC02226
CCV 1	Hexachloroethane (mg/L)		60	60.04	100	35 - 85	4/20/00	QC02226
CCV 1	Nitrobenzene (mg/L)		60	57.30	96	43 - 108	4/20/00	QC02226
CCV 1	Hexachlorobutadiene (mg/L)		60	59.55	99	38 - 89	4/20/00	QC02226
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.69	99	47 - 107	4/20/00	QC02226
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.83	100	49 - 105	4/20/00	QC02226
CCV 1	2,4-Dinitrotoluene (mg/L)		60	57.62	96	49 - 105	4/20/00	QC02226
CCV 1	2,4-D (mg/L)		60	54.35	91	0 - 127	4/20/00	QC02226
CCV 1	Hexachlorobenzene (mg/L)		60	55.73	93	47 - 122	4/20/00	QC02226
CCV 1	2,4,5-TP (mg/L)		60	50.48	84	0 - 130	4/20/00	QC02226
CCV 1	Pentachlorophenol (mg/L)		60	60.05	100	33 - 99	4/20/00	QC02226
CCV 1	2-Fluorophenol (mg/L)		60	54.95	92	20 - 67	4/20/00	QC02226
CCV 1	Phenol-d5 (mg/L)		60	54.65	91	7 - 55	4/20/00	QC02226
CCV 1	Nitrobenzene-d5 (mg/L)		60	55.70	93	33 - 116	4/20/00	QC02226
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.50	101	47 - 107	4/20/00	QC02226
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.17	94	47 - 113	4/20/00	QC02226
CCV 1	Terphenyl-d14 (mg/L)		60	56.75	95	47 - 124	4/20/00	QC02226

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Pyridine (mg/L)		60	56.79	95	0 - 92	4/20/00	QC02227
CCV 1	1,4-Dichlorobenzene (mg/L)		60	60.25	100	39 - 87	4/20/00	QC02227
CCV 1	o-Cresol (mg/L)		60	58.34	97	41 - 92	4/20/00	QC02227
CCV 1	m,p-Cresol (mg/L)		60	58.05	97	7 - 127	4/20/00	QC02227
CCV 1	Hexachloroethane (mg/L)		60	60.04	100	35 - 85	4/20/00	QC02227
CCV 1	Nitrobenzene (mg/L)		60	57.30	96	43 - 108	4/20/00	QC02227
CCV 1	Hexachlorobutadiene (mg/L)		60	59.55	99	38 - 89	4/20/00	QC02227
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.69	99	47 - 107	4/20/00	QC02227
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.83	100	49 - 105	4/20/00	QC02227
CCV 1	2,4-Dinitrotoluene (mg/L)		60	57.62	96	49 - 105	4/20/00	QC02227
CCV 1	2,4-D (mg/L)		60	54.35	91	0 - 127	4/20/00	QC02227
CCV 1	Hexachlorobenzene (mg/L)		60	55.73	93	47 - 122	4/20/00	QC02227
CCV 1	2,4,5-TP (mg/L)		60	50.48	84	0 - 130	4/20/00	QC02227
CCV 1	Pentachlorophenol (mg/L)		60	60.05	100	33 - 99	4/20/00	QC02227
CCV 1	2-Fluorophenol (mg/L)		60	54.95	92	20 - 67	4/20/00	QC02227
CCV 1	Phenol-d5 (mg/L)		60	54.65	91	7 - 55	4/20/00	QC02227
CCV 1	Nitrobenzene-d5 (mg/L)		60	55.70	93	33 - 116	4/20/00	QC02227

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 #
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.50	101	47 - 107	4/20/00	QC02227
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.17	94	47 - 113	4/20/00	QC02227
CCV 1	Terphenyl-d14 (mg/L)		60	56.75	95	47 - 124	4/20/00	QC02227

144450-52

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 # 00041309

Company Name: NAVAJO REFINING CO
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
144450	SEWER INSERTS	1	1L				X			X	X	4/12/00	13:30						X	X	X		X											
S1	DAF	1	1L				X			X	X	4/12/00	14:00						X	X	X		X											
S2	CONTAM. SOIL	1	1L		X					X	X	4/12/00	14:15						X	X	X		X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	4/12/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			V.C. Hinojos	4-13-00	10:00

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 2 °
Log-in Review MY

REMARKS:
4-26-00

Carrier # Fed Ex 282-5175-114

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
JUN 14 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator *Navajo Refining*
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site *See below*
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter I & W
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) *Eddy Co., See below*	

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:

06-003

Crude oil contaminated soil from overfill of tank at Navajo's Pecos River Crossing Terminal, 1 mile East of the Pecos River on Highway 31, Eddy Co., N.M.

Attached is Non-exempt Certificate of waste status, letter from Roger Anderson dated 06-02-00 in reference to crude analysis. Verbal approval received from Roger Anderson 06-06-00.

Estimated Volume *120 yards* cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: *Carmella Van Maanen* TITLE: *Bookkeeper* DATE: *06-08-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: *Donna Williams* TITLE: *Environ. Eng. Specialist* DATE: *06-09-00*

APPROVED BY: *Martyne J. Kieling* TITLE: *Environmental Geologist* DATE: *06-14-00*

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 — ARTESIA, N.M.

GENERATING SITE: Navajo Refining Company

COUNTY: Eddy

STATE: NM

TYPE OF WASTE: Crude Contaminated Soil

ESTIMATED VOLUME: 120 yds

GENERATING PROCESS: Overfill of tank on battery at Navajo's Pecos River Crossing Terminal. This facility is 1 mile east of the Pecos River on Hiway 31

REMARKS: As per June 2, 2000 letter from Roger Anderson, Navajo states that due to process knowledge and past analysis, this waste is non-hazardous.

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: ~~[illegible]~~ Ta W

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: Darrell Moore
SIGNATURE

NAME: Darrell Moore
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 6/7/2000

From: Anderson, Roger <RCANDERSON@state.nm.us>
To: 'Darrell Moore' <darrell@navajo-refining.com>
Date: Friday, June 02, 2000 10:33 AM
Subject: RE: Letter

June 2, 2000

Mr. Darrell Moore
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211-0159

RE: CRUDE OIL TRUCKING SPILLS

Dear Mr. Moore:

The New Mexico Oil Conservation Division (OCD) has reviewed Navajo Refining Company's (Navajo) January 26, 2000 correspondence which requests that they be allowed to use the analyses submitted previously, the OCD approval dated May 9, 1996 and a statement of process knowledge for determining the soils to be RCRA non-hazardous during future crude oil trucking 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 until further notice.

2. Navajo will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.

3. Navajo 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.

Please be advised that OCD approval does not relieve Navajo 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 Navajo 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,

/s/

Roger C. Anderson
Environmental Bureau Chief

> ---
> From: Darrell Moore[SMTP:darrell@navajo-refining.com]
> Reply To: Darrell Moore
> Sent: Friday, June 02, 2000 10:18 AM

6/6/00

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/

Submit Origi
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to appropri
District Off

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 BES
3. Address of Facility Operator P.O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 EAST 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:

06-005

MOLE SIEVE (D-280, 281). STRIPS WATER FROM CLEAN HYDROGEN THAT IS USED THE ISOM UNIT.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS, AND CHAIN OF CUSTODY.

Estimated Volume 25 DRUMS & 2 SUPERSACKS cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Eng. Specialist DATE: 06-30-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 07-10-00

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-280, 281 mole sieve**

ESTIMATED VOLUME: **2 supersacks and 25 drums**

GENERATING PROCESS: **Mole sieve strips water from clean hydrogen that is used the Isom Unit.**

REMARKS: **TCLP analysis from Trace enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rentals 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 6/27/00

TRACEANALYSIS, 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

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

Report Date: 6/16/00

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

Order ID Number: A00060610

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
147372	D-280,28	Solid	6/5/00	13:00	6/6/00

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 7 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 147372
Description: D-280,28

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
o-Cresol	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
m,p-Cresol	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
Hexachloroethane	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
Nitrobenzene	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
2,4,6-Trichlorophenol	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
2,4-Dinitrotoluene	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
2,4-D	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
Hexachlorobenzene	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
2,4,5-TP	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05
Pentachlorophenol	<0.05	1	E 8270C	6/13/00	6/13/00	MA	PB02750	QC03197	0.05

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	41.40	1	80	52	20 - 67	MA	PB02750	QC03197
Phenol-d5	33.09	1	80	41	7 - 55	MA	PB02750	QC03197
Nitrobenzene-d5	51.69	1	80	65	33 - 116	MA	PB02750	QC03197
2-Fluorobiphenyl	48.21	1	80	60	47 - 107	MA	PB02750	QC03197
2,4,6-Tribromophenol	55.54	1	80	69	47 - 113	MA	PB02750	QC03197
Terphenyl-d14	60.53	1	80	76	47 - 124	MA	PB02750	QC03197

TCLP Volatiles (mg/L)									
Vinyl Chloride	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
1,1-Dichloroethene	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
Methyl ethyl ketone	<0.50	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.01
Chloroform	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
1,2-Dichloroethane (EDC)	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
Benzene	.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
Carbon Tetrachloride	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
Trichloroethene (TCE)	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
Tetrachloroethene (PCE)	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
Chlorobenzene	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001
1,4-Dichlorobenzene	<0.05	1	S 8260B	6/8/00	6/11/00	JG	PB02727	QC03172	0.001

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
Dibromofluoromethane	51.10	1	50	102	80 - 120	JG	PB02727	QC03172
Toluene-d8	53.60	1	50	107	80 - 120	JG	PB02727	QC03172
4-Bromofluorobenzene	42.60	1	50	85	80 - 120	JG	PB02727	QC03172

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
1,4-Dichlorobenzene (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
o-Cresol (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
m,p-Cresol (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
Hexachloroethane (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
Nitrobenzene (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
Hexachlorobutadiene (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
2,4,6-Trichlorophenol (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
2,4,5-Trichlorophenol (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
2,4-Dinitrotoluene (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
2,4-D (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
Hexachlorobenzene (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
2,4,5-TP (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197
Pentachlorophenol (mg/L)		<0.05	0.05	6/13/00	PB02750	QC03197

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	30.62	80	38	20 - 67	QC03197
Phenol-d5 (mg/Kg)	22.50	80	28	7 - 55	QC03197
Nitrobenzene-d5 (mg/Kg)	53.81	80	67	33 - 116	QC03197
2-Fluorobiphenyl (mg/Kg)	49.57	80	62	47 - 107	QC03197
2,4,6-Tribromophenol (mg/Kg)	51.68	80	65	47 - 113	QC03197
Terphenyl-d14 (mg/Kg)	47.93	80	60	47 - 124	QC03197

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Vinyl Chloride (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
1,1-Dichloroethene (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
Methyl ethyl ketone (mg/L)		<0.50	0.01	6/11/00	PB02727	QC03172
Chloroform (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
1,2-Dichloroethane (EDC) (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
Benzene (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
Carbon Tetrachloride (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
Trichloroethene (TCE) (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
Tetrachloroethene (PCE) (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
Chlorobenzene (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172
1,4-Dichlorobenzene (mg/L)		<0.05	0.001	6/11/00	PB02727	QC03172

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
Dibromofluoromethane (mg/Kg)	51.39	50	103	80 - 120	QC03172
Toluene-d8 (mg/Kg)	52.77	50	106	80 - 120	QC03172
4-Bromofluorobenzene (mg/Kg)	43.11	50	86	80 - 120	QC03172

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	Vinyl Chloride (mg/L)	<0.05	1	5	4.08	82		80 - 120	-	QC03172
MS	1,1-Dichloroethene (mg/L)	<0.05	1	5	4.67	93		80 - 120	-	QC03172
MS	Methyl ethyl ketone (mg/L)	<0.50	1	5	4.22	84		80 - 120	-	QC03172
MS	Chloroform (mg/L)	<0.05	1	5	5.12	102		80 - 120	-	QC03172
MS	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	5	5.19	104		80 - 120	-	QC03172
MS	Benzene (mg/L)	.05	1	5	5.01	99		80 - 120	-	QC03172
MS	Carbon Tetrachloride (mg/L)	<0.05	1	5	5.08	102		80 - 120	-	QC03172
MS	Trichloroethene (TCE) (mg/L)	<0.05	1	5	5.01	100		80 - 120	-	QC03172
MS	Tetrachloroethene (PCE) (mg/L)	<0.05	1	5	4.51	90		80 - 120	-	QC03172
MS	Chlorobenzene (mg/L)	<0.05	1	5	5.31	106		80 - 120	-	QC03172
MS	1,4-Dichlorobenzene (mg/L)	<0.05	1	5	5.48	110		80 - 120	-	QC03172

Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.	% Rec. Limit	Prep Batch #	QC Batch #
MS	Dibromofluoromethane (mg/Kg)	51.1	1	50	JG	102	80 - 120	PB02727	QC03172
MS	Toluene-d8 (mg/Kg)	50.85	1	50	JG	102	80 - 120	PB02727	QC03172
MS	4-Bromofluorobenzene (mg/Kg)	45.55	1	50	JG	91	80 - 120	PB02727	QC03172

MSD	Vinyl Chloride (mg/L)	<0.05	1	5	4.12	82	1	-	0 - 20	QC03172
MSD	1,1-Dichloroethene (mg/L)	<0.05	1	5	4.66	93	0	-	0 - 20	QC03172
MSD	Methyl ethyl ketone (mg/L)	<0.50	1	5	4.54	91	7	-	0 - 20	QC03172
MSD	Chloroform (mg/L)	<0.05	1	5	5.11	102	0	-	0 - 20	QC03172
MSD	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	5	5.21	104	0	-	0 - 20	QC03172
MSD	Benzene (mg/L)	.05	1	5	5.02	99	0	-	0 - 20	QC03172
MSD	Carbon Tetrachloride (mg/L)	<0.05	1	5	5.06	101	0	-	0 - 20	QC03172
MSD	Trichloroethene (TCE) (mg/L)	<0.05	1	5	5.04	101	1	-	0 - 20	QC03172
MSD	Tetrachloroethene (PCE) (mg/L)	<0.05	1	5	4.52	90	0	-	0 - 20	QC03172
MSD	Chlorobenzene (mg/L)	<0.05	1	5	5.32	106	0	-	0 - 20	QC03172
MSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	5	5.52	110	1	-	0 - 20	QC03172

Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.	% Rec. Limit	Prep Batch #	QC Batch #
MSD	Dibromofluoromethane (mg/Kg)	51.35	1	50	JG	103	80 - 120	PB02727	QC03172
MSD	Toluene-d8 (mg/Kg)	50.92	1	50	JG	102	80 - 120	PB02727	QC03172
MSD	4-Bromofluorobenzene (mg/Kg)	45.77	1	50	JG	92	80 - 120	PB02727	QC03172

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	Pyridine (mg/L)		<0.05	1	80	27.34	34		0 - 92	-	QC03197
LCS	1,4-Dichlorobenzene (mg/L)		<0.05	1	80	38.10	48		39 - 87	-	QC03197
LCS	o-Cresol (mg/L)		<0.05	1	80	46.29	58		41 - 92	-	QC03197
LCS	m,p-Cresol (mg/L)		<0.05	1	160	83.66	52		7 - 127	-	QC03197
LCS	Hexachloroethane (mg/L)		<0.05	1	80	34.48	43		35 - 85	-	QC03197
LCS	Nitrobenzene (mg/L)		<0.05	1	80	55.76	70		43 - 108	-	QC03197
LCS	Hexachlorobutadiene (mg/L)		<0.05	1	80	40.43	51		38 - 89	-	QC03197
LCS	2,4,6-Trichlorophenol (mg/L)		<0.05	1	80	54.73	68		47 - 107	-	QC03197
LCS	2,4,5-Trichlorophenol (mg/L)		<0.05	1	80	53.73	67		49 - 105	-	QC03197
LCS	2,4-Dinitrotoluene (mg/L)		<0.05	1	80	61.89	77		49 - 105	-	QC03197
LCS	2,4-D (mg/L)		<0.05	1	80	68.64	86		0 - 127	-	QC03197
LCS	Hexachlorobenzene (mg/L)		<0.05	1	80	59.76	75		47 - 122	-	QC03197
LCS	2,4,5-TP (mg/L)		<0.05	1	80	55.25	69		0 - 130	-	QC03197
LCS	Pentachlorophenol (mg/L)		<0.05	1	80	35.65	45		33 - 99	-	QC03197

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	29.42	37	20 - 67	QC03197
LCS	Phenol-d5 (mg/Kg)	1	80	21.38	27	7 - 55	QC03197
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	49.50	62	33 - 116	QC03197
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	46.03	58	47 - 107	QC03197
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	58.43	73	47 - 113	QC03197
LCS	Terphenyl-d14 (mg/Kg)	1	80	55.21	69	47 - 124	QC03197

	Param		Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCSD	Pyridine (mg/L)	*	<0.05	1	80	11.13	14	84	-	0 - 20	QC03197
LCSD	1,4-Dichlorobenzene (mg/L)		<0.05	1	80	40.13	50	5	-	0 - 20	QC03197
LCSD	o-Cresol (mg/L)		<0.05	1	80	48.31	60	4	-	0 - 20	QC03197
LCSD	m,p-Cresol (mg/L)		<0.05	1	160	86.54	54	3	-	0 - 20	QC03197
LCSD	Hexachloroethane (mg/L)		<0.05	1	80	36.73	46	6	-	0 - 20	QC03197
LCSD	Nitrobenzene (mg/L)		<0.05	1	80	55.66	70	0	-	0 - 20	QC03197
LCSD	Hexachlorobutadiene (mg/L)		<0.05	1	80	40.70	51	1	-	0 - 20	QC03197
LCSD	2,4,6-Trichlorophenol (mg/L)		<0.05	1	80	56.38	70	3	-	0 - 20	QC03197
LCSD	2,4,5-Trichlorophenol (mg/L)		<0.05	1	80	55.15	69	3	-	0 - 20	QC03197
LCSD	2,4-Dinitrotoluene (mg/L)		<0.05	1	80	64.89	81	5	-	0 - 20	QC03197
LCSD	2,4-D (mg/L)		<0.05	1	80	66.52	83	3	-	0 - 20	QC03197
LCSD	Hexachlorobenzene (mg/L)		<0.05	1	80	62.48	78	4	-	0 - 20	QC03197
LCSD	2,4,5-TP (mg/L)		<0.05	1	80	57.79	72	4	-	0 - 20	QC03197
LCSD	Pentachlorophenol (mg/L)		<0.05	1	80	36.12	45	1	-	0 - 20	QC03197

* Pyridine - RPD out of control report samples as no Pyridine appeared in samples.

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	31.83	40	20 - 67	QC03197
LCSD	Phenol-d5 (mg/Kg)	1	80	22.12	28	7 - 55	QC03197
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.98	64	33 - 116	QC03197
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	47.97	60	47 - 107	QC03197
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	58.92	74	47 - 113	QC03197
LCSD	Terphenyl-d14 (mg/Kg)	1	80	56.90	71	47 - 124	QC03197

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Vinyl Chloride (mg/L)	<0.05	1	5	4.21	84		80 - 120	-	QC03172
LCS	1,1-Dichloroethene (mg/L)	<0.05	1	5	4.63	93		80 - 120	-	QC03172
LCS	Methyl ethyl ketone (mg/L)	<0.50	1	5	6.02	120		80 - 120	-	QC03172
LCS	Chloroform (mg/L)	<0.05	1	5	5.07	101		80 - 120	-	QC03172
LCS	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	5	5.04	101		80 - 120	-	QC03172
LCS	Benzene (mg/L)	<0.05	1	5	4.92	98		80 - 120	-	QC03172
LCS	Carbon Tetrachloride (mg/L)	<0.05	1	5	5.12	102		80 - 120	-	QC03172
LCS	Trichloroethene (TCE) (mg/L)	<0.05	1	5	4.92	98		80 - 120	-	QC03172
LCS	Tetrachloroethene (PCE) (mg/L)	<0.05	1	5	4.52	90		80 - 120	-	QC03172
LCS	Chlorobenzene (mg/L)	<0.05	1	5	5.23	105		80 - 120	-	QC03172
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	5	5.26	105		80 - 120	-	QC03172

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	Dibromofluoromethane (mg/Kg)	1	50	51.2	102	80 - 120	QC03172
LCS	Toluene-d8 (mg/Kg)	1	50	51.1	102	80 - 120	QC03172
LCS	4-Bromofluorobenzene (mg/Kg)	1	50	44.6	89	80 - 120	QC03172

LCSD	Vinyl Chloride (mg/L)	<0.05	1	5	4.21	84	0	-	0 - 20	QC03172
LCSD	1,1-Dichloroethene (mg/L)	<0.05	1	5	4.59	92	1	-	0 - 20	QC03172
LCSD	Methyl ethyl ketone (mg/L)	<0.50	1	5	6.01	120	0	-	0 - 20	QC03172
LCSD	Chloroform (mg/L)	<0.05	1	5	5.03	101	1	-	0 - 20	QC03172
LCSD	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	5	5.01	100	1	-	0 - 20	QC03172
LCSD	Benzene (mg/L)	<0.05	1	5	4.90	98	0	-	0 - 20	QC03172
LCSD	Carbon Tetrachloride (mg/L)	<0.05	1	5	5.10	102	0	-	0 - 20	QC03172
LCSD	Trichloroethene (TCE) (mg/L)	<0.05	1	5	4.91	98	0	-	0 - 20	QC03172
LCSD	Tetrachloroethene (PCE) (mg/L)	<0.05	1	5	4.53	91	0	-	0 - 20	QC03172
LCSD	Chlorobenzene (mg/L)	<0.05	1	5	5.22	104	0	-	0 - 20	QC03172
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	5	5.43	109	3	-	0 - 20	QC03172

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	Dibromofluoromethane (mg/Kg)	1	50	51.3	103	80 - 120	QC03172
LCSD	Toluene-d8 (mg/Kg)	1	50	51.9	104	80 - 120	QC03172
LCSD	4-Bromofluorobenzene (mg/Kg)	1	50	44.5	89	80 - 120	QC03172

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 #
CCV 1	Pyridine (mg/L)		60	56.91	95	0 - 92	6/13/00	QC03197
CCV 1	1,4-Dichlorobenzene (mg/L)		60	58.98	98	39 - 87	6/13/00	QC03197
CCV 1	o-Cresol (mg/L)		60	62.03	103	41 - 92	6/13/00	QC03197
CCV 1	m,p-Cresol (mg/L)		60	64.15	107	7 - 127	6/13/00	QC03197
CCV 1	Hexachloroethane (mg/L)		60	59.11	99	35 - 85	6/13/00	QC03197
CCV 1	Nitrobenzene (mg/L)		60	58.05	97	43 - 108	6/13/00	QC03197
CCV 1	Hexachlorobutadiene (mg/L)		60	56.23	94	38 - 89	6/13/00	QC03197
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	57.99	97	47 - 107	6/13/00	QC03197
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	56.76	95	49 - 105	6/13/00	QC03197
CCV 1	2,4-Dinitrotoluene (mg/L)		60	59.82	100	49 - 105	6/13/00	QC03197
CCV 1	2,4-D (mg/L)		60	58.45	97	0 - 127	6/13/00	QC03197
CCV 1	Hexachlorobenzene (mg/L)		60	58.45	97	47 - 122	6/13/00	QC03197
CCV 1	2,4,5-TP (mg/L)		60	57.95	97	0 - 130	6/13/00	QC03197
CCV 1	Pentachlorophenol (mg/L)		60	51.22	85	33 - 99	6/13/00	QC03197
CCV 1	2-Fluorophenol (mg/L)		60	59.02	98	20 - 67	6/13/00	QC03197
CCV 1	Phenol-d5 (mg/L)		60	61.13	102	7 - 55	6/13/00	QC03197
CCV 1	Nitrobenzene-d5 (mg/L)		60	57.33	96	33 - 116	6/13/00	QC03197
CCV 1	2-Fluorobiphenyl (mg/L)		60	57.45	96	47 - 107	6/13/00	QC03197
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.67	94	47 - 113	6/13/00	QC03197
CCV 1	Terphenyl-d14 (mg/L)		60	60.67	101	47 - 124	6/13/00	QC03197

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Vinyl Chloride (mg/L)		100	98	98	80 - 120	6/11/00	QC03172
CCV 1	1,1-Dichloroethene (mg/L)		100	94	94	80 - 120	6/11/00	QC03172
CCV 1	Methyl ethyl ketone (mg/L)		100	82	82	80 - 120	6/11/00	QC03172
CCV 1	Chloroform (mg/L)		100	96	96	80 - 120	6/11/00	QC03172
CCV 1	1,2-Dichloroethane (EDC) (mg/L)		100	93	93	80 - 120	6/11/00	QC03172
CCV 1	Benzene (mg/L)		100	95	95	80 - 120	6/11/00	QC03172
CCV 1	Carbon Tetrachloride (mg/L)		100	102	102	80 - 120	6/11/00	QC03172
CCV 1	Trichloroethene (TCE) (mg/L)		100	99	99	80 - 120	6/11/00	QC03172
CCV 1	Tetrachloroethene (PCE) (mg/L)		100	95	95	80 - 120	6/11/00	QC03172
CCV 1	Chlorobenzene (mg/L)		100	102	102	80 - 120	6/11/00	QC03172
CCV 1	1,4-Dichlorobenzene (mg/L)		100	106	106	80 - 120	6/11/00	QC03172
CCV 1	Dibromofluoromethane (mg/L)		50	51.39	103	80 - 120	6/11/00	QC03172
CCV 1	Toluene-d8 (mg/L)		50	52.77	106	80 - 120	6/11/00	QC03172
CCV 1	4-Bromofluorobenzene (mg/L)		50	43.11	86	80 - 120	6/11/00	QC03172

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

June 12, 2000
Receiving Date: 06/06/2000
Sample Type: Catalyst
Project No: NA
Project Location: NA

Sampling Date: 06/05/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T147372	D-280, 281	<0.10	<0.10	<0.02	<0.05	<0.10	<0.05	<0.10	<0.010
ICV		2.46	2.46	0.48	0.97	2.44	0.49	4.88	0.00548
CCV		2.50	2.51	0.49	1.00	2.50	0.50	5.01	0.00533
Reporting Limit		0.10	0.10	0.02	0.05	0.10	0.05	0.10	0.010
RPD		4	2	4	5	5	3	4	17
% Extraction Accuracy		92	90	95	97	94	83	107	107
% Instrument Accuracy		100	101	98	100	100	100	101	110
EXTRACTION DATE		06/06/2000	06/06/2000	06/06/2000	06/06/2000	06/06/2000	06/06/2000	06/06/2000	06/08/2000
ANALYSIS DATE		06/10/2000	06/10/2000	06/10/2000	06/10/2000	06/10/2000	06/10/2000	06/10/2000	06/09/2000

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: JM
METHODS: EPA SW 846-1311, 6010B, 7470A.
TCLP METALS SPIKE: 10.0 mg/L As, Se, Cd, Cr, Pb, Ba; 4.0 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 2.5 mg/L As, Pb, Se; 5.0 mg/L Ba; 0.50 mg/L Cd, Ag; 1.0 mg/L Cr; 0.005 mg/L Hg.

BS
Director, Dr. Blair Leftwich

6-16-00
Date

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

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

June 12, 2000
Receiving Date: 06/06/2000
Sample Type: Catalyst
Project No: NA
Project Location: NA

Prep Date: 06/06/2000
Analysis Date: 06/06/2000
Sampling Date: 06/05/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T147372	D-280, 281	Non-Reactive	<10	<2.5	Non-corrosive	7.82	Nonignitable
QC	Quality Control	---	---	---	---	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: MS

Director Dr. Blair Leftwich

6-12-00
DATE

147372

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
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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 # A0006060610

Company Name: NAVAJO REFINING Co
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN ARTESIA, 88210
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Grab/Comp	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
147372	D-280,281	1	1L					X			X	X		6/5/00	13:00						X	X	X		X										

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	6/5/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Crosby	6-6-00	10:00

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp 22 °
Log-in Review

REMARKS:
PLEASE FAX A COPY OF THE COC WITH RESULTS.
6/16/00

Carrier # FedEx 288-1003-203

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

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/

Submit Origi
Plus 1 Co
to appropri
District Off

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 BES
3. Address of Facility Operator P.O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 EAST 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:

06-006

FILTERS - USED TO SEPERATE SOLIDS AND OTHER IMPURITIES BEFORE WASTEWATER IS SENT TO THE INJECTIONS WELLS.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS, AND CHAIN OF CUSTODY. THE PROCESS HAS NOT CHANGED.

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

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 6-30-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 07-10-00

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: **Process has not changed - Previous analysis enclosed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rental 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: 6/27/00

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

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

BL

Director, Dr. Blair Leftwich

10-14-99

Date

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E-Mail: lab@traceanalysis.com

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 LIMIT	Reporting Limit	T132779 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	61
Phenol-d6	41
Nitrobenzene-d5	107
2-Fluorobiphenyl	103
2,4,6-Tribromophenol	109
Terphenyl-d14	100

ND = Not Detected
METHODS: EPA SW 846-1311, 8270
CHEMIST: MA

Director, Dr. Blair Leftwich

10-14-99
Date

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E-Mail: lab@traceanalysis.com

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: Byran 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)
	EPA LIMIT =	5.0	100	1.0	5.0	5.0	1.0	5.0	0.20
T132779	Inject Well Filter	<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
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

TRACEANALYSIS, 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 CO.
Attention: Byran Madrid
501 E. Main
Artesia, NM 88209

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

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 =	---	500	250	---	<2 >12.5	---
T132779	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

132779-80

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 # 99100507

Company Name: NAVAJO REFINING CO. Phone #: (505) 748-3311

Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210 Fax #: (505) 748-9077

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	FILTER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
132779	INJECT. WELL FILTER	1	1L					X			X	X	10/4/99	13:00						X	X	X		X							
80	FLUORIDE PRECIP.	1	1L				X				X	X	10/4/99	13:30						X	X	X		X							

Relinquished by: Bryan Madrid Date: 10/4/99 Time: 16:15
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Vicki Wrndhm Date: 10-5-99 Time: 9:00

LAB USE ONLY
Intact (Y) N
Headspace Y / N
Temp 5°C
Log-in Review MS

REMARKS:

10/14/99

Carrier # FedEx 264 2874 656

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

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/

Submit Origi
Plus 1 Co
to appropri
District Off

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 BES
3. Address of Facility Operator P.O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 EAST 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:

06-007

CATALYST (D-342) STRIPS HYDROGEN CHLORIDE FROM REFORMATE IN THE CCR UNIT.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS, AND CHAIN OF CUSTODY. THE PROCESS HAS NOT CHANGED.

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

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Dennis Williams TITLE: Environ. Eng. Specialist DATE: 06-30-00

APPROVED BY: Martyne J Kieling TITLE: Environmental Geologist DATE: 07-10-00

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-342 Catalyst**

ESTIMATED VOLUME: **30 yards**

GENERATING PROCESS: **Catalyst strips hydorgen chloride from reformate in the Continuous Catalytic Regeneration (CCR) Reformer Unit.**

REMARKS: **Ealier analysis enclosed - Process has not changed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rental**

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: 6/27/00

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E-Mail: lab@traceanalysis.com

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

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 03/08/98
Analysis Date: 03/09/98
Sampling Date: 03/03/98
Sample Condition: I & C
Sample Received by: BW
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T92665/980823 D-342	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	111	4	117	111
1,1-Dichloroethene	0.70	0.05	ND	95	3	103	95
Methyl Ethyl Ketone	200.0	0.5	ND	106	3	105	106
Chloroform	6.00	0.05	ND	100	2	110	100
1,2-Dichloroethane	0.50	0.05	ND	101	4	110	101
Benzene	0.50	0.05	ND	105	0	111	105
Carbon Tetrachloride	0.50	0.05	ND	83	2	113	83
Trichloroethene	0.50	0.05	ND	98	0	104	98
Tetrachloroethene	0.70	0.05	ND	98	3	107	98
Chlorobenzene	100.00	0.05	ND	101	0	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	100	1	104	100

SURROGATES	**% Recovery**
Dibromofluoromethane	100
Toluene-d8	96
4-Bromofluorobenzene	97

ND = Not Detected

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

Director, Dr. Blair Leftwich

3-13-98
DATE

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E-Mail: lab@traceanalysis.com

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

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 03/05/98
Analysis Date: 03/08/98
Sampling Date: 03/03/98
Sample Condition: Intact & Cool
Sample Received by: BW
Project Name: NA

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T92665/980823 D-342	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	76	47**	34	95
1,4-Dichlorobenzene	7.5	0.05	ND	75	27**	46	94
o-Cresol	200.0	0.05	ND	71	23**	69	89
m,p-Cresol	200.0	0.05	ND	78	23**	120	97
Hexachloroethane	3.0	0.05	ND	76	30**	35	95
Nitrobenzene	2.0	0.05	ND	75	26**	78	94
Hexachlorobutadiene	0.5	0.05	ND	75	33**	35	94
2,4,6-Trichlorophenol	2.0	0.05	ND	73	25**	79	91
2,4,5-Trichlorophenol	400.0	0.05	ND	84	26**	79	105
2,4-Dinitrotoluene	0.13	0.05	ND	73	35**	87	91
2,4-D	10.0	0.05	ND	80	39**	70	100
Hexachlorobenzene	0.13	0.05	ND	76	26**	76	95
2,4,5-TP	1.0	0.05	ND	73	44**	1	91
Pentachlorophenol	100.0	0.05	ND	77	38**	68	96

Surrogates	**% RECOVERY**
2-Fluorophenol	50
Phenol-d6	36
Nitrobenzene-d5	74
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	94
Terphenyl-d14	75

****NOTE: RPD out of range <20%.**

ND - Not Detected

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

3-13-98

Director, Dr. Blair Leftwich

DATE

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E-Mail lab@traceanalysis.com

ANALYTICAL REPORT

CLIENT Navajo Refing Co.
501 E. Main
Artesia, NM 88211

SAMPLE NO. : 980823
INVOICE NO.: 22101770
REPORT DATE: 03-13-98
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : D-342
SAMPLE TYPE .....: Catalyst
SAMPLED BY .....: BM
SUBMITTED BY ....: BM
SAMPLE SOURCE ...: --

AUTHORIZED BY : B. Madrid
CLIENT P.O. : --
SAMPLE DATE ...: 03-03-98
SUBMITTAL DATE : 03-04-98
EXTRACTION DATE: --

REMARKS -

Matrix spike and matrix spike duplicate were out of acceptance criteria range possibly due to matrix interference for the following parameter(s): Silver.

TCLP Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Arsenic (TCLP) .....:	<0.050	mg/L	0.050	03-10-98	SW846 7061	N. Munir
Barium (TCLP) .....:	<5.0	mg/L	5.0	03-11-98	SW846 7080A	N. Munir
Cadmium (TCLP) .....:	<0.25	mg/L	0.25	03-11-98	SW846 7130	N. Munir
Chromium (TCLP) .....:	<0.50	mg/L	0.50	03-11-98	SW846 7190	N. Munir
Lead (TCLP) .....:	<0.75	mg/L	0.75	03-11-98	SW846 7420	N. Munir
Mercury (TCLP) .....:	<0.010	mg/L	0.010	03-06-98	SW846 7471A	N. Munir
Selenium (TCLP) .....:	<0.050	mg/L	0.050	03-11-98	SW846 7741A	N. Munir
Silver (TCLP) .....:	<0.25	mg/L	0.25	03-11-98	SW846 7760A	N. Munir

(1) Copy to Client

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E-Mail: lab@traceanalysis.com

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

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 03/05/98
Analysis Date: 03/05/98
Sampling Date: 03/03/98
Sample Condition: Intact & Cool
Sample Received by: BW
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T92665/980823	D-342	Non-reactive	40	5.0	Non-corrosive	10.7	Nonignitable
QC	Quality Control	---	---	---	---	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

3-13-98
DATE

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #

Company Name: NAVAJO REFINING CO.
Phone #:
Address: 501 E. MAIN
Fax #:
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	MATRIX: CATALYST	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	SAMPLING: DATE	SAMPLING: TIME
980823	D-342	1	1L					X				X	3/3/98	10:30
824	CRUDE CONT. SOIL	1	1L		X							X	3/3/98	12:15

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard	Hold
980823						X	X	X	X							
824						X	X	X	X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	3-3-98	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				3-4-98	1010

LAB USE ONLY
Intact (Y) N
Headspace ~~Y / N~~ N/A
Temp 2 °C
Log-in Review

REMARKS:
349 2990 934

Carrier # FED-EX 349 2990 934

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

Form C-13
Originated 8/8/

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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 BES
3. Address of Facility Operator P.O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 EAST 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:

06-009

ASPHALT SAMPLE CAN.
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 IN A BARREL UNTIL APPROVED FOR DISPOSAL.

I AM ENCLOSING A CERTIFICATE OF WASTE STATUS AND COPY OF PREVIOUS C-138. THIS WASTE HAS BEEN APPROVED IN THE PAST.

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

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 06-30-00

APPROVED BY: Martyne J Kieling TITLE: Martyne J Kieling DATE: 07-10-00

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 Incorportated**

TRUCKING COMPANY: **BES Rental 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 6/27/00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Oil Conservation Division

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District

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 FACILIT
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter 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	NEW MEXICO

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from th Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis t PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous b listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

04-002

ASPHALT SAMPLE CANS. 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. THIS WASTE HAS BEEN APPROVED IN THE PAST. I AM ENCLOSING A CERTIFICATE OF WASTE STATUS AND COPY OF PREVIOUS C-138 PER MARTYNE KIELING'S INSTRUCTIONS.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 4-6-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. 505-303-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 4-7-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4-16-00

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Originated 8/8/

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District Off

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 BES
3. Address of Facility Operator P.O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 EAST 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:

06-008

FCC CATALYST FINES.
THESE ARE FINE PARTICLES FROM CATALYST COLLECTED IN THE CYCLONES AT THE FCC UNIT DURING REGENERATION PROCESS.

I AM ENCLOSING CERTIFICATE OF WASTE STATUS AND COPY OF PREVIOUS C-138. THIS WASTE HAS BEEN APPROVED IN THE PAST.

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

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 06-30-00

APPROVED BY: Martyn J. Kieh TITLE: Environmental Geologist DATE: 07-10-00

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: **40 Yards**

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 Incorportated**

TRUCKING COMPANY: **BES Rentals 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA,NM 88210

DATE: 6/27/00

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

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Oil Conservation Division

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Submit O
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District

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 FACILIT
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter 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	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:

04-001

FCC CATALYST FINES. THESE ARE THE FINE PARTICLES FROM CATALYST COLLECTED IN THE CYCLONES AT THE FCC UNIT DURING THE REGENERATION PROCESS. THIS WASTE HAS BEEN APPROVED IN THE PAST. I AM ENCLOSING A CERTIFICATE OF WASTE STATUS AND COPY OF PREVIOUS C-138 PER MARTYNE KIELING'S INSTRUCTIONS.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 4-6-00
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: 4-7-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4-10-00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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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 BES
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	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:

08-006

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

I am enclosing Analytical data, Non-exempt Certificate of Waste Status, and Chain of Custody.

Estimated Volume 15 - 55 Gal. Drums cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-03-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 8-10-00

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: **fifteen 55 gallon drums**

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

REMARKS: **TCLP from Trace Analysis, Inc.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rentals 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 8/1/00

TRACEANALYSIS, 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

July 11, 2000
Receiving Date: 06/29/00
Sample Type: Sludge
Project #: N/A
Project Location:

Sampling Date: 06/28/00
Sample Condition: I & C
Sample Received by: VH
Project Name:

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
T148982	Sewer Inserts	<0.10	0.17	<0.02	<0.05	<0.10	<0.10	<0.05	<0.010
ICV		2.53	5.04	0.51	1.01	2.49	2.57	0.50	0.00532
CCV		2.52	5.09	0.50	1.00	2.48	2.55	0.50	0.00540
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		2	2	2	2	1	1	2	1
% Extraction Accuracy		96	97	97	97	97	85	93	115
% Instrument Accuracy		101	102	100	100	99	102	100	106
EXTRACTION DATE:		6/29/00	6/29/00	6/29/00	6/29/00	6/29/00	6/29/00	6/29/00	07/03/00
ANALYSIS DATE:		6/30/00	6/30/00	6/30/00	6/30/00	6/30/00	6/30/00	6/30/00	07/05/00

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, Pb; 2.0 mg/L Ag, Cd; 4.0 mg/L Cr; 20 mg/L Ba; Hg SPIKE 0.050 mg/L
TOTAL METALS CV: 2.50 mg/L As, Pb, Se; 0.50 mg/L Ag, Cd; 5.0 mg/L Ba; 1.0 mg/L Cr; Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

7-11-00
Date

TRACEANALYSIS, 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

July 11, 2000
Receiving Date: 06/29/00
Sample Type: Sludge
Project #: N/A
Project Location:

Extraction Date: 06/29/00
Analysis Date: 06/29/00
Sampling Date: 06/28/00
Sample Condition: I & C
Sample Received by: VH
Project Name:

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T148982	Sewer Inserts	Non-reactive	70	9	Non-corrosive	7.03	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: MS

Director, Dr. Blair Leftwich

7-11-00
Date

TRACEANALYSIS, 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

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

Report Date: July 12, 2000

Order ID Number: A00062917

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

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
148982	Sewer Inserts	Sludge	6/28/00	15:30	6/29/00

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 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 148982 - Sewer Inserts

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC03639 Date Analyzed: 7/7/00
Analyst: MA Preparation Method: 1311 Prep Batch: PB03138 Date Prepared: 6/30/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		6.05	mg/Kg	1	80	7	20 - 67
Phenol-d5		8.80	mg/Kg	1	80	11	7 - 55
Nitrobenzene-d5		17.92	mg/Kg	1	80	22	33 - 116
2-Fluorobiphenyl		23.83	mg/Kg	1	80	29	47 - 107
2,4,6-Tribromophenol		46.19	mg/Kg	1	80	57	47 - 113
Terphenyl-d14		51.20	mg/Kg	1	80	64	47 - 124

Sample: 148982 - Sewer Inserts

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC03568 Date Analyzed: 7/2/00
Analyst: JG Preparation Method: 1311 Prep Batch: PB03071 Date Prepared: 7/1/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.05	mg/L	1	0.001
1,1-Dichloroethene		<0.05	mg/L	1	0.001
Methyl ethyl ketone		<0.50	mg/L	1	0.001
Chloroform		<0.05	mg/L	1	0.001
1,2-Dichloroethane (EDC)		<0.05	mg/L	1	0.001
Benzene		<0.05	mg/L	1	0.001
Carbon Tetrachloride		<0.05	mg/L	1	0.001
Trichloroethene (TCE)		<0.05	mg/L	1	0.001
Tetrachloroethene (PCE)		<0.05	mg/L	1	0.001
Chlorobenzene		<0.05	mg/L	1	0.001
1,4-Dichlorobenzene		<0.05	mg/L	1	0.001

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC03568

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<0.05	mg/L	0.001
1,1-Dichloroethene		<0.05	mg/L	0.001
Methyl ethyl ketone		<0.50	mg/L	0.001
Chloroform		<0.05	mg/L	0.001
1,2-Dichloroethane (EDC)		<0.05	mg/L	0.001
Benzene		<0.05	mg/L	0.001
Carbon Tetrachloride		<0.05	mg/L	0.001
Trichloroethene (TCE)		<0.05	mg/L	0.001
Tetrachloroethene (PCE)		<0.05	mg/L	0.001
Chlorobenzene		<0.05	mg/L	0.001
1,4-Dichlorobenzene		<0.05	mg/L	0.001

Sample: Method Blank QCBatch: QC03639

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.05	mg/L	0.05
1,4-Dichlorobenzene		<0.05	mg/L	0.05
o-Cresol		<0.05	mg/L	0.05
m,p-Cresol		<0.05	mg/L	0.05
Hexachloroethane		<0.05	mg/L	0.05
Nitrobenzene		<0.05	mg/L	0.05
Hexachlorobutadiene		<0.05	mg/L	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	0.05
2,4-Dinitrotoluene		<0.05	mg/L	0.05
2,4-D		<0.05	mg/L	0.05
Hexachlorobenzene		<0.05	mg/L	0.05
2,4,5-TP		<0.05	mg/L	0.05
Pentachlorophenol		<0.05	mg/L	0.05

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		21.65	mg/L	80	27	20 - 67
Phenol-d5		13.64	mg/L	80	17	7 - 55
Nitrobenzene-d5		42.53	mg/L	80	53	33 - 116
2-Fluorobiphenyl		45.32	mg/L	80	56	47 - 107
2,4,6-Tribromophenol		45.28	mg/L	80	56	47 - 113
Terphenyl-d14		50.75	mg/L	80	63	47 - 124

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC03568

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.61	mg/L	1	5	<0.05	112		80 - 120	20
1,1-Dichloroethene		5.81	mg/L	1	5	<0.05	116		80 - 120	20
Methyl ethyl ketone		4.46	mg/L	1	5	<0.50	89		80 - 120	20
Chloroform		6.05	mg/L	1	5	<0.05	121		80 - 120	20
1,2-Dichloroethane (EDC)		6.09	mg/L	1	5	<0.05	121		80 - 120	20
Benzene		5.95	mg/L	1	5	<0.05	119		80 - 120	20
Carbon Tetrachloride		6.17	mg/L	1	5	<0.05	123		80 - 120	20
Trichloroethene (TCE)		5.71	mg/L	1	5	<0.05	114		80 - 120	20
Tetrachloroethene (PCE)		4.81	mg/L	1	5	<0.05	96		80 - 120	20
Chlorobenzene		5.78	mg/L	1	5	<0.05	115		80 - 120	20
1,4-Dichlorobenzene		5.57	mg/L	1	5	<0.05	111		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.9	mg/Kg	1	50	101	80 - 120
Toluene-d8		51.4	mg/Kg	1	50	102	80 - 120
4-Bromofluorobenzene		45.73	mg/Kg	1	50	91	80 - 120

Sample: LCSD QC Batch: QC03568

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.46	mg/L	1	5	<0.05	109	3	80 - 120	20
1,1-Dichloroethene		5.65	mg/L	1	5	<0.05	113	3	80 - 120	20
Methyl ethyl ketone		5.27	mg/L	1	5	<0.50	105	17	80 - 120	20
Chloroform		5.86	mg/L	1	5	<0.05	117	3	80 - 120	20
1,2-Dichloroethane (EDC)		5.86	mg/L	1	5	<0.05	117	4	80 - 120	20
Benzene		5.86	mg/L	1	5	<0.05	117	2	80 - 120	20
Carbon Tetrachloride		6.11	mg/L	1	5	<0.05	122	1	80 - 120	20
Trichloroethene (TCE)		5.63	mg/L	1	5	<0.05	112	1	80 - 120	20
Tetrachloroethene (PCE)		4.78	mg/L	1	5	<0.05	95	1	80 - 120	20
Chlorobenzene		5.70	mg/L	1	5	<0.05	114	1	80 - 120	20
1,4-Dichlorobenzene		5.54	mg/L	1	5	<0.05	110	0	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		50.6	mg/Kg	1	50	101	80 - 120
Toluene-d8		51.44	mg/Kg	1	50	102	80 - 120

Continued ...

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Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
4-Bromofluorobenzene		45.34	mg/Kg	1	50	90	80 - 120

Sample: LCS QC Batch: QC03639

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		28.43	mg/L	1	80	<0.05	35		0 - 92	20
1,4-Dichlorobenzene		35.78	mg/L	1	80	<0.05	44		39 - 87	20
o-Cresol		36.73	mg/L	1	80	<0.05	45		41 - 92	20
m,p-Cresol		67.07	mg/L	1	160	<0.05	41		7 - 127	20
Hexachloroethane		33.70	mg/L	1	80	<0.05	42		35 - 85	20
Nitrobenzene		48.52	mg/L	1	80	<0.05	60		43 - 108	20
Hexachlorobutadiene		37.66	mg/L	1	80	<0.05	47		38 - 89	20
2,4,6-Trichlorophenol		48.24	mg/L	1	80	<0.05	60		47 - 107	20
2,4,5-Trichlorophenol		47.27	mg/L	1	80	<0.05	59		49 - 105	20
2,4-Dinitrotoluene		51.13	mg/L	1	80	<0.05	63		49 - 105	20
2,4-D		60.15	mg/L	1	80	<0.05	75		0 - 127	20
Hexachlorobenzene		53.13	mg/L	1	80	<0.05	66		47 - 122	20
2,4,5-TP		56.95	mg/L	1	80	<0.05	71		0 - 130	20
Pentachlorophenol		41.61	mg/L	1	80	<0.05	52		33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		29.89	mg/L	1	80	37	20 - 67
Phenol-d5		19.61	mg/L	1	80	24	7 - 55
Nitrobenzene-d5		46.26	mg/L	1	80	57	33 - 116
2-Fluorobiphenyl		50.66	mg/L	1	80	63	47 - 107
2,4,6-Tribromophenol		48.80	mg/L	1	80	61	47 - 113
Terphenyl-d14		47.68	mg/L	1	80	59	47 - 124

Sample: LCSD QC Batch: QC03639

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		29.02	mg/L	1	80	<0.05	36	2	0 - 92	20
1,4-Dichlorobenzene		35.98	mg/L	1	80	<0.05	44	0	39 - 87	20
o-Cresol		36.53	mg/L	1	80	<0.05	45	0	41 - 92	20
m,p-Cresol		63.76	mg/L	1	160	<0.05	39	5	7 - 127	20
Hexachloroethane		34.34	mg/L	1	80	<0.05	42	2	35 - 85	20
Nitrobenzene		49.25	mg/L	1	80	<0.05	61	1	43 - 108	20
Hexachlorobutadiene		40.18	mg/L	1	80	<0.05	50	6	38 - 89	20
2,4,6-Trichlorophenol		48.42	mg/L	1	80	<0.05	60	0	47 - 107	20
2,4,5-Trichlorophenol		48.66	mg/L	1	80	<0.05	60	3	49 - 105	20

Continued ...

... Continued

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
2,4-Dinitrotoluene		45.01	mg/L	1	80	<0.05	56	13	49 - 105	20
2,4-D		53.78	mg/L	1	80	<0.05	67	11	0 - 127	20
Hexachlorobenzene		53.86	mg/L	1	80	<0.05	67	1	47 - 122	20
2,4,5-TP		57.01	mg/L	1	80	<0.05	71	0	0 - 130	20
Pentachlorophenol		38.17	mg/L	1	80	<0.05	47	9	33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		25.70	mg/L	1	80	32	20 - 67
Phenol-d5		17.07	mg/L	1	80	21	7 - 55
Nitrobenzene-d5		46.11	mg/L	1	80	57	33 - 116
2-Fluorobiphenyl		54.03	mg/L	1	80	67	47 - 107
2,4,6-Tribromophenol		43.96	mg/L	1	80	54	47 - 113
Terphenyl-d14		44.91	mg/L	1	80	56	47 - 124

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC03568

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.76	mg/L	1	5	<0.05	115		80 - 120	20
1,1-Dichloroethene		5.80	mg/L	1	5	<0.05	116		80 - 120	20
Methyl ethyl ketone		4.26	mg/L	1	5	<0.50	85		80 - 120	20
Chloroform		6.11	mg/L	1	5	<0.05	122		80 - 120	20
1,2-Dichloroethane (EDC)		6.18	mg/L	1	5	<0.05	123		80 - 120	20
Benzene		6.05	mg/L	1	5	<0.05	121		80 - 120	20
Carbon Tetrachloride		6.36	mg/L	1	5	<0.05	127		80 - 120	20
Trichloroethene (TCE)		5.75	mg/L	1	5	<0.05	115		80 - 120	20
Tetrachloroethene (PCE)		4.80	mg/L	1	5	<0.05	96		80 - 120	20
Chlorobenzene		5.78	mg/L	1	5	<0.05	115		80 - 120	20
1,4-Dichlorobenzene		5.67	mg/L	1	5	<0.05	113		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		51.69	mg/Kg	1	50	103	80 - 120
Toluene-d8		51.33	mg/Kg	1	50	102	80 - 120
4-Bromofluorobenzene		44.61	mg/Kg	1	50	89	80 - 120

Sample: MSD QC Batch: QC03568

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.68	mg/L	1	5	<0.05	113	1	80 - 120	20
1,1-Dichloroethene		5.67	mg/L	1	5	<0.05	113	2	80 - 120	20
Methyl ethyl ketone		4.13	mg/L	1	5	<0.50	82	3	80 - 120	20
Chloroform		6.03	mg/L	1	5	<0.05	120	1	80 - 120	20
1,2-Dichloroethane (EDC)		6.14	mg/L	1	5	<0.05	122	1	80 - 120	20
Benzene		6.00	mg/L	1	5	<0.05	120	1	80 - 120	20
Carbon Tetrachloride		6.33	mg/L	1	5	<0.05	126	0	80 - 120	20
Trichloroethene (TCE)		5.65	mg/L	1	5	<0.05	113	2	80 - 120	20
Tetrachloroethene (PCE)		4.72	mg/L	1	5	<0.05	94	2	80 - 120	20
Chlorobenzene		5.72	mg/L	1	5	<0.05	114	1	80 - 120	20
1,4-Dichlorobenzene		5.45	mg/L	1	5	<0.05	109	4	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		51.73	mg/Kg	1	50	103	80 - 120
Toluene-d8		51.59	mg/Kg	1	50	103	80 - 120

Continued ...

... Continued

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
4-Bromofluorobenzene		45.21	mg/Kg	1	50	90	80 - 120

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC03568

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	104	104	80 - 120	7/2/00
1,1-Dichloroethene		mg/L	100	97	97	80 - 120	7/2/00
Methyl ethyl ketone		mg/L	100	93	93	80 - 120	7/2/00
Chloroform		mg/L	100	99	99	80 - 120	7/2/00
1,2-Dichloroethane (EDC)		mg/L	100	101	101	80 - 120	7/2/00
Benzene		mg/L	100	91	91	80 - 120	7/2/00
Carbon Tetrachloride		mg/L	100	101	101	80 - 120	7/2/00
Trichloroethene (TCE)		mg/L	100	89	89	80 - 120	7/2/00
Tetrachloroethene (PCE)		mg/L	100	80	80	80 - 120	7/2/00
Chlorobenzene		mg/L	100	88	88	80 - 120	7/2/00
1,4-Dichlorobenzene		mg/L	100	90	90	80 - 120	7/2/00
Dibromofluoromethane		mg/L	50	57.7	115	80 - 120	7/2/00
Toluene-d8		mg/L	50	50.4	100	80 - 120	7/2/00
4-Bromofluorobenzene		mg/L	50	50.9	101	80 - 120	7/2/00

Sample: CCV (1) QC Batch: QC03639

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pyridine		mg/L	60	58.91	98	0 - 92	7/7/00
1,4-Dichlorobenzene		mg/L	60	58.45	97	39 - 87	7/7/00
o-Cresol		mg/L	60	54.47	90	41 - 92	7/7/00
m,p-Cresol		mg/L	60	53.67	89	7 - 127	7/7/00
Hexachloroethane		mg/L	60	57.19	95	35 - 85	7/7/00
Nitrobenzene		mg/L	60	63.25	105	43 - 108	7/7/00
Hexachlorobutadiene		mg/L	60	60.45	100	38 - 89	7/7/00
2,4,6-Trichlorophenol		mg/L	60	59.60	99	47 - 107	7/7/00
2,4,5-Trichlorophenol		mg/L	60	57.65	96	49 - 105	7/7/00
2,4-Dinitrotoluene		mg/L	60	61.39	102	49 - 105	7/7/00
2,4-D		mg/L	60	59.09	98	0 - 127	7/7/00
Hexachlorobenzene		mg/L	60	57.48	95	47 - 122	7/7/00
2,4,5-TP		mg/L	60	51.83	86	0 - 130	7/7/00
Pentachlorophenol		mg/L	60	59.73	99	33 - 99	7/7/00
2-Fluorophenol		mg/L	60	58.05	96	20 - 67	7/7/00
Phenol-d5		mg/L	60	56.75	94	7 - 55	7/7/00
Nitrobenzene-d5		mg/L	60	58.31	97	33 - 116	7/7/00
2-Fluorobiphenyl		mg/L	60	58.34	97	47 - 107	7/7/00
2,4,6-Tribromophenol		mg/L	60	56.05	93	47 - 113	7/7/00
Terphenyl-d14		mg/L	60	51.73	86	47 - 124	7/7/00

14870

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 # 1000628917

Company Name: NAVAJO REFINING CO.
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
14899	SEWER INSERTS	1	1L				X			X	X	6/28/00	15:30						X	X	X		X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	6/28/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Ainsley	6-29-00	10:00

LAB USE ONLY
Intact: Y / N
Headspace: Y / N
Temp: 2°
Log-In Review: MS

REMARKS: 7/12/00

Carrier # Fed Ex 289-7260-694

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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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 BES
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	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:

08-005

Asphalt Sample Cans.
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 in a barrel until approved for disposal.

I am enclosing a Certificate of Waste Status and copy of previous C-138.
This waste has been approved in the past.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-03-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 8-8-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 8-10-00

Hobbs, NM 88241-1980
District II - (505) 748-1283
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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

06-009

ASPHALT SAMPLE CAN.
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 IN A BARREL UNTIL APPROVED FOR DISPOSAL.

I AM ENCLOSING A CERTIFICATE OF WASTE STATUS AND COPY OF PREVIOUS C-138. THIS WASTE HAS BEEN APPROVED IN THE PAST.

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

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN-MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 06-30-00

APPROVED BY: Martyne J. Kieling TITLE: Martyne J. Kieling DATE: 07-10-00

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 Incorportated**

TRUCKING COMPANY: **BES Rental 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 8/1/00

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

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Navajo Refining
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter BES
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	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:

08-004

FCC Catalyst Fines.
These are fine particles from catalyst collected in the cyclones at the FCC Unit during the regeneration process.

I am enclosing Certificate of Waste status and copy of previous C-138.
This waste has been approved in the past.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-03-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 8-8-00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 8-10-00

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
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Oil Conservation Division
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(505) 827-7131

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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 BES
3. Address of Facility Operator P.O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 EAST 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:

06-008

FCC CATALYST FINES.
THESE ARE FINE PARTICLES FROM CATALYST COLLECTED IN THE CYCLONES AT THE FCC UNIT DURING REGENERATION PROCESS.

I AM ENCLOSING CERTIFICATE OF WASTE STATUS AND COPY OF PREVIOUS C-138. THIS WASTE HAS BEEN APPROVED IN THE PAST.

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

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 06-30-00

APPROVED BY: Martyn J. Parker TITLE: Environmental Geologist DATE: 07-10-00

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: **30 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 Incorportated**

TRUCKING COMPANY: **BES Rentals 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA,NM 88210

DATE: 8/1/08

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) 334-617
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

09-004

Dissolved aid flotation (DAF) float. Generated from the seperation of solids from water during the treatment of wastewater. Volume will be approximately twenty yards of waste a week.

Enclosed is a Certificate of Waste status, a letter from the NMED, process letter from Navajo for the ongoing waste stream, analytical data, and chain of custody.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeper DATE: 09-27-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 9-28-00

APPROVED BY: Marilyn [illegible] TITLE: Environmental Geologist DATE: 10-3-00

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: Dissolved air floatation (DAF) float

ESTIMATED VOLUME: Approximately 20 yards per week

GENERATING PROCESS: Generated from the separation of solids from water During the treatment of Navajo's wastewater.

REMARKS: Analysis and letter from the NMED enclosed

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: BES Rental 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: BRYAN MADRID
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA, NM 88210

DATE: 9/26/00

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous Waste Bureau
2044 A Galisteo Street
Santa Fe, New Mexico 87505
Telephone (505) 827-1557
Fax (505) 827-1544

GARY E. JOHNSON
GOVERNOR

PETER MAGGIORE
SECRETARY

PAUL R. RITZMA
DEPUTY SECRETARY

re: 11/16/00

no longer listed Haz waste) it's official!

CYS TO:
RRH
MPC
DGM
WJC
FDG
SWC
PLY
J.T. Smith
Klaus Sessler, Scottsdale
file (original) - WASTE, DAF
Change to non-Haz

CERTIFIED MAIL
RETURN RECEIPT REQUIRED

July 19, 2000

Mr. Darrel Moore
Navajo Refining Company
501 East Main Street
P.O. Box 159
Artesia, New Mexico 88211-0159

RE: LISTING DETERMINATION FOR DISSOLVED AIR FLOATATION (DAF) FLOAT FACILITY WASTEWATER TREATMENT SYSTEM NAVAJO REFINERY FACILITY, ARTESIA, NEW MEXICO

Dear Mr. Moore:

This letter is in response to a request by Navajo Refining Company, dated May 17, 2000, for concurrence that the dissolved air flotation (DAF) float generated in Navajo's DAF unit is not considered as listed waste under 20.4.1.200 NMAC (incorporating 40 CFR 261 Subpart D). The DAF unit is located downstream of the aggressive biological treatment (ABT) unit of the wastewater treatment system currently in operation at the Artesia Refinery. The New Mexico Environment Department (NMED) Hazardous Waste Bureau (HWB) has concluded that, based on information supplied in the letter request and subsequent correspondence, the DAF float is not considered to be K048 waste as defined in 40 CFR §261.32 (incorporated at 20.1.200 NMAC).

Navajo Refining Company must continue to meet the definition of ABT in the wastewater treatment system as defined in 40 CFR §261.31(b) and comply with the terms and conditions of the underground injection well discharge plan approved by the New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division in order to maintain the unlisted status of the DAF float. In addition, the DAF float must be sampled in August 2000 and quarterly

thereafter for two consecutive quarters followed by semi-annual sampling. The DAF float also must be sampled within 15 days of any significant change to the refining process. The DAF float samples must be submitted to an analytical laboratory for chemical analysis for characteristic hazardous waste as specified in 20.4.1.200 NMAC (incorporating 40CFR §§261.20 through 261.24). Navajo Refining Company must submit copies of the final laboratory reports to the HWB within 7 days of receipt from the analytical laboratory. The DAF float must be handled as hazardous waste if chemical analysis indicates any characteristic of hazardous waste as defined in 20.4.1.200 NMAC (incorporating 40 CFR 261 Subpart D).

Please call this office at (505) 827-1561 if you have questions regarding the anticipated schedule for issuance of the post-closure care permit for the subject site listed above.

Sincerely,

David Cobrain
Project Manager
Hazardous Waste Bureau

cc: James P. Bearzi, NMED HWB
John E. Kieling, NMED HWB
Wayne Price, NMOCD
Charles deSaillan, NMED OGC
Connie Pasteris, NMED HWB
Pam Allen, NMED HWB

file: Red/NRC/00
Track: NRC/Moore/Cobrain/07-19-00/DAF float listing determination

TRACEANALYSIS, 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

April 26, 2000
Receiving Date: 04/13/2000
Sample Type: Sludge
Project No: NA
Project Location: NA

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

Prep Date: 04/26/2000
Analysis Date: 04/26/2000
Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	–	500	250	–	<2 >12.5	–
T144450	Sewer Inserts	Non-Reactive	125	15	Non-corrosive	6.66	Nonignitable
T144451	DAF	Non-Reactive	30	5	Non-corrosive	7.51	Nonignitable
QC	Quality Control	–	–	–	–	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: JM

4-26-00

TRACEANALYSIS, 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

April 24, 2000
Receiving Date: 04/13/2000
Sample Type: Sludge
Project No: NA
Project Location: NA

Extraction Date: 04/17/2000
Analysis Date: 04/18/2000
Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T144451 DAF	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	116	2	93	116
1,1-Dichloroethene	0.70	0.05	ND	120	2	127	120
Methyl Ethyl Ketone	200.0	0.5	ND	108	20	92	108
Chloroform	6.00	0.05	ND	104	1	116	104
1,2-Dichloroethane	0.50	0.05	ND	107	1	116	107
Benzene	0.50	0.05	ND	105	3	108	105
Carbon Tetrachloride	0.50	0.05	ND	105	2	115	105
Trichloroethene	0.50	0.05	ND	112	2	111	112
Tetrachloroethene	0.70	0.05	ND	115	2	108	115
Chlorobenzene	100.00	0.05	ND	103	2	106	103
1,4-Dichlorobenzene	7.50	0.05	ND	99	0	104	99

SURROGATES	% Recovery
Dibromofluoromethane	103
Toluene-d8	100
4-Bromofluorobenzene	95

ND = Not Detected

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

Director, Dr. Blair Leftwich

4-24-00
DATE

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•376•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

April 24, 2000
Receiving Date: 04/13/2000
Sample Type: Sludge
Project No: NA
Project Location: NA

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

Sampling Date: 04/12/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

TCLP METALS (mg/L)

TA#	Field Code	Ag	As	Ba	Cd	Cr	Pb	Se	Hg
	EPA LIMIT =	5.0	5.0	100.0	1.0	5.0	5.0	1.0	0.20
T144450	Sewer Inserts	<0.05	0.30	0.23	<0.02	<0.05	<0.10	<0.10	<0.010
T144451	DAF	<0.05	0.15	0.05	<0.02	<0.05	<0.10	<0.10	<0.010
ICV		0.200	1.00	1.03	1.02	1.02	1.01	0.97	0.00540
CCV		0.198	0.98	1.00	0.98	1.00	0.99	0.96	0.00538
Reporting Limit		0.05	0.10	0.10	0.02	0.05	0.10	0.10	0.010
RPD		1	2	1	1	1	1	1	0
% Extraction Accuracy		75	100	98	98	99	94	91	109
% Instrument Accuracy		99	98	100	98	100	99	96	108
EXTRACTION DATE		04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/14/2000	04/17/2000
ANALYSIS DATE		04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/18/2000	04/19/2000

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: JM
METHODS: EPA SW 846-1311, 6010B, 7470A.
TCLP METALS SPIKE: 10 mg/L As, Se, Cd, Cr, Pb, Ba; 4 mg/L Ag; 0.050 mg/L Hg.
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.005 mg/L Hg.

4-24-00

TRACEANALYSIS, 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 and Quality Control Report

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

Report Date: 4/24/00

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

Order ID Number: A00041309

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
144450	Sewer Inserts	Sludge	4/12/00	13:30	4/13/00
144451	DAF	Sludge	4/12/00	14:00	4/13/00
144452	Contam Soil	Soil	4/12/00	14:15	4/13/00

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 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 144450
Description: Sewer Inserts

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
o-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
m,p-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Hexachloroethane	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Nitrobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4-D	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,5-TP	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Pentachlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	31.65	1	80	40	20 - 67	BP	PB01859	QC02226
Phenol-d5	28.67	1	80	36	7 - 55	BP	PB01859	QC02226
Nitrobenzene-d5	47.27	1	80	59	33 - 116	BP	PB01859	QC02226
2-Fluorobiphenyl	48.84	1	80	61	47 - 107	BP	PB01859	QC02226
2,4,6-Tribromophenol	45.99	1	80	57	47 - 113	BP	PB01859	QC02226
Terphenyl-d14	40.12	1	80	50	47 - 124	BP	PB01859	QC02226

Sample Number: 144451
Description: DAF

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
o-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
m,p-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Hexachloroethane	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Nitrobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
2,4-D	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.05
Hexachlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
2,4,5-TP	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25
Pentachlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02226	0.25

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	16.82	1	80	21	20 - 67	BP	PB01859	QC02226
Phenol-d5	13.59	1	80	17	7 - 55	BP	PB01859	QC02226
Nitrobenzene-d5	40.50	1	80	51	33 - 116	BP	PB01859	QC02226
2-Fluorobiphenyl	47.49	1	80	59	47 - 107	BP	PB01859	QC02226
2,4,6-Tribromophenol	35.85	1	80	45	47 - 113	BP	PB01859	QC02226
Terphenyl-d14	46.77	1	80	58	47 - 124	BP	PB01859	QC02226

Sample Number: 144452
Description: Contam Soil

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
1,4-Dichlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
o-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
m,p-Cresol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
Hexachloroethane	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
Nitrobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
Hexachlorobutadiene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
2,4,5-Trichlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
2,4-D	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.05
Hexachlorobenzene	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
2,4,5-TP	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25
Pentachlorophenol	<0.05	1	E 8270C	4/20/00	4/20/00	BP	PB01859	QC02227	0.25

Surrogate (mg/Kg)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	22.36	1	80	28	20 - 67	BP	PB01859	QC02227
Phenol-d5	16.58	1	80	21	7 - 55	BP	PB01859	QC02227
Nitrobenzene-d5	48.19	1	80	60	33 - 116	BP	PB01859	QC02227
2-Fluorobiphenyl	53.49	1	80	67	47 - 107	BP	PB01859	QC02227
2,4,6-Tribromophenol	47.88	1	80	60	47 - 113	BP	PB01859	QC02227
Terphenyl-d14	43.72	1	80	55	47 - 124	BP	PB01859	QC02227

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
1,4-Dichlorobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
o-Cresol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
m,p-Cresol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachloroethane (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Nitrobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachlorobutadiene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,6-Trichlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,5-Trichlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4-Dinitrotoluene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4-D (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Hexachlorobenzene (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
2,4,5-TP (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226
Pentachlorophenol (mg/L)		<0.05	0.05	4/20/00	PB01859	QC02226

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	23.60	80	30	20 - 67	QC02226
Phenol-d5 (mg/Kg)	20.79	80	26	7 - 55	QC02226
Nitrobenzene-d5 (mg/Kg)	50.77	80	63	33 - 116	QC02226
2-Fluorobiphenyl (mg/Kg)	54.33	80	68	47 - 107	QC02226
2,4,6-Tribromophenol (mg/Kg)	43.24	80	54	47 - 113	QC02226
Terphenyl-d14 (mg/Kg)	49.06	80	61	47 - 124	QC02226

Pyridine (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
1,4-Dichlorobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
o-Cresol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
m,p-Cresol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachloroethane (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Nitrobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachlorobutadiene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,6-Trichlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,5-Trichlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4-Dinitrotoluene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4-D (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Hexachlorobenzene (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
2,4,5-TP (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227
Pentachlorophenol (mg/L)		<0.05	0.25	4/20/00	PB01859	QC02227

Surrogate	Result	Spike Amount	% Rec.	% Rec. Limit	QC Batch #
2-Fluorophenol (mg/Kg)	23.60	80	30	20 - 67	QC02227
Phenol-d5 (mg/Kg)	20.79	80	26	7 - 55	QC02227
Nitrobenzene-d5 (mg/Kg)	50.77	80	63	33 - 116	QC02227
2-Fluorobiphenyl (mg/Kg)	54.33	80	68	47 - 107	QC02227
2,4,6-Tribromophenol (mg/Kg)	43.24	80	54	47 - 113	QC02227
Terphenyl-d14 (mg/Kg)	49.06	80	61	47 - 124	QC02227

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	Pyridine (mg/L)	<0.05	1	80	29.04	36		0 - 92	-	QC02226
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	48.29	60		39 - 87	-	QC02226
LCS	o-Cresol (mg/L)	<0.05	1	80	40.22	50		41 - 92	-	QC02226
LCS	m,p-Cresol (mg/L)	<0.05	1	160	73.40	46		7 - 127	-	QC02226
LCS	Hexachloroethane (mg/L)	<0.05	1	80	46.23	58		35 - 85	-	QC02226
LCS	Nitrobenzene (mg/L)	<0.05	1	80	55.05	69		43 - 108	-	QC02226
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	48.49	61		38 - 89	-	QC02226
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.07	66		47 - 107	-	QC02226
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	52.86	66		49 - 105	-	QC02226
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	50.97	64		49 - 105	-	QC02226
LCS	2,4-D (mg/L)	<0.05	1	80	63.15	79		0 - 127	-	QC02226
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	61.83	77		47 - 122	-	QC02226
LCS	2,4,5-TP (mg/L)	<0.05	1	80	69.47	87		0 - 130	-	QC02226
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	44.58	56		33 - 99	-	QC02226

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	22.96	29	20 - 67	QC02226
LCS	Phenol-d5 (mg/Kg)	1	80	16.56	21	7 - 55	QC02226
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	50.96	64	33 - 116	QC02226
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	55.06	69	47 - 107	QC02226
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	45.24	57	47 - 113	QC02226
LCS	Terphenyl-d14 (mg/Kg)	1	80	48.53	61	47 - 124	QC02226

LCSD	Pyridine (mg/L)	<0.05	1	80	27.07	34	7	-	0 - 20	QC02226
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	46.09	58	5	-	0 - 20	QC02226
LCSD	o-Cresol (mg/L)	<0.05	1	80	41.88	52	4	-	0 - 20	QC02226
LCSD	m,p-Cresol (mg/L)	<0.05	1	160	76.89	48	5	-	0 - 20	QC02226
LCSD	Hexachloroethane (mg/L)	<0.05	1	80	43.60	55	6	-	0 - 20	QC02226
LCSD	Nitrobenzene (mg/L)	<0.05	1	80	52.96	66	4	-	0 - 20	QC02226
LCSD	Hexachlorobutadiene (mg/L)	<0.05	1	80	45.56	57	6	-	0 - 20	QC02226
LCSD	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.60	67	1	-	0 - 20	QC02226
LCSD	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	53.99	67	2	-	0 - 20	QC02226
LCSD	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	52.02	65	2	-	0 - 20	QC02226
LCSD	2,4-D (mg/L)	<0.05	1	80	66.18	83	5	-	0 - 20	QC02226
LCSD	Hexachlorobenzene (mg/L)	<0.05	1	80	63.17	79	2	-	0 - 20	QC02226
LCSD	2,4,5-TP (mg/L)	<0.05	1	80	75.17	94	8	-	0 - 20	QC02226
LCSD	Pentachlorophenol (mg/L)	<0.05	1	80	46.98	59	5	-	0 - 20	QC02226

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	23.12	29	20 - 67	QC02226
LCSD	Phenol-d5 (mg/Kg)	1	80	17.75	22	7 - 55	QC02226
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.52	63	33 - 116	QC02226
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	53.42	67	47 - 107	QC02226
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	45.30	57	47 - 113	QC02226
LCSD	Terphenyl-d14 (mg/Kg)	1	80	50.24	63	47 - 124	QC02226

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Pyridine (mg/L)	<0.05	1	80	29.04	36		0 - 92	-	QC02227
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	48.29	60		39 - 87	-	QC02227
LCS	o-Cresol (mg/L)	<0.05	1	80	40.22	50		41 - 92	-	QC02227
LCS	m,p-Cresol (mg/L)	<0.05	1	160	73.40	46		7 - 127	-	QC02227
LCS	Hexachloroethane (mg/L)	<0.05	1	80	46.23	58		35 - 85	-	QC02227
LCS	Nitrobenzene (mg/L)	<0.05	1	80	55.05	69		43 - 108	-	QC02227
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	48.49	61		38 - 89	-	QC02227
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.07	66		47 - 107	-	QC02227
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	52.86	66		49 - 105	-	QC02227
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	50.97	64		49 - 105	-	QC02227
LCS	2,4-D (mg/L)	<0.05	1	80	63.15	79		0 - 127	-	QC02227
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	61.83	77		47 - 122	-	QC02227
LCS	2,4,5-TP (mg/L)	<0.05	1	80	69.47	87		0 - 130	-	QC02227
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	44.58	56		33 - 99	-	QC02227

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	22.96	29	20 - 67	QC02227
LCS	Phenol-d5 (mg/Kg)	1	80	16.56	21	7 - 55	QC02227
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	50.96	64	33 - 116	QC02227
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	55.06	69	47 - 107	QC02227
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	45.24	57	47 - 113	QC02227
LCS	Terphenyl-d14 (mg/Kg)	1	80	48.53	61	47 - 124	QC02227

LCSD	Pyridine (mg/L)	<0.05	1	80	27.07	34	7	-	0 - 20	QC02227
LCSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	46.09	58	5	-	0 - 20	QC02227
LCSD	o-Cresol (mg/L)	<0.05	1	80	41.88	52	4	-	0 - 20	QC02227
LCSD	m,p-Cresol (mg/L)	<0.05	1	160	76.89	48	5	-	0 - 20	QC02227
LCSD	Hexachloroethane (mg/L)	<0.05	1	80	43.60	55	6	-	0 - 20	QC02227
LCSD	Nitrobenzene (mg/L)	<0.05	1	80	52.96	66	4	-	0 - 20	QC02227
LCSD	Hexachlorobutadiene (mg/L)	<0.05	1	80	45.56	57	6	-	0 - 20	QC02227
LCSD	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	53.60	67	1	-	0 - 20	QC02227
LCSD	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	53.99	67	2	-	0 - 20	QC02227
LCSD	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	52.02	65	2	-	0 - 20	QC02227
LCSD	2,4-D (mg/L)	<0.05	1	80	66.18	83	5	-	0 - 20	QC02227
LCSD	Hexachlorobenzene (mg/L)	<0.05	1	80	63.17	79	2	-	0 - 20	QC02227
LCSD	2,4,5-TP (mg/L)	<0.05	1	80	75.17	94	8	-	0 - 20	QC02227
LCSD	Pentachlorophenol (mg/L)	<0.05	1	80	46.98	59	5	-	0 - 20	QC02227

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCSD	2-Fluorophenol (mg/Kg)	1	80	23.12	29	20 - 67	QC02227
LCSD	Phenol-d5 (mg/Kg)	1	80	17.75	22	7 - 55	QC02227
LCSD	Nitrobenzene-d5 (mg/Kg)	1	80	50.52	63	33 - 116	QC02227
LCSD	2-Fluorobiphenyl (mg/Kg)	1	80	53.42	67	47 - 107	QC02227
LCSD	2,4,6-Tribromophenol (mg/Kg)	1	80	45.30	57	47 - 113	QC02227
LCSD	Terphenyl-d14 (mg/Kg)	1	80	50.24	63	47 - 124	QC02227

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 #
CCV 1	Pyridine (mg/L)		60	56.79	95	0 - 92	4/20/00	QC02226
CCV 1	1,4-Dichlorobenzene (mg/L)		60	60.25	100	39 - 87	4/20/00	QC02226
CCV 1	o-Cresol (mg/L)		60	58.34	97	41 - 92	4/20/00	QC02226
CCV 1	m,p-Cresol (mg/L)		60	58.05	97	7 - 127	4/20/00	QC02226
CCV 1	Hexachloroethane (mg/L)		60	60.04	100	35 - 85	4/20/00	QC02226
CCV 1	Nitrobenzene (mg/L)		60	57.30	96	43 - 108	4/20/00	QC02226
CCV 1	Hexachlorobutadiene (mg/L)		60	59.55	99	38 - 89	4/20/00	QC02226
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.69	99	47 - 107	4/20/00	QC02226
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.83	100	49 - 105	4/20/00	QC02226
CCV 1	2,4-Dinitrotoluene (mg/L)		60	57.62	96	49 - 105	4/20/00	QC02226
CCV 1	2,4-D (mg/L)		60	54.35	91	0 - 127	4/20/00	QC02226
CCV 1	Hexachlorobenzene (mg/L)		60	55.73	93	47 - 122	4/20/00	QC02226
CCV 1	2,4,5-TP (mg/L)		60	50.48	84	0 - 130	4/20/00	QC02226
CCV 1	Pentachlorophenol (mg/L)		60	60.05	100	33 - 99	4/20/00	QC02226
CCV 1	2-Fluorophenol (mg/L)		60	54.95	92	20 - 67	4/20/00	QC02226
CCV 1	Phenol-d5 (mg/L)		60	54.65	91	7 - 55	4/20/00	QC02226
CCV 1	Nitrobenzene-d5 (mg/L)		60	55.70	93	33 - 116	4/20/00	QC02226
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.50	101	47 - 107	4/20/00	QC02226
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.17	94	47 - 113	4/20/00	QC02226
CCV 1	Terphenyl-d14 (mg/L)		60	56.75	95	47 - 124	4/20/00	QC02226

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Pyridine (mg/L)		60	56.79	95	0 - 92	4/20/00	QC02227
CCV 1	1,4-Dichlorobenzene (mg/L)		60	60.25	100	39 - 87	4/20/00	QC02227
CCV 1	o-Cresol (mg/L)		60	58.34	97	41 - 92	4/20/00	QC02227
CCV 1	m,p-Cresol (mg/L)		60	58.05	97	7 - 127	4/20/00	QC02227
CCV 1	Hexachloroethane (mg/L)		60	60.04	100	35 - 85	4/20/00	QC02227
CCV 1	Nitrobenzene (mg/L)		60	57.30	96	43 - 108	4/20/00	QC02227
CCV 1	Hexachlorobutadiene (mg/L)		60	59.55	99	38 - 89	4/20/00	QC02227
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	59.69	99	47 - 107	4/20/00	QC02227
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	59.83	100	49 - 105	4/20/00	QC02227
CCV 1	2,4-Dinitrotoluene (mg/L)		60	57.62	96	49 - 105	4/20/00	QC02227
CCV 1	2,4-D (mg/L)		60	54.35	91	0 - 127	4/20/00	QC02227
CCV 1	Hexachlorobenzene (mg/L)		60	55.73	93	47 - 122	4/20/00	QC02227
CCV 1	2,4,5-TP (mg/L)		60	50.48	84	0 - 130	4/20/00	QC02227
CCV 1	Pentachlorophenol (mg/L)		60	60.05	100	33 - 99	4/20/00	QC02227
CCV 1	2-Fluorophenol (mg/L)		60	54.95	92	20 - 67	4/20/00	QC02227
CCV 1	Phenol-d5 (mg/L)		60	54.65	91	7 - 55	4/20/00	QC02227
CCV 1	Nitrobenzene-d5 (mg/L)		60	55.70	93	33 - 116	4/20/00	QC02227

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 #
CCV 1	2-Fluorobiphenyl (mg/L)		60	60.50	101	47 - 107	4/20/00	QC02227
CCV 1	2,4,6-Tribromophenol (mg/L)		60	56.17	94	47 - 113	4/20/00	QC02227
CCV 1	Terphenyl-d14 (mg/L)		60	56.75	95	47 - 124	4/20/00	QC02227

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

LAB Order ID # 1000413091

Company Name: NAVAJO REFINING CO
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	MATRIX: SOIL	MATRIX: AIR	MATRIX: SLUDGE	MATRIX: OTHER	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD: NONE	PRESERVATIVE METHOD: OTHER	SAMPLING: DATE	SAMPLING: TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from above	Date
[illegible]	SEWER INSERTS	1	1L				X				X	X		4/12/00	13:30						X	X	X	X												
[illegible]	DAF	1	1L				X				X	X		4/12/00	14:00						X	X	X	X												
[illegible]	CONTAM. SOIL	1	1L		X						X	X		4/12/00	14:15						X	X	X	X												

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	4/14/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Hurley	4-13-00	10:00

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 2 °
Log-in Review [illegible]

REMARKS:
4-26-00

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

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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OCT 1 1 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

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 BES
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East 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:

10-001

Catalyst (D-342) strips hydrogen chloride from reformate in the CCR unit.

I am enclosing analytical data, Certificate of Waste Status, Chain of Custody, and previous C-138. The process has not changed.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-02-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 10-06-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 10-10-00

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

Submit C
Plus
to appr
District

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 BES
3. Address of Facility Operator P.O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 EAST 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:

06-007

CATALYST (D-342) STRIPS HYDROGEN CHLORIDE FROM REFORMATE IN THE CCR UNIT.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS, AND CHAIN OF CUSTODY. THE PROCESS HAS NOT CHANGED.

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

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Dennis Williams TITLE: Environ. Eng. Specialist DATE: 06-30-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 07-10-00

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-342 Catalyst**

ESTIMATED VOLUME: **20 yards**

GENERATING PROCESS: **Catalyst strips hydorgen chloride from reformate in the Continuous Catalytic Regeneration (CCR) Reformer Unit.**

REMARKS: **Ealier analysis enclosed - Process has not changed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rental**

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: 9/28/00

TRACEANALYSIS, 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

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 03/08/98
Analysis Date: 03/09/98
Sampling Date: 03/03/98
Sample Condition: I & C
Sample Received by: BW
Project Name: NA

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T92665/980823 D-342	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	111	4	117	111
1,1-Dichloroethene	0.70	0.05	ND	95	3	103	95
Methyl Ethyl Ketone	200.0	0.5	ND	106	3	105	106
Chloroform	6.00	0.05	ND	100	2	110	100
1,2-Dichloroethane	0.50	0.05	ND	101	4	110	101
Benzene	0.50	0.05	ND	105	0	111	105
Carbon Tetrachloride	0.50	0.05	ND	83	2	113	83
Trichloroethene	0.50	0.05	ND	98	0	104	98
Tetrachloroethene	0.70	0.05	ND	98	3	107	98
Chlorobenzene	100.00	0.05	ND	101	0	102	101
1,4-Dichlorobenzene	7.50	0.05	ND	100	1	104	100

SURROGATES	**% Recovery**
Dibromofluoromethane	100
Toluene-d8	96
4-Bromofluorobenzene	97

ND = Not Detected

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

Director, Dr. Blair Leftwich

3-13-98
DATE

TRACEANALYSIS, 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

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 03/05/98
Analysis Date: 03/08/98
Sampling Date: 03/03/98
Sample Condition: Intact & Cool
Sample Received by: BW
Project Name: NA

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T92665/980823 D-342	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	76	47**	34	95
1,4-Dichlorobenzene	7.5	0.05	ND	75	27**	46	94
o-Cresol	200.0	0.05	ND	71	23**	69	89
m,p-Cresol	200.0	0.05	ND	78	23**	120	97
Hexachloroethane	3.0	0.05	ND	76	30**	35	95
Nitrobenzene	2.0	0.05	ND	75	26**	78	94
Hexachlorobutadiene	0.5	0.05	ND	75	33**	35	94
2,4,6-Trichlorophenol	2.0	0.05	ND	73	25**	79	91
2,4,5-Trichlorophenol	400.0	0.05	ND	84	26**	79	105
2,4-Dinitrotoluene	0.13	0.05	ND	73	35**	87	91
2,4-D	10.0	0.05	ND	80	39**	70	100
Hexachlorobenzene	0.13	0.05	ND	76	26**	76	95
2,4,5-TP	1.0	0.05	ND	73	44**	1	91
Pentachlorophenol	100.0	0.05	ND	77	38**	68	96

Surrogates	**% RECOVERY**
2-Fluorophenol	50
Phenol-d6	36
Nitrobenzene-d5	74
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	94
Terphenyl-d14	75

****NOTE: RPD out of range <20%.**

ND - Not Detected

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

Director, Dr. Blair Leftwich

3-13-98
DATE

TRACEANALYSIS, INC.

ANALYTICAL REPORT

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E-Mail: lab@traceanalysis.com

CLIENT Navajo Refing Co.
501 E. Main
Artesia, NM 88211

SAMPLE NO. : 980823
INVOICE NO.: 22101770
REPORT DATE: 03-13-98
REVIEWED BY:
PAGE : 1 OF 1

CLIENT SAMPLE ID : D-342
SAMPLE TYPE .....: Catalyst
SAMPLED BY .....: BM
SUBMITTED BY ....: BM
SAMPLE SOURCE ...: --

AUTHORIZED BY : B. Madrid
CLIENT P.O. : --
SAMPLE DATE ...: 03-03-98
SUBMITTAL DATE : 03-04-98
EXTRACTION DATE: --

REMARKS -

Matrix spike and matrix spike duplicate were out of acceptance criteria range possibly due to matrix interference for the following parameter(s): Silver.

TCLP Metals

DATA TABLE

Parameter	Result	Unit	Detection Limit	Analysis Date	Test Method	Analyst
Arsenic (TCLP) .....:	<0.050	mg/L	0.050	03-10-98	SW846 7061	N. Munir
Barium (TCLP) .....:	<5.0	mg/L	5.0	03-11-98	SW846 7080A	N. Munir
Cadmium (TCLP) .....:	<0.25	mg/L	0.25	03-11-98	SW846 7130	N. Munir
Chromium (TCLP) .....:	<0.50	mg/L	0.50	03-11-98	SW846 7190	N. Munir
Lead (TCLP) .....:	<0.75	mg/L	0.75	03-11-98	SW846 7420	N. Munir
Mercury (TCLP) .....:	<0.010	mg/L	0.010	03-06-98	SW846 7471A	N. Munir
Selenium (TCLP) .....:	<0.050	mg/L	0.050	03-11-98	SW846 7741A	N. Munir
Silver (TCLP) .....:	<0.25	mg/L	0.25	03-11-98	SW846 7760A	N. Munir

(1) Copy to Client

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

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

March 13, 1998
Receiving Date: 03/04/98
Sample Type: Catalyst
Project No: NA
Project Location: NA

Extraction Date: 03/05/98
Analysis Date: 03/05/98
Sampling Date: 03/03/98
Sample Condition: Intact & Cool
Sample Received by: BW
Project Name: NA

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	---	500	250	---	<2 >12.5	---
T92665/980823	D-342	Non-reactive	40	5.0	Non-corrosive	10.7	Nonignitable
QC	Quality Control	---	---	---	---	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

3-13-98
DATE

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID #

Company Name: NAVAJO REFINING CO.
Phone #:
Address: 501 E. MAIN
Fax #:
Contact Person: BRYAN MADRID
Invoice to: (If different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	CATALYST	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH					Turn Around Time if different from standard	Hold
980823	D-342	1	1L					X				X		3/3/98	10:30						X	X	X	X											
824	CRUDE CONT. SOIL	1	1L		X							X		3/3/98	12:15						X	X	X	X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	3-3-98	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time
			[illegible]	3-4-98	1040

LAB USE ONLY
Intact (Y) N
Headspace ~~Y/N~~ N/A
Temp 2 °C
Log-in Review

REMARKS:
349 2990 934

Carrier # FED-EX 349 2990 934

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811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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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 BES
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East 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:

10-002

FCC Catalyst Fines.
These are fine particles from catalyst collected in the cyclones at the FCC Unit during the regeneration process.

I am enclosing a Certificate of Waste status and copy of previous C-138.
This waste has been approved in the past.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-02-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 10-06-00

APPROVED BY: Martyn J. Parker TITLE: Environmental Geologist DATE: 10-06-00

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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 BES
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	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:

08-004

FCC Catalyst Fines.
These are fine particles from catalyst collected in the cyclones at the FCC Unit during the regeneration process.

I am enclosing Certificate of Waste status and copy of previous C-138.
This waste has been approved in the past.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-03-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 8-8-00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 8-10-00

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: **30 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 Incorportated**

TRUCKING COMPANY: **BES Rentals 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA,NM 88210

DATE: 9/28/00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
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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, NM
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter BES
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East 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:

10-003

Asphalt collected from a clean-up of an asphalt spill.

I am enclosing a Certificate of Waste Status and copy of previous C-138.
This material has been approved in the past.

The Analytical that is on file was taken Back in 8-18-1995. These Results are Now 5 years old. New Analytials Should be Run Prior to the Next Shipment Request For Asphalt. MJK

Estimated Volume 15 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-02-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 10-06-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 10-11-00

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**

ESTIMATED VOLUME: **15 yards**

GENERATING PROCESS: **Asphalt collected from a clean-up of an asphalt Spill.**

REMARKS: **This waste has been approved in the past .**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rentals 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: 9/28/00

District I - (505) 393-6161
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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
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 Street	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 th Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis t PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous b 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 information is from the Navajo Artesia facility's asphalt. The material has been approved in the past. I have included a certificate of waste.

10-002

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

SIGNATURE: Billie Charo TITLE: Envir. Compiance Manager DATE: 10/02/98
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: [illegible] TITLE: Pet Engr Spec DATE: 10/7/98

APPROVED BY: [illegible] TITLE: " DATE: "

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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 BES
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East 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:

10-006
Blast Sand. Generated during the sandblasting of the inside of a gasoline tank before repairing. I am enclosing analytical data, Certificate of Waste status, chain of custody,and copy of previous C-138.

30-55 gallon drums

10-007
Hyrdrocarbon Contaminated Soil. Soil generated during the cleanup of small spills around Navajo's Artesia plant. I am enclosing analytical data, Certificate of Waste status, chain of custody, and copy of previous C-138.

150 yards

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-12-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 10/19/00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 10/24/00

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: **150 yards**

GENERATING PROCESS: **Soil generated during the cleanup of small spills around Navajo's Artesia plant.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rental**

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: 10/10/00

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: **Blast Sand (Tank 411)**

ESTIMATED VOLUME: **30- 55 gal. drums**

GENERATING PROCESS: **Generated during the sandblasting of the inside of a gasoline tank before repairing.**

REMARKS: **Analysis enclosed**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rental 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 2613.

AGENT: Bryan Madrid
SIGNATURE

NAME: **BRYAN MADRID**
PRINTED

ADDRESS: **501 EAST MAIN**

ARTESIA, NM 88210

DATE: 10/10/00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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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 NEW MEXICO
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:

02-014

BLAST SAND. GENERATED DURING THE SANDBLASTING OF THE INSIDE OF A GASOLINE TANK BEFORE REPAIRING.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-29-00
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 Engineer Specialist DATE: 03-03-00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 03-08-00

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
MAY 18 2000
Environmental Bureau
Oil Conservation Division

Originated 8/8

Submit Orig
Plus 1 C
to appropr
District Of

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 BES
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	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:

05-002 3-363 CATALYST. CATALYST STRIPS HYDROGEN CHLORIDE FROM REFORMATE IN THE CONTINUOUS CATALYTIC REGENERATION (CCR) REFORMER UNIT. I AM ENCLOSING ANALYTICAL DATA, NON-EXEMPT CERTIFICATE OF WASTE AND CHAIN OF CUSTODY.

30 YARDS

05-003 HYDROCARBON CONTAMINATED SOIL. SOIL GENERATED DURING THE CLEANUP OF SMALL SP AROUND NAVAJO'S ARTESIA PLANT. I AM ENCLOSING ANALYTICAL DATA NON-EXEMPT CERTIFICATE OF AND CHAIN OF CUSTODY.

150 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: 5-10-00
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. Engineer Specialist DATE: 05-12-00

APPROVED BY: Martin J. Kirk TITLE: Environmental Geologist DATE: 05-15-00

TRACEANALYSIS, 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

Report Date: October 5, 2000

Navajo Refining
501 E. Main
Artesia, NM 88210

Order ID Number: A00092717

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

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
154327	Blast Sand TK411	Solid	9/26/00	13:00	9/27/00
154328	Blast Beads	Solid	9/26/00	13:30	9/27/00
154329	Hydro Carbon Contam soil	Solid	9/26/00	14:00	9/27/00

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 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 154327 - Blast Sand TK411

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05327	Date Analyzed:	9/28/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04645	Date Prepared:	9/28/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non-corrosive	mm/yr	1	
pH		6.63	s.u.	1	

Sample: 154327 - Blast Sand TK411

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05328	Date Analyzed:	9/28/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04646	Date Prepared:	9/28/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 154327 - Blast Sand TK411

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05326	Date Analyzed:	9/28/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04644	Date Prepared:	9/28/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 154327 - Blast Sand TK411

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC05329	Date Analyzed:	10/2/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04647	Date Prepared:	9/28/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 154327 - Blast Sand TK411

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05330	Date Analyzed:	10/3/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04576	Date Prepared:	10/2/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10

Continued ...

... *Continued* Sample: 154327 Analysis: TCLP Metals

Param	Flag	Result	Units	Dilution	RDL
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 154327 - Blast Sand TK411

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC05276 Date Analyzed: 10/2/00
Analyst: MA Preparation Method: 1311 Prep Batch: PB04604 Date Prepared: 10/2/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		23.86	mg/Kg	1	80	29	20 - 67
Phenol-d5		15.25	mg/Kg	1	80	19	7 - 55
Nitrobenzene-d5		55.07	mg/Kg	1	80	68	33 - 116
2-Fluorobiphenyl		55.53	mg/Kg	1	80	69	47 - 107
2,4,6-Tribromophenol		54.83	mg/Kg	1	80	68	47 - 113
Terphenyl-d14		33.22	mg/Kg	1	80	41	47 - 124

Sample: 154327 - Blast Sand TK411

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC05284 Date Analyzed: 10/1/00
Analyst: JG Preparation Method: 1311 Prep Batch: PB04611 Date Prepared: 10/1/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	1	0.001
1,1-Dichloroethene		<0.10	mg/L	1	0.001
Methyl ethyl ketone		<0.50	mg/L	1	0.01
Chloroform		<0.10	mg/L	1	0.001
1,2-Dichloroethane (EDC)		<0.10	mg/L	1	0.001
Benzene		<0.10	mg/L	1	0.001
Carbon Tetrachloride		<0.10	mg/L	1	0.001
Trichloroethene (TCE)		<0.10	mg/L	1	0.001
Tetrachloroethene (PCE)		<0.10	mg/L	1	0.001
Chlorobenzene		<0.10	mg/L	1	0.001
1,4-Dichlorobenzene		<0.10	mg/L	1	0.001

Sample: 154328 - Blast Beads

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC05327	Date Analyzed:	9/28/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04645	Date Prepared:	9/28/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non-corrosive	mm/yr	1	
pH		9.08	s.u.	1	

Sample: 154328 - Blast Beads

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC05328	Date Analyzed:	9/28/00
Analyst:	TL	Preparation Method:		Prep Batch:	PB04646	Date Prepared:	9/28/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 154328 - Blast Beads

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC05326	Date Analyzed:	9/28/00
Analyst:	TL	Preparation Method:	N/A	Prep Batch:	PB04644	Date Prepared:	9/28/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 154328 - Blast Beads

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC05329	Date Analyzed:	10/2/00
Analyst:	MS	Preparation Method:	E 1311	Prep Batch:	PB04647	Date Prepared:	9/28/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 154328 - Blast Beads

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC05330	Date Analyzed:	10/3/00
Analyst:	RR	Preparation Method:	E 1311	Prep Batch:	PB04576	Date Prepared:	10/2/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		<0.10	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 154328 - Blast Beads

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC05276 Date Analyzed: 10/2/00
Analyst: MA Preparation Method: 1311 Prep Batch: PB04604 Date Prepared: 10/2/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		21.98	mg/Kg	1	80	27	20 - 67
Phenol-d5		14.03	mg/Kg	1	80	17	7 - 55
Nitrobenzene-d5		59.52	mg/Kg	1	80	74	33 - 116
2-Fluorobiphenyl		58.09	mg/Kg	1	80	72	47 - 107
2,4,6-Tribromophenol		58.86	mg/Kg	1	80	73	47 - 113
Terphenyl-d14		36.12	mg/Kg	1	80	45	47 - 124

Sample: 154328 - Blast Beads

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC05284 Date Analyzed: 10/1/00
Analyst: JG Preparation Method: 1311 Prep Batch: PB04611 Date Prepared: 10/1/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	1	0.001
1,1-Dichloroethene		<0.10	mg/L	1	0.001
Methyl ethyl ketone		<0.50	mg/L	1	0.01
Chloroform		<0.10	mg/L	1	0.001
1,2-Dichloroethane (EDC)		<0.10	mg/L	1	0.001
Benzene		<0.10	mg/L	1	0.001
Carbon Tetrachloride		<0.10	mg/L	1	0.001
Trichloroethene (TCE)		<0.10	mg/L	1	0.001
Tetrachloroethene (PCE)		<0.10	mg/L	1	0.001
Chlorobenzene		<0.10	mg/L	1	0.001
1,4-Dichlorobenzene		<0.10	mg/L	1	0.001

Sample: 154329 - Hydro Carbon Contam soil

Analysis: Corrosivity Analytical Method: S 1110 QC Batch: QC05327 Date Analyzed: 9/28/00
Analyst: TL Preparation Method: N/A Prep Batch: PB04645 Date Prepared: 9/28/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non-corrosive	mm/yr	1	
pH		7.26	s.u.	1	

Sample: 154329 - Hydro Carbon Contam soil

Analysis: Ignitability Analytical Method: SW-846 Ch. 7.1 QC Batch: QC05328 Date Analyzed: 9/28/00
Analyst: TL Preparation Method: Prep Batch: PB04646 Date Prepared: 9/28/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 154329 - Hydro Carbon Contam soil

Analysis: Reactivity Analytical Method: S 7.3 QC Batch: QC05326 Date Analyzed: 9/28/00
Analyst: TL Preparation Method: N/A Prep Batch: PB04644 Date Prepared: 9/28/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		<10		1	
Hydrogen Cyanide		<2.5		1	

Sample: 154329 - Hydro Carbon Contam soil

Analysis: TCLP Hg Analytical Method: S 7470A QC Batch: QC05329 Date Analyzed: 10/2/00
Analyst: MS Preparation Method: E 1311 Prep Batch: PB04647 Date Prepared: 9/28/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 154329 - Hydro Carbon Contam soil

Analysis: TCLP Metals Analytical Method: S 6010B QC Batch: QC05330 Date Analyzed: 10/3/00
Analyst: RR Preparation Method: E 1311 Prep Batch: PB04576 Date Prepared: 10/2/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<0.10	mg/L	1	0.10
TCLP Barium		<0.10	mg/L	1	0.10
TCLP Cadmium		<0.02	mg/L	1	0.02
TCLP Chromium		<0.05	mg/L	1	0.05
TCLP Lead		0.18	mg/L	1	0.10
TCLP Selenium		<0.10	mg/L	1	0.10
TCLP Silver		<0.05	mg/L	1	0.05

Sample: 154329 - Hydro Carbon Contam soil

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC05276 Date Analyzed: 10/2/00
Analyst: MA Preparation Method: 1311 Prep Batch: PB04604 Date Prepared: 10/2/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
1,4-Dichlorobenzene		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		23.16	mg/Kg	1	80	28	20 - 67
Phenol-d5		15.98	mg/Kg	1	80	19	7 - 55
Nitrobenzene-d5		42.19	mg/Kg	1	80	52	33 - 116
2-Fluorobiphenyl		41.99	mg/Kg	1	80	52	47 - 107
2,4,6-Tribromophenol		45.90	mg/Kg	1	80	57	47 - 113
Terphenyl-d14		39.06	mg/Kg	1	80	48	47 - 124

Sample: 154329 - Hydro Carbon Contam soil

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC05284	Date Analyzed:	10/1/00
Analyst:	JG	Preparation Method:	1311	Prep Batch:	PB04611	Date Prepared:	10/1/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	1	0.001
1,1-Dichloroethene		<0.10	mg/L	1	0.001
Methyl ethyl ketone		<0.50	mg/L	1	0.01
Chloroform		<0.10	mg/L	1	0.001
1,2-Dichloroethane (EDC)		<0.10	mg/L	1	0.001
Benzene		<0.10	mg/L	1	0.001
Carbon Tetrachloride		<0.10	mg/L	1	0.001
Trichloroethene (TCE)		<0.10	mg/L	1	0.001
Tetrachloroethene (PCE)		<0.10	mg/L	1	0.001
Chlorobenzene		<0.10	mg/L	1	0.001
1,4-Dichlorobenzene		<0.10	mg/L	1	0.001

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC05276

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.05	mg/L	0.05
1,4-Dichlorobenzene		<0.05	mg/L	0.05
o-Cresol		<0.05	mg/L	0.05
m,p-Cresol		<0.05	mg/L	0.05
Hexachloroethane		<0.05	mg/L	0.05
Nitrobenzene		<0.05	mg/L	0.05
Hexachlorobutadiene		<0.05	mg/L	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	0.05
2,4-Dinitrotoluene		<0.05	mg/L	0.05
Hexachlorobenzene		<0.05	mg/L	0.05
Pentachlorophenol		<0.05	mg/L	0.05

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		19.44	mg/Kg	80	24	20 - 67
Phenol-d5		12.37	mg/Kg	80	15	7 - 55
Nitrobenzene-d5		49.63	mg/Kg	80	62	33 - 116
2-Fluorobiphenyl		49.37	mg/Kg	80	61	47 - 107
2,4,6-Tribromophenol		44.31	mg/Kg	80	55	47 - 113
Terphenyl-d14		45.98	mg/Kg	80	57	47 - 124

Sample: Method Blank QCBatch: QC05284

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<0.10	mg/L	0.001
1,1-Dichloroethene		<0.10	mg/L	0.001
Methyl ethyl ketone		<0.50	mg/L	0.01
Chloroform		<0.10	mg/L	0.001
1,2-Dichloroethane (EDC)		<0.10	mg/L	0.001
Benzene		<0.10	mg/L	0.001
Carbon Tetrachloride		<0.10	mg/L	0.001
Trichloroethene (TCE)		<0.10	mg/L	0.001
Tetrachloroethene (PCE)		<0.10	mg/L	0.001
Chlorobenzene		<0.10	mg/L	0.001
1,4-Dichlorobenzene		<0.10	mg/L	0.001

Sample: Method Blank QCBatch: QC05329

Param	Flag	Results	Units	Reporting Limit
TCLP Mercury		<0.010	mg/L	0.01

Sample: Method Blank QCBatch: QC05330

Param	Flag	Results	Units	Reporting Limit
TCLP Arsenic		<0.10	mg/L	0.10
TCLP Barium		<0.10	mg/L	0.10
TCLP Cadmium		<0.02	mg/L	0.02
TCLP Chromium		<0.05	mg/L	0.05
TCLP Lead		<0.10	mg/L	0.10
TCLP Selenium		<0.10	mg/L	0.10
TCLP Silver		<0.05	mg/L	0.05

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC05276

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		11.94	mg/L	1	80	<0.05	14		0 - 92	20
1,4-Dichlorobenzene		48.90	mg/L	1	80	<0.05	61		39 - 87	20
o-Cresol		34.65	mg/L	1	80	<0.05	43		41 - 92	20
m,p-Cresol		65.08	mg/L	1	160	<0.05	40		7 - 127	20
Hexachloroethane		47.90	mg/L	1	80	<0.05	59		35 - 85	20
Nitrobenzene		51.68	mg/L	1	80	<0.05	64		43 - 108	20
Hexachlorobutadiene		49.21	mg/L	1	80	<0.05	61		38 - 89	20
2,4,6-Trichlorophenol		47.92	mg/L	1	80	<0.05	59		47 - 107	20
2,4,5-Trichlorophenol		46.02	mg/L	1	80	<0.05	57		49 - 105	20
2,4-Dinitrotoluene		49.81	mg/L	1	80	<0.05	62		49 - 105	20
Hexachlorobenzene		64.48	mg/L	1	80	<0.05	80		47 - 122	20
Pentachlorophenol		37.11	mg/L	1	80	<0.05	46		33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		26.84	mg/Kg	1	80	33	20 - 67
Phenol-d5		17.36	mg/Kg	1	80	21	7 - 55
Nitrobenzene-d5		55.92	mg/Kg	1	80	69	33 - 116
2-Fluorobiphenyl		57.54	mg/Kg	1	80	71	47 - 107
2,4,6-Tribromophenol		48.00	mg/Kg	1	80	60	47 - 113
Terphenyl-d14		41.96	mg/Kg	1	80	52	47 - 124

Sample: LCSD QC Batch: QC05276

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		12.85	mg/L	1	80	<0.05	16	7	0 - 92	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
1,4-Dichlorobenzene		48.64	mg/L	1	80	<0.05	60	0	39 - 87	20
o-Cresol		36.41	mg/L	1	80	<0.05	45	5	41 - 92	20
m,p-Cresol		64.40	mg/L	1	160	<0.05	40	1	7 - 127	20
Hexachloroethane		48.17	mg/L	1	80	<0.05	60	0	35 - 85	20
Nitrobenzene		52.69	mg/L	1	80	<0.05	65	2	43 - 108	20
Hexachlorobutadiene		49.42	mg/L	1	80	<0.05	61	0	38 - 89	20
2,4,6-Trichlorophenol		48.03	mg/L	1	80	<0.05	60	0	47 - 107	20
2,4,5-Trichlorophenol		46.44	mg/L	1	80	<0.05	58	1	49 - 105	20
2,4-Dinitrotoluene		54.53	mg/L	1	80	<0.05	68	9	49 - 105	20
Hexachlorobenzene		60.22	mg/L	1	80	<0.05	75	7	47 - 122	20
Pentachlorophenol		44.31	mg/L	1	80	<0.05	55	18	33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		25.93	mg/Kg	1	80	32	20 - 67
Phenol-d5		16.85	mg/Kg	1	80	21	7 - 55
Nitrobenzene-d5		56.33	mg/Kg	1	80	70	33 - 116
2-Fluorobiphenyl		56.70	mg/Kg	1	80	70	47 - 107
2,4,6-Tribromophenol		57.86	mg/Kg	1	80	72	47 - 113
Terphenyl-d14		41.82	mg/Kg	1	80	52	47 - 124

Sample: LCS

QC Batch: QC05284

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.47	mg/L	1	5	<0.10	89		80 - 120	20
1,1-Dichloroethene		6.01	mg/L	1	5	<0.10	120		80 - 120	20
Methyl ethyl ketone		5.79	mg/L	1	5	<0.50	115		80 - 120	20
Chloroform		5.25	mg/L	1	5	<0.10	105		80 - 120	20
1,2-Dichloroethane (EDC)		5.22	mg/L	1	5	<0.10	104		80 - 120	20
Benzene		5.23	mg/L	1	5	<0.10	104		80 - 120	20
Carbon Tetrachloride		5.20	mg/L	1	5	<0.10	104		80 - 120	20
Trichloroethene (TCE)		5.28	mg/L	1	5	<0.10	105		80 - 120	20
Tetrachloroethene (PCE)		5.28	mg/L	1	5	<0.10	105		80 - 120	20
Chlorobenzene		5.19	mg/L	1	5	<0.10	103		80 - 120	20
1,4-Dichlorobenzene		5.20	mg/L	1	5	<0.10	104		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54	mg/Kg	1	50	108	80 - 120
Toluene-d8		54	mg/Kg	1	50	108	80 - 120
4-Bromofluorobenzene		54	mg/Kg	1	50	108	80 - 120

Sample: LCSD QC Batch: QC05284

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.50	mg/L	1	5	<0.10	90	1	80 - 120	20
1,1-Dichloroethene		6.02	mg/L	1	5	<0.10	120	0	80 - 120	20
Methyl ethyl ketone		5.53	mg/L	1	5	<0.50	110	4	80 - 120	20
Chloroform		5.32	mg/L	1	5	<0.10	106	1	80 - 120	20
1,2-Dichloroethane (EDC)		5.30	mg/L	1	5	<0.10	106	2	80 - 120	20
Benzene		5.25	mg/L	1	5	<0.10	105	0	80 - 120	20
Carbon Tetrachloride		5.18	mg/L	1	5	<0.10	103	0	80 - 120	20
Trichloroethene (TCE)		5.32	mg/L	1	5	<0.10	106	1	80 - 120	20
Tetrachloroethene (PCE)		5.35	mg/L	1	5	<0.10	107	1	80 - 120	20
Chlorobenzene		5.30	mg/L	1	5	<0.10	106	2	80 - 120	20
1,4-Dichlorobenzene		5.19	mg/L	1	5	<0.10	103	0	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54	mg/Kg	1	50	108	80 - 120
Toluene-d8		54	mg/Kg	1	50	108	80 - 120
4-Bromofluorobenzene		54	mg/Kg	1	50	108	80 - 120

Sample: LCS QC Batch: QC05329

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0548	mg/L	1	0.05	<0.010	109		80 - 120	20

Sample: LCSD QC Batch: QC05329

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0563	mg/L	1	0.05	<0.010	112	3	80 - 120	20

Sample: LCS QC Batch: QC05330

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		0.97	mg/L	1	1	<0.10	97		75 - 125	20
TCLP Barium		2.02	mg/L	1	2	<0.10	101		75 - 125	20
TCLP Cadmium		0.20	mg/L	1	0.20	<0.02	100		75 - 125	20
TCLP Chromium		0.41	mg/L	1	0.40	<0.05	102		75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Lead		0.95	mg/L	1	1	<0.10	95		75 - 125	20
TCLP Selenium		0.88	mg/L	1	1	<0.10	88		75 - 125	20
TCLP Silver		0.19	mg/L	1	0.20	<0.05	95		75 - 125	20

Sample: LCSD QC Batch: QC05330

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		0.97	mg/L	1	1	<0.10	97	0	75 - 125	20
TCLP Barium		2.00	mg/L	1	2	<0.10	100	1	75 - 125	20
TCLP Cadmium		0.20	mg/L	1	0.20	<0.02	100	0	75 - 125	20
TCLP Chromium		0.41	mg/L	1	0.40	<0.05	102	0	75 - 125	20
TCLP Lead		0.94	mg/L	1	1	<0.10	94	1	75 - 125	20
TCLP Selenium		0.88	mg/L	1	1	<0.10	88	0	75 - 125	20
TCLP Silver		0.19	mg/L	1	0.20	<0.05	95	0	75 - 125	20

Quality Control Report
Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC05284

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.85	mg/L	1	5	<0.10	97		80 - 120	20
1,1-Dichloroethene		6.26	mg/L	1	5	<0.10	125		80 - 120	20
Methyl ethyl ketone		5.24	mg/L	1	5	<0.50	104		80 - 120	20
Chloroform		5.45	mg/L	1	5	<0.10	109		80 - 120	20
1,2-Dichloroethane (EDC)		5.48	mg/L	1	5	<0.10	109		80 - 120	20
Benzene		5.35	mg/L	1	5	<0.10	107		80 - 120	20
Carbon Tetrachloride		5.26	mg/L	1	5	<0.10	105		80 - 120	20
Trichloroethene (TCE)		5.44	mg/L	1	5	<0.10	108		80 - 120	20
Tetrachloroethene (PCE)		5.50	mg/L	1	5	<0.10	110		80 - 120	20
Chlorobenzene		5.43	mg/L	1	5	<0.10	108		80 - 120	20
1,4-Dichlorobenzene		5.27	mg/L	1	5	<0.10	105		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		55	mg/Kg	1	50	110	80 - 120
Toluene-d8		54.5	mg/Kg	1	50	109	80 - 120
4-Bromofluorobenzene		54	mg/Kg	1	50	108	80 - 120

Sample: MSD QC Batch: QC05284

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.95	mg/L	1	5	<0.10	99	2	80 - 120	20
1,1-Dichloroethene		6.36	mg/L	1	5	<0.10	127	2	80 - 120	20
Methyl ethyl ketone		4.58	mg/L	1	5	<0.50	91	13	80 - 120	20
Chloroform		5.46	mg/L	1	5	<0.10	109	0	80 - 120	20
1,2-Dichloroethane (EDC)		5.47	mg/L	1	5	<0.10	109	0	80 - 120	20
Benzene		5.47	mg/L	1	5	<0.10	109	2	80 - 120	20
Carbon Tetrachloride		5.29	mg/L	1	5	<0.10	105	0	80 - 120	20
Trichloroethene (TCE)		5.55	mg/L	1	5	<0.10	111	2	80 - 120	20
Tetrachloroethene (PCE)		5.68	mg/L	1	5	<0.10	113	3	80 - 120	20
Chlorobenzene		5.57	mg/L	1	5	<0.10	111	2	80 - 120	20
1,4-Dichlorobenzene		5.33	mg/L	1	5	<0.10	106	1	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		54.5	mg/Kg	1	50	109	80 - 120
Toluene-d8		54.5	mg/Kg	1	50	109	80 - 120
4-Bromofluorobenzene		54	mg/Kg	1	50	108	80 - 120

Sample: MS QC Batch: QC05329

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0550	mg/L	1	0.05	<0.010	110		80 - 120	20

Sample: MSD QC Batch: QC05329

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0571	mg/L	1	0.05	<0.010	114	4	80 - 120	20

Sample: MS QC Batch: QC05330

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		0.96	mg/L	1	2	<0.10	48		75 - 125	20
TCLP Barium		2.06	mg/L	1	2	<0.10	103		75 - 125	20
TCLP Cadmium		0.20	mg/L	1	0.20	<0.02	100		75 - 125	20
TCLP Chromium		0.40	mg/L	1	0.40	<0.05	100		75 - 125	20

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Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Lead		0.93	mg/L	1	1	<0.10	93		75 - 125	20
TCLP Selenium		0.88	mg/L	1	1	<0.10	88		75 - 125	20
TCLP Silver		0.19	mg/L	1	0.20	<0.05	95		75 - 125	20

Sample: MSD QC Batch: QC05330

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		0.97	mg/L	1	1	<0.10	48	1	75 - 125	20
TCLP Barium		2.07	mg/L	1	2	<0.10	103	0	75 - 125	20
TCLP Cadmium		0.20	mg/L	1	0.20	<0.02	100	0	75 - 125	20
TCLP Chromium		0.40	mg/L	1	0.40	<0.05	100	0	75 - 125	20
TCLP Lead		0.94	mg/L	1	1	<0.10	94	1	75 - 125	20
TCLP Selenium		0.88	mg/L	1	1	<0.10	88	0	75 - 125	20
TCLP Silver		0.19	mg/L	1	0.20	<0.05	95	0	75 - 125	20

Quality Control Report
Duplicate Samples

Sample: Duplicate QC Batch: QC05326

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Reactivity		Non-reactive	Non-reactive		1	0	20
Hydrogen Sulfide		<10	<10		1	0	20
Hydrogen Cyanide		<2.5	<2.5		1	0	20

Sample: Duplicate QC Batch: QC05328

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Ignitability		Non-ignitable	non-ignitable		1	0	20

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC05276

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pyridine		mg/L	60	56.74	94	0 - 92	10/2/00
1,4-Dichlorobenzene		mg/L	60	59.96	99	39 - 87	10/2/00
o-Cresol		mg/L	60	53.25	88	41 - 92	10/2/00
m,p-Cresol		mg/L	60	51.19	85	7 - 127	10/2/00
Hexachloroethane		mg/L	60	58.63	97	35 - 85	10/2/00
Nitrobenzene		mg/L	60	60.62	101	43 - 108	10/2/00
Hexachlorobutadiene		mg/L	60	65.17	108	38 - 89	10/2/00
2,4,6-Trichlorophenol		mg/L	60	60.78	101	47 - 107	10/2/00
2,4,5-Trichlorophenol		mg/L	60	57.96	96	49 - 105	10/2/00
2,4-Dinitrotoluene		mg/L	60	60.63	101	49 - 105	10/2/00
Hexachlorobenzene		mg/L	60	59.17	98	47 - 122	10/2/00
Pentachlorophenol		mg/L	60	71.77	119	33 - 99	10/2/00
2-Fluorophenol		mg/L	60	59.73	99	20 - 67	10/2/00
Phenol-d5		mg/L	60	53.14	88	7 - 55	10/2/00
Nitrobenzene-d5		mg/L	60	60.73	101	33 - 116	10/2/00
2-Fluorobiphenyl		mg/L	60	59.59	99	47 - 107	10/2/00
2,4,6-Tribromophenol		mg/L	60	57.43	95	47 - 113	10/2/00
Terphenyl-d14		mg/L	60	55.05	91	47 - 124	10/2/00

Sample: CCV (1) QC Batch: QC05284

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	114	114	80 - 120	10/1/00
1,1-Dichloroethene		mg/L	100	92	92	80 - 120	10/1/00
Methyl ethyl ketone		mg/L	100	82	82	80 - 120	10/1/00
Chloroform		mg/L	100	84	84	80 - 120	10/1/00
1,2-Dichloroethane (EDC)		mg/L	100	86	86	80 - 120	10/1/00
Benzene		mg/L	100	86	86	80 - 120	10/1/00
Carbon Tetrachloride		mg/L	100	81	81	80 - 120	10/1/00
Trichloroethene (TCE)		mg/L	100	84	84	80 - 120	10/1/00
Tetrachloroethene (PCE)		mg/L	100	81	81	80 - 120	10/1/00
Chlorobenzene		mg/L	100	86	86	80 - 120	10/1/00
1,4-Dichlorobenzene		mg/L	100	82	82	80 - 120	10/1/00
Dibromofluoromethane		mg/L	50	55	110	80 - 120	10/1/00
Toluene-d8		mg/L	50	53	106	80 - 120	10/1/00
4-Bromofluorobenzene		mg/L	50	54	108	80 - 120	10/1/00

Sample: CCV (1) QC Batch: QC05329

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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.05	0.0509	101	80 - 120	10/2/00

Sample: CCV (1)

QC Batch: QC05330

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.62	104	75 - 125	10/3/00
TCLP Barium		mg/L	5	5.19	103	75 - 125	10/3/00
TCLP Cadmium		mg/L	0.50	0.52	104	75 - 125	10/3/00
TCLP Chromium		mg/L	1	1.04	104	75 - 125	10/3/00
TCLP Lead		mg/L	2.50	2.57	102	75 - 125	10/3/00
TCLP Selenium		mg/L	2.50	2.63	105	75 - 125	10/3/00
TCLP Silver		mg/L	0.50	0.51	102	75 - 125	10/3/00

Sample: ICV (1)

QC Batch: QC05330

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.55	102	75 - 125	10/3/00
TCLP Barium		mg/L	5	5.14	102	75 - 125	10/3/00
TCLP Cadmium		mg/L	0.50	0.51	102	75 - 125	10/3/00
TCLP Chromium		mg/L	1	1.02	102	75 - 125	10/3/00
TCLP Lead		mg/L	2.50	2.53	101	75 - 125	10/3/00
TCLP Selenium		mg/L	2.50	2.58	103	75 - 125	10/3/00
TCLP Silver		mg/L	0.50	0.51	102	75 - 125	10/3/00

154327-29

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 # A0092717

Company Name: NAVAJO REFINING CO. Phone #: (505) 748-3341

Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210 Fax #: (505) 746-5421

Contact Person: BRYAN MADRID

Invoice to: (If different from above)

Project #: Project Name:

Project Location: Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	SAMP	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard	Hold
154327	BLAST SAND TK411	1	1L					X			X	X	9/26/00	13:00						X	X	X		X											
28	BLAST BEADS	1	1L					X			X	X	9/26/00	13:30						X	X	X		X											
29	HYDROCARBON CONTAM SOIL	1	1L		X						X	X	9/26/00	14:00						X	X	X		X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	9/26/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			Vicki Newsly	9-27-00	9:00

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

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp 2 °

Log-in Review B

Carrier # Fed Ex

REMARKS:

PLEASE FAX RESULTS ALONG WITH COC ASAP. LET ME KNOW IF SAMPLE DOESN'T ARRIVE COLD. THANKS

10/4

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
OCT 24 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

10-008

Filters. Used to seperate soids and other impurities from amine in our amine unit and sour water in our tail gas unit.

I am enclosing analytical data, Certificate of Waste Status, chain of custody, and copy of previous C-138. The process has not changed.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-12-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 10/19/00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 10/24/00

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: **20 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: **Process has not changed - Previous analysis enclosed.**

NMOCD FACILITY: **Controlled Recovery Incorportated**

TRUCKING COMPANY: **BES Rental 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: 10/10/00

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

Originated 8

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to approp
District (

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 BES
3. Address of Facility Operator P.O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 501 EAST 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:

06-006

FILTERS - USED TO SEPERATE SOLIDS AND OTHER IMPURITIES BEFORE WASTEWATER IS SENT TO THE INJECTIONS WELLS.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS, AND CHAIN OF CUSTODY. THE PROCESS HAS NOT CHANGED.

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

SIGNATURE: Carmella Van Maanen TITLE: BOOKKEEPER DATE: 06-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: CARMELLA VAN MAANEN TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 6-30-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 07-10-00

TRACEANALYSIS, 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: 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

08/30/99
DATE

TRACEANALYSIS, 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 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

TCLP Semi-Volatile (mg/L)	EPA Limit	Reporting Limit	T129820 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

08/31/99
Date

TRACEANALYSIS, 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: 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

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

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: Hg SPIKE 0.0500 mg/L
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba: 0.20 mg/L Ag Hg CV: 0.00500 mg/L

Director, Dr. Blair Leftwich

08/30/99
Date

TRACEANALYSIS, 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

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

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

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

29820-21

701 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 # 99081309

Company Name: NAVAJO REFINING CO.
Phone #: (505) 748-3311
Address: (Street, City, Zip) 501 E. MAIN ARTESIA 88210
Fax #: (505) 748-9077
Contact Person: BRYAN MADRID
Invoice to: (if different from above)
Project #:
Project Name:
Project Location:
Sampler Signature: Bryan Madrid

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Solid Filter	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
9820	FILTER	1	1L				X	✓			X	X	8/12/99	13:00
9821	TK 116	1	1L				✓	X			X	X	8/12/99	13:00

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB #	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
9820						X	X	X		X							
9821						X	X	X		X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bryan Madrid	8/12/99	16:25			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Dick Umaha	Date: 8-13-99	Time: 9:20 am

LAB USE ONLY
Intact (Y) / N
Headspace Y / N
Temp -10 °
Log-in Review

REMARKS:

Carrier # FedEx 259 4616 227

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Oil Conservation Division

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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 BES or Champion
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East 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:

12-002

Filters. Used to seperate solids and other impurities from amine in our amine unit and sour water in our tail gas unit.

I am enclosing Certificate of Waste Status, and copy of previous C-138.
The process has not changed.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 12-06-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 12-7-00

APPROVED BY: Martyn J. Kieling TITLE: Environmental Geologist DATE: 12-14-00

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, Artesia, NM 88210

GENERATING SITE Navajo Refining Company

COUNTY Lea STATE NM

TYPE OF WASTE Filters

ESTIMATED VOLUME 20 yards

GENERATING PROCESS Filters are used to seperate solids and other impurities from amine in our amine unit and sour water in our tail gas unit.

REMARKS Process has not changed - Previous analyisis enclosed.

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY BES Rental in a 20 yard roll off bins.
or Champion 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 Charlie Plymale
SIGNATURE

NAME Charlie Plymale
PRINTED

ADDRESS 501 East Main

Artesia, NM 88210

DATE 12-5-00

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

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10-008

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I am enclosing analytical data, Certificate of Waste Status, chain of custody, and copy of previous C-138. The process has not changed.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-12-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 10/19/00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 10/24/00

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Oil Conservation Division

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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 Champion
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 501 East 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:

12-003

Asphalt collected from a clean-up of an ashphalt spill.

I am enclosing a Certificate of Waste Status, analytical, Chain of Custody, and copy of previous C-138. This material has been approved in the past.

Estimated Volume 15 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 12-12-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 12-12-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 12/21/00

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

ESTIMATED VOLUME: 15 yards

GENERATING PROCESS: Asphalt collected from a clean-up of an asphalt Spill.

REMARKS: This waste has been approved in the past.

NMOCD FACILITY: Controlled Recovery Incorportated

TRUCKING COMPANY: Champion 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: _____
SIGNATURE

NAME: Charlie Plymale
PRINTED

ADDRESS: 501 EAST MAIN

ARTESIA,NM 88210

DATE: 12/11/00

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
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District IV - (505) 827-7131

New Mexico
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Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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

10-003

Asphalt collected from a clean-up of an asphalt spill.

I am enclosing a Certificate of Waste Status and copy of previous C-138.
This material has been approved in the past.

The Analytical that is on File was taken Back in 8-18-1995.
These Results are Now 5 years old. New Analytials Should be Run
Prior to the Next Shipment Request For Asphalt. MJK

Estimated Volume 15 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-02-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 10-06-00

APPROVED BY: [illegible]

TRACEANALYSIS, INC.

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

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

December 7, 2000
Receiving Date: 11/21/00
Sample Type: Solid
Project #: N/A
Project Location: Artesia, NM

Analysis Date: 02/16/00
Sampling Date: 11/20/00
Sample Condition: I & C
Sample Received by: JM
Project Name: Asphalt Test/Filter Test

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250	—	<2 >12.5	—
T159224	Filter	Non-reactive	<10	<2.5	Non-corrosive	7.90	Non-Ignitable
T159225	Asphalt	Non-reactive	<10	<2.5	Non-corrosive	7.89	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: TL

BL

Director, Dr. Blair Leftwich

12-7-00

Date

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4775 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

Darrell Moore
Navajo Refining
501 E Main
Artesia, NM 88210

Report Date: December 7, 2000

Order ID Number: A00112115

Project Number: N/A
Project Name: Asphalt Test /Filter Test
Project Location: Artesia, NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
159224	Filter	Solid	11/20/00	17:30	11/21/00
159225	Asphalt	Solid	11/20/00	17:30	11/21/00

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 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 159224 - Filter

Analysis:	TCLP Hg	Analytical Method:	S 7470A	QC Batch:	QC06904	Date Analyzed:	11/28/00
Analyst:	SSC	Preparation Method:	E 1311	Prep Batch:	PB06057	Date Prepared:	11/21/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 159224 - Filter

Analysis:	TCLP Metals	Analytical Method:	S 6010B	QC Batch:	QC06917	Date Analyzed:	11/28/00
Analyst:	RR	Preparation Method:	1311	Prep Batch:	PB06086	Date Prepared:	11/27/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<1	mg/L	10	0.10
TCLP Barium		<1	mg/L	10	0.10
TCLP Cadmium		<0.2	mg/L	10	0.02
TCLP Chromium		<1	mg/L	10	0.10
TCLP Lead		<1	mg/L	10	0.10
TCLP Selenium		<1	mg/L	10	0.10
TCLP Silver		<0.5	mg/L	10	0.05

Sample: 159224 - Filter

Analysis:	TCLP Semivolatiles	Analytical Method:	E 8270C	QC Batch:	QC06888	Date Analyzed:	11/24/00
Analyst:	MA	Preparation Method:	1311	Prep Batch:	PB06044	Date Prepared:	11/22/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		38.27	mg/L	1	80	45	20 - 67
Phenol-d5		23.18	mg/L	1	80	28	7 - 55
Nitrobenzene-d5		71.54	mg/L	1	80	89	33 - 116
2 Fluorobiphenyl		67.79	mg/L	1	80	84	47 - 107

Continued ...

Report Date: December 7, 2000 Order Number: A00112115 Page Number: 3 of 13
N/A Asphalt Test /Filter Test Artesia, NM

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2,4,6-Tribromophenol		71.72	mg/L	1	80	89	47 - 113
Terphenyl-d14		72.55	mg/L	1	80	90	47 - 124

Sample: 159224 - Filter

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC07128 Date Analyzed: 12/5/00
Analyst: JG Preparation Method: 1311 Prep Batch: PB06246 Date Prepared: 12/3/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	50	0.002
1,1-Dichloroethene		<0.10	mg/L	50	0.002
Methyl ethyl ketone		<0.50	mg/L	50	0.01
Chloroform		<0.10	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	50	0.002
Benzene		<0.10	mg/L	50	0.002
Carbon Tetrachloride		<0.10	mg/L	50	0.002
Trichloroethene (TCE)		<0.10	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	50	0.002
Chlorobenzene		<0.10	mg/L	50	0.002
1,4-Dichlorobenzene		<0.10	mg/L	50	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		52	mg/L	1	50	104	83 - 119
Toluene-d8		51.5	mg/L	1	50	103	87 - 115
4-Bromofluorobenzene		50.5	mg/L	1	50	101	79 - 112

Sample: 159225 - Asphalt

Analysis: TCLP Hg Analytical Method: S 7470A QC Batch: QC06904 Date Analyzed: 11/28/00
Analyst: SSC Preparation Method: E 1311 Prep Batch: PB06057 Date Prepared: 11/21/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Mercury		<0.010	mg/L	1	0.01

Sample: 159225 - Asphalt

Analysis: TCLP Metals Analytical Method: S 6010B QC Batch: QC06917 Date Analyzed: 11/28/00
Analyst: RR Preparation Method: 1311 Prep Batch: PB06086 Date Prepared: 11/27/00

Param	Flag	Result	Units	Dilution	RDL
TCLP Arsenic		<1	mg/L	10	0.10
TCLP Barium		<1	mg/L	10	0.10
TCLP Cadmium		<0.2	mg/L	10	0.02
TCLP Chromium		<1	mg/L	10	0.10
TCLP Lead		<1	mg/L	10	0.10
TCLP Selenium		<1	mg/L	10	0.10
TCLP Silver		<0.5	mg/L	10	0.05

Report Date: December 7, 2000 Order Number: A00112115 Page Number: 4 of 13
N/A Asphalt Test /Filter Test Artesia, NM

Sample: 159225 - Asphalt

Analysis: TCLP Semivolatiles Analytical Method: E 8270C QC Batch: QC06888 Date Analyzed: 11/24/00
Analyst: MA Preparation Method: 1311 Prep Batch: PB06044 Date Prepared: 11/22/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.05	mg/L	1	0.05
o-Cresol		<0.05	mg/L	1	0.05
m,p-Cresol		<0.05	mg/L	1	0.05
Hexachloroethane		<0.05	mg/L	1	0.05
Nitrobenzene		<0.05	mg/L	1	0.05
Hexachlorobutadiene		<0.05	mg/L	1	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	1	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	1	0.05
2,4-Dinitrotoluene		<0.05	mg/L	1	0.05
2,4-D		<0.05	mg/L	1	0.05
Hexachlorobenzene		<0.05	mg/L	1	0.05
2,4,5-TP		<0.05	mg/L	1	0.05
Pentachlorophenol		<0.05	mg/L	1	0.05

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		35.47	mg/L	1	80	44	20 - 87
Phenol-d5		24.73	mg/L	1	80	30	7 - 55
Nitrobenzene-d5		76.38	mg/L	1	80	94	33 - 116
2-Fluorobiphenyl		70.70	mg/L	1	80	88	47 - 107
2,4,6-Tribromophenol		71.05	mg/L	1	80	88	47 - 113
Terphenyl-d14		75.79	mg/L	1	80	94	47 - 124

Sample: 159225 - Asphalt

Analysis: TCLP Volatiles Analytical Method: S 8260B QC Batch: QC07128 Date Analyzed: 12/5/00
Analyst: JG Preparation Method: 1311 Prep Batch: PB06246 Date Prepared: 12/3/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.10	mg/L	1	0.002
1,1-Dichloroethene		<0.10	mg/L	1	0.002
Methyl ethyl ketone		<0.50	mg/L	1	0.01
Chloroform		<0.10	mg/L	1	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	1	0.002
Benzene		<0.10	mg/L	1	0.002
Carbon Tetrachloride		<0.10	mg/L	1	0.002
Trichloroethene (TCE)		<0.10	mg/L	1	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	1	0.002
Chlorobenzene		<0.10	mg/L	1	0.002
1,4-Dichlorobenzene		<0.10	mg/L	1	0.002

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		53	mg/L	1	50	106	83 - 119
Toluene-d8		51	mg/L	1	50	102	87 - 115

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene		49.5	mg/L	1	50	99	79 - 112

Quality Control Report
Method Blank

Sample: Method Blank QCBatch: QC06888

Param	Flag	Results	Units	Reporting Limit
Pyridine		<0.05	mg/L	0.05
o-Cresol		<0.05	mg/L	0.05
m,p-Cresol		<0.05	mg/L	0.05
Hexachloroethane		<0.05	mg/L	0.05
Nitrobenzene		<0.05	mg/L	0.05
Hexachlorobutadiene		<0.05	mg/L	0.05
2,4,6-Trichlorophenol		<0.05	mg/L	0.05
2,4,5-Trichlorophenol		<0.05	mg/L	0.05
2,4-Dinitrotoluene		<0.05	mg/L	0.05
2,4-D		<0.05	mg/L	0.05
Hexachlorobenzene		<0.05	mg/L	0.05
2,4,5-TP		<0.05	mg/L	0.05
Pentachlorophenol		<0.05	mg/L	0.05

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		31.55	mg/L	80	39	20 - 67
Phenol-d5		21.51	mg/L	80	26	7 - 55
Nitrobenzene d5		63.64	mg/L	80	79	33 - 116
2-Fluorobiphenyl		61.11	mg/L	80	76	47 - 107
2,4,6-Tribromophenol		61.42	mg/L	80	76	47 - 113
Terphenyl-d14		68.32	mg/L	80	85	47 - 124

Sample: Method Blank QCBatch: QC06904

Param	Flag	Results	Units	Reporting Limit
TCLP Mercury		<0.010	mg/L	0.01

Sample: Method Blank QCBatch: QC06917

Report Date: December 7, 2000 | Order Number: A00112115 | Page Number: 6 of 13
N/A | Asphalt Test /Filter Test | Artesia, NM

Param	Flag	Results	Units	Reporting Limit
TCLP Arsenic		<0.1	mg/L	0.10
TCLP Barium		<0.1	mg/L	0.10
TCLP Cadmium		<0.02	mg/L	0.02
TCLP Chromium		<0.1	mg/L	0.10
TCLP Lead		<0.1	mg/L	0.10
TCLP Selenium		<0.1	mg/L	0.10
TCLP Silver		<0.05	mg/L	0.05

Sample: Method Blank QCBatch: QC07128

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<0.10	mg/L	0.002
1,1-Dichloroethene		<0.10	mg/L	0.002
Methyl ethyl ketone		<0.50	mg/L	0.01
Chloroform		<0.10	mg/L	0.002
1,2-Dichloroethane (EDC)		<0.10	mg/L	0.002
Benzene		<0.10	mg/L	0.002
Carbon Tetrachloride		<0.10	mg/L	0.002
Trichloroethene (TCE)		<0.10	mg/L	0.002
Tetrachloroethene (PCE)		<0.10	mg/L	0.002
Chlorobenzene		<0.10	mg/L	0.002
1,4 Dichlorobenzene		<0.10	mg/L	0.002

Surrogate	Flag	Result	Units	Spike Amount	Percent Recovery	Recovery Limit
Dibromofluoromethane		53	mg/L	50	106	83 - 119
Toluene-d8		51.5	mg/L	50	103	87 - 115
4 Bromofluorobenzene		50	mg/L	50	100	79 - 112

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC06888

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		17.10	mg/L	1	80	<0.05	21		0 - 92	20
o-Cresol		49.27	mg/L	1	80	<0.05	61		41 - 92	20
m,p-Cresol		85.60	mg/L	1	160	<0.05	53		7 - 127	20
Hexachloroethane		39.57	mg/L	1	80	<0.05	49		35 - 85	20
Nitrobenzene		67.21	mg/L	1	80	<0.05	84		43 - 108	20
Hexachlorobutadiene		44.52	mg/L	1	80	<0.05	55		38 - 89	20

Continued ...

Report Date: December 7, 2000
N/A

Order Number: A00112115
Asphalt Test /Filter Test

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Artesia, NM

... Continued

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
2,4,6-Trichlorophenol		60.90	mg/L	1	80	<0.05	76		47 - 107	20
2,4,5-Trichlorophenol		61.10	mg/L	1	80	<0.05	76		49 - 105	20
2,4-Dinitrotoluene		75.18	mg/L	1	80	<0.05	93		49 - 105	20
2,4-D	1	353.95	mg/L	1	80	<0.05	442		0 - 127	20
Hexachlorobenzene		69.69	mg/L	1	80	<0.05	87		47 - 122	20
2,4,5-TP	2	476.56	mg/L	1	80	<0.05	595		0 - 130	20
Pentachlorophenol		33.86	mg/L	1	80	<0.05	42		33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec Limit
2-Fluorophenol		36.90	mg/L	1	80	46	20 - 67
Phenol-d5		25.23	mg/L	1	80	31	7 - 55
Nitrobenzene-d5		70.91	mg/L	1	80	88	33 - 116
2-Fluorobiphenyl		67.13	mg/L	1	80	83	47 - 107
2,4,6 Tribromophenol		71.09	mg/L	1	80	88	47 - 113
Terphenyl-d14		74.19	mg/L	1	80	92	47 - 124

Sample: LCSD QC Batch: QC06888

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Pyridine		18.81	mg/L	1	80	<0.05	23	10	0 - 92	20
o Cresol		49.88	mg/L	1	80	<0.05	62	1	41 - 92	20
m,p Cresol		88.63	mg/L	1	160	<0.05	55	3	7 - 127	20
Hexachloroethane		40.70	mg/L	1	80	<0.05	50	3	35 - 85	20
Nitrobenzene		65.43	mg/L	1	80	<0.05	81	3	43 - 108	20
Hexachlorobutadiene		43.64	mg/L	1	80	<0.05	54	2	38 - 89	20
2,4,6-Trichlorophenol		62.07	mg/L	1	80	<0.05	77	2	47 - 107	20
2,4,5-Trichlorophenol		61.56	mg/L	1	80	<0.05	76	1	49 - 105	20
2,4-Dinitrotoluene		76.70	mg/L	1	80	<0.05	95	2	49 - 105	20
2,4-D	3	361.43	mg/L	1	80	<0.05	451	2	0 - 127	20
Hexachlorobenzene		68.74	mg/L	1	80	<0.05	85	1	47 - 122	20
2,4,5-TP	4	486.66	mg/L	1	80	<0.05	608	2	0 - 130	20
Pentachlorophenol		38.11	mg/L	1	80	<0.05	47	12	33 - 99	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorophenol		37.88	mg/L	1	80	47	20 - 67
Phenol-d5		25.44	mg/L	1	80	31	7 - 55
Nitrobenzene-d5		71.60	mg/L	1	80	89	33 - 116

Continued ...

[1] Analyte out of control limit. Irradic reponse due to being stored in methanol. Specific analyte did not appear in samples.
[2] Analyte out of control limit. Irradic reponse due to being stored in methanol. Specific analyte did not appear in samples.
[3] Analyte out of control limit. Irradic reponse due to being stored in methanol. Specific analyte did not appear in samples.
[4] Analyte out of control limit. Irradic reponse due to being stored in methanol. Specific analyte did not appear in samples.

... Continued

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
2-Fluorobiphenyl		67.08	mg/L	1	80	83	47 - 107
2,4,6-Tribromophenol		71.30	mg/L	1	80	89	47 - 113
Terphenyl-d14		73.53	mg/L	1	80	91	47 - 124

Sample: LCS QC Batch: QC06904

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0493	mg/L	1	0.05	<0.010	98		80 - 120	20

Sample: LCSD QC Batch: QC06904

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0491	mg/L	1	0.05	<0.010	98	0	80 - 120	20

Sample: LCS QC Batch: QC06917

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.73	mg/L	10	10	<0.1	97		75 - 125	20
TCLP Barium		20.6	mg/L	10	20	<0.1	103		75 - 125	20
TCLP Cadmium		2.06	mg/L	10	2	<0.02	103		75 - 125	20
TCLP Chromium		4.22	mg/L	10	4	<0.1	105		75 - 125	20
TCLP Lead		10.4	mg/L	10	10	<0.1	104		75 - 125	20
TCLP Selenium		8.99	mg/L	10	10	<0.1	89		75 - 125	20
TCLP Silver		1.98	mg/L	10	2	<0.05	99		75 125	20

Sample: LCSD QC Batch: QC06917

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.48	mg/L	10	10	<0.1	94	3	75 - 125	20
TCLP Barium		20.3	mg/L	10	20	<0.1	101	1	75 - 125	20
TCLP Cadmium		2.03	mg/L	10	2	<0.02	101	1	75 - 125	20
TCLP Chromium		4.14	mg/L	10	4	<0.1	103	2	75 - 125	20
TCLP Lead		10.2	mg/L	10	10	<0.1	102	2	75 - 125	20
TCLP Selenium		9.02	mg/L	10	10	<0.1	90	0	75 - 125	20
TCLP Silver		1.94	mg/L	10	2	<0.05	97	2	75 - 125	20

Sample: LCS QC Batch: QC07128

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.66	mg/L	1	5	<0.10	113		47 - 147	20
1,1-Dichloroethene		7.46	mg/L	1	5	<0.10	149		63 - 165	20
Methyl ethyl ketone		7.16	mg/L	1	5	<0.50	143		52 160	20
Chloroform		5.90	mg/L	1	5	<0.10	118		82 - 128	20
1,2-Dichloroethane (EDC)		6.66	mg/L	1	5	<0.10	133		80 127	20
Benzene		5.15	mg/L	1	5	<0.10	103		88 - 126	20
Carbon Tetrachloride		5.74	mg/L	1	5	<0.10	114		52 - 167	20
Trichloroethene (TCE)		5.49	mg/L	1	5	<0.10	109		77 - 131	20
Tetrachloroethene (PCE)		4.76	mg/L	1	5	<0.10	95		66 - 143	20
Chlorobenzene		4.84	mg/L	1	5	<0.10	96		85 - 118	20
1,4-Dichlorobenzene		5.21	mg/L	1	5	<0.10	104		81 - 123	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		59	mg/L	1	50	118	83 - 119
Toluene-d8		52	mg/L	1	50	104	87 - 115
4 Bromofluorobenzene		51	mg/L	1	50	102	79 - 112

Sample: LCSD QC Batch: QC07128

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		5.55	mg/L	1	5	<0.10	111	2	47 - 147	20
1,1 Dichloroethene		7.51	mg/L	1	5	<0.10	150	1	63 - 165	20
Methyl ethyl ketone		7.23	mg/L	1	5	<0.50	144	1	52 - 160	20
Chloroform		5.98	mg/L	1	5	<0.10	119	1	82 - 128	20
1,2 Dichloroethane (EDC)		6.61	mg/L	1	5	<0.10	132	1	80 - 127	20
Benzene		5.29	mg/L	1	5	<0.10	105	3	88 126	20
Carbon Tetrachloride		5.89	mg/L	1	5	<0.10	117	2	52 . 167	20
Trichloroethene (TCE)		5.61	mg/L	1	5	<0.10	112	2	77 131	20
Tetrachloroethene (PCE)		4.91	mg/L	1	5	<0.10	98	3	66 - 143	20
Chlorobenzene		4.90	mg/L	1	5	<0.10	98	1	85 - 118	20
1,4-Dichlorobenzene		5.35	mg/L	1	5	<0.10	107	3	81 - 123	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		57	mg/L	1	50	114	83 - 119
Toluene-d8		52.5	mg/L	1	50	105	87 - 115
4-Bromofluorobenzene		51	mg/L	1	50	102	79 - 112

Quality Control Report

Matrix Spikes and Duplicate Spikes

Sample: MS QC Batch: QC06904

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0441	mg/L	1	0.05	<0.010	88		80 - 120	20

Sample: MSD QC Batch: QC06904

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Mercury		0.0430	mg/L	1	0.05	<0.010	86	2	80 - 120	20

Sample: MS QC Batch: QC06917

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.74	mg/L	10	10	<1	97		75 - 125	20
TCLP Barium		20.5	mg/L	10	20	<1	102		75 - 125	20
TCLP Cadmium		2.05	mg/L	10	2	<0.2	102		75 - 125	20
TCLP Chromium		4.19	mg/L	10	4	<1	104		75 - 125	20
TCLP Lead		10.4	mg/L	10	10	<1	104		75 - 125	20
TCLP Selenium		8.8	mg/L	10	10	<1	88		75 - 125	20
TCLP Silver		1.94	mg/L	10	2	<0.5	97		75 - 125	20

Sample: MSD QC Batch: QC06917

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
TCLP Arsenic		9.75	mg/L	10	10	<1	97	0	75 - 125	20
TCLP Barium		20.4	mg/L	10	20	<1	102	0	75 - 125	20
TCLP Cadmium		2.03	mg/L	10	2	<0.2	101	1	75 - 125	20
TCLP Chromium		4.15	mg/L	10	4	<1	103	1	75 125	20
TCLP Lead		10.3	mg/L	10	10	<1	103	1	75 - 125	20
TCLP Selenium		8.72	mg/L	10	10	<1	87	1	75 - 125	20
TCLP Silver		1.94	mg/L	10	2	<0.5	97	0	75 - 125	20

Sample: MS QC Batch: QC07128

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		4.31	mg/L	1	5	<0.10	86		47 - 147	20
1,1 Dichloroethene		7.11	mg/L	1	5	<0.10	142		63 - 165	20
Methyl ethyl ketone		6.35	mg/L	1	5	<0.50	127		52 - 160	20
Chloroform		5.34	mg/L	1	5	<0.10	106		82 - 128	20
1,2-Dichloroethane (EDC)		5.64	mg/L	1	5	<0.10	112		80 - 127	20
Benzene		5.04	mg/L	1	5	<0.10	100		88 126	20
Carbon Tetrachloride		5.72	mg/L	1	5	<0.10	114		52 - 167	20
Trichloroethene (TCE)		5.43	mg/L	1	5	<0.10	108		77 - 131	20
Tetrachloroethene (PCE)		5.16	mg/L	1	5	<0.10	103		66 - 143	20
Chlorobenzene		4.83	mg/L	1	5	<0.10	96		85 - 118	20
1,4-Dichlorobenzene		5.25	mg/L	1	5	<0.10	105		81 - 123	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		52	mg/L	1	50	104	83 - 119
Toluene-d8		51	mg/L	1	50	102	87 - 115
4-Bromofluorobenzene		51	mg/L	1	50	102	79 - 112

Sample: MSD QC Batch: QC07128

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec Limit	RPD Limit
Vinyl Chloride		4.14	mg/L	1	5	<0.10	82	4	47 - 147	20
1,1-Dichloroethene		7.05	mg/L	1	5	<0.10	141	1	63 - 165	20
Methyl ethyl ketone	5	2.19	mg/L	1	5	<0.50	43	97	52 - 160	20
Chloroform		5.54	mg/L	1	5	<0.10	110	4	82 - 128	20
1,2-Dichloroethane (EDC)		5.98	mg/L	1	5	<0.10	119	6	80 - 127	20
Benzene		5.13	mg/L	1	5	<0.10	102	2	88 - 126	20
Carbon Tetrachloride		5.98	mg/L	1	5	<0.10	119	4	52 - 167	20
Trichloroethene (TCE)		5.47	mg/L	1	5	<0.10	109	1	77 - 131	20
Tetrachloroethene (PCE)		4.98	mg/L	1	5	<0.10	99	4	66 - 143	20
Chlorobenzene		4.81	mg/L	1	5	<0.10	96	0	85 - 118	20
1,4 Dichlorobenzene		5.31	mg/L	1	5	<0.10	106	1	81 123	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		53	mg/L	1	50	106	83 - 119
Toluene-d8		52.5	mg/L	1	50	105	87 - 115
4 Bromofluorobenzene		51	mg/L	1	50	102	79 - 112

Quality Control Report

[5]poor spike recovery due to purging characteristic of MEK

Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC06888

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Pyridine		mg/L	60	61.96	103	0 - 92	11/24/00
1,4 Dichlorobenzene		mg/L	60	59.54	99	39 - 87	11/24/00
o-Cresol		mg/L	60	61.83	103	41 92	11/24/00
m,p-Cresol		mg/L	60	61.11	101	7 127	11/24/00
Hexachloroethane		mg/L	60	60.91	101	35 - 85	11/24/00
Nitrobenzene		mg/L	60	59.86	99	43 - 108	11/24/00
Hexachlorobutadiene		mg/L	60	59.80	99	38 - 89	11/24/00
2,4,6-Trichlorophenol		mg/L	60	59.15	98	47 - 107	11/24/00
2,4,5-Trichlorophenol		mg/L	60	59.75	99	49 - 105	11/24/00
2,4-Dinitrotoluene		mg/L	60	59.26	98	49 - 105	11/24/00
2,4-D		mg/L	60	58.98	98	0 - 127	11/24/00
Hexachlorobenzene		mg/L	60	59.15	98	47 - 122	11/24/00
2,4,5-TP		mg/L	60	58.76	97	0 - 130	11/24/00
Pentachlorophenol		mg/L	60	52.49	87	33 - 99	11/24/00
2-Fluorophenol		mg/L	60	61.08	101	20 - 87	11/24/00
Phenol-d5		mg/L	60	60.09	100	7 - 55	11/24/00
Nitrobenzene-d5		mg/L	60	59.64	99	33 - 116	11/24/00
2 Fluorobiphenyl		mg/L	60	59.27	98	47 107	11/24/00
2,4,6-Tribromophenol		mg/L	60	57.27	95	47 - 113	11/24/00
Terphenyl-d14		mg/L	60	59.46	99	47 124	11/24/00

Sample: CCV (1) QC Batch: QC06904

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Mercury		mg/L	0.005	0.00462	92	80 - 120	11/28/00

Sample: CCV (1) QC Batch: QC06917

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.52	100	75 - 125	11/28/00
TCLP Barium		mg/L	5	5.03	100	75 - 125	11/28/00
TCLP Cadmium		mg/L	0.50	0.511	102	75 - 125	11/28/00
TCLP Chromium		mg/L	1	1.03	103	75 - 125	11/28/00
TCLP Lead		mg/L	2.50	2.56	102	75 - 125	11/28/00
TCLP Selenium		mg/L	2.50	2.52	100	75 - 125	11/28/00
TCLP Silver		mg/L	0.50	0.498	99	75 - 125	11/28/00

Sample: ICV (1)

QC Batch: QC06917

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TCLP Arsenic		mg/L	2.50	2.54	101	75 - 125	11/28/00
TCLP Barium		mg/L	5	5.16	103	75 - 125	11/28/00
TCLP Cadmium		mg/L	0.50	0.515	103	75 - 125	11/28/00
TCLP Chromium		mg/L	1	1.04	104	75 - 125	11/28/00
TCLP Lead		mg/L	2.50	2.58	103	75 - 125	11/28/00
TCLP Selenium		mg/L	2.50	2.56	102	75 125	11/28/00
TCLP Silver		mg/L	0.50	0.51	102	75 125	11/28/00

Sample: CCV (1)

QC Batch: QC07128

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	92	92	47 - 147	12/5/00
1,1-Dichloroethene		mg/L	100	103	103	63 - 165	12/5/00
Methyl ethyl ketone		mg/L	100	118	118	52 - 160	12/5/00
Chloroform		mg/L	100	85	85	82 - 128	12/5/00
1,2-Dichloroethane (EDC)		mg/L	100	93	93	80 - 127	12/5/00
Benzene		mg/L	100	85	85	88 - 126	12/5/00
Carbon Tetrachloride		mg/L	100	92	92	52 - 167	12/5/00
Trichloroethene (TCE)		mg/L	100	88	88	77 - 131	12/5/00
Tetrachloroethene (PCE)		mg/L	100	80	80	66 - 143	12/5/00
Chlorobenzene		mg/L	100	81	81	85 - 118	12/5/00
1,4-Dichlorobenzene		mg/L	100	85	85	81 - 123	12/5/00
Dibromofluoromethane		mg/L	50	51	102	80 - 120	12/5/00
Toluene-d8		mg/L	50	51.5	103	80 - 120	12/5/00
4-Bromofluorobenzene		mg/L	50	51	102	80 - 120	12/5/00

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 #: ___

Company Name: NAVAJO
Phone #: 505 748 3311
Address: (Street, City, Zip) 501 E. Main
Fax #: 505 746 5421
Contact Person: Darrell Moore or Charlie Flynale
Invoice to: (if different from above)
Project #:
Project Name: Asphalt Test Filter Tests
Project Location: Artesia NM
Sampler Signature: [signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Other/Specify	PRESERVATIVE METHOD: HCL	HNO3	NaHSO4	H2SO4	NaOH	ICE	NONE		SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH				Turn Around Time if different from standard
	Filter	1	1L					X						X	X		11/20/00	15:30					X	X	X		X										
	Asphalt	1	1L				X							X	X		11/20/00	15:30					X	X	X		X										

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	11/20/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp ___ °
Log-in Review ___

REMARKS:

Carrier # ___

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

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Page ____ of ____

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 79922-1029
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4001215

Company Name: NAVAJO
Phone #: 5057483311
Address: (Street, City, Zip) 501 E. Main
Fax #: 5057465421
Contact Person: Darrell Moore or Charlie Plymate
Invoice to: (If different from above)
Project #:
Project Name: Asphalt Test Filter Tests
Project Location: Artesia NM
Sampler Signature: Charlie Plymate

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Chx/sludge	PRESERVATIVE METHOD: HCL	HNO3	NaHSO4	H2SO4	NaOH	ICE	NONE		SAMPLING DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 8010B/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 8082/608	Pesticides 8081A/608	BOD, TSS, pH						Turn Around Time if different from standard
159224	Filter	1	1L					X						X	X		11/20/00	15:30						X	X	X		X											
225	Asphalt	1	1L				X							X	X		11/20/00	15:30						X	X	X		X											

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Charlie Plymate	11/20/00	16:15			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Judi Oviedo	Date: 11-21-00	Time: 10:00

LAB USE ONLY
Intact: Y / N
Headspace: Y / N
Temp: -2 °C
Log-In Review: MS

REMARKS:
12/7

Carrier # Fed Ex 308 8131-444

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

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Date 12-20 # of pages ▶ 1
To Carmella From Charlie P.
Co./Dept. CRI Co. Navajo
Phone # Phone #
Fax # 915-393-3615 Fax #

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E Natural
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key Energy
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

12-004

This waste was generated by rain caught from the plant.

I am enclosing a Certificate of Waste Status, copy of previous analytical, and Chain of Custody, process of knowledge letter, and copy of previous C-138.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 12-12-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 12-12-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 12/18/00

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

COMPANY / GENERATOR L G & E Natural Gas

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS This waste water was generated by rain caught from the 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 Slomad
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 12-12-00

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Oil Conservation Division

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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 NEW MEXICO
7. Location of Material (Street Address or ULSTR) 923 SANGER, HOBBS	NEW MEXICO

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from t Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

05-005
THE FOLLOWING ANALYTICAL IS FROM THE LG&E HOBBS PLANT. THE WASTE WAS GENERATED BY RAIN WATER AND/OR WASHDOWN WATER. INCLUDED IS A CERTIFICATE OF WASTE, ANALYTICAL DATA AND A CHAIN (THIS MATERIAL HAS BEEN APPROVED IN THE PAST.

Estimated Volume 90 200 BBLS. Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 5-10-00
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. Engineer Specialist DATE: 05-12-00

L G & E Natural Gas
921 W. Sanger
Hobbs, NM 88240

December 12, 2000

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

L G & E requests that the attached analytical data be approved for usage through November, 2001. The process that generates this waste stream has not changed. Thank you for your consideration.

Sincerely,

Ed Sloman

L G & E Natural Gas.
Ed Sloman

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CGI

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

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: 02/23/99
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

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: 02/26/99
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 PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
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

2/26/99
Date

H4035M.XLS

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: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY 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 PLANT	Not reactive	Not reactive	8.74	>140
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*

Burgett A. Cooke
Chemist

2/25/99
Date

H4035R.XLS

CARDINAL 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

Company Name: SES, Inc
Project Manager: Dyke Browning
Address:
City: State: Zip:
Phone #:
Fax #:
Project #: Project Owner:
Project Name: LG&E Natural
Project Location: Various

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Complete TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	Complete TCLP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:46a	✓
Sample Invalid	~~Apex Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature] Date: 2/22/99 Time: 3:31 p
Received By:
Relinquished By: [signature] Date: 2/22/99 Time: 3:3
Received By: (Lab Staff) Amy Hill
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS: All samples taken with Coliwasa From top entry of tank

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
DEC 1 3 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Baker Petrolite
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 1030 Andrews Hwy.
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Walton Construction
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 5624 Lovington Highway	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:

12-001

Contaminated soil generated by oilfield ground spill.

I am enclosing a certificate of waste status, analytical, chain of custody, and process of knowledge letter.

Estimated Volume 1.5 cubic yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 12-06-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 12-7-00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 12-14-00

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

COMPANY / GENERATOR: BAKER PETROLITE

ADDRESS 5624 LOVINGTON HIGHWAY

GENERATING SITE SAME

COUNTY LEA STATE NM

TYPE OF WASTE SOIL / GROUND SPILL

ESTIMATED VOLUME ≈ 1.5 YD³

GENERATING PROCESS OILFIELD CHEMICAL SPILL

REMARKS OLD "CRUSTY" HYDROCARBONS

NMOCD FACILITY CRI

TRUCKING COMPANY WALTONS CONS

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 Moises Vizcaino
SIGNATURE

NAME MOISES VIZCAINO
PRINTED

ADDRESS 1030 Andrews Hwy #115
Midland, TX 79701

DATE 5 Dec 2000

Amarillo:
4104 West 33rd Street
Amarillo, Texas 79109
(806) 467-0607
Fax (806) 467-0622

LP Environmental
Llano -Permian Environmental

Midland:
1031 Andrews Highway, Suite 115
Midland, Texas 79701
(915) 522-2133
Fax (915) 522-2180

December 6, 2000

Mr. Ken Marsh
Controlled Recovery Inc.
P.O. Box 388
Hobbs, NM 88241

Subject: Waste Characterization for Baker Petrolite Facility Soils at Hobbs, NM facility

Dear Mr. Marsh:

On the basis of the information presented in the Material Safety Data Sheets for chemicals presently distributed from the facility and by using process knowledge in preparing such oilfield hydrocarbon additives, the above soils do not exhibit characteristics that would deem the soils as hazardous. The soils are neither ignitable nor corrosive nor reactive by nature. These hydrocarbons in the soils are aged and no longer exhibit an odor, much less any volatile materials. These materials are suitable for disposal at your facility.

Please call me and let me know if you have any other questions regarding this waste. I can be reached at 915 / 522-2133 or by fax at 915 / 522-2180. Thank you.

Sincerely,
LLANO-PERMIAN ENVIRONMENTAL

Bo Vizcaino

Bo Vizcaino
Sr. Project Manager

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 #: 0008211 6

Company Name: LAND PERMIAN
Phone #: 915 522 2133
Address: (Street, City, Zip)
Fax #: 915 522 2180
Contact Person: BO VIZCAINO
Invoice to: (If different from above)
Project #: BPC
Project Name: SUBSURFACE INVESTIGATION
Project Location: HOBBS, NM
Sampler Signature: Bo Vizcaino

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE		# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	NaHSO4	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 8015	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH					Turn Around Time if different from standard
1518 24	SB-10	0-1'	1	4oz		✓								✓		8/16	1545		X	X																
25	SB-10	7' TD	1	4oz		✓								✓		8/16	1560		X	X																
26	SB-11	0-1	1	4oz		✓								✓		8/16	1530		X	X																
27	SB-11	2.5' TD	1	4oz		✓								✓		8/16	1558		X	X																
28	SB-12	0-1'	1	4oz		✓								✓		8-16	1100		X	X																
29	SB-12	10' TD	1	4oz		✓								✓		8-16	1125		X	X																
30	SB-13	0-1	1	4oz		✓								✓		8-16	0855			X	X						X	X								
31	SB-13	19' TD	1	4oz		✓								✓		8-16	0940			X	X						X	X								
32	SB-14	0-1	1	4oz		✓								✓		8-16	1635		X	X																
33	SB-14	8' TD	1	4oz		✓								✓		8-16	1650		X	X																

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bo Vizcaino	8/18/00	1700	Ellen Shelton	8/18/00	1700
Ellen Shelton	8/18/00	6:30PM			
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
			[illegible]	8/19/00	9:30AM

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4 °
Log-in Review [illegible]

REMARKS:

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 10 samples-HS

Carrier # Greyhound 157787 8711

Sample: 151829 - SB-12 10' TD

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC04488	Date Analyzed:	8/25/00
Analyst:	BP	Preparation Method:	3550 B	Prep Batch:	PB03908	Date Prepared:	8/21/00

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Sample: 151829 - SB-12 10' TD

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC04522	Date Analyzed:	8/28/00
Analyst:	RC	Preparation Method:		Prep Batch:	PB03941	Date Prepared:	8/28/00

Param	Flag	Result	Units	Dilution	RDL
GRO		<5	mg/Kg	1	0.10

Sample: 151830 - SB-13 0-1'

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC04476	Date Analyzed:	8/27/00
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB03900	Date Prepared:	8/27/00

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<1000	µg/Kg	1	2
Dichlorodifluoromethane		<1000	µg/Kg	1	2
Chloromethane (methyl chloride)		<1000	µg/Kg	1	2
Vinyl Chloride		<1000	µg/Kg	1	2
Bromomethane (methyl bromide)		<2500	µg/Kg	1	5
Chloroethane		<1000	µg/Kg	1	2
Trichlorofluoromethane		<1000	µg/Kg	1	2
Acetone		<5000	µg/Kg	1	10
Iodomethane (methyl iodide)		<1000	µg/Kg	1	2
Carbon Disulfide		<1000	µg/Kg	1	2
Acrylonitrile		<1000	µg/Kg	1	2
2-Butanone (MEK)		<1000	µg/Kg	1	2
4-methyl-2-pentanone (MIBK)		<5000	µg/Kg	1	10
2-hexanone		<1000	µg/Kg	1	2
trans 1,4-Dichloro-2-butene		<5000	µg/Kg	1	10
1,1-Dichloroethene		<1000	µg/Kg	1	2
Methylene chloride		<2500	µg/Kg	1	5
MTBE		<1000	µg/Kg	1	2
trans-1,2-Dichloroethene		<1000	µg/Kg	1	2
1,1-Dichloroethane		<1000	µg/Kg	1	2
cis-1,2-dichloroethene		<1000	µg/Kg	1	2
2,2-Dichloropropane		<1000	µg/Kg	1	2
1,2-Dichloroethane (EDC)		<1000	µg/Kg	1	2
Chloroform		<1000	µg/Kg	1	2
1,1,1-Trichloroethane		<1000	µg/Kg	1	2
1,1-Dichloropropene		<1000	µg/Kg	1	2
Benzene		<1000	µg/Kg	1	2
Carbon Tetrachloride		<1000	µg/Kg	1	2
1,2-Dichloropropane		<1000	µg/Kg	1	2
Trichloroethene (TCE)		<1000	µg/Kg	1	2
Dibromomethane (methylene bromide)		<1000	µg/Kg	1	2

Continued ...

... *Continued* Sample: 151830 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Bromodichloromethane		<1000	µg/Kg	1	2
2-Chloroethyl vinyl ether		<5000	µg/Kg	1	10
cis-1,3-Dichloropropene		<1000	µg/Kg	1	2
trans-1,3-Dichloropropene		<1000	µg/Kg	1	2
Toluene		<1000	µg/Kg	1	2
1,1,2-Trichloroethane		<1000	µg/Kg	1	2
1,3-Dichloropropane		<1000	µg/Kg	1	2
Dibromochloromethane		<1000	µg/Kg	1	2
1,2-Dibromoethane (EDB)		<1000	µg/Kg	1	2
Tetrachloroethene (PCE)		<1000	µg/Kg	1	2
Chlorobenzene		<1000	µg/Kg	1	2
1,1,1,2-Tetrachloroethane		<1000	µg/Kg	1	2
Ethylbenzene		<1000	µg/Kg	1	2
m,p-Xylene		4023	µg/Kg	1	2
Bromoform		<1000	µg/Kg	1	2
Styrene		<1000	µg/Kg	1	2
o-Xylene		11598	µg/Kg	1	2
1,1,2,2-Tetrachloroethane		<1000	µg/Kg	1	2
2-Chlorotoluene		<1000	µg/Kg	1	2
1,2,3-Trichloropropane		<1000	µg/Kg	1	2
Isopropylbenzene		4985	µg/Kg	1	2
Bromobenzene		<1000	µg/Kg	1	2
n-Propylbenzene		9100	µg/Kg	1	2
1,3,5-Trimethylbenzene		34295	µg/Kg	1	2
tert-Butylbenzene		<1000	µg/Kg	1	2
1,2,4-Trimethylbenzene		49752	µg/Kg	1	2
1,4-Dichlorobenzene (para)		<1000	µg/Kg	1	2
sec-Butylbenzene		1739	µg/Kg	1	2
1,3-Dichlorobenzene		<1000	µg/Kg	1	2
p-Isopropyltoluene		29711	µg/Kg	1	2
4-Chlorotoluene		<1000	µg/Kg	1	2
1,2-Dichlorobenzene (ortho)		<1000	µg/Kg	1	2
n-Butylbenzene		2260	µg/Kg	1	2
1,2-Dibromo-3-chloropropane		<2500	µg/Kg	1	5
1,2,3-Trichlorobenzene		<2500	µg/Kg	1	5
1,2,4-Trichlorobenzene		<2500	µg/Kg	1	5
Naphthalene		56454	µg/Kg	1	2
Hexachlorobutadiene		<2500	µg/Kg	1	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.05	µg/Kg	1	50	94	69 - 116
Toluene-d8		49.78	µg/Kg	1	50	99	88 - 114
4-Bromofluorobenzene		51.53	µg/Kg	1	50	103	74 - 110

Sample: 151830 - SB-13 0-1'

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC04527	Date Analyzed:	8/29/00
Analyst:	MA	Preparation Method:	E 3510C	Prep Batch:	PB03854	Date Prepared:	8/21/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<25.00	mg/Kg	100	0.25
n-Nitrosodimethylamine		<25.00	mg/Kg	100	0.25
2-Picoline		<25.00	mg/Kg	100	0.25
Methyl methanesulfonate		<25.00	mg/Kg	100	0.25
Ethyl methanesulfonate		<25.00	mg/Kg	100	0.25
Phenol		<25.00	mg/Kg	100	0.25
Aniline		<25.00	mg/Kg	100	0.25
bis (2-chloroethyl) ether		<25.00	mg/Kg	100	0.25
2-Chlorophenol		<25.00	mg/Kg	100	0.25
1,3-Dichlorobenzene		<25.00	mg/Kg	100	0.25
1,4-Dichlorobenzene		<25.00	mg/Kg	100	0.25
Benzyl alcohol		<25.00	mg/Kg	100	0.25
1,2-Dichlorobenzene		<25.00	mg/Kg	100	0.25
2-Methylphenol		<25.00	mg/Kg	100	0.25
bis (2-chloroisopropyl) ether		<25.00	mg/Kg	100	0.25
4-Methylphenol/3-Methylphenol		<25.00	mg/Kg	100	0.25
Acetophenone		<25.00	mg/Kg	100	0.25
n-Nitrosodi-n-propylamine		<25.00	mg/Kg	100	0.25
Hexachloroethane		<25.00	mg/Kg	100	0.25
Nitrobenzene		<25.00	mg/Kg	100	0.25
n-Nitrosopiperidine		<25.00	mg/Kg	100	0.25
Isophorone		<25.00	mg/Kg	100	0.25
2-Nitrophenol		<25.00	mg/Kg	100	0.25
2,4-Dimethylphenol		<25.00	mg/Kg	100	0.25
bis (2-chloroethoxy) methane		<25.00	mg/Kg	100	0.25
Benzoic acid		<25.00	mg/Kg	100	0.25
2,4-Dichlorophenol		<25.00	mg/Kg	100	0.25
1,2,4-Trichlorobenzene		<25.00	mg/Kg	100	0.25
a,a-Dimethylphenethylamine		<25.00	mg/Kg	100	0.25
Naphthalene		79.70	mg/Kg	100	0.25
4-Chloroaniline		<25.00	mg/Kg	100	0.25
2,6-Dichlorophenol		<25.00	mg/Kg	100	0.25
Hexachlorobutadiene		<25.00	mg/Kg	100	0.25
n-Nitroso-di-n-butylamine		<25.00	mg/Kg	100	0.25
4-Chloro-3-methylphenol		<25.00	mg/Kg	100	0.25
1-Methylnaphthalene		348.04	mg/Kg	100	0.25
2-Methylnaphthalene		328.58	mg/Kg	100	0.25
1,2,4,5-Tetrachlorobenzene		<25.00	mg/Kg	100	0.25
Hexachlorocyclopentadiene		<25.00	mg/Kg	100	0.25
2,4,6-Trichlorophenol		<25.00	mg/Kg	100	0.25
2,4,5-Trichlorophenol		<25.00	mg/Kg	100	0.25
2-Chloronaphthalene		<25.00	mg/Kg	100	0.25
1-Chloronaphthalene		<25.00	mg/Kg	100	0.25
2-Nitroaniline		<25.00	mg/Kg	100	0.25
Dimethylphthalate		<25.00	mg/Kg	100	0.25
Acenaphthylene		<25.00	mg/Kg	100	0.25
2,6-Dinitrotoluene		<25.00	mg/Kg	100	0.25
3-Nitroaniline		<25.00	mg/Kg	100	0.25
Acenaphthene		27.39	mg/Kg	100	0.25
2,4-Dinitrophenol		<25.00	mg/Kg	100	0.25
Dibenzofuran		30.09	mg/Kg	100	0.25
Pentachlorobenzene		<25.00	mg/Kg	100	0.25

Continued ...

... *Continued* Sample: 151830 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
4-Nitrophenol		<25.00	mg/Kg	100	0.25
1-Napthylamine		<25.00	mg/Kg	100	0.25
2,4-Dinitrotoluene		<25.00	mg/Kg	100	0.25
2-Napthylamine		<25.00	mg/Kg	100	0.25
2,3,4,6-Tetrachlorophenol		<25.00	mg/Kg	100	0.25
Fluorene		47.51	mg/Kg	100	0.25
Diethylphthalate		<25.00	mg/Kg	100	0.25
4-Chlorophenyl-phenylether		<25.00	mg/Kg	100	0.25
4-Nitroaniline		<25.00	mg/Kg	100	0.25
4,6-Dinitro-2-methylphenol		25.35	mg/Kg	100	0.25
Diphenylamine		<25.00	mg/Kg	100	0.25
Diphenylhydrazine		<25.00	mg/Kg	100	0.25
4-Bromophenyl-phenylether		<25.00	mg/Kg	100	0.25
Phenacetin		<25.00	mg/Kg	100	0.25
Hexachlorobenzene		<25.00	mg/Kg	100	0.25
4-Aminobiphenyl		<25.00	mg/Kg	100	0.25
Pentachlorophenol		<25.00	mg/Kg	100	0.25
Pentachloronitrobenzene		<25.00	mg/Kg	100	0.25
Pronamide		<25.00	mg/Kg	100	0.25
Phenanthrene		121.10	mg/Kg	100	0.25
Anthracene		<25.00	mg/Kg	100	0.25
Di-n-butylphthalate		<25.00	mg/Kg	100	0.25
Fluoranthene		<25.00	mg/Kg	100	0.25
Benzidine		25.77	mg/Kg	100	0.25
Pyrene		<25.00	mg/Kg	100	0.25
p-Dimethylaminoazobenzene		<25.00	mg/Kg	100	0.25
Butylbenzylphthalate		<25.00	mg/Kg	100	0.25
Benzo(a)anthracene		<25.00	mg/Kg	100	0.25
3,3-Dichlorobenzidine		<25.00	mg/Kg	100	0.25
Chrysene		<25.00	mg/Kg	100	0.25
Bis (2-ethylhexyl) phthalate		<25.00	mg/Kg	100	0.25
Di-n-octylphthalate		<25.00	mg/Kg	100	0.25
Benzo(b)fluoranthene		<25.00	mg/Kg	100	0.25
7,12-Dimethylbenz(a)anthracene		<25.00	mg/Kg	100	0.25
Benzo(k)fluoranthene		<25.00	mg/Kg	100	0.25
Benzo(a)pyrene		<25.00	mg/Kg	100	0.25
3-Methylcholanthrene		<25.00	mg/Kg	100	0.25
Dibenzo(a,j)acridine		<25.00	mg/Kg	100	0.25
Indeno(1,2,3-cd)pyrene		<25.00	mg/Kg	100	0.25
Dibenzo(a,h)anthracene		<25.00	mg/Kg	100	0.25
Benzo(g,h,i)perylene		<25.00	mg/Kg	100	0.25

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		59.31	mg/Kg	100	80	74	22 - 103
Phenol-d5		70.23	mg/Kg	100	80	87	32 - 112
Nitrobenzene-d5		61.65	mg/Kg	100	80	77	45 - 111
2-Fluorobiphenyl		81.19	mg/Kg	100	80	101	43 - 110
2,4,6-Tribromophenol		11.02	mg/Kg	100	80	13	34 - 136
Terphenyl-d14		76.27	mg/Kg	100	80	95	47 - 120

Sample: 151830 - SB-13 0-1'

Analysis:	Hg, Total	Analytical Method:	S 7471A	QC Batch:	QC04492	Date Analyzed:	8/23/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB03910	Date Prepared:	8/23/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.19	mg/Kg	1	0.19

Sample: 151830 - SB-13 0-1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC04595	Date Analyzed:	8/31/00
Analyst:	BP	Preparation Method:	3550 B	Prep Batch:	PB04003	Date Prepared:	8/31/00

Param	Flag	Result	Units	Dilution	RDL
DRO		9,478	mg/Kg	10	50

Sample: 151830 - SB-13 0-1'

Analysis:	TPH GRO	Analytical Method:	Mod. 602	QC Batch:	QC04522	Date Analyzed:	8/28/00
Analyst:	RC	Preparation Method:		Prep Batch:	PB03941	Date Prepared:	8/28/00

Param	Flag	Result	Units	Dilution	RDL
GRO		<5	mg/Kg	1	0.10

Sample: 151830 - SB-13 0-1'

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04489	Date Analyzed:	8/23/00
Analyst:	RR	Preparation Method:	E 3050B	Prep Batch:	PB03829	Date Prepared:	8/23/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<5.0	mg/Kg	1	5
Total Barium		128	mg/Kg	1	5
Total Cadmium		<2.0	mg/Kg	1	2
Total Chromium		<5.0	mg/Kg	1	5
Total Lead		5.2	mg/Kg	1	5
Total Selenium		<5.0	mg/Kg	1	5
Total Silver		<2.0	mg/Kg	1	2

Sample: 151831 - SB-13 19' TD

Analysis:	8260	Analytical Method:	S 8260B	QC Batch:	QC04476	Date Analyzed:	8/27/00
Analyst:	JG	Preparation Method:	E 5030B	Prep Batch:	PB03900	Date Prepared:	8/27/00

Param	Flag	Result	Units	Dilution	RDL
Bromochloromethane		<50	µg/Kg	25	2
Dichlorodifluoromethane		<50	µg/Kg	25	2
Chloromethane (methyl chloride)		<50	µg/Kg	25	2
Vinyl Chloride		<50	µg/Kg	25	2
Bromomethane (methyl bromide)		<125	µg/Kg	25	5
Chloroethane		<50	µg/Kg	25	2
Trichlorofluoromethane		<50	µg/Kg	25	2

Continued ...

... *Continued* Sample: 151831 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
Acetone		<250	µg/Kg	25	10
Iodomethane (methyl iodide)		<50	µg/Kg	25	2
Carbon Disulfide		<50	µg/Kg	25	2
Acrylonitrile		<50	µg/Kg	25	2
2-Butanone (MEK)		<50	µg/Kg	25	2
4-methyl-2-pentanone (MIBK)		<250	µg/Kg	25	10
2-hexanone		<50	µg/Kg	25	2
trans 1,4-Dichloro-2-butene		<250	µg/Kg	25	10
1,1-Dichloroethene		<50	µg/Kg	25	2
Methylene chloride		<125	µg/Kg	25	5
MTBE		<50	µg/Kg	25	2
trans-1,2-Dichloroethene		<50	µg/Kg	25	2
1,1-Dichloroethane		<50	µg/Kg	25	2
cis-1,2-dichloroethene		<50	µg/Kg	25	2
2,2-Dichloropropane		<50	µg/Kg	25	2
1,2-Dichloroethane (EDC)		<50	µg/Kg	25	2
Chloroform		<50	µg/Kg	25	2
1,1,1-Trichloroethane		<50	µg/Kg	25	2
1,1-Dichloropropene		<50	µg/Kg	25	2
Benzene		<50	µg/Kg	25	2
Carbon Tetrachloride		<50	µg/Kg	25	2
1,2-Dichloropropane		<50	µg/Kg	25	2
Trichloroethene (TCE)		<50	µg/Kg	25	2
Dibromomethane (methylene bromide)		<50	µg/Kg	25	2
Bromodichloromethane		<50	µg/Kg	25	2
2-Chloroethyl vinyl ether		<250	µg/Kg	25	10
cis-1,3-Dichloropropene		<50	µg/Kg	25	2
trans-1,3-Dichloropropene		<50	µg/Kg	25	2
Toluene		<50	µg/Kg	25	2
1,1,2-Trichloroethane		<50	µg/Kg	25	2
1,3-Dichloropropane		<50	µg/Kg	25	2
Dibromochloromethane		<50	µg/Kg	25	2
1,2-Dibromoethane (EDB)		<50	µg/Kg	25	2
Tetrachloroethene (PCE)		<50	µg/Kg	25	2
Chlorobenzene		<50	µg/Kg	25	2
1,1,1,2-Tetrachloroethane		<50	µg/Kg	25	2
Ethylbenzene		<50	µg/Kg	25	2
m,p-Xylene		<50	µg/Kg	25	2
Bromoform		<50	µg/Kg	25	2
Styrene		<50	µg/Kg	25	2
o-Xylene		<50	µg/Kg	25	2
1,1,2,2-Tetrachloroethane		<50	µg/Kg	25	2
2-Chlorotoluene		<50	µg/Kg	25	2
1,2,3-Trichloropropane		<50	µg/Kg	25	2
Isopropylbenzene		<50	µg/Kg	25	2
Bromobenzene		<50	µg/Kg	25	2
n-Propylbenzene		<50	µg/Kg	25	2
1,3,5-Trimethylbenzene		<50	µg/Kg	25	2
tert-Butylbenzene		<50	µg/Kg	25	2
1,2,4-Trimethylbenzene		<50	µg/Kg	25	2
1,4-Dichlorobenzene (para)		<50	µg/Kg	25	2

Continued ...

... *Continued* Sample: 151831 Analysis: 8260

Param	Flag	Result	Units	Dilution	RDL
sec-Butylbenzene		<50	µg/Kg	25	2
1,3-Dichlorobenzene		<50	µg/Kg	25	2
p-Isopropyltoluene		<50	µg/Kg	25	2
4-Chlorotoluene		<50	µg/Kg	25	2
1,2-Dichlorobenzene (ortho)		<50	µg/Kg	25	2
n-Butylbenzene		<50	µg/Kg	25	2
1,2-Dibromo-3-chloropropane		<125	µg/Kg	25	5
1,2,3-Trichlorobenzene		<125	µg/Kg	25	5
1,2,4-Trichlorobenzene		<125	µg/Kg	25	5
Naphthalene		319	µg/Kg	25	2
Hexachlorobutadiene		<125	µg/Kg	25	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.31	µg/Kg	1	50	92	69 - 116
Toluene-d8		49.37	µg/Kg	1	50	98	88 - 114
4-Bromofluorobenzene		51.57	µg/Kg	1	50	103	74 - 110

Sample: 151831 - SB-13 19' TD

Analysis:	8270	Analytical Method:	S 8270C	QC Batch:	QC04421	Date Analyzed:	8/22/00
Analyst:	MA	Preparation Method:	E 3510C	Prep Batch:	PB03854	Date Prepared:	8/21/00

Param	Flag	Result	Units	Dilution	RDL
Pyridine		<0.25	mg/Kg	1	0.25
n-Nitrosodimethylamine		<0.25	mg/Kg	1	0.25
2-Picoline		<0.25	mg/Kg	1	0.25
Methyl methanesulfonate		<0.25	mg/Kg	1	0.25
Ethyl methanesulfonate		<0.25	mg/Kg	1	0.25
Phenol		<0.25	mg/Kg	1	0.25
Aniline		<0.25	mg/Kg	1	0.25
bis (2-chloroethyl) ether		<0.25	mg/Kg	1	0.25
2-Chlorophenol		<0.25	mg/Kg	1	0.25
1,3-Dichlorobenzene		<0.25	mg/Kg	1	0.25
1,4-Dichlorobenzene		<0.25	mg/Kg	1	0.25
Benzyl alcohol		<0.25	mg/Kg	1	0.25
1,2-Dichlorobenzene		<0.25	mg/Kg	1	0.25
2-Methylphenol		<0.25	mg/Kg	1	0.25
bis (2-chloroisopropyl) ether		<0.25	mg/Kg	1	0.25
4-Methylphenol/3-Methylphenol		<0.25	mg/Kg	1	0.25
Acetophenone		<0.25	mg/Kg	1	0.25
n-Nitrosodi-n-propylamine		<0.25	mg/Kg	1	0.25
Hexachloroethane		<0.25	mg/Kg	1	0.25
Nitrobenzene		<0.25	mg/Kg	1	0.25
n-Nitrosopiperidine		<0.25	mg/Kg	1	0.25
Isophorone		<0.25	mg/Kg	1	0.25
2-Nitrophenol		<0.25	mg/Kg	1	0.25
2,4-Dimethylphenol		<0.25	mg/Kg	1	0.25
bis (2-chloroethoxy) methane		<0.25	mg/Kg	1	0.25

Continued ...

... *Continued* Sample: 151831 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Benzoic acid		<0.25	mg/Kg	1	0.25
2,4-Dichlorophenol		<0.25	mg/Kg	1	0.25
1,2,4-Trichlorobenzene		<0.25	mg/Kg	1	0.25
a,a-Dimethylphenethylamine		<0.25	mg/Kg	1	0.25
Naphthalene		<0.25	mg/Kg	1	0.25
4-Chloroaniline		<0.25	mg/Kg	1	0.25
2,6-Dichlorophenol		<0.25	mg/Kg	1	0.25
Hexachlorobutadiene		<0.25	mg/Kg	1	0.25
n-Nitroso-di-n-butylamine		<0.25	mg/Kg	1	0.25
4-Chloro-3-methylphenol		<0.25	mg/Kg	1	0.25
1-Methylnaphthalene		<0.25	mg/Kg	1	0.25
2-Methylnaphthalene		<0.25	mg/Kg	1	0.25
1,2,4,5-Tetrachlorobenzene		<0.25	mg/Kg	1	0.25
Hexachlorocyclopentadiene		<0.25	mg/Kg	1	0.25
2,4,6-Trichlorophenol		<0.25	mg/Kg	1	0.25
2,4,5-Trichlorophenol		<0.25	mg/Kg	1	0.25
2-Chloronaphthalene		<0.25	mg/Kg	1	0.25
1-Chloronaphthalene		<0.25	mg/Kg	1	0.25
2-Nitroaniline		<0.25	mg/Kg	1	0.25
Dimethylphthalate		<0.25	mg/Kg	1	0.25
Acenaphthylene		<0.25	mg/Kg	1	0.25
2,6-Dinitrotoluene		<0.25	mg/Kg	1	0.25
3-Nitroaniline		<0.25	mg/Kg	1	0.25
Acenaphthene		<0.25	mg/Kg	1	0.25
2,4-Dinitrophenol		<0.25	mg/Kg	1	0.25
Dibenzofuran		<0.25	mg/Kg	1	0.25
Pentachlorobenzene		<0.25	mg/Kg	1	0.25
4-Nitrophenol		<0.25	mg/Kg	1	0.25
1-Napthylamine		<0.25	mg/Kg	1	0.25
2,4-Dinitrotoluene		<0.25	mg/Kg	1	0.25
2-Napthylamine		<0.25	mg/Kg	1	0.25
2,3,4,6-Tetrachlorophenol		<0.25	mg/Kg	1	0.25
Fluorene		<0.25	mg/Kg	1	0.25
Diethylphthalate		<0.25	mg/Kg	1	0.25
4-Chlorophenyl-phenylether		<0.25	mg/Kg	1	0.25
4-Nitroaniline		<0.25	mg/Kg	1	0.25
4,6-Dinitro-2-methylphenol		<0.25	mg/Kg	1	0.25
Diphenylamine		<0.25	mg/Kg	1	0.25
Diphenylhydrazine		<0.25	mg/Kg	1	0.25
4-Bromophenyl-phenylether		<0.25	mg/Kg	1	0.25
Phenacetin		<0.25	mg/Kg	1	0.25
Hexachlorobenzene		<0.25	mg/Kg	1	0.25
4-Aminobiphenyl		<0.25	mg/Kg	1	0.25
Pentachlorophenol		<0.25	mg/Kg	1	0.25
Pentachloronitrobenzene		<0.25	mg/Kg	1	0.25
Pronamide		<0.25	mg/Kg	1	0.25
Phenanthrene		<0.25	mg/Kg	1	0.25
Anthracene		<0.25	mg/Kg	1	0.25
Di-n-butylphthalate		<0.25	mg/Kg	1	0.25
Fluoranthene		<0.25	mg/Kg	1	0.25
Benzidine		<0.25	mg/Kg	1	0.25

Continued ...

... *Continued* Sample: 151831 Analysis: 8270

Param	Flag	Result	Units	Dilution	RDL
Pyrene		<0.25	mg/Kg	1	0.25
p-Dimethylaminoazobenzene		<0.25	mg/Kg	1	0.25
Butylbenzylphthalate		<0.25	mg/Kg	1	0.25
Benzo(a)anthracene		<0.25	mg/Kg	1	0.25
3,3-Dichlorobenzidine		<0.25	mg/Kg	1	0.25
Chrysene		<0.25	mg/Kg	1	0.25
Bis (2-ethylhexyl) phthalate		0.84	mg/Kg	1	0.25
Di-n-octylphthalate		<0.25	mg/Kg	1	0.25
Benzo(b)fluoranthene		<0.25	mg/Kg	1	0.25
7,12-Dimethylbenz(a)anthracene		<0.25	mg/Kg	1	0.25
Benzo(k)fluoranthene		<0.25	mg/Kg	1	0.25
Benzo(a)pyrene		<0.25	mg/Kg	1	0.25
3-Methylcholanthrene		<0.25	mg/Kg	1	0.25
Dibenzo(a,j)acridine		<0.25	mg/Kg	1	0.25
Indeno(1,2,3-cd)pyrene		<0.25	mg/Kg	1	0.25
Dibenzo(a,h)anthracene		<0.25	mg/Kg	1	0.25
Benzo(g,h,i)perylene		<0.25	mg/Kg	1	0.25

Sample: 151831 - SB-13 19' TD

Analysis:	Hg, Total	Analytical Method:	S 7471A	QC Batch:	QC04492	Date Analyzed:	8/23/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB03910	Date Prepared:	8/23/00

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.19	mg/Kg	1	0.19

Sample: 151831 - SB-13 19' TD

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC04488	Date Analyzed:	8/25/00
Analyst:	BP	Preparation Method:	3550 B	Prep Batch:	PB03908	Date Prepared:	8/21/00

Param	Flag	Result	Units	Dilution	RDL
DRO		69	mg/Kg	1	50

Sample: 151831 - SB-13 19' TD

Analysis:	TPH GRO	Analytical Method:	Mod. 602	QC Batch:	QC04522	Date Analyzed:	8/28/00
Analyst:	RC	Preparation Method:		Prep Batch:	PB03941	Date Prepared:	8/28/00

Param	Flag	Result	Units	Dilution	RDL
GRO		<5	mg/Kg	1	0.10

Sample: 151831 - SB-13 19' TD

Analysis:	Total Metals	Analytical Method:	S 6010B	QC Batch:	QC04489	Date Analyzed:	8/23/00
Analyst:	RR	Preparation Method:	E 3050B	Prep Batch:	PB03829	Date Prepared:	8/23/00

Param	Flag	Result	Units	Dilution	RDL
Total Arsenic		<5.0	mg/Kg	1	5
Total Barium		135	mg/Kg	1	5
Total Cadmium		<2.0	mg/Kg	1	2
Total Chromium		<5.0	mg/Kg	1	5
Total Lead		<5.0	mg/Kg	1	5
Total Selenium		<5.0	mg/Kg	1	5
Total Silver		<2.0	mg/Kg	1	2

Sample: 151832 - SB-14 0-1'

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04520	Date Analyzed:	8/28/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB03940	Date Prepared:	8/28/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.05	mg/Kg	50	0.001
Toluene		<0.05	mg/Kg	50	0.001
Ethylbenzene		<0.05	mg/Kg	50	0.001
M,P,O-Xylene		<0.05	mg/Kg	50	0.001
Total BTEX		<0.05	mg/Kg	50	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		5.84	mg/Kg	1	0.10	116	72 - 128
4-BFB		5.68	mg/Kg	1	0.10	113	72 - 128

Sample: 151832 - SB-14 0-1'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	QC Batch:	QC04488	Date Analyzed:	8/25/00
Analyst:	BP	Preparation Method:	3550 B	Prep Batch:	PB03908	Date Prepared:	8/21/00

Param	Flag	Result	Units	Dilution	RDL
DRO		<50	mg/Kg	1	50

Sample: 151832 - SB-14 0-1'

Analysis:	TPH GRO	Analytical Method:	8015B	QC Batch:	QC04522	Date Analyzed:	8/28/00
Analyst:	RC	Preparation Method:		Prep Batch:	PB03941	Date Prepared:	8/28/00

Param	Flag	Result	Units	Dilution	RDL
GRO		<5	mg/Kg	1	0.10

Sample: 151833 - SB-14 8'-TD

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC04520	Date Analyzed:	8/28/00
Analyst:	RC	Preparation Method:	5035	Prep Batch:	PB03940	Date Prepared:	8/28/00

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.05	mg/Kg	50	0.001

Continued ...

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
DEC 0 7 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E Natural
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Calmon & Rattlesnake Station & Hobbs Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

11-010 Calmon Station
25 cubic yards lube oil product leaked to surrounding soil.
I am enclosing certificate of waste status, analytical & chain of custody.

11-011 Rattlesnake Station
25 cubic yards lube oil product leaked to surrounding soil.
I am enclosing certificate of waste status, analytical, & chain of custody.

11-012 Hobbs Plant
200 cubic yards lube oil product leaked to surrounding soil.
I am enclosing certificate of waste status, analytical & chain of custody.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-28-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 12-4-00

APPROVED BY: Martyn J. Kieb TITLE: Environmental Geologist DATE: 12-7-00

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

COMPANY / GENERATOR L G & E Natural

ADDRESS 921 W. Sanger, Hobbs, NM

GENERATING SITE Calmon Compressor Sta.

COUNTY Lea STATE NM

TYPE OF WASTE Soil Contaminated with lube oil & product

ESTIMATED VOLUME 25 yd^3

GENERATING PROCESS Lube oil & product leaked to surrounding soil

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Unknown

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 D. L. Browning
SIGNATURE

NAME DYKE BROWNING
PRINTED

ADDRESS 1220 N. Grimes
Hobbs, NM 88240

DATE 11/27/00

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

GENERATING SITE Rattlesnake Compressor Sta

COUNTY Lea STATE NM

TYPE OF WASTE Soil Contaminated with lube oil & product

ESTIMATED VOLUME 25 yd 3

GENERATING PROCESS Lube oil & product leaked to surrounding soil

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Unknown

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 Dyke Browning
PRINTED

ADDRESS 1220 N. Grimes
Hobbs, NM 88240

DATE 11/27/00

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

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Soil contaminated with lube oil & product

ESTIMATED VOLUME ≈ 200 yds^3

GENERATING PROCESS Lube oil & product leaked to surrounding soil

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Unknown

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 Dyke Browning REM, CEI
SIGNATURE

NAME DYKE BROWNING
PRINTED

ADDRESS 1220 N. Grimes
Hobbs, NM 88240

DATE 11/27/00

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 N. GRIMES
HOBBS, NM 88240
FAX TO: (505) 391-7954

Receiving Date: 11/10/00
Reporting Date: 11/11/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS

Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C6-C10) (mg/Kg)	DRO* (>C10-C28) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		11/10/00	11/10/00	11/10/00	11/10/00	11/10/00	11/10/00
H5331-1	HOBBS PLANT	<50	305	<0.005	<0.005	<0.005	<0.015
H5331-2	CALMON	<50	6100	<0.005	<0.005	<0.005	<0.015
H5331-3	RATTLESNAKE	<50	1180	<0.005	<0.005	<0.005	<0.015
H5331-4	STRATA	<50	826	<0.005	<0.005	<0.005	<0.015
Quality Control		896	964	0.090	0.093	0.091	0.272
True Value QC		1000	1000	0.100	0.100	0.100	0.300
% Recovery		89.6	96.4	90.1	93.0	91.4	90.6
Relative Percent Difference		11.6	5.0	2.4	1.2	1.2	2.7

METHODS: TPH GRO & DRO - EPASW-846 8015 M; BTEX - SW-846 8260.
*All samples were found to contain large amounts of organics higher than C-28

Burgess J. A. Cooke, Ph. D.

11/11/00
Date

H5331BT.XLS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
P.O. BOX 2734
HOBBS, NM 88241
FAX TO:

Receiving Date: 11/10/00
Reporting Date: 11/17/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS
Sample ID: HOBBS PLANT
Lab Number: H5331-1

Analysis Date: 11/15/00
Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H5331-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.108	108	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.089	89	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.083	83	0.100
Chloroform	6.0	<0.005	<0.005	0.089	89	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.087	87	0.100
Benzene	0.5	0.038	<0.005	0.088	88	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.092	92	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.091	91	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Chlorobenzene	100	<0.005	<0.005	0.094	94	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.104	104	0.100

	% RECOVERY
Dibromofluoromethane	91
Toluene-d8	89
Bromofluorobenzene	98

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

11/17/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
P.O. BOX 2734
HOBBS, NM 88241
FAX TO:

Receiving Date: 11/10/00
Reporting Date: 11/16/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS
Sample ID: HOBBS PLANT
Lab Number: H5331-1

Analysis Date: 11/14/00
Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H5331-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.008	16	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.032	64	0.050
o-Cresol	200	<0.020	<0.005	0.028	56	0.050
m, p-Cresol	200	<0.020	<0.005	0.026	52	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.019	38	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.041	82	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.041	82	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.045	90	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.040	80	0.050
Pentachlorophenol	100	<0.020	<0.005	0.043	86	0.050

	% RECOVERY
Fluorophenol	66
Phenol-d5	52
Nitrobenzene-d5	73
2-Fluorobiphenyl	74
2,4,6-Tribromophenol	85
Terphenyl-d14	88

METHODS: EPA SW-846 8270, 1311, 3510

Burgess J. A. Cooke, Ph. D.

11/16/00
Date

CARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
P.O. BOX 2734
HOBBS, NM 88241
FAX TO:

Receiving Date: 11/10/00
Reporting Date: 11/17/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS
Sample ID: CALMON
Lab Number: H5331-2

Analysis Date: 11/15/00
Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H5331-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.108	108	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.089	89	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.083	83	0.100
Chloroform	6.0	<0.005	<0.005	0.089	89	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.087	87	0.100
Benzene	0.5	0.102	<0.005	0.088	88	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.092	92	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.091	91	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Chlorobenzene	100	<0.005	<0.005	0.094	94	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.104	104	0.100

	% RECOVERY
Dibromofluoromethane	93
Toluene-d8	89
Bromofluorobenzene	88

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

11/17/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
P.O. BOX 2734
HOBBS, NM 88241
FAX TO:

Receiving Date: 11/10/00
Reporting Date: 11/16/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS
Sample ID: CALMON
Lab Number: H5331-2

Analysis Date: 11/14/00
Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H5331-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.008	16	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.032	64	0.050
o-Cresol	200	<0.020	<0.005	0.028	56	0.050
m, p-Cresol	200	<0.020	<0.005	0.026	52	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.019	38	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.041	82	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.041	82	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.045	90	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.040	80	0.050
Pentachlorophenol	100	<0.020	<0.005	0.043	86	0.050

	% RECOVERY
Fluorophenol	35
Phenol-d5	27
Nitrobenzene-d5	76
2-Fluorobiphenyl	68
2,4,6-Tribromophenol	64
Terphenyl-d14	85

METHODS: EPA SW-846 8270, 1311, 3510

Burgess J. A. Cooke, Ph. D.

11/16/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
P.O. BOX 2734
HOBBS, NM 88241
FAX TO:

Receiving Date: 11/10/00
Reporting Date: 11/17/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS
Sample ID: RATTLESNAKE
Lab Number: H5331-3

Analysis Date: 11/15/00
Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H5331-3	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.108	108	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.089	89	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.083	83	0.100
Chloroform	6.0	<0.005	<0.005	0.089	89	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.087	87	0.100
Benzene	0.5	0.029	<0.005	0.088	88	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.092	92	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.091	91	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Chlorobenzene	100	<0.005	<0.005	0.094	94	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.104	104	0.100

	% RECOVERY
Dibromofluoromethane	96
Toluene-d8	89
Bromofluorobenzene	86

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

11/17/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
P.O. BOX 2734
HOBBS, NM 88241
FAX TO:

Receiving Date: 11/10/00
Reporting Date: 11/16/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS
Sample ID: RATTLESNAKE
Lab Number: H5331-3

Analysis Date: 11/14/00
Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H5331-3	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.008	16	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.032	64	0.050
o-Cresol	200	<0.020	<0.005	0.028	56	0.050
m, p-Cresol	200	<0.020	<0.005	0.026	52	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.019	38	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.040	80	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.027	54	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.041	82	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.041	82	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.045	90	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.040	80	0.050
Pentachlorophenol	100	<0.020	<0.005	0.043	86	0.050

	% RECOVERY
Fluorophenol	35
Phenol-d5	27
Nitrobenzene-d5	76
2-Fluorobiphenyl	68
2,4,6-Tribromophenol	64
Terphenyl-d14	85

METHODS: EPA SW-846 8270, 1311, 3510

Burgess J. A. Cooke, Ph. D.

11/16/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
P.O. BOX 2734
HOBBS, NM 88241
FAX TO:

Receiving Date: 11/10/00
Reporting Date: 11/16/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS

Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH/BC

LAB NO.	SAMPLE ID	REACTIVITY Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		11/15/00	11/15/00	11/11/00	11/11/00
H5331-1	HOBBS PLANT	Not reactive	Not reactive	8.07	Nonflammable
H5331-2	CALMON	Not reactive	Not reactive	7.21	Nonflammable
H5331-3	RATTLESNAKE	Not reactive	Not reactive	7.02	Nonflammable
Quality Control		NR	NR	7.04	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	101	NR
Relative Percent Difference		NR	NR	0.1	NR

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

Chemist

11/16/00
Date

H5331RXLS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
P.O. BOX 2734
HOBBS, NM 88241
FAX TO:

Receiving Date: 11/10/00
Reporting Date: 11/17/00
Project Number: NOT GIVEN
Project Name: DIRT PILES
Project Location: VARIOUS

Sampling Date: 11/10/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
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:		11/16/00	11/14/00	11/14/00	11/14/00	11/14/00	11/14/00	11/15/00	11/15/00
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H5331-1	HOBBS PLANT	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H5331-2	CALMON	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
H5331-3	RATTLESNAKE	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
Quality Control		0.195	4.773	23.10	1.034	5.206	0.935	0.0098	0.214
True Value QC		0.200	5.000	25.00	1.000	5.000	1.000	0.0100	0.200
% Recovery		97.5	95.5	92.4	103	104	93.5	98.0	107
Relative Standard Deviation		2.3	0.4	7.5	0.3	3.1	5.2	2.2	2.2

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

11/17/2000
Date

H5331M.XLS

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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____ of____

Company Name: LG&E Natural	**BILL TO**
Project Manager: Dyke	P.O. #:
Address:	Company:
City: State: Zip:	Attn:
Phone #: 391-7797 Fax #: 391-7954	Address:
Project #: Project Owner:	City:
Project Name: Dit Piles	State: Zip:
Project Location: Various	Phone #:
Sampler Name: Dyke	Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TCLP without Pesticides	TPH 8015M	BTEX
H5331-1	Hobbs Plant	C	2			X					X		11/10	4:25p	X	X	X
-2	Calmon	C	2			X					X		"	"	X	X	X
-3	Rattlesnake	C	2			X					X		"	"	X	X	X
-4	Strata	C	1			X					X		"	"		X	X
		G															
		G															

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature]	Date: 11/10/00 Time: 4:25p	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By: (Lab Staff) [signature]	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No	CHECKED BY: (Initials)

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Haliburton Energy Service
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Artesia Yard
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2311 S. 1st Street Artesia, NM 88210	

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:

11-009

Wash rack grit generated by washing of oilfield equipment. I am enclosing a Certificate of Waste status and copy of previous C-138. This material has been] approved in the past. The last package with analytical was on 02-01-00.

Estimated Volume 150 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-20-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 11/21/00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 11/28/00

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

COMPANY / GENERATOR Halliburton Energy Services

ADDRESS 2311 S. First, Artesia, NM

GENERATING SITE Same

COUNTY Eddy STATE NM

TYPE OF WASTE Washrack Sump/Grit

ESTIMATED VOLUME 150 Bbls

GENERATING PROCESS Wash water from washing of oilfield equipment.

REMARKS Test Results on File

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 2613.

AGENT [signature]
SIGNATURE

NAME Scott Nelson
PRINTED

ADDRESS 5801 Lovington Hwy
Hobbs, NM 88240

DATE 11-17-00

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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to appro
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Haliburton Energy Servi
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Artesia Yard
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2311 S. 1st Street Artesia, NM 88210	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from th Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis t PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous b listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

07-002

Wash rack grit generated by washing of oilfield equipment. I am enclosing previous C-138 and Certificate of Waste Status. This material has been approved in the past. The last package with analytical was on 02-01-00.

Estimated Volume 250 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 07-11-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 07-21-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 07-25-00

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
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Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site N.E. Carlbad Compressor Staqti
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key Energy
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

11-008

The waste was generated by rain caught from the environmental bases on the compressor.

I am enclosing a Certificate of Waste Status, copy of previous C-138, copy of previous analytical and chain of custody, and process of knowledge letter. The process has not changed.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-15-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Dinna Williams TITLE: Environmental Engineer Specialist DATE: 11/17/00

DENIED

APPROVED BY: Analysis is more than 2 years old TITLE: _____ DATE: _____

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

COMPANY / GENERATOR L G & E Natural Gas

ADDRESS 921 W. Sanger, Hobbw, NM 88240

GENERATING SITE N.E. Carlsbad Compressor Station

COUNTY _____ STATE NM

TYPE OF WASTE Rain Water

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS Generated by rain water caught from the environmental bases on the compressor.

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 88240

DATE 11-15-00

L G & E Natural Gas
921 W. Sanger
Hobbs, NM 88240

November 14, 2000

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

L G & E requests that the attached analytical data be approved for usage through November, 2001. The process that generates this waste stream has not changed. Thank you for your consideration.

Sincerely,

Ed Sloman

L G & E Natural Gas.
Ed Sloman

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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Submit Orig
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District Of

JUN 1999
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ARTESIA

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 N. E. Carlsbad Compressor Station
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,	New Mexico 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 N. E. Carlsbad Compressor Station (Burton Flats). The waste was generated by rain water caught from the environmental bases on the compressor. Included also, is a Certificate of Waste, Chain of Custody and Letter from LG&E stating that the process has not changed. This material has been approved in the past.

06-002

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: 6-3-99
Waste Management Facility Authorized Agent

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

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 6-23-99

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

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
Attention: Allen Hodge
P. O. Box 1816
Hobbs, NM 88241

October 29, 1997
Receiving Date: 10/16/97
Sample Type: Water
Project No: #1035
Project Location: Barton Flats

Extraction Date: 10/21/97
Analysis Date: 10/27/97
Sampling Date: 10/16/97
Sample Condition: I & C
Sample Received by: BL
Project Name: Non-Exempt Rain/ Wash Water Tank

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T83496 Rain/Wash Water Tank	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	69	*147	31	86
1,4-Dichlorobenzene	7.5	0.05	ND	82	1	43	103
o-Cresol	200.0	0.05	ND	86	5	46	108
m,p-Cresol	200.0	0.05	ND	79	4	46	99
Hexachloroethane	3.0	0.05	ND	67	4	54	84
Nitrobenzene	2.0	0.05	ND	71	1	74	89
Hexachlorobutadiene	0.5	0.05	ND	70	2	57	88
2,4,6-Trichlorophenol	2.0	0.05	ND	90	5	43	113
2,4,5-Trichlorophenol	400.0	0.05	ND	78	0	43	98
2,4-Dinitrotoluene	0.13	0.05	ND	82	4	51	103
2,4-D	10.0	0.05	ND	75	7	18	94
Hexachlorobenzene	0.13	0.05	ND	81	0	63	101
2,4,5-TP	1.0	0.05	ND	73	13	21	91
Pentachlorophenol	100.0	0.05	ND	91	4	50	114

Surrogates	% RECOVERY
2-Fluorophenol	44
Phenol-d6	39
Nitrobenzene-d5	64
2-Fluorobiphenyl	76
2,4,6-Tribromophenol	84
Terphenyl-d14	111

ND - Not Detected

***NOTE; RPD out of limits.**

Methods: EPA SW 846-1311, 8270, 8080.
CHEMIST: RP/HW

Director, Dr. Blair Leftwich

10-29-97
DATE

TRACE ANALYSIS, INC.
A Laboratory for Advanced Environmental Research and Analysis

Barton Flats
(Same as NE Carlsbad

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

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
Attention: Allen Hodge
P. O. Box 1818
Hobbs, NM 88241

October 29, 1997
Receiving Date: 10/16/97
Sample Type: Water
Project No: #1035
Project Location: Berton Flats

Extraction Date: 10/16/97
Analysis Date: 10/16/97
Sampling Date: 10/16/97
Sample Condition: I & C
Sample Received by: BL
Project Name: Non-Exempt Rain/ Wash Water Tank

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T83496 Rain/Wash Water Tank	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	0.107	1	89	107
1,1-Dichloroethene	0.70	0.05	ND	0.101	2	96	101
Methyl Ethyl Ketone	200.0	0.5	ND	0.087	8	95	87
Chloroform	6.00	0.05	ND	0.102	1	100	102
1,2-Dichloroethane	0.50	0.05	ND	0.101	2	102	101
Benzene	0.50	0.05	ND	0.102	1	100	102
Carbon Tetrachloride	0.50	0.05	ND	0.119	2	100	119
Trichloroethene	0.50	0.05	ND	0.098	2	104	98
Tetrachloroethene	0.70	0.05	ND	0.100	2	106	100
Chlorobenzene	100.00	0.05	ND	0.105	1	103	105
1,4-Dichlorobenzene	7.50	0.05	ND	0.102	1	100	102

SURROGATES	% Recovery
Dibromofluoromethane	100
Toluene-d8	97
4-Bromofluorobenzene	96

ND = Not Detected

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

Director, Dr. Blair Leftwich

10-29-97
DATE

TRACEANALYSIS, INC.
A Laboratory for Advanced Environmental Research and Analysis

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

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
Attention: Allen Hodge
P. O. Box 1816
Hobbs, NM 88241

October 29, 1997
Receiving Date: 10/16/97
Sample Type: Water
Project No: #1035
Project Location: Berton Flats

Extraction Date: 10/21/97
Analysis Date: 10/21/97
Sampling Date: 10/16/97
Sample Condition: I & C
Sample Received by: BL
Proj. Name: Non-Exempt Rain/ Wash Water Tank

TCLP METALS (mg/L)

		As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T83498	Rain/Wash Water Tank	<0.10	<0.10	<0.02	<0.05	<0.10	<0.01	<0.20	<0.01
QC	Quality Control	5.1	5.0	4.9	4.9	5.0	0.98	5.1	0.0475
Reporting Limit		0.10	0.10	0.02	0.05	0.10	0.01	0.20	0.01
RPD		14	1	1	0	1	5	1	2
% Extraction Accuracy		*(LCS) 85	109	96	86	97	97	109	113
% Instrument Accuracy		102	100	98	98	99	98	102	95

***NOTE: LCS used for Extraction Accuracy due to matrix effects.**

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: HC
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 1.0 mg/L Ag; 0.05 mg/L Hg.
TCLP METALS QC: 5.0 mg/L As, Se, Cd, Cr, Pb, Ba; 1.0 mg/L Ag; 0.05 mg/L Hg.

Director, Dr. Blair Leftwich

10-29-97
Date

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

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
Attention: Allen Hodge
P. O. Box 1816
Hobbs, NM 88241

October 29, 1997
Receiving Date: 10/16/97
Sample Type: Water
Project No: #1035
Project Location: Berton Flats

Extraction Date: 10/27/97
Analysis Date: 10/27/97
Sampling Date: 10/16/97
Sample Condition: I & C
Sample Received by: BL
Proj. Name: Non-Exempt Rain/ Wash Water Tank

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
T83496	Rain/Wash Water Tank	Non-reactive	<10	<2.5	Non-corrosive 0.85	6.8	>150
QC	Quality Control	—	—	—	—	7.0	—
RPD		0	0	0	0	0	0
% Extraction Accuracy		—	—	—	—	—	—
% Instrument Accuracy		—	—	—	—	100	—

METHODS: EPA SW 846-2.1.3, 2.1.2, 1010.
CHEMIST: JG

Director, Dr. Blair Leftwich

10-29-97
DATE

83496

Page____of____

JAN 06'98 8:19 No.001 P.07

ID:

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 288

Company Name: WESTERN ENVIRONMENTAL CONSULTANTS (WEC) Phone #: 505-392-5021

Address: P.O. BOX 1816 Hobbs, NM 88241 Fax #: 505-392-9376

Contact Person: ALLEN Hodge

Invoice to: (If different from above) LG&E NATURAL / N.E. CARLSBAD COMPRESSOR STA.

Project #: # 1035 Project Name: NON-EXEMPT RAIN/WASH WATER TANK

Project Location: BERTON FLATS Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME
83496	RAIN/WASH WATER TANK	2	40ml	X						X		10-16-97	3:05
		1	QT	X						X		10-16-97	3:05

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8020/602	BTEX 8020/602	TPH	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH					Turn Around Time if different from standard	Hold
83496						X	X	X	X											
						X	X	X	X											

Relinquished by: Date: 10-16-97 Time: 3:15 PM
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: 10-16-97 Time: 3:15 PM

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4 °C
Log-in Review

REMARKS:
10-30
289 AQ

Carrier #

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

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Antelope Ridge
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key Energy
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

11-007

The waste was generated by rain and wash down water at plant.

I am enclosing a Certificate of Waste Status, copy of previous C-138, copy of previous analytical and chain of custody, and process of knowledge letter. The process has not changed.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-15-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 11/17/00

APPROVED BY: Martyn J. Kirk TITLE: Environmental Geologist DATE: 11/28/00

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

COMPANY / GENERATOR L G & E Natural Gas

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Antelope Ridge Plant

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS 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 88240

DATE 11-15-00

L G & E Natural Gas
921 W. Sanger
Hobbs, NM 88240

November 14, 2000

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

L G & E requests that the attached analytical data be approved for usage through November, 2001. The process that generates this waste stream has not changed. Thank you for your consideration.

Sincerely,

Ed Sloman

L G & E Natural Gas.
Ed Sloman

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-
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District C

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 Antelope Ridge
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 Antelope Ridge Plant. The was 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.

04-025

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 6-18-99
Waste Management Facility Authorized Agent

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

(This space for State Use)

APPROVED BY: Dinna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 6-23-99

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: H4035-5
Sample ID: ANTELOPE RIDGE 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 H4035-5	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	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	0.062	<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	32
Phenol-d5	31
Nitrobenzene-d5	67
2-Fluorobiphenyl	68
2,4,6-Tribromophenol	76
Terphenyl-d14	118

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

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: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-5
Sample ID: ANTELOPE RIDGE 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 H4035-5	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	0.057	<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	0.134	<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	0.016	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	77
Toluene-d8	89
Bromofluorobenzene	94

METHODS: EPA SW 846-8260, 1311
* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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: 02/26/99
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 PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
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

2/26/99
Date

H4035M.XLS

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: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & 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 PLANT	Not reactive	Not reactive	8.74	>140
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*

Burgett A. Cole
Chemist

2/25/99
Date

H4035R.XLS

CARDINAL 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

Company Name: SES, Inc
Project Manager: Dyke Browning
Address:
City: State: Zip:
Phone #:
Fax #:
Project #: Project Owner:
Project Name: LC & E Natural
Project Location: Various

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Complete TCP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Complete TCP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~[illegible] Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature] Date: 2/22/99 Time: 3:31p
Received By:
Relinquished By: [signature] Date: 2/22/99 Time: 3:31
Received By: (Lab Staff) [signature]
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS: All samples taken with Collwasa From top entry of tank

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

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Calmon Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key Energy
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

11-006

The waste was generated by rain and wash down water at plant.

I am enclosing a Certificate of Waste Status, copy of previous C-138, copy of previous analytical and chain of custody, and process of knowledge letter. The process has not changed.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-15-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 11/17/00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 11/28/00

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

COMPANY / GENERATOR L G & E Natural Gas

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Calmon Station

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS From rain 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 88240

DATE 11-15-00

L G & E Natural Gas
921 W. Sanger
Hobbs, NM 88240

November 14, 2000

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

L G & E requests that the attached analytical data be approved for usage through November, 2001. The process that generates this waste stream has not changed. Thank you for your consideration.

Sincerely,

Ed Sloman

L G & E Natural Gas.
Ed Sloman

P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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to appro
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Calmon Stati
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 Calmon Station. 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.

04-020

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE 6-18-99
Waste Management Facility Authorized Agent

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

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyne J. Kieb TITLE: Environmental Geologist DATE: 6-23-99

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: H4035-4
Sample ID: CALMON STATION

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 H4035-4	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	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<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	26
Nitrobenzene-d5	64
2-Fluorobiphenyl	54
2,4,6-Tribromophenol	63
Terphenyl-d14	87

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

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: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-4
Sample ID: CALMON STATION

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* H4035-4	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	<0.050	<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	0.448	<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	0.037	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	92
Toluene-d8	90
Bromofluorobenzene	112

METHODS: EPA SW 846-8260, 1311
* Matrix interference (foaming) observed.
** Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

2/23/99
Date

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: 02/26/99
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 PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
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

2/26/99
Date

H4035M.XLS

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: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & 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 PLANT	Not reactive	Not reactive	8.74	>140
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*

Burgett A. Cooke
Chemist

2/25/99
Date

H4035R.XLS

CARDINAL 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

Company Name: SES, Inc
Project Manager: Dyke Browning
Address:
City: State: Zip:
Phone #:
Fax #:
Project #: Project Owner:
Project Name: LG&E Natural
Project Location: Various

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Complete TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	Complete TCLP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~[illegible]~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:15p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature] Date: 2/22/99 Time: 3:31p
Received By:
Relinquished By: [signature] Date: 2/22/99 Time: 3:31
Received By: (Lab Staff) Amy Hill
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS: All samples taken with Coliwasa From top entry of tank

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

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Pure Gold
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key Energy
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

11-005

The waste was generated by rain and wash down water at plant.

I am enclosing a Certificate of Waste Status, copy of previous C-138, copy of previous analytical and chain of custody, and process of knowledge letter. The process has not changed.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-15-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 11/17/00

APPROVED BY: Martyn J. Kilpatrick TITLE: Environmental Geologist DATE: 11/28/00

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

COMPANY / GENERATOR L G & E Natural Gas

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Pure Gold

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS 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 88240

DATE 11-15-00

L G & E Natural Gas
921 W. Sanger
Hobbs, NM 88240

November 14, 2000

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

L G & E requests that the attached analytical data be approved for usage through November, 2001. The process that generates this waste stream has not changed. Thank you for your consideration.

Sincerely,

Ed Sloman

L G & E Natural Gas.
Ed Sloman

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-
Originated 8/

Submit Orig
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to appropr
District O

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 Pure Gold
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 Pure Gold. 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.

04-030

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 6-18-99
Waste Management Facility Authorized Agent

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

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 6-23-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/26/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN

Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/26/99	03/26/99	03/24/99	03/24/99
H4075-1	PURE GOLD	Not reactive	Not reactive	6.37	>140
	NON EXEMPT				
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	0.8	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

3/26/99
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/25/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN

Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
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:		03/23/99	03/19/99	03/19/99	03/19/99	03/19/99	03/19/99	03/25/99	03/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4075-1	PURE GOLD	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	NON EXEMPT								
Quality Control		0.183	1.204	19.44	1.024	5.151	4.985	0.0095	0.053
True Value QC		0.200	1.000	20.00	1.000	5.000	5.000	0.0100	0.050
% Recovery		92	120	97	102	103	99	95	106
Relative Standard Deviation		2.08	0.33	1.62	1.08	2.9	1.29	2.4	4.31
METHODS: EPA 1311, 600/4-91/		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

3/25/99
Date

H4075-1.XLS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/22/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN
Lab Number: H4075-1
Sample ID: PURE GOLD NON-EXEMPT

Analysis Date: 03/19/99
Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4075-1	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	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.005	<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	MI(14)
Phenol-d5	26
Nitrobenzene-d5	66
2-Fluorobiphenyl	62
2,4,6-Tribromophenol	49
Terphenyl-d14	106

METHODS: EPA SW 846-8270, 1311
MI=Matrix Interference

Burgess J. A. Cooke, Ph. D.

3/22/99
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
LG&E NATURAL GAS
921 W. SANGER
HOBBS, NM 88240

Receiving Date: 03/19/99
Reporting Date: 03/22/99
Project Number: NOT GIVEN
Project Name: PURE GOLD
Project Location: NOT GIVEN
Lab Number: H4075-1
Sample ID: PURE GOLD NON-EXEMPT

Analysis Date: 03/19/99
Sampling Date: 03/19/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4075-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.025	<0.005	0.117	117	0.100
1,1-Dichloroethylene	0.7	<0.025	<0.005	0.115	115	0.100
Methyl Ethyl Ketone	200	<0.250	<0.050	0.084	84	0.100
Chloroform	6.0	<0.025	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.025	<0.005	0.104	104	0.100
Benzene	0.5	0.354	<0.005	0.103	103	0.100
Carbon Tetrachloride	0.5	<0.025	<0.005	0.117	117	0.100
Trichloroethylene	0.5	<0.025	<0.005	0.105	105	0.100
Tetrachloroethylene	0.7	<0.025	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.025	<0.005	0.102	102	0.100
1,4-Dichlorobenzene	7.5	<0.025	<0.005	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	77
Toluene-d8	98
Bromofluorobenzene	95

METHODS: EPA SW 846-8260, 1311
NOTE: Matrix interference noted; dilution required.

Burgess J. A. Cooke, Ph. D.

3/22/99
Date

Pure Gold

CARDINAL 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

APR 22'99 13:11 No.013 P.06

Company Name: LG+E
Project Manager:
Address: 921 W Sanger
City: Hobbs State: NM Zip: 88240
Phone #: 393-2153
Fax #:
Project #: Project Owner:
Project Name: Pure Gold
Project Location:

BILL TO PO #:
Company: LG+E
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: TCLP METALS, VOL, SV

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TCLP METALS, VOL, SV
	Pure Gold														
H4075-1	NON-EXEMPT				✓								3/19/99	11:00	✓

ID:

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: Date: Time:
Received By:

Relinquished By: Date: 3/19/99 Time: 8:10
Received By: (Lab Staff) Barry W. Lab Cooke

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result ☐ Yes ☐ No
REMARKS:

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Bootleg Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key Energy
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

11-004

The waste was generated by rain and wash down water at plant.

I am enclosing a Certificate of Waste Status, copy of previous C-138, copy of previous analytical and chain of custody, and process of knowledge letter. The process has not changed.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-15-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 11/17/00

APPROVED BY: Martyne J Kieling TITLE: Environmental Geologist DATE: 11/28/00

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

COMPANY / GENERATOR L G & E Natural Gas

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Bootleg Station

COUNTY Lea STATE NM

TYPE OF WASTE Waste water

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS 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 88240

DATE 11-15-00

L G & E Natural Gas
921 W. Sanger
Hobbs, NM 88240

November 14, 2000

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

L G & E requests that the attached analytical data be approved for usage through November, 2001. The process that generates this waste stream has not changed. Thank you for your consideration.

Sincerely,

Ed Sloman

L G & E Natural Gas.
Ed Sloman

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 Div on
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-
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District (

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Bootleg Stat
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 Bootleg Station. 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.

04-015

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 6-18-99
Waste Management Facility Authorized Agent

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

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 6-23-99

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: H4035-3
Sample ID: BOOTLEG STATION

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 H4035-3	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	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<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	22
Phenol-d5	24
Nitrobenzene-d5	70
2-Fluorobiphenyl	66
2,4,6-Tribromophenol	70
Terphenyl-d14	120

METHODS: EPA SW 846-8270, 1311

Burgess J.A. Cooke, Ph. D.

2/24/99
Date

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: 03/15/99
Reporting Date: 03/17/99
Project Number: NOT GIVEN
Project Name: NON-EXEMPT WATER
Project Location: BOOTLEG STATION
Lab Number: H4035-3
Sample ID: BOOTLEG STATION

Analysis Date: 03/16/99
Sampling Date: 03/15/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4035-3	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	<0.050	<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	<0.005	<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	0.015	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	93
Toluene-d8	105
Bromofluorobenzene	102

METHODS: EPA SW 846-8260, 1311
* Detected at comparable levels in sample & method blank.

Burgess J. A. Cooke, Ph. D.

3/17/99
Date

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: 02/26/99
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 PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
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

2/26/99
Date

H4035M.XLS

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: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & 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 PLANT	Not reactive	Not reactive	8.74	>140
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*

Burgett A. Cooke
Chemist

2/25/99
Date

H4035R.XLS

CARDINAL 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

Company Name: SES, Inc
Project Manager: Dyke Browning
Address:
City: State: Zip:
Phone #:
Fax #:
Project #: Project Owner:
Project Name: LG&E Natural
Project Location: Various

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Complete TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Complete TCLP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Apex Gold Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DATB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

Sampler Relinquished: Date: 2/22/99 Time: 3:30p
Relinquished By: Date: 2/22/99 Time: 3:30
Received By:
Received By: (Lab Staff) Amy Hill
Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS: All samples taken with Coliwasa From top entry of tank

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

CARDINAL 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____ of____

Company Name: SES Inc.	
Project Manager: Dyke	BILL TO PO #:
Address:	Company:
City: State: Zip:	Attn:
Phone #: 397-0510	Address:
Fax #:	City:
Project #: Project Owner:	State: Zip:
Project Name: Non-Exempt Water	Phone #:
Project Location: Bootleg Station	Fax #:

ANALYSIS REQUEST: TCLP Volatiles only.

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TCLP Volatiles only
H4035-3			4		X						X		3/1/99	2:00p	✓

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 3/1/99 Time: 2:06pm	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #: Fax Result: ☐ Yes ☐ No REMARKS:
Relinquished By:	Date: Time:	Received By: (Lab Staff) Amy Hill	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No	CHECKED BY: (Initials)

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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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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Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hobbs Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key Energy
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

11-003

The waste was generated by rain caught from the plant.

I am enclosing a Certificate of Waste Status, copy of previous C-138, copy of previous analytical and chain of custody, and process of knowledge letter. The process has not changed.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-15-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 11/17/00

DENIED

APPROVED BY: Analysis is More than 2 years old TITLE: _____ DATE: _____

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

COMPANY / GENERATOR L G & E Natural Gas

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Hobbs Plant

COUNTY Lea STATE NM

TYPE OF WASTE Waste Water

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS This waste water was generated by rain caught from the 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 88240

DATE 11-15-00

L G & E Natural Gas
921 W. Sanger
Hobbs, NM 88240

November 14, 2000

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

L G & E requests that the attached analytical data be approved for usage through November, 2001. The process that generates this waste stream has not changed. Thank you for your consideration.

Sincerely,

Ed Sloman

L G & E Natural Gas.
Ed Sloman

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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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, NM	8. State NM
7. Location of Material (Street Address or ULSTR) 921 Sanger Hobbs	

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 L G & E Natural Hobbs Plant. The waste was generated by rain caught from the plant. I have included a certificate of waste and a chain of custody. This material has been approved in the past.

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

SIGNATURE: K Marsh TITLE: Manager DATE: _____
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Ken Marsh TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: Dana Williams TITLE: Environmental Eng. DATE: 2-12-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 2-4-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
ATTN: ALLEN HODGE
P.O. BOX 1818
HOBBS, NM 88241
FAX TO:

Receiving Date: 01/28/97
Reporting Date: 01/29/97
Project Number: NOT GIVEN
Project Name: LG & E
Project Location: HOBBS PLANT, OPEN TOP TANK
Lab Number: H2769-1
Sample ID: COMPOSITE, OPEN TOP TANK

Analysis Date: 01/29/97
Sampling Date: 01/28/97
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H2769-1	Method Blank	QC	%IA	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.119	119	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.095	95	0.100
Methyl Ethyl Ketone	200	<0.005	<0.005	0.086	86	0.100
Chloroform	6.0	<0.005	<0.005	0.106	106	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.113	113	0.100
Benzene	0.5	0.036	<0.005	0.110	110	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.113	113	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.107	107	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.109	109	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	87
Toluene-d8	88
Bromofluorobenzene	88

METHODS: EPA SW 846-8260

Burgess J. A. Cooke, Ph. D.

1/29/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
ATTN: ALLEN HODGE
P.O. BOX 1816
HOBBS, NM 88241
FAX TO:

Receiving Date: 01/28/97
Reporting Date: 01/31/97
Project Number: NOT GIVEN
Project Name: LG & E
Project Location: HOBBS PLANT, OPEN TOP TANK
Lab Number: H2769-1
Sample ID: COMPOSITE, OPEN TOP TANK

Analysis Date: 01/30/97
Sampling Date: 01/28/97
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H2769-1	Method Blank	QC	%IA	True Value QC
Pyridine	5.00	<0.005	<0.005	0.048	96	0.050
1,4-Dichlorobenzene	7.50	<0.005	<0.005	0.051	102	0.050
o-Cresol	200	0.023	<0.005	0.047	94	0.050
m, p-Cresol	200	0.015	<0.005	0.054	108	0.050
Hexachloroethane	3.00	<0.005	<0.005	0.050	100	0.050
Nitrobenzene	2.00	<0.005	<0.005	0.048	96	0.050
Hexachloro-1,3-butadiene	0.500	<0.005	<0.005	0.051	102	0.050
2,4,6-Trichlorophenol	2.00	<0.005	<0.005	0.050	100	0.050
2,4,5-Trichlorophenol	400	<0.005	<0.005	0.049	98	0.050
2,4-Dinitrotoluene	0.130	<0.005	<0.005	0.045	90	0.050
Hexachlorobenzene	0.130	<0.005	<0.005	0.051	102	0.050
Pentachlorophenol	100	<0.005	<0.005	0.047	94	0.050

	% RECOVERY
Fluorophenol	28
Phenol-d5	27
Nitrobenzene-d5	53
2-Fluorobiphenyl	65
2,4,6-Tribromophenol	44
Terphenyl-d14	87

METHODS: EPA SW 846-8270

Burgess J. A. Cooke, Ph. D.

1/31/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 116 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
ATTN: ALLEN HODGE
P.O. BOX 1816
HOBBS, NM 88241
FAX TO:

Receiving Date: 01/28/97
Reporting Date: 02/17/97
Project Number: NOT GIVEN
Project Name: LG & E
Project Location: HOBBS PLANT, OPEN TOP TANK

Sampling Date: 01/28/97
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: WL/GP

TCLP METALS

LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		2/7/97	2/12/97	2/15/97	2/12/97	2/10/97	2/12/97	2/14/97	2/7/97
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H2769-1	COMPOSITE, OPEN TOP TANK	<0.02	<0.1	0.41	<0.1	<0.5	<1	<0.02	<0.02
Quality Control		10.3	0.495	10.01	0.541	0.916	0.86	0.101	9.9
True Value QC		10.0	0.500	10.00	0.500	1.000	1.00	0.100	10.0
% Recovery		103	99.0	100	108	91.6	86.0	99.0	99.0
Relative Percent Difference		14	0.4	2.4	0.1	1.1	5.6	14	10
METHODS: EPA 1311, 600/4-78/02		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.1

Chemist

02/17/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240
PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

ANALYTICAL RESULTS FOR
WESTERN ENVIRONMENTAL CONSULTANTS
ATTN: ALLEN HODGE
P.O. BOX 1816
HOBBS, NM 88241
FAX TO:

Receiving Date: 01/28/97
Reporting Date: 02/10/97
Project Number: NOT GIVEN
Project Name: LG & E
Project Location: HOBBS PLANT, OPEN TOP TANK

Sampling Date: 01/28/97
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/GP

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		2/8/97	2/8/97	1/28/97	2/1/97
H2769-1	COMPOSITE, OPEN TOP TANK	<50	<50	8.68	>140
Quality Control		NR	0.105	7.03	NR
True Value QC		NR	0.100	7.00	NR
% Recovery		NR	105	100	NR
Relative Percent Difference		NR	4.8	0.03	NR

METHOD: EPA SW 846-7.3, 7.2, 1010

Chemist

02/10/97
Date

Environmental Analytical Services

CARDINAL LABORATORIES

118 S. Commercial Ave.
Farmington, NM 87401
505-326-4669
FAX 505-326-4535

101 E. Marland
Hobbs, NM 88240
505-393-2326
FAX 505-393-2476

H2769-1

Chain of Custody Record

Project I.D. LG+E
Project Location Hobbs PLANT OPEN TOP TANK
Sampled By A. Hodge
Client Name WESTERN ENVIRONMENTAL
Address P.O. BOX 1816 Hobbs NM 88241
Telephone 505-392-5021 FAX 505-397-2597

Sample Number	Date	Time	Composite	Grab	Sample Location	Number of Containers	TCLP VOL.	TCLP SEMI VOL	TCLP METALS	RCI				Remarks (Type sample, preservation, etc.)
1	1/28/97	300	X		COMPOSITE FROM OPEN TOP TANK	4	X	X	X	X				SAMPLE TYPE Liquid
														PRESERVATION ICE
														SAMPLE WAS TAKEN FROM TOP TO BOTTOM WITH A COLIWASA

Released by: (Signature)	Date	Time	Received by: (Signature)
[signature]	1/28/97	5:20	[signature]
Released by: (Signature)	Date	Time	Received by: (Signature)

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
NOV 28 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & E
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Apex Station
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Key Energy
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 921 W. Sanger, Hobbs	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:

11-002

The waste was generated by rain water and/or washdown water.

I am enclosing a Certificate of Waste Status, copy of previous C-138, copy of previous analytical and chain of custody, and process of knowledge letter. The process has not changed.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-15-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 11/17/00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 11/28/00

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

COMPANY / GENERATOR L G & E Natural Gas

ADDRESS 921 W. Sanger, Hobbs, NM 88240

GENERATING SITE Apex Station

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS 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 88240

DATE 11-15-00

L G & E Natural Gas
921 W. Sanger
Hobbs, NM 88240

November 14, 2000

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

L G & E requests that the attached analytical data be approved for usage through November, 2001. The process that generates this waste stream has not changed. Thank you for your consideration.

Sincerely,

Ed Sloman

L G & E Natural Gas.
Ed Sloman

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

Submit O
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to appro
District (

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator LG&E
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Apex Station
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 Apex Station. The waste was generated by rain water and/or washdown water. Included is a Certificate of Wasteand a Chain of Custody. This material has been approved in the past.

04-010

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 6-18-99
Waste Management Facility Authorized Agent

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

(This space for State Use)

APPROVED BY: Donna L. Williams TITLE: Environmental Engineer DATE: 6-21-99

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 6-23-99

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: H4035-2
Sample ID: APEX STATION

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 H4035-2	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	<0.050	<0.005	0.038	76	0.050
m, p-Cresol	200	<0.050	<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	46
Phenol-d5	19
Nitrobenzene-d5	67
2-Fluorobiphenyl	61
2,4,6-Tribromophenol	48
Terphenyl-d14	92

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

2/24/99
Date

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: 02/23/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS
Lab Number: H4035-2
Sample ID: APEX STATION

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 H4035-2	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	0.211	<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	0.059	<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	0.008	0.015	0.113	113	0.100

	% RECOVERY
Dibromofluoromethane	80
Toluene-d8	97
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

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: 02/26/99
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 PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
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

2/26/99
Date

H4035M.XLS

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: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY 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 PLANT	Not reactive	Not reactive	8.74	>140
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*

Burgett A. Cooke
Chemist

2/25/99
Date

H4035R.XLS

CARDINAL 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

Company Name: SES, Inc
Project Manager: Dyke Browning
Address:
City: State: Zip:
Phone #:
Fax #:
Project #: Project Owner:
Project Name: LG&E Natural
Project Location: Various

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Complete TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	Complete TCLP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Bootleg Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DAB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature] Date: 2/22/99 Time: 3:31 p
Relinquished By: [signature] Date: 2/22/99 Time: 3:31
Received By:
Received By: (Lab Staff) [signature]
Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS: All samples taken with Coliwasa From top entry of tank

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

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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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 New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley, 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:

11-001

Wash rack sludge. Washing dirt and mud off of servicing equipment.

I am enclosing Certificate of Waste Status nand copy of previous C-138.
This material has been approved in the past.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 11-10-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 11/15/00

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 11/17/00

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

COMPANY / GENERATOR BJ Services

ADDRESS 2401 Sivley, Artesia, NM

GENERATING SITE Artesia Facility

COUNTY Eddy STATE NM

TYPE OF WASTE Wash rack sludge

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS Washing dirt & mud off of servicing equipment.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

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 2613.

AGENT Perry Britton
SIGNATURE

NAME Perry Britton
PRINTED

ADDRESS 2401 Sivley

Artesia, NM 88210

DATE 11-10-00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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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 New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley, 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 th Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis t PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous b 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

Wash rack sludge. Washing dirt and mud off of servicing equipment.

I am enclosing Certificate of Waste Status and previous C-138.
This material has been approved in the past.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-03-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 8-25-00

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

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Oil Conservation Division
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Dowell Schlumberger
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Artesia Facility
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Waste Management
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 507 E. Richey, 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

This material was generated by washing trucks and oilfield equipment.

This material has been approved in the past. I am enclosing a Certificate of Waste status and copy of previous C-138.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-02-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 10-06-00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 10-11-00

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

COMPANY / GENERATOR: Dowell Schlumberger

ADDRESS 507 E. Richey, Artesia, NM

GENERATING SITE Artesia Facility

COUNTY Eddy STATE NM

TYPE OF WASTE Truck wash bay

ESTIMATED VOLUME 20 yards

GENERATING PROCESS Generated by washing trucks and oilfield equipment.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Waste Management

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 Darwin Thompson
SIGNATURE

NAME Darwin Thompson
PRINTED

ADDRESS 1105 W. Bender

Hobbs, NM 88240

DATE 10-05-00

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

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator DOWELL SCHLUMBERGER
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site ARTESIA FACILITY
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter Waste Management
3. Address of Facility Operator P. O. BOX 388, HOBBS,	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 507 E. Richey 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:

03-003

THE FOLLOWING ANALYTICAL IS FROM THE DOWELL SCHLUMBERGER ARTESIA FACILITY.

THE MATERIAL WAS GENERATED BY WASHING TRUCKS AND OILFIELD EQUIPMENT.
THIS MATERIAL HAS BEEN APPROVED IN THE PAST AND I HAVE ALSO INCLUDED
A CERTIFICATE OF WASTE AND A CHAIN OF CUSTODY.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 3-29-00
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: 4-13-00

APPROVED BY: Martyn J. Parker TITLE: Environmental Geologist DATE: 4-13-00

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

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Marathon Oil Company
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Midland, TX
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Indian Basin Gas Plant	

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:

10-005

Cooling Tower Sludge is from the cleaning out of the bottom of the cooling tower.

I am enclosing analytical data, Chain of Custody, E-mail approval, and Certificate of Waste Status.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 10-02-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 10-06-00

APPROVED BY: Martyn J. Kleg TITLE: Environmental Geologist DATE: 10-11-00

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

COMPANY / GENERATOR Marathon Oil Company

ADDRESS P.O. Box 552, Midland, TX 79702-0552

GENERATING SITE Indian Basin Gas Plant

COUNTY Midland STATE TX

TYPE OF WASTE Cooling Tower Sludge

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS Sludge is from the cleaning out of the bottom of the cooling tower.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Unknown

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 M. Pal Peacock
SIGNATURE

NAME Paul Peacock
PRINTED

ADDRESS P.O. Box 552

Midland, TX 79702-0552

DATE 10-05-00

From: "Price, Wayne" <WPrice@state.nm.us>
To: 'M P Peacock' <mppeacock@marathonoil.com>
Date: 10/3/00 12:05pm
Subject: RE: Cooling tower sludge disposal -Reply

Approved using the C-138 process.

> ---------
> From: M P Peacock[SMTP:mppeacock@marathonoil.com]
> Sent: Monday, October 02, 2000 5:06 PM
> To: Price, Wayne
> Subject: RE: Cooling tower sludge disposal -Reply
>
> Wayne,
>
> Marathon requests approval to ship the cooling tower sludge from the
> Indian Basin Gas Plant to Controlled Recovery, Inc. for disposal in stead
> of Marathon's on-site landfarm. If you have any questions or need any
> additional information, then please advise.
>
>
> M. Paul Peacock
> Advanced Environmental & Safety Engineer
>
> Marathon Oil Company
> P. O. Box 552
> Midland, TX 79702
>
> Ph: 915/687-8312
> Fax: 915/687-8305
> E-mail: mppeacock@marathonoil.com
>
> >>> "Price, Wayne" <WPrice@state.nm.us> 09/27/00 04:43pm >>>
> Dear Mr. Johnson:
>
> Your request to dispose of the cooling tower basin solid waste material
> into
> the on-site landfarm is hereby approved with the following conditions:
>
> 1. Any chemical constituent found in the cooling tower sludge that
> exceeds the NM WQCC standards as defined in 20 NMAC 6.2.3103 will be
> incorporated into the plants Stormwater Testing Program and
> Landfarm
> Vadose Zone Monitoring Program.
>
> 2. This approval is good for a one-time application to the on-site
> landfarm for non aqueous, non-hazardous, non-exempt/non-hydrocarbon waste
> generated from the Plant Cooling Tower. This approval will
> expire December 15, 2000.
>
> 3. Marathon will submit a revised discharge plan for OCD Approval
> reflecting the above changes by December 15, 2000.
>
> Please be advised that NMOCD approval of this plan does not relieve
> Marathon
> of liability should their operations pose a threat to ground water,
> surface
> water, human health or the environment. In addition, NMOCD approval does
> not relieve Marathon of responsibility for compliance with any other
> federal, state, or local laws and/or regulations.
>
> > ---------

> > From: Price, Wayne
> > Sent: Tuesday, September 26, 2000 5:04 PM
> > To: 'Troy R Johnson'
> > Subject: RE: Cooling tower sludge disposal
> >
> > Dear Mr. Johnson:
> >
> > After reviewing the analytical I notice there were some heavy metals
> that
> > exceed the groundwater standards. The purpose of the landfarm is to
> > bio-remediate hydrocarbons. Would this action make the landfarm a
> > landfill? Please call me so we can discuss this issue.
> >
> > ---
> > From: Troy R Johnson[SMTP:TRJohnson@MarathonOil.com]
> > Sent: Friday, September 22, 2000 12:41 PM
> > To: Price, Wayne
> > Cc: TRJohnson@MarathonOil.com
> > Subject: Cooling tower sludge disposal
> >
> > <<File: T1.JPG>><<File: T2.JPG>><<File: T3.JPG>><<File:
> > T4.JPG>><<File: T5.JPG>><<File: T6.JPG>><<File: T7.JPG>>
> > Wayne,
> >
> > Attached are the TCLP and Total metals analysis on the cooling tower
> > sludge at the Indian Basin Gas Plant. As you requested, we included a
> > total metals in addition to the TCLP. As we have done in previous
> years,
> > we would like permission to mix the sludge with soil in the landfarm.
> > Cleaning the cooling tower is a rare event, occurring about every 5
> years.
> >
> > Call me at (915)687-8302 if you have any questions or comments.
> >
> > Troy Johnson
> > Marathon Oil Company
> >
> >
>

CC: "Kieling, Martyne" <MKieling@state.nm.us>, "Gum, T...

TRACEANALYSIS, 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
MARATHON OIL COMPANY
Attention: Troy Johnson
P. O. Box 552
Midland, TX 79701

eptember 18, 2000
eceiving Date: 08/19/2000
ample Type: Sludge
roject No: NA
roject Location: Indian Basin Gas Plant

Sampling Date: 08/16/2000
Sample Condition: Intact & Cool
Sample Received by: MS
Project Name: IB Cooling Tower

TOTAL METALS (mg/kg)

A#	Field Code	As	Ba	Cd	Cr	Pb	Se	Ag	Hg
151761	Cooling Tower Sludge	29	133	<2.0	77	<5.0	<5.0	<2.0	0.19
CV		2.53	5.03	0.51	1.00	2.49	2.58	0.50	0.00478
CV		2.48	4.88	0.49	0.97	2.41	2.53	0.48	0.00512
eporting Limit		5.0	5.0	2.0	5.0	5.0	5.0	2.0	0.19
PD		1	1	0	0	1	0	0	0
Extraction Accuracy		94	101	95	100	96	80	90	96
Instrument Accuracy		99	98	98	97	96	101	96	96
REP DATE		09/15/2000	09/15/2000	09/15/2000	09/15/2000	09/15/2000	09/15/2000	09/15/2000	09/14/2000
NALYSIS DATE		09/15/2000	09/15/2000	09/15/2000	09/15/2000	09/15/2000	09/15/2000	09/15/2000	09/15/2000

HEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: MS
ETHODS: EPA SW 846-3050B, 6010B, 7471A.
OTAL METALS SPIKE: 100 mg/kg As, Pb, Se; 200 mg/kg Ba; 20 mg/kg Cd, Ag; 40 mg/kg Cr; 2.5 mg/kg Hg.
OTAL METALS CV: 2.5 mg/L As, Pb, Se; 5.0 mg/L Ba; 0.50 mg/L Cd, Ag; 1.0 mg/L Cr; 0.005 mg/L Hg.

BL 9-18-00

Director, Dr. Blair Leftwich Date

TRACEANALYSIS, 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
MARATHON OIL CO.
Attention: Troy Johnson
P. O. Box 552
Midland, Texas 79702

August 31, 2000
Receiving Date: 08/16/00
Sample Type: Sludge
Project #: N/A
Project Location: Indian Basin Gas Plant

Sampling Date: 08/21/00
Sample Condition: I & C
Sample Received by: VH
Project Name: IB Cooling Tower

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
T151761	Cooling Tower Sludge	<0.10	<0.10	<0.02	<0.02	<0.10	<0.10	<0.05	<0.010
ICV		2.48	5.03	0.50	1.00	2.49	2.49	0.50	0.00447
CCV		2.52	5.09	0.50	1.00	2.48	2.55	0.50	0.00480
REPORTING LIMIT		0.10	0.10	0.02	0.05	0.10	0.10	0.05	0.010
RPD		1	2	3	2	2	2	1	2
% Extraction Accuracy		93	95	92	98	95	82	98	118
% Instrument Accuracy		101	103	104	102	102	101	102	89
EXTRACTION DATE:		8/21/00	8/21/00	8/21/00	8/21/00	8/21/00	8/21/00	8/21/00	08/21/00
ANALYSIS DATE:		8/24/00	8/24/00	8/24/00	8/24/00	8/24/00	8/24/00	8/24/00	08/23/00

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, Pb; 2.0 mg/L Ag, Cd; 4.0 mg/L Cr; 20 mg/L Ba; Hg SPIKE 0.050 mg/L
TOTAL METALS CV: 2.50 mg/L As, Pb, Se; 0.50 mg/L Ag, Cd; 5.0 mg/L Ba; 1.0 mg/L Cr; Hg CV: 0.0050 mg/L

Director, Dr. Blair Leftwich

8-31-00
Date

TRACEANALYSIS, 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

Troy Johnson
Marathon Oil Co.
P. O. Box 552
Midland, TX 79702

Report Date: August 31, 2000

Order ID Number: A00082111

Project Number: N/A
Project Name: IB Cooling Tower
Project Location: Indian Basin Gas Plant

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
151761	Cooling Tower Sludge	Sludge	8/16/00	14:00	8/21/00

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 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical and Quality Control Report

Sample: 151761 - Cooling Tower Sludge

Analysis:	Corrosivity	Analytical Method:	S 1110	QC Batch:	QC04589	Date Analyzed:	8/30/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB03995	Date Prepared:	8/30/00

Param	Flag	Result	Units	Dilution	RDL
Corrosivity		Non	mm/yr	1	
pH		7.87	s.u.	1	

Sample: 151761 - Cooling Tower Sludge

Analysis:	Ignitability	Analytical Method:	SW-846 Ch. 7.1	QC Batch:	QC04590	Date Analyzed:	8/30/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB03996	Date Prepared:	8/30/00

Param	Flag	Result	Units	Dilution	RDL
Ignitability		non-ignitable		1	

Sample: 151761 - Cooling Tower Sludge

Analysis:	Reactivity	Analytical Method:	S 7.3	QC Batch:	QC04591	Date Analyzed:	8/30/00
Analyst:	MS	Preparation Method:	N/A	Prep Batch:	PB03997	Date Prepared:	8/30/00

Param	Flag	Result	Units	Dilution	RDL
Reactivity		Non-reactive		1	
Hydrogen Sulfide		30		1	
Hydrogen Cyanide		4		1	

Sample: 151761 - Cooling Tower Sludge

Analysis:	TCLP Volatiles	Analytical Method:	S 8260B	QC Batch:	QC04592	Date Analyzed:	8/28/00
Analyst:	JG	Preparation Method:	E 5030	Prep Batch:	PB03998	Date Prepared:	8/23/00

Param	Flag	Result	Units	Dilution	RDL
Vinyl Chloride		<0.100	mg/L	50	0.002
1,1-Dichloroethene		<0.100	mg/L	50	0.002
Methyl ethyl ketone		1.13	mg/L	50	0.01
Chloroform		<0.100	mg/L	50	0.002
1,2-Dichloroethane (EDC)		<0.100	mg/L	50	0.002
Benzene		<0.100	mg/L	50	0.002
Carbon Tetrachloride		<0.100	mg/L	50	0.002
Trichloroethene (TCE)		<0.100	mg/L	50	0.002
Tetrachloroethene (PCE)		<0.100	mg/L	50	0.002
Chlorobenzene		<0.100	mg/L	50	0.002
1,4-Dichlorobenzene		<0.100	mg/L	50	0.002

Quality Control Report

Method Blank

Sample: Method Blank QCBatch: QC04592

Param	Flag	Results	Units	Reporting Limit
Vinyl Chloride		<0.100	mg/L	0.002
1,1-Dichloroethene		<0.100	mg/L	0.002
Methyl ethyl ketone		<0.500	mg/L	0.01
Chloroform		<0.100	mg/L	0.002
1,2-Dichloroethane (EDC)		<0.100	mg/L	0.002
Benzene		<0.100	mg/L	0.002
Carbon Tetrachloride		<0.100	mg/L	0.002
Trichloroethene (TCE)		<0.100	mg/L	0.002
Tetrachloroethene (PCE)		<0.100	mg/L	0.002
Chlorobenzene		<0.100	mg/L	0.002
1,4-Dichlorobenzene		<0.100	mg/L	0.002

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Sample: LCS QC Batch: QC04592

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		2.79	mg/L	1	5	<0.100	55		80 - 120	20
1,1-Dichloroethene		4.40	mg/L	1	5	<0.100	88		80 - 120	20
Methyl ethyl ketone		4.75	mg/L	1	5	<0.500	95		80 - 120	20
Chloroform		4.87	mg/L	1	5	<0.100	97		80 - 120	20
1,2-Dichloroethane (EDC)		5.05	mg/L	1	5	<0.100	101		80 - 120	20
Benzene		4.99	mg/L	1	5	<0.100	99		80 - 120	20
Carbon Tetrachloride		5.13	mg/L	1	5	<0.100	102		80 - 120	20
Trichloroethene (TCE)		4.98	mg/L	1	5	<0.100	99		80 - 120	20
Tetrachloroethene (PCE)		3.73	mg/L	1	5	<0.100	74		80 - 120	20
Chlorobenzene		5.11	mg/L	1	5	<0.100	102		80 - 120	20
1,4-Dichlorobenzene		5.15	mg/L	1	5	<0.100	103		80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		49.75	mg/Kg	1	50	99	80 - 120
Toluene-d8		49.94	mg/Kg	1	50	99	80 - 120
4-Bromofluorobenzene		48.26	mg/Kg	1	50	96	80 - 120

Sample: LCSD QC Batch: QC04592

Param	Flag	Sample Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec.	RPD	% Rec. Limit	RPD Limit
Vinyl Chloride		2.68	mg/L	1	5	<0.100	53	4	80 - 120	20
1,1-Dichloroethene		4.26	mg/L	1	5	<0.100	85	3	80 - 120	20
Methyl ethyl ketone		4.64	mg/L	1	5	<0.500	92	2	80 - 120	20
Chloroform		4.74	mg/L	1	5	<0.100	94	3	80 - 120	20
1,2-Dichloroethane (EDC)		4.90	mg/L	1	5	<0.100	98	3	80 - 120	20
Benzene		4.86	mg/L	1	5	<0.100	97	3	80 - 120	20
Carbon Tetrachloride		4.97	mg/L	1	5	<0.100	99	3	80 - 120	20
Trichloroethene (TCE)		4.82	mg/L	1	5	<0.100	96	3	80 - 120	20
Tetrachloroethene (PCE)		3.63	mg/L	1	5	<0.100	72	3	80 - 120	20
Chlorobenzene		4.98	mg/L	1	5	<0.100	99	2	80 - 120	20
1,4-Dichlorobenzene		5.02	mg/L	1	5	<0.100	100	2	80 - 120	20

Surrogate	Flag	Result	Units	Dil.	Spike Amount	% Rec.	% Rec. Limit
Dibromofluoromethane		49.77	mg/Kg	1	50	99	80 - 120
Toluene-d8		50	mg/Kg	1	50	100	80 - 120
4-Bromofluorobenzene		48.08	mg/Kg	1	50	96	80 - 120

Quality Control Report
Duplicate Samples

Sample: Duplicate QC Batch: QC04589

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Corrosivity		Non	Non	mm/yr	1	0	20

Sample: Duplicate QC Batch: QC04590

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Ignitability		Non	non-ignitable		1	0	20

Sample: Duplicate QC Batch: QC04591

Param	Flag	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Reactivity		Non-reactive	Non-reactive		1	0	20
Hydrogen Cyanide		4	4		1	0	20
Hydrogen Sulfide		30	30		1	0	20

Quality Control Report
Continuing Calibration Verification Standards

Sample: CCV (1) QC Batch: QC04592

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		mg/L	100	101	101	80 - 120	8/28/00
1,1-Dichloroethene		mg/L	100	107	107	80 - 120	8/28/00
Methyl ethyl ketone		mg/L	100	115	115	80 - 120	8/28/00
Chloroform		mg/L	100	100	100	80 - 120	8/28/00
1,2-Dichloroethane (EDC)		mg/L	100	100	100	80 - 120	8/28/00
Benzene		mg/L	100	102	102	80 - 120	8/28/00
Carbon Tetrachloride		mg/L	100	102	102	80 - 120	8/28/00
Trichloroethene (TCE)		mg/L	100	104	104	80 - 120	8/28/00
Tetrachloroethene (PCE)		mg/L	100	81	81	80 - 120	8/28/00
Chlorobenzene		mg/L	100	101	101	80 - 120	8/28/00
1,4-Dichlorobenzene		mg/L	100	101	101	80 - 120	8/28/00
Dibromofluoromethane		mg/L	50	49.18	98	80 - 120	8/28/00
Toluene-d8		mg/L	50	48.66	97	80 - 120	8/28/00
4-Bromofluorobenzene		mg/L	50	52	104	80 - 120	8/28/00

151761

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 REQ

LAB Order ID # A0008211

Company Name: Marathon Oil Company
Phone #: (915) 687-8302
Address: (Street, City, Zip) P.O. Box 552, Midland 79701
Fax #: (915) 687-8305
Contact Person: Troy Johnson
Invoice to: (If different from above)
Project #:
Project Name: IB Cooling Tower
Project Location: Indian Basin Gas Plant
Sampler Signature: Troy Johnson

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL	HNO3	NaHSO4	H2SO4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard
151761	Cooling Tower Sludge	2					X	X					X		8/16	2pm					X	X	X			X						
		3																														

Relinquished by: Troy Johnson Date: 8/18/00 Time: 3:10PM
Received by: Helen Shelton Date: 8/18/00 Time: 3:10 PM
Relinquished by: Helen Shelton Date: 8/18/00 Time: 6:30PM
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Date: 08/19/00 Time: 9:30am

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4 °
Log-in Review MS
Carrier # Greyhound 159 394 831

REMARKS:

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C. 2 samples-HS

Carmella Van Maanen

From: "Price, Wayne" <WPrice@state.nm.us>
To: "'Carmella Van Maanen'" <crihobbs@leaco.net>
Cc: "Kieling, Martyne" <MKieling@state.nm.us>
Sent: Thursday, October 05, 2000 3:43 PM
Subject: RE: Cooling Tower Sludge

Approved! This approval will expire in 30 days. The C-138 process shall be utilized.

> ----------
> From: Carmella Van Maanen[SMTP:crihobbs@leaco.net]
> Reply To: Carmella Van Maanen
> Sent: Thursday, October 05, 2000 3:39 PM
> To: Price, Wayne
> Cc: Price, Wayne
> Subject: Re: Cooling Tower Sludge
>
> Wayne,
> CRI requests your approval to accept cooling tower sludge from Marathon
> Oil-Indian Basin Gas Plant. Please e-mail back approval. Thank you, Ken
> Marsh
>

Kieling, Martyne

From: Price, Wayne
Sent: Tuesday, October 03, 2000 11:05 AM
To: 'M P Peacock'
Cc: Kieling, Martyne; Gum, Tim; Williams, Donna
Subject: RE: Cooling tower sludge disposal -Reply

Approved using the C-138 process.

From: M P Peacock[SMTP:mppeacock@marathonoil.com]
Sent: Monday, October 02, 2000 5:06 PM
To: Price, Wayne
Subject: RE: Cooling tower sludge disposal -Reply

Wayne,

Marathon requests approval to ship the cooling tower sludge from the Indian Basin Gas Plant to Controlled Recovery, Inc. for disposal in stead of Marathon's on-site landfarm. If you have any questions or need any additional information, then please advise.

M. Paul Peacock
Advanced Environmental & Safety Engineer

Marathon Oil Company
P. O. Box 552
Midland, TX 79702

Ph: 915/687-8312
Fax: 915/687-8305
E-mail: mppeacock@marathonoil.com

>>> "Price, Wayne" <WPrice@state.nm.us> 09/27/00 04:43pm >>>
Dear Mr. Johnson:

Your request to dispose of the cooling tower basin solid waste material into the on-site landfarm is hereby approved with the following conditions:

1. Any chemical constituent found in the cooling tower sludge that exceeds the NM WQCC standards as defined in 20 NMAC 6.2.3103 will be incorporated into the plants Stormwater Testing Program and Landfarm Vadose Zone Monitoring Program.

2. This approval is good for a one-time application to the on-site landfarm for non aqueous, non-hazardous, non-exempt/non-hydrocarbon waste generated from the Plant Cooling Tower. This approval will expire December 15, 2000.

3. Marathon will submit a revised discharge plan for OCD Approval reflecting the above changes by December 15, 2000.

Please be advised that NMOCD approval of this plan does not relieve Marathon of liability should their operations pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve Marathon of responsibility for compliance with any other federal, state, or local laws and/or regulations.

> ---
> From: Price, Wayne
> Sent: Tuesday, September 26, 2000 5:04 PM
> To: 'Troy R Johnson'

> Subject: RE: Cooling tower sludge disposal
>
> Dear Mr. Johnson:
>
> After reviewing the analytical I notice there were some heavy metals that
> exceed the groundwater standards. The purpose of the landfarm is to
> bio-remediate hydrocarbons. Would this action make the landfarm a
> landfill? Please call me so we can discuss this issue.
>
> ----------
> From: Troy R Johnson[SMTP:TRJohnson@MarathonOil.com]
> Sent: Friday, September 22, 2000 12:41 PM
> To: Price, Wayne
> Cc: TRJohnson@MarathonOil.com
> Subject: Cooling tower sludge disposal
>
> <<File: T1.JPG>><<File: T2.JPG>><<File: T3.JPG>><<File:
> T4.JPG>><<File: T5.JPG>><<File: T6.JPG>><<File: T7.JPG>>
> Wayne,
>
> Attached are the TCLP and Total metals analysis on the cooling tower
> sludge at the Indian Basin Gas Plant. As you requested, we included a
> total metals in addition to the TCLP. As we have done in previous years,
> we would like permission to mix the sludge with soil in the landfarm.
> Cleaning the cooling tower is a rare event, occurring about every 5 years.
>
> Call me at (915)687-8302 if you have any questions or comments.
>
> Troy Johnson
> Marathon Oil Company
>
>

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
OCT 0 3 2000
Environmental Bureau
Oil Conservation Division

RECEIVED
SEP 2 9 2000

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☐	4. Generator Conoco, Inc.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Maljamar Plant
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 1001 Conoco Rd.	Maljamar, NM 88264

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:

09-003

Oil filter and oil absorbent pads which have been drained.

Enclosed find knowledge of process letter, MSDS for oil, laboratory analysis, and certificate of waste status.

Volume approximately 4 cubic yards per month containing waste stream.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 09-26-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Wentzyne J. Kirk TITLE: Environmental Geologist DATE: 10-3-00

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

COMPANY / GENERATOR Conoco, Inc.

ADDRESS 1001 Conoco Road, Maljamar, NM 88264

GENERATING SITE Same

COUNTY Lea STATE NM

TYPE OF WASTE Filters-absorbent pads

ESTIMATED VOLUME 4 Yds. per month

GENERATING PROCESS Gas plant

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 2613.

AGENT Rudy Quiroz
SIGNATURE

NAME Rudy Quiroz
PRINTED

ADDRESS 1001 Conoco Road

Maljamar, NM 88264

DATE 9-26-00

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Oil Absorbant Pad 6/00 Collected: 6/7/00 9:00:00 A SPL Sample ID: 00060187-04

Site: Maljamar Gas Plant

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL				MCL	SW7471A		Units: mg/Kg		
Mercury	ND		0.033		1		06/09/00 12:15	PB	304645
Run ID/Seq #: HGL_000609A-304645									
Prep Method: SW7471A	Prep Date: 06/09/2000 10:15		Prep Initials: PB						
METALS BY METHOD 6010B, TOTAL				MCL	SW6010B		Units: mg/Kg		
Arsenic	ND		0.5		1		06/09/00 12:28	EG	304706
Lead	ND		0.5		1		06/09/00 12:28	EG	304706
Selenium	ND		0.5		1		06/09/00 12:28	EG	304706
Barium	ND		0.5		1		06/09/00 11:21	E_B	304564
Cadmium	ND		1		1		06/09/00 11:21	E_B	304564
Chromium	ND		1		1		06/09/00 11:21	E_B	304564
Silver	ND		1		1		06/09/00 11:21	E_B	304564
Run ID/Seq #: TJA_000609A-304564									
Prep Method: SW3050B	Prep Date: 06/08/2000 14:30		Prep Initials: MR						
Run ID/Seq #: TJAT_000609A-304706									
Prep Method: SW3050B	Prep Date: 06/08/2000 14:30		Prep Initials: MR						
PURGEABLE AROMATICS				MCL	SW8021B		Units: ug/Kg		
Benzene	ND		10		10		06/09/00 6:41	FB	304117
Ethylbenzene	ND		10		10		06/09/00 6:41	FB	304117
Methyl tert-butyl ether	ND		10		10		06/09/00 6:41	FB	304117
Toluene	13		10		10		06/09/00 6:41	FB	304117
Xylenes,Total	10		10		10		06/09/00 6:41	FB	304117
Surr: 1,4-Difluorobenzene	98.6	%	59-127		10		06/09/00 6:41	FB	304117
Surr: 4-Bromofluorobenzene	54.0	%	48-156		10		06/09/00 6:41	FB	304117

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

8/9/00 4:06:53 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Oil Absorbant Pad 6/00 Collected: 6/7/00 9:00:00 A SPL Sample ID: 00060187-04

Site: Maljamar Gas Plant

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL				MCL	SW7471A		Units: mg/Kg		
Mercury	ND		0.033		1		06/09/00 12:15	PB	304645
Run ID/Seq #: HGL_000609A-304645									
Prep Method: SW7471A; Prep Date: 06/09/2000 10:15; Prep Initials: PB									
METALS BY METHOD 6010B, TOTAL				MCL	SW6010B		Units: mg/Kg		
Arsenic	ND		0.5		1		06/09/00 12:28	EG	304706
Lead	ND		0.5		1		06/09/00 12:28	EG	304706
Selenium	ND		0.5		1		06/09/00 12:28	EG	304706
Barium	ND		0.5		1		06/09/00 11:21	E_B	304564
Cadmium	ND		1		1		06/09/00 11:21	E_B	304564
Chromium	ND		1		1		06/09/00 11:21	E_B	304564
Silver	ND		1		1		06/09/00 11:21	E_B	304564
Run ID/Seq #: TJA_000609A-304564									
Prep Method: SW3050B; Prep Date: 06/08/2000 14:30; Prep Initials: MR									
Run ID/Seq #: TJAT_000609A-304706									
Prep Method: SW3050B; Prep Date: 06/08/2000 14:30; Prep Initials: MR									
PURGEABLE AROMATICS				MCL	SW8021B		Units: ug/Kg		
Benzene	ND		10		10		06/09/00 6:41	FB	304117
Ethylbenzene	ND		10		10		06/09/00 6:41	FB	304117
Methyl tert-butyl ether	ND		10		10		06/09/00 6:41	FB	304117
Toluene	13		10		10		06/09/00 6:41	FB	304117
Xylenes,Total	10		10		10		06/09/00 6:41	FB	304117
Surr: 1,4-Difluorobenzene	98.6	%	59-127		10		06/09/00 6:41	FB	304117
Surr: 4-Bromofluorobenzene	54.0	%	48-156		10		06/09/00 6:41	FB	304117

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/9/00 4:06:53 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Oil Filter 6/00 **Collected:** 6/7/00 9:00:00 A **SPL Sample ID:** 00060187-03

Site: Maljamar Gas Plant

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL				MCL	SW7471A		Units: mg/Kg		
Mercury	ND		0.033		1		06/09/00 12:15	PB	304649

Run ID/Seq #: HGL_000609A-304649

Prep Method	Prep Date	Prep Initials
SW7471A	06/09/2000 10:15	PB

METALS BY METHOD 6010B, TOTAL				MCL	SW6010B		Units: mg/Kg		
Arsenic	ND		0.5		1		06/09/00 13:37	EG	304716
Lead	15.3		0.5		1		06/09/00 13:37	EG	304716
Selenium	ND		0.5		1		06/09/00 13:37	EG	304716
Barium	3.56		0.5		1		06/09/00 12:02	E_B	304579
Cadmium	ND		1		1		06/09/00 12:02	E_B	304579
Chromium	4.58		1		1		06/09/00 12:02	E_B	304579
Silver	ND		1		1		06/09/00 12:02	E_B	304579

Run ID/Seq #: TJA_000609A-304579

Prep Method	Prep Date	Prep Initials
SW3050B	06/08/2000 14:30	MR

Run ID/Seq #: TJAT_000609A-304716

Prep Method	Prep Date	Prep Initials
SW3050B	06/08/2000 14:30	MR

PURGEABLE AROMATICS				MCL	SW8021B		Units: ug/Kg		
Benzene	ND		10		10		06/09/00 6:15	FB	304116
Ethylbenzene	ND		10		10		06/09/00 6:15	FB	304116
Methyl tert-butyl ether	ND		10		10		06/09/00 6:15	FB	304116
Toluene	ND		10		10		06/09/00 6:15	FB	304116
Xylenes,Total	14		10		10		06/09/00 6:15	FB	304116
Surr: 1,4-Difluorobenzene	86.9	%	59-127		10		06/09/00 6:15	FB	304116
Surr: 4-Bromofluorobenzene	104	%	48-156		10		06/09/00 6:15	FB	304116

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/9/00 4:06:51 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Oil Filter 6/00 Collected: 6/7/00 9:00:00 A SPL Sample ID: 00060187-03

Site: Maljamar Gas Plant

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
MERCURY, TOTAL				MCL	SW7471A		Units: mg/Kg		
Mercury	ND		0.033		1		06/09/00 12:15	PB	304649
Run ID/Seq #: HGL_000609A-304649									
Prep Method: SW7471A; Prep Date: 06/09/2000 10:15; Prep Initials: PB									
METALS BY METHOD 6010B, TOTAL				MCL	SW6010B		Units: mg/Kg		
Arsenic	ND		0.5		1		06/09/00 13:37	EG	304716
Lead	15.3		0.5		1		06/09/00 13:37	EG	304716
Selenium	ND		0.5		1		06/09/00 13:37	EG	304716
Barium	3.56		0.5		1		06/09/00 12:02	E_B	304579
Cadmium	ND		1		1		06/09/00 12:02	E_B	304579
Chromium	4.58		1		1		06/09/00 12:02	E_B	304579
Silver	ND		1		1		06/09/00 12:02	E_B	304579
Run ID/Seq #: TJA_000609A-304579									
Prep Method: SW3050B; Prep Date: 06/09/2000 14:30; Prep Initials: MR									
Run ID/Seq #: TJAT_000609A-304716									
Prep Method: SW3050B; Prep Date: 06/08/2000 14:30; Prep Initials: MR									
PURGEABLE AROMATICS				MCL	SW8021B		Units: ug/Kg		
Benzene	ND		10		10		06/09/00 6:15	FB	304116
Ethylbenzene	ND		10		10		06/09/00 6:15	FB	304116
Methyl tert-butyl ether	ND		10		10		06/09/00 6:15	FB	304116
Toluene	ND		10		10		06/09/00 6:15	FB	304116
Xylenes,Total	14		10		10		06/09/00 6:15	FB	304116
Surr: 1,4-Difluorobenzene	86.9	%	59-127		10		06/09/00 6:15	FB	304116
Surr: 4-Bromofluorobenzene	104	%	48-156		10		06/09/00 6:15	FB	304116

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Rudy Quiroz
Operations Tech III
Natural Gas & Gas Products

Conoco Inc.
P.O. Box 90
Maljamar, NM 88264
505-676-3528

September 14, 2000

Subject: Process Knowledge Letter on Oil Filters and Oil Absorbent Pads

The Maljamar Gas Plant generates approximately 4 cubic yards of filters/absorbent pads per month. The oil filters are used to filter particulate out of the oil used in our compressors. The absorbent pads are used to clean up minor spills and leaks around the compressors. The oil filters and absorbent pads are completely drained before they are put in a special waste container for disposal.

If you have any questions please contact me at 505-676-3528.

Sincerely,

Rudy Quiroz
Operations Tech III

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No: 00060187

083641

page 1 of 1

Client Name: Conoco Inc.

Address/Phone: P.O. Box 90 Maljamar N.M.

Client Contact: Rudy Quiroz

Project Name: Special Waste

Project Number:

Project Location: Maljamar Gas Plant

Invoice To: P.O. Box 90, Maljamar N.M. 88264

matrix: W=water S=soil SL=sludge O=other:
bottle: P=plastic A=amber glass G=glass V=vial
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz
pres.: 1=HCl 2=HNO3 3=H2SO4 O=other:

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX	RCRA	MTBE						
Amine Filter 6/00	6/7/00	9:00Am		X	O	G			1	X	X	X						
Dust Filter 6/00	6/7/00	9:00Am		X	O	G			1	X	X	X						
Oil Filter 6/00	6/7/00	9:00Am		X	O	G			1	X	X	X						
Oil Absorbent Pad 6/00	6/7/00	9:00Am		X	O	G			1	X	X	X						

Client/Consultant Remarks: Fax Copy of Results to Ashley Finnan 281-293-1214

Laboratory remarks:

Intact? ☐ Y ☐ N

Temp: 4

Requested TAT

24hr ☒ 72hr ☐

48hr ☐ Standard ☐

Other ☐ _____

Special Reporting Requirements: Fax Results ☐ Raw Data ☐ Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐

Special Detection Limits (specify): N/A

PM review (initial): NW

1. Relinquished by Sampler: Rudy Quiroz	date 6/7/00	time 9:30 Am	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date	time	6. Received by Laboratory: Dianne Blue 6/7/00 1B

☒ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

☐ 459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777

The MSDS format adheres to U.S. standards and regulatory requirements and may not meet regulatory requirements in other countries.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience are gained.

EL MAR 3000 ENGINE OIL

MOTC0070 Revised 26-NOV-1998 Printed 6-JAN-1999

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"EL MAR" is a registered trademark of Conoco.

Grade : 30, 40, 15W-40

Product Use

Natural Gas Engine Oil

Tradenames and Synonyms

7513, 7514, 7515 - Conoco Base Codes

Company Identification

MANUFACTURER/DISTRIBUTOR
Conoco, Inc.
P.O. Box 2197
Houston, TX 77252

PHONE NUMBERS
Product Information : 1-281-293-5550
Transport Emergency : CHEMTREC 1-800-424-9300
Medical Emergency : 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Highly refined base oils		>80
Proprietary additives		<20

If oil mist is generated, exposure limits apply.

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

"USED" Motor Oil -
There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

Material poses an aspiration hazard. If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in

400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	: 202 C (396 F) (SAE 30) 204 C (399 F) (SAE 40) 193 C (379 F) (SAE 15W-40)
Method	: Pensky-Martens Closed Cup - PMCC.
Flash Point	: 250 C (482 F) (SAE 30) 257 C (495 F) (SAE 40) 229 C (444 F) (SAE 15W-40)
Method	: Cleveland Open Cup - COC.

Flash point(s) given above are typical values.

Autoignition : Not Available

NFPA Classification : Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Ventilation: Normal shop ventilation.

Personal Protective Equipment

Respiratory Protection: None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below acceptable limits. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin contact. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits
If oil mist is generated, exposure limits apply.

PEL	(OSHA)	: 5 mg/m3, 8 Hr. TWA
TLV	(ACGIH)	: 5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3 Notice of Intended Changes (1998) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors)
AEL *	(DuPont)	: 5 mg/m3, 8 Hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: 700-1100 F (371-593 C)
Vapor Pressure	: Nil
Vapor Density	: >1 (Air = 1)
% Volatiles	: Nil
Evaporation Rate	: Nil
Solubility in Water	: Insoluble
Odor	: Petroleum hydrocarbon (mild)
Form	: Liquid
Color	: Amber to Brown
Specific Gravity	: 0.88 @ 60 F (16 C)
Density	: 7.34-7.36 lb/gal @ 60 F (16 C)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with oxidizers.

Decomposition

Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -
Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TRANSPORTATION INFORMATION

Shipping Information

DOT
Not regulated.

ICAO/IMO
Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DETERMINATION
Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND
Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304
This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No
Chronic : No
Fire : No
Reactivity : No
Pressure : No

SARA, TITLE III, 313
This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA
Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA
This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT
The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient	: Petroleum Hydrocarbons.
Reportable Quantity	: Film or sheen upon or discoloration of any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"
This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating	
Health	: 0
Flammability	: 1
Reactivity	: 0
NPCA-HMIS Rating	
Health	: 1
Flammability	: 1
Reactivity	: 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS	: MSDS Coordinator
Address	: Conoco Inc.
>	: PO Box 2197
>	: Houston, TX 77252
Telephone	: 1-281-293-5550

# Indicates updated section.

End of MSDS

1752

conoco®

MSDS MATERIAL SAFETY DATA SHEET

MOTC0010 Revised 6-DEC-1997 Printed 25-MAY-1998

EL MAR ASHLESS ENGINE OIL

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification
"El Mar" is a registered trademark of Conoco.

Grade SAE 30, 40, 15W-40

Product Use
Natural Gas Engine Oil

Tradenames and Synonyms
7505, 7506, 7507 - Conoco Base Code

Company Identification
MANUFACTURER/DISTRIBUTOR
Conoco, Inc.
P.O. Box 2197
Houston, TX 77252

PHONE NUMBERS

Product Information	1-281-293-5550
Transport Emergency	CHEMTREC 1-800-424-9300
Medical Emergency	1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
May contain any combination of the following		>80
base oils:		
Solvent Dewaxed Dist., Hvy. Paraffinic	64742-65-0	
Solvent Refined Dist., Hvy. Paraffinic	64741-88-4	
Proprietary Additives		<20

If oil mist is generated, exposure limits apply.

(Continued)

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Entry: Skin

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

"USED" Motor Oil -
There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

Carcinogenicity Information
None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid
INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash thoroughly with soap and water after handling. If irritation develops, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians
Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

(Continued)

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point	185-195 C (365-383 F) Method: PMCC (Minimum) 232-255 C (450-491 F) Method: COC (Typical)
Autoignition	680 F (360 C)
NFPA Classification	Class IIIB Combustible Liquid.

Extinguishing Media
Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions
Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)
NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Eliminate all sources of ignition - heat, sparks, flame, electricity, impact and friction.

Initial Containment
Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up
Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)
Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)
Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage
Store in accordance with National Fire Protection Association recommendations. Store in a cool, dry place. Store in a well ventilated place. Store away from oxidizers, heat, sparks and flames.

(Continued)

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Ventilation: Normal shop ventilation.

Personal Protective Equipment

Respiratory Protection: None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below acceptable limits. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin contact. NBR or Neoprene recommended.

Eye/Face Protection: Safety glasses with side shields if splashing is probable.

Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

 # Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL	(OSHA)	5 mg/m3, 8 Hr. TWA
TLV	(ACGIH)	5 mg/m3, 8 Hr. TWA, STEL 10 mg/m3 Notice of Intended Changes (1997) 5 mg/m3, 8 Hr. TWA, (As sampled by method that does not collect vapors)
AEL *	(DuPont)	5 mg/m3, 8 Hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	700-1100 F (371-593 C)
Vapor Pressure	Nil
Vapor Density	>1 (Air=1.0)
% Volatiles	Nil
Evaporation Rate	Nil
Solubility in Water	Insoluble
Odor	Petroleum Hydrocarbon (mild).
Form	Liquid.
Color	(light), Amber, Brown.
Specific Gravity	0.881-0.886 @ 60 F (16 C)
Density	7.34-7.38 lb/gal @ 60 F (16 C)

(Continued)

STABILITY AND REACTIVITY

Chemical Stability
Stable at normal temperatures and storage conditions.

Conditions to Avoid
Heat, sparks, and flames.

Incompatibility with Other Materials
Incompatible or can react with oxidizers.

Decomposition
Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

Polymerization
Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data
Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

"USED" Motor Oil -
Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information
No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal
Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

(Continued)

TRANSPORTATION INFORMATION

Shipping Information

DOT
Not regulated.

ICAO/IMO
Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DETERMINATION
Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND
Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SARA, TITLE III, 302/304
This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Not Hazardous

SARA, TITLE III, 313
This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA
Material and/or components are listed in the TSCA Inventory of Chemical Substances (40 CFR 710).

RCRA
This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable, or reactive according to U.S. definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT
The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient	Petroleum Hydrocarbons.

(Continued)

REGULATORY INFORMATION(Continued)

Reportable Quantity	Film or sheen upon or discoloration of any water surface.

State Regulations (U.S.)
CALIFORNIA "PROP 65"
This material is not known to contain any ingredient(s) subject to the Act.

OTHER INFORMATION

NFPA, NPCA-HMIS

NFPA Rating	
Health	0
Flammability	1
Reactivity	0
NPCA-HMIS Rating	
Health	1
Flammability	1
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS	MSDS Administrator
Address	Conoco Inc. PO Box 2197 Houston, TX 77252
Telephone	713-293-5550

# Indicates updated section.

End of MSDS

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
SEP 22 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

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 New Mexico
7. Location of Material (Street Address or ULSTR) 1000 NW County Rd., Hobbs	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:

09-001 200 bbls. wash water
09-002 20 yards of sludge

I am enclosing Certificate of waste status, previous C-138, previous analytical and chain of custody on both, 200 bbls. of wash water and 20 yards of sludge generated from steam cleaning tools, and letter of request (see attached).

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 09-14-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Engineer Specialist DATE: 9-14-00

APPROVED BY: Marilyn Hybl TITLE: Environmental Geologist DATE: 9-22-00

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 SAME

COUNTY LEA STATE NM

TYPE OF WASTE WASTE WATER & SLUDGE

ESTIMATED VOLUME 200 BBLS. 20 YDS.

GENERATING PROCESS STEAM CLEANING / WASHING OIL FIELD TOOLS

REMARKS

NMOCD FACILITY CONTROLLED RECOVERY

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 2613.

AGENT H. Don Rodgers
SIGNATURE

NAME H. DON RODGERS
PRINTED

ADDRESS P.O. BOX 2008
HOBBS, NM 88240

DATE 9/13/00

H. Don Rodgers
Star Tool Co.
1000 NW County Rd.
Hobbs, NM 88240

Controlled Recovery Inc.
P.O.Box 388
Hobbs, NM 88241

Ken;

We are requesting removal of waste water and sludge generated at this site. We are also requesting that analytical data previously run be used to determine status of waste. The process of generating this waste has not changed. We have files containing analytical data for 3 consecutive years that can be made available to anyone that might need it. Your attention in this matter is greatly appreciated.

Sincerely,

H. Don Rodgers

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
AUG 25 1999
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Originated 8/8

Submit Origi
Plus 1 Co
to appropri
District Off

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: Kath Harper 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: 8-23-99

APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 8/25/99

TRACEANALYSIS, 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
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 T128329 Conc.	QC	RPD	%EA	%IA
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	106	110
Chloroform	6.00	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

8-15-99
DATE

TRACEANALYSIS, 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 79927 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
STAR TOOLS
Attention: Don Rogers
P. O. Box 2008
Hobbs, NM 88241

August 19, 1999
Receiving Date: 08/04/99
Sample Type: Sludge
Project No: N/A
Project Location: N/A
Project Name: Yearly Analysis

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	T129328 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	99
Nitrobenzene	2.0	0.05	ND	67	6	92	95
Hexachlorobutadiene	0.5	0.05	ND	52	11	69	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	49
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

8-19-99
Date

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806•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

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

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
T129329	Solids-BOP Sump	<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	1.00	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	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	08/05/99
ANALYSIS DATE		08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/11/99	08/10/99

METHODS: EPA SW 846-1311, 6010B, 7470A
CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: BP
TCLP METALS SPIKE: 10 mg/L As, Se Cd, Cr, Pb, Ba: 2.5 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

8-19-99
Date

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 5 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
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: 8/12/99
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/y)	pH (s.u.)	IGNITABILITY
	EPA LIMIT *	---	500	250	>6.5 mm/yr.	<2 >12.5	—
T129329	Solids-BOP Sump	Non-reactive	<10	<2.5	Non-corrosive	8.06	Nonignitable
QC	Quality Control	—	---	---	—	—	—

*Corrected field cor

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

8-19-99
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 #: 99080501

Company Name: STAR TOOL
Phone #: (505) 397-4988
Address: (Street, City, Zip) P.O. BOX 2008. HOBBS N.M. 88240
Fax #: 505-397-3675
Contact Person: Attn: Don Rodgers
Invoice to: (if different from above)
Project #:
Project Name: Yearly Analysis
Project Location:
Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	Solids	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	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 8082/608	Pesticides 8081A/608	BOD, TSS, pH				Turn Around Time if different from standard	Hold
19329	Solids - BOP Sump	1					X	X			X		8-4-99							X	X	X		X										
19330	Recycled Water	2		X							X		8-4-99							X	X	X		X										

Relinquished by: Rosa Rodgers Date: 8/4 Time: 4:05p
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Mell Green Date: 8-4-99 Time: 4:05pm

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4°
Log-In Review

REMARKS:

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Weatherford ALS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 1802 W. Marland
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 1802 W. Marland, Hobbs	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:

08-010

Sump sludge.
Sump material from washing of downhole oilfield pumps and equipment.

Enclosed is analytical, certificate of waste status and chain of custody.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-29-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng. Specialist DATE: 9-7-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 9-12-00

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

COMPANY / GENERATOR Weaaherford ALS

ADDRESS Box 371, Hobbs, NM 88241

GENERATING SITE 1802 W. Marland, Hobbs, NM

COUNTY Lea STATE NM

TYPE OF WASTE Sump Sludge

ESTIMATED VOLUME 20 bbls.

GENERATING PROCESS Washing of downhole oilfield pumps and equipment.

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 2613.

AGENT Michael S
SIGNATURE

NAME Michael Singleton
PRINTED

ADDRESS 1802 W. Marland

Hobbs, NM 88240

DATE 08-29-00

CARDINAL 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: 08/21/00
Reporting Date: 08/25/00
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: 1802 W. MARLAND

Sampling Date: 08/21/00
Sample Type: LIQUID (60%), SLUDGE (40%)
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:		08/23/00	08/23/00	08/23/00	08/23/00	08/23/00	08/23/00	08/25/00	08/23/00
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H5114-1	SUMP	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.049	4.834	25.71	1.016	4.527	5.127	0.0102	0.049
True Value QC		0.050	5.000	25	1.000	5.000	5.000	0.0100	0.050
% Recovery		98.0	96.7	103	102	90.5	103	102	98.0
Relative Standard Deviation		6.8	0.3	2.8	0.7	1.6	1.3	4.5	3.9

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

NOTE: Analyses performed on a 60:40 mixture of liquid and leachate of sludge

Amy Hill
Chemist

8/25/00
Date

H5114M.XLS

CARDINAL 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: 08/21/00
Reporting Date: 08/24/00
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: 1802 W. MARLAND

Sampling Date: 08/21/00
Sample Type: LIQUID (60%), SLUDGE (40%)
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		08/24/00	08/24/00	08/23/00	08/23/00
H5114-1	SUMP	Not reactive	Not reactive	5.45	>140
Quality Control		NR	NR	7.00	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, 1010, 1311, *40 CFR 261*

Chemist

Date 8/24/00

CARDINAL 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: 08/21/00
Reporting Date: 08/23/00
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: 1802 W. MARLAND
Lab Number: H5114-1
Sample ID: SUMP

Analysis Date: 08/22/00
Sampling Date: 08/21/00
Sample Type: LIQUID (60%), SLUDGE (40%)
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H5114-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.005	<0.005	0.014	28	0.050
1,4-Dichlorobenzene	7.50	<0.005	<0.005	0.037	74	0.050
o-Cresol	200	0.007	<0.005	0.038	76	0.050
m, p-Cresol	200	0.014	<0.005	0.033	66	0.050
Hexachloroethane	3.00	<0.005	<0.005	0.026	52	0.050
Nitrobenzene	2.00	<0.005	<0.005	0.044	88	0.050
Hexachloro-1,3-butadiene	0.500	<0.005	<0.005	0.036	72	0.050
2,4,6-Trichlorophenol	2.00	<0.005	<0.005	0.050	100	0.050
2,4,5-Trichlorophenol	400	<0.005	<0.005	0.048	96	0.050
2,4-Dinitrotoluene	0.130	<0.005	<0.005	0.047	94	0.050
Hexachlorobenzene	0.130	<0.005	<0.005	0.052	104	0.050
Pentachlorophenol	100	<0.005	<0.005	0.043	86	0.050

	% RECOVERY
Fluorophenol	50
Phenol-d5	70
Nitrobenzene-d5	42
2-Fluorobiphenyl	73
2,4,6-Tribromophenol	97
Terphenyl-d14	93

METHODS: EPA SW 846-8270, 1311, 3510
NOTE: Analysis performed on a 60:40 mixture of liquid and leachate of sludge

Burgess J. A. Cooke, Ph. D.

8/23/00
Date

CARDINAL 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: 08/21/00
Reporting Date: 08/24/00
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: 1802 W. MARLAND
Lab Number: H5114-1
Sample ID: SUMP

Analysis Date: 08/21 & 08/23/00
Sampling Date: 08/21/00
Sample Type: LIQUID (60%), SLUDGE (40%)
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H5114-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.087	87	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.102	102	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.094	94	0.100
Chloroform	6.0	<0.005	<0.005	0.104	104	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.114	114	0.100
Benzene	0.5	<0.005	<0.005	0.108	108	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.105	105	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.109	109	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.106	106	0.100
Chlorobenzene	100	<0.005	<0.005	0.106	106	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.111	111	0.100

	% RECOVERY
Dibromofluoromethane	100
Toluene-d8	102
Bromofluorobenzene	104

METHODS: EPA SW 846-8260, 1311
NOTE: Results are a weighted average from separate analyses of liquid and sludge leachate.

Burgess A. Cooke, Ph. D.

8/24/00
Date

CARDINAL 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____ of____

Company Name: Weatherford ALS		BILL TO	
Project Manager:		P.O. #:	
Address: PO Box 371		Company: CRT	
City: Hobbs	State: NM Zip: 88241	Attn: Ken	
Phone #:	Fax #:	Address: Bx 388	
Project #:	Project Owner:	City: Hobbs	
Project Name:		State: NM Zip: 88241	
Project Location: 1802 W Marland Hobbs NM		Phone #: 393-1079	
Sampler Name:		Fax #: 393 3615	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TCLP metals	TCLP Volatiles	TCLP Semi Volatiles	R-C-I
H5114-1	Sump							†			†		8-21-00	11:52	X	X	X	X

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: K Mc[illegible]	Date: 8-21-00 Time: 3:50PM	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 8/21/00 Time: 3:50	Received By: (Lab Staff) Amy Hill	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

District I - (505) 393-6161
P. O. Box 1980
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Artesia, NM 88210
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1000 Rio Brazos Road
Aztec, NM 87410
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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 New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley, 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:

08-001

Wash rack sludge. Washing dirt and mud off of servicing equipment.

I am enclosing Certificate of Waste Status and previous C-138.
This material has been approved in the past.

Estimated Volume 300 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-03-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Engineer Specialist DATE: 8-25-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 9-5-00

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

COMPANY / GENERATOR BJ Services

ADDRESS 2401 Sivley, Artesia, NM

GENERATING SITE Artesia Facility

COUNTY Eddy STATE NM

TYPE OF WASTE Wash rack sludge

ESTIMATED VOLUME 300 bbls.

GENERATING PROCESS Washing dirt & mud off of servicing equipment.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

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 2613.

AGENT Perry Britton
SIGNATURE

NAME Perry Britton
PRINTED

ADDRESS 2401 Sivley

Artesia, NM 88210

DATE 08-02-00

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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Aztec, NM 87410
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Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator 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 New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley, 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:

07-004

Wash rack sludge-Washing dirt and mud off of servicing equipment.

I am enclosing a Certificate of Waste Status and previous C-138.
This material has been approved in the past.

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 07-13-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 7-21-00

APPROVED BY: Martyne Kupitz TITLE: Environmental Geologist DATE: 7-25-00

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Baker Oil Tools
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hobbs Yard
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) P.O. Box 1826, Hobbs	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:

08-008

Sump Water
Sump water is generated by the cleaning of oilfield tools. I am enclosing a non-exempt certificate of waste status and previous C-138. This material has been approved in the past.

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-07-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyn J. Kilp TITLE: Environmental Geologist DATE: 9-5-00

District I - (505) 393-6161
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Hobbs, NM 88241-1980
District II - (505) 748-1283
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BAKER OIL TOOLS
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS YARD
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter CRI
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) P. O. BOX 1828, HOBBS	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:

01-2004

SUMP WATER GENERATED BY THE CLEANING OF OILFIELD TOOLS. I AM ENCLOSING ANALYTICAL, KNOWLEDGE OF PROCESS LETTER, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

Extension Approved New analytical will Need to be run by 2-5-01
The 1998 Results are good until 2-5-01 MJK 1-28-00

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 1-24-00
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: 01-25-00

APPROVED BY: Martyne J Kieling TITLE: Environmental Geologist DATE: 01-28-00

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

COMPANY / GENERATOR: Baker Oil Tools

ADDRESS P.O. Box 1828, Hobbs, NM 88240

GENERATING SITE 507 W. County Road

COUNTY Lea STATE NM

TYPE OF WASTE Sump Water

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS Cleaning tools

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

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 2613.

AGENT [signature]
SIGNATURE

NAME BOB LEE
PRINTED

ADDRESS P.O. Box 1828

Hobbs, NM 88240

DATE 08-07-00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Baker Oil Tools
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hobbs Yard
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) P.O. Box 1826, Hobbs	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:

08-008

Sump Water
Sump water is generated by the cleaning of oilfield tools. I am enclosing a non-exempt certificate of waste status and previous C-138. This material has been approved in the past.

Martyne,
This is for your files.

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-07-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environmental Eng Sp DATE: 9-13-00

APPROVED BY: Martyne J Kieling TITLE: Environmental Geologist DATE: 9-5-00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
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District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator ESP, Inc.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Midland, TX
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Petroplex Pipe & Co.
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 17 Levin Road, ESP Yard	Midland, 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:

08-009

Filter sand from wash out submergable pumps.

This material has been approved before (2-18-00). I am enclosing the Certificate of Waste Status and copy of previous C-138. Full packet Submitted on 02-07-00.

Estimated Volume 24 Yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-22-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 8-25-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 9-5-00

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

COMPANY / GENERATOR ESP, Inc.

ADDRESS 17 Levin Rd., Midland, TX 79703

GENERATING SITE Same

COUNTY Midland STATE TX

TYPE OF WASTE Washout sand

ESTIMATED VOLUME 24 yards

GENERATING PROCESS Washing of pumps, process has not been changed.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Petroplex Pipe & Construction

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 Roy Green
SIGNATURE

NAME Roy Green
PRINTED

ADDRESS 17 Levin Road

Midland, TX 79703

DATE 08-22-00

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

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

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District O

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator ESP, Inc.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Midland, TX
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Petroplex Pipe & Co
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 17 Levin Road, Esp Yard	Midland, 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:

07-005

Filter sand from wash out submergable pumps.

This material has been approved before (2-18-00). I am enclosing the Certificate of Waste Status and copy of previous C-138. Full packet submitted on 02-07-00.

Estimated Volume 24 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 07-13-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 7-21-00

APPROVED BY: [illegible] TITLE: Environmental [illegible] DATE: 7-[illegible]-00

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
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Conoco, Inc.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 1001 Conoco Rd.
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 1001 Conoco Rd., Malajamar	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:

08-007

Contaminated Soil -"See attached letter"

Enclosed is the analytical, non-exempt certificate of waste status and process knowledge letter.

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

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 08-04-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 8-10-00

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

COMPANY / GENERATOR Conoco, Inc.

ADDRESS 1001 Conoco Rd., Maljamar, N.M.

GENERATING SITE Maljamar Plant

COUNTY Lea STATE N.M.

TYPE OF WASTE Contaminated Soils

ESTIMATED VOLUME approximately 60 yards

GENERATING PROCESS Clean up

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Unkown

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 Rudy Quiroz
SIGNATURE

NAME Rudy Quiroz
PRINTED

ADDRESS 1001 Conoco Rd.

Malajamar, NM 88264

DATE 08-04-00

conoco

Rudy Quiroz
Operations Tech III
Natural Gas & Gas Products

Conoco Inc.
P.O. Box 90
Maljamar, NM 88264
505-676-3528

August 4, 2000

Subject: Process Knowledge Letter on Contaminated Soil Pile

There is a pile of contaminated soil in the south plant area. This pile of contaminated soil is the results of past clean up projects around compressor and process skids in the gas plant. There is an estimated 60 yards of soil, which took a few years to accumulate.

If you have any questions please contact me at 505-676-3528.

Rudy Quiroz

Rudy Quiroz

Operations Tech III

Conoco Inc.

Request for Facsimile Transmission

Date
7/19/00

From

Employee	Ext.
Rudy Quiroz	505-676-3528
City, State, Country: Maljamar,N.M.	Room No.
Acct. No.: 505-676-2401	

To

Name	Phone No.
Ken Marsh	Fax 505-393-3615
Department: CRI	Room No.
City, State Country: Hobbs, N.M.	

No. of Pages
18+Cover

Note:
1. Your originals must have good contrast (dark detail on light background).
2. Legible.
3. ½ inch margin on all sides of sheet.
4. Number all pages.

Special Instructions

Ken, I'm faxing you the analytical on 3 different materials. Each analytical is 18 pages long so I'm faxing one at a time. Let me know if you don't get all three.

Thanks,
Rudy

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

March 6, 2000

Mr. Rudy Quiroz
CONOCO, INC.
P. O. Box 90
Maljamar, NM 88264

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on February 16, 2000. The sample(s) was assigned to Certificate of Analysis No. (s) 0002357 and analyzed for all parameters as listed on the chain of custody.

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

Sonia West
Senior Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 00-02-357

Approved for Release by:

Sonia West
Sonia West, Senior Project Manager

3-6-00
Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

The results relate only to the samples tested.
Results reported on a Wet Weight Basis unless otherwise noted.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-0002357-01

Conoco Inc.
P.O. Box 90
Maljamar, NM 88264
ATTN: Rudy Quiroz

DATE: 03/01/00

PROJECT: Contaminated Soil #1
SITE: 1001 Conoco Rd. Maljamar,NM
SAMPLED BY: Conoco
SAMPLE ID: Contaminated Soil #1

PROJECT NO:
MATRIX: SOIL
DATE SAMPLED: 02/15/00 09:10:00
DATE RECEIVED: 02/16/00

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
BENZENE	3.8	1.0 P	ug/kg
TOLUENE	31	1.0 P	ug/kg
ETHYLBENZENE	28	1.0 P	ug/kg
TOTAL XYLENE	180	1.0 P	ug/kg
TOTAL VOLATILE AROMATIC HYDROCARBONS	242.8		ug/kg
Surrogate	**% Recovery**		
1,4-Difluorobenzene	113		
4-Bromofluorobenzene	240MI		
Method 8021B ***			
Analyzed by: CJ			
Date: 02/18/00			
Cyanide-Reactive	ND	1	mg/kg
Method 7.3.3.2/9014 ***			
Analyzed by: BEN			
Date: 02/17/00 10:00:00			
Flash and Fire Point- C.O.C.	>210		°F
Method ASTM D92-85			
Analyzed by: TB			
Date: 02/29/00			
Soil pH Measured in Water	8.63		pH units
Method 9045C ***			
Analyzed by: EC			
Date: 02/18/00 12:30:00			

(P) - Practical Quantitation Limit MI - Matrix interference.
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.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-0002357-01

Conoco Inc.
P.O. Box 90
Maljamar, NM 88264
ATTN: Rudy Quiroz

DATE: 03/01/00

PROJECT: Contaminated Soil #1
SITE: 1001 Conoco Rd. Maljamar,NM
SAMPLED BY: Conoco
SAMPLE ID: Contaminated Soil #1

PROJECT NO:
MATRIX: SOIL
DATE SAMPLED: 02/15/00 09:10:00
DATE RECEIVED: 02/16/00

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Sulfide-Reactive Method 7.3.4.2 *** Analyzed by: BEN Date: 02/17/00 10:00:00	ND	10	mg/kg
Silver, Total Method 6010B *** Analyzed by: EB Date: 02/17/00 11:19:00	ND	1	mg/kg
Arsenic, Total Method 6010B *** Analyzed by: EG Date: 02/18/00 11:13:00	3.3	0.5	mg/kg
Barium, Total Method 6010B *** Analyzed by: EB Date: 02/17/00 11:19:00	50.3	0.5	mg/kg
Cadmium, Total Method 6010B *** Analyzed by: EB Date: 02/17/00 11:19:00	ND	0.5	mg/kg
Chromium, Total Method 6010B *** Analyzed by: EB Date: 02/17/00 11:19:00	6	1	mg/kg

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.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-0002357-01

Conoco Inc.
P.O. Box 90
Maljamar, NM 88264
ATTN: Rudy Quiroz

DATE: 03/01/00

PROJECT: Contaminated Soil #1
SITE: 1001 Conoco Rd. Maljamar,NM
SAMPLED BY: Conoco
SAMPLE ID: Contaminated Soil #1

PROJECT NO:
MATRIX: SOIL
DATE SAMPLED: 02/15/00 09:10:00
DATE RECEIVED: 02/16/00

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Mercury, Total Method 7471A *** Analyzed by: PB Date: 02/18/00 12:17:00	0.17	0.03	mg/kg
Acid Digestion - Solids, ICP Method 3050B *** Analyzed by: ME Date: 02/17/00 07:30:00	02/17/00		
Lead, Total Method 6010B *** Analyzed by: EG Date: 02/18/00 11:13:00	7.0	0.5	mg/kg
Selenium, Total Method 6010B *** Analyzed by: EG Date: 02/18/00 11:13:00	ND	0.5	mg/kg
Solids CLP Inorganics SOW Analyzed by: KM Date: 02/21/00 15:00:00	92		%w/w

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.

Quality Control Documentation

** SPL BATCH QUALITY CONTROL REPORT **
Method 8021B ***

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Soil
Units: ug/kg

Batch Id: HP_R000118014100

LABORATORY CONTROL SAMPLE

SPIKE COMPOUNDS	Method Blank Result <2>	Spike Added <3>	Blank Spike Result <1>	Blank Spike Recovery %	QC Limits(**) (Mandatory) % Recovery Range
Benzene	ND	50	46	92.0	60 - 126
Toluene	ND	50	45	90.0	64 - 112
EthylBenzene	ND	50	45	90.0	68 - 127
O Xylene	ND	50	46	92.0	68 - 127
M & P Xylene	ND	100	90	90.0	68 - 129

MATRIX SPIKES

SPIKE COMPOUNDS	Sample Results <2>	Spike Added <3>	Matrix Spike Result <1>	Matrix Spike Recovery <4>	Matrix Spike Duplicate Result <1>	Matrix Spike Duplicate Recovery <5>	MS/MSD Relative % Difference	QC Limits(***) (Advisory) RPD Max.	Recovery Range
BENZENE	ND	20	19	95.0	19	95.0	0	34	35 - 139
TOLUENE	1.1	20	18	84.5	18	84.5	0	28	31 - 137
ETHYLBENZENE	ND	20	17	85.0	16	80.0	6.06	35	21 - 141
O XYLENE	ND	20	20	100	17	85.0	16.2	57	25 - 139
M & P XYLENE	ND	40	34	85.0	32	80.0	6.06	38	19 - 144

Analyst: CJ/
Sequence Date: 02/18/00
SPL ID of sample spiked: 00020449-09
Sample File ID: R_B2078.TX0
Method Blank File ID:
Blank Spike File ID: R_B2074.TX0
Matrix Spike File ID: R_B2075.TX0
Matrix Spike Duplicate File ID: R_B2076.TX0

* = Values outside QC Range due to Matrix Interference (except RPD)
* = Data outside Method Specification limits.
NC = Not Calculated (Sample exceeds spike by factor of 4 or more)
ND = Not Detected/Below Detection Limit
% Recovery = [(<1> - <2>) / <3>] x 100
LCS % Recovery = (<1> / <3>) x 100
Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100
(**) = Source: SPL Historical LImits-1st Qtr.'97
(***) = Source: SPL Historical LImits-1st Qtr.'97

SAMPLES IN BATCH(SPL ID): 0002344-01A 0002357-01A 0002359-01A

ICP

ICP Spectroscopy Method 6010 Quality Control Report

Analyst: EB

Matrix: Soil Units: mg/Kg

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Date: 021700 Time:1119 File Name: 0218EC3

Laboratory Control Sample Lot#242

Element	Mth. Blank	True Value	Result	% Recovery	Lower Limit	Upper Limit
Silver	ND	149	124	83	110	188
Aluminum						
Arsenic						
Barium	ND	73.6	69	93	56.7	90.5
Beryllium						
Calcium						
Cadmium	ND	185	171	93	143	228
Cobalt						
Chromium	ND	50.7	45	88	35.7	65.7
Copper						
Iron						
Potassium						
Magnesium						
Manganese						
Sodium						
Nickel						
Lead						
Antimony						
Selenium						
Thallium						
Vanadium						
Zinc						

Work Orders in Batch

Work Order	Fractions
00-02-344	01C
00-02-357	01C
00-02-359	01C

Matrix Spike - Spike Duplicate Results **Work Order Spiked: 00020445-02C**

Element	Sample Result	Spike Added	Matrix Spike Result	Matrix Spike Recovery	Matrix Spike Duplicate Result	Matrix Spike Duplicate Recovery	Q.C. Limits % Recovery		Spike RPD %	QC Limits %
Silver	ND	100	83.55	84	81.81	82	80	120	2.1	20.0
Aluminum										
Arsenic										
Barium	14.04	100	99.5	85	98.42	84	80	120	1.3	20.0
Beryllium										
Calcium										
Cadmium	ND	100	85.39	85	85.86	86	80	120	0.5	20.0
Cobalt										
Chromium	6.28	100	89.84	84	87.93	82	80	120	2.3	20.0
Copper										
Iron										
Potassium										
Magnesium										
Manganese										
Sodium										
Nickel										
Lead										
Antimony										
Selenium										
Thallium										
Vanadium										
Zinc										

Elements Post Spiked:Cd

Checked 2/18/00

ICP

ICP Spectroscopy Method 6010 Quality Control Report

Analyst: EG

Matrix: Soil

Units: mg/Kg

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Date: 021800 Time:1113 File Name: 0221EC2

Laboratory Control Sample Lot#242

Element	Mth. Blank	True Value	Result	% Recovery	Lower Limit	Upper Limit
Silver						
Aluminum						
Arsenic	ND	58.6	59	101	41.1	76.1
Barium						
Beryllium						
Calcium						
Cadmium						
Cobalt						
Chromium						
Copper						
Iron						
Potassium						
Magnesium						
Manganese						
Sodium						
Nickel						
Lead	ND	56.6	61	108	43.1	70.1
Antimony						
Selenium	ND	61.4	59	96	45.4	77.2
Thallium						
Vanadium						
Zinc						

Work Orders in Batch

Work Order	Fractions
00-02-344	01C
00-02-357	01C

Matrix Spike - Spike Duplicate Results

Work Order Spiked: 00020445-02C

Element	Sample Result	Spike Added	Matrix Spike Result	Matrix Spike Recovery	Matrix Spike Duplicate Result	Matrix Spike Duplicate Recovery	Q.C. Limits % Recovery		Spike RPD %	QC Limits %
Silver										
Aluminum										
Arsenic	ND	200	185.3	93	183	92	80	120	1.2	20.0
Barium										
Beryllium										
Calcium										
Cadmium										
Cobalt										
Chromium										
Copper										
Iron										
Potassium										
Magnesium										
Manganese										
Sodium										
Nickel										
Lead	ND	100	92.24	92	90.2	90	80	120	2.2	20.0
Antimony										
Selenium	ND	200	175.8	88	172	86	80	120	2.2	20.0
Thallium										
Vanadium										
Zinc										

Checked EG. 2/21/00

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/18/00
Analyzed on: 02/18/00
Analyst: PB

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Mercury, Total
Method 7471A ***

SPL Sample ID Number	Blank Value mg/Kg	Certified Value mg/Kg	Measured Concentration mg/Kg	Mandatory Range of Measured Concentration
LCS	ND	2.17	2.06	1.48 - 2.86

-0002174

Samples in batch:

0002344-01C 0002357-01C 0002359-01C

COMMENTS:
LCS= SPL ID# 94-452-58-7

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/18/00
Analyzed on: 02/18/00
Analyst: PB

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Mercury, Total
Method 7471A ***

SPL Sample ID Number	Method Blank mg/Kg	Sample Result mg/Kg	Spike Added mg/Kg	Matrix Spike Result mg/Kg	Matrix Spike Recovery %	Matrix Spike Duplicate Result mg/Kg	Matrix Spike Duplicate Recovery %	RPD (%)	QC LIMITS (Advisory) RPD Max	QC LIMITS (Advisory) % REC
00020366-01B	ND	ND	0.33	0.3942	119	0.3865	117	1.7	20	75 -125

-0002174

Samples in batch:

0002344-01C 0002357-01C 0002359-01C

COMMENTS:
LCS= SPL ID# 94-452-58-7

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/18/00
Analyzed on: 02/17/00
Analyst: BEN

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Cyanide-Reactive
Method 7.3.3.2/9014 ***

-- DUPLICATE ANALYSIS --

SPL Sample ID	Original Sample Concentration mg/Kg	Duplicate Sample mg/Kg	RPD	RPD Max.
0002344-01B	ND	ND	0	20

-0002177

Samples in batch:

0002235-01B 0002344-01B 0002357-01B 0002359-01B

COMMENTS:

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

SPL Quality Control Report

Flash Point by Cleveland Open Cup

DATE : 02/29/00 NUMBER OF SAMPLES: 10

METHOD: ASTM D92 ANALYST: T. BENZ

UNITS : DEG. F

SAMPLE I.D. IN QC BATCH:

0002500-01A	0002563-05A
0002563-01A	0002563-06A
0002563-02A	0002344-01B
0002563-03A	0002357-01B
0002563-04A	0002359-01B

REPLICATE SAMPLE I.D. :	RESULT (# 1) .F	DUPLICATE (# 2) .F	DIFFERENCE (#1 - #2) .F	QC LIMITS +/- 15 DEG. F
INSUFFICIENT				

REVIEWED BY Fred W. Angle DATE: 3/1/2000

APPROVED BY DATE:

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/18/00
Analyzed on: 02/18/00
Analyst: EC

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Soil pH Measured in Water
Method 9045C ***

-- DUPLICATE ANALYSIS --

SPL Sample ID	Original Sample Concentration pH units	Duplicate Sample pH units	RPD	RPD Max.
0002357-01B	8.63	8.65	0.2	1.1

-0002175

Samples in batch:

0002344-01B 0002357-01B 0002359-01B

COMMENTS:

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/18/00
Analyzed on: 02/17/00
Analyst: BEN

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Sulfide-Reactive
Method 7.3.4.2 ***

-- DUPLICATE ANALYSIS --

SPL Sample ID	Original Sample Concentration mg/Kg	Duplicate Sample mg/Kg	RPD	RPD Max.
0002344-01B	ND	ND	0	15

-0002178

Samples in batch:

0002235-01B 0002344-01B 0002357-01B 0002359-01B

COMMENTS:

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Soil

Reported on: 02/22/00
Analyzed on: 02/21/00
Analyst: KM

This sample was randomly selected for use in the SPL quality control program. The results are as follows:

Solids
CLP Inorganics SOW

-- DUPLICATE ANALYSIS --

SPL Sample ID	Original Sample Concentration %w/w	Duplicate Sample %w/w	RPD	RPD Max.
0002344-01C	97	98	1.0	20

-0002190

Samples in batch:

0002344-01C	0002357-01C	0002359-01C	0002421-01B
0002424-01A	0002424-02A	0002424-03A	0002424-04A
0002424-05A	0002424-06A		

COMMENTS:

Chain of Custody
And
Sample Receipt Checklist

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No: 0002357

085279

page 1 of 1

Client Name: Conoco Inc.

Address/Phone: 1001 Conoco Rd. (505)676-3528

Client Contact: Rudy Quiroz

Project Name: Contaminated Soil #1

Project Number:

Project Location: 1001 Conoco Rd. Maljamar, N.M. 88264

Invoice To: Same Address As Above

matrix: W=water S=soil SL=sludge O=other:

bottle: P=plastic A=amber glass G=glass V=vial

size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz

pres.: 1=HCl 2=HNO3 3=H2SO4 O=other:

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX	~~TPH~~	Total RCRA Metals						
Contaminated Soil #1	2/15/00	9:10 am		X	S	G		N/A	3									

Client/Consultant Remarks: FAX Copy of Results to Ashley FINNAN (281) 293-1214

Laboratory remarks:

Intact? ☑ Y ☐ N

Temp: 4c

Requested TAT

24hr ☐ 72hr ☐

48hr ☐ Standard ☒

Other ☐ _____

Special Reporting Requirements: Fax Results ☐ Raw Data ☐ Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐

Special Detection Limits (specify): N/A

LIM review (initial): [redacted]

1. Relinquished by Sampler: Rudy Quiroz	date 2/15/00	time 9:45 Am	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date	time	6. Received by Laboratory: 2/16/00 1000

☒ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

☐ 459 Hughes Drive, Traverse City, MI 49684 (616) 947-5777

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/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator ESP, Inc.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Midland, TX
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Petroplex Pipe & Co
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 17 Levin Road, Esp Yard	Midland, 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:

07-005

Filter sand from wash out submergable pumps.

This material has been approved before (2-18-00). I am enclosing the Certificate of Waste Status and copy of previous C-138. Full packet submitted on 02-07-00.

Estimated Volume 24 yards cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 07-13-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Eng. Specialist DATE: 7-21-00

APPROVED BY: Martyn J. Mitchell TITLE: Environmental Geologist DATE: 7-25-00

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

COMPANY / GENERATOR ESP, Inc.

ADDRESS 17 Levin Rd., Midland, TX 79703

GENERATING SITE Same

COUNTY Midland STATE TX

TYPE OF WASTE Washout sand

ESTIMATED VOLUME 24 yards

GENERATING PROCESS Washing of pumps, process has not been changed.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Petroplex Pipe & Const.

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 Roy Green
SIGNATURE

NAME Roy Green
PRINTED

ADDRESS 17 Levin Road

Midland, TX 79703

DATE 07-13-00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
JUN 15 2000
Environmental Bureau
Oil Conservation Division

Form C-
Originated

Submit Or
Plus 1
to appro
District

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator *ESP*
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site *Midland, TX*
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter *Unknown*
3. Address of Facility Operator *P.O. Box 388, Hobbs*	8. State *New Mexico*
7. Location of Material (Street Address or ULSTR) *17 Levin Road, ESP Yard*	*Midland, 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:

06-001

Filter sand from wash out submergable pumps. This material has been approved before (2-18-00). Previous C-138 attached. Full packet submitted on 02-07-00.

Estimated Volume *12 yards* cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: *Bookkeeper* DATE: *06-07-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Chris Williams TITLE: *Environmental Geologist* DATE: *6-15-00*

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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Plus 1 Co
to appropri
District Off

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 New Mexico
7. Location of Material (Street Address or ULSTR) 2401 Sivley, 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:

07-004

Wash rack sludge-Washing dirt and mud off of servicing equipment.

I am enclosing a Certificate of Waste Status and previous C-138.
This material has been approved in the past.

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 07-13-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 7-21-00

APPROVED BY: Martyn J. Parker TITLE: Environmental Geologist DATE: 7-25-00

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

COMPANY / GENERATOR BJ Services

ADDRESS 2401 Sivley , Artesia, NM

GENERATING SITE Artesia Facility

COUNTY Eddy STATE NM

TYPE OF WASTE Wash Rack Slmdge

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS Washing dirt & mud off of servicing equipment

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

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 2613.

AGENT Perry Britton
SIGNATURE

NAME Perry Britton
PRINTED

ADDRESS 2401 Sivley

Artesia, NM 88210

DATE 07-13-00

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

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

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	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 of of servicing equipment. I am enclosing a Certificate of Waste Status, letter from the NMOCD extending the life of the sampling analysis, and copy of the last C-138. This material has been approved in the past.

05-007

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 05-25-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng Specialist DATE: 05-30-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 06-5-00

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

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

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	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 New Mexico
7. Location of Material (Street Address or ULSTR) 2708 W. County Rd., Hobbs	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:

07-003

Wash bay wastewaster. The material was generated by washing trucks.

This material has been approved in the past. I have included a certificate of waste status and copy of the last C-138.

Estimated Volume 225 bbl. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 07-12-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE Environ. Eng. Specialist DATE: 7-21-00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 7-25-00

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

COMPANY / GENERATOR BJ Services

ADDRESS 2708 West County Road, Hobbs, NM

GENERATING SITE Wash bay

COUNTY Lea STATE NM

TYPE OF WASTE Wash Bay Wastewater

ESTIMATED VOLUME 225 bbls.

GENERATING PROCESS Washing trucks

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

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 2613.

AGENT Chon Rivas
SIGNATURE

NAME Chon Rivas
PRINTED

ADDRESS 2708 West County Road

Hobbs, NM 88240

DATE 07-12-00

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

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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 *Hobbs facility*
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter *CRI*
3. Address of Facility Operator *P.O. Box 388*	8. State *New Mexico*
7. Location of Material (Street Address or ULSTR) *2708 W. County Rd., Hobbs*	*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:

The following analytical is from the BJ Services Hobbs facility. The material was generated by washing trucks. This material has been approved in the past. I have included a certificate of waste and copy of the last C-138.

05-006

Estimated Volume *225 bbls.* cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: *Bookkeeper* DATE: *05-25-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 05-30-00

APPROVED BY: Martyn J. Kirk TITLE: Environmental Geologist DATE: 6-5-00

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

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Oil Conservation Division
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Haliburton Energy Service
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Artesia Yard
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 2311 S. 1st Street Artesia, NM 88210	

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:

07-002

Wash rack grit generated by washing of oilfield equipment. I am enclosing previous C-138 and Certificate of Waste Status. This material has been approved in the past. The last package with analytical was on 02-01-00.

Estimated Volume 250 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 07-11-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 07-21-00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 07-25-00

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

COMPANY / GENERATOR Haliburton Energy Services

ADDRESS 2311 S. First, Artesia, NM 88210

GENERATING SITE "same"

COUNTY Eddy STATE NM

TYPE OF WASTE Wash rack grit

ESTIMATED VOLUME 250 bbls.

GENERATING PROCESS Wash water from washing of oilfield equipment

REMARKS Test Results on File.

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY ~~Unknown~~ 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 2613.

AGENT Scott Nelson
SIGNATURE

NAME Scott Nelson
PRINTED

ADDRESS 5801 Lovington Hwy.

Hobbs, NM 88240

DATE 07-11-00

I - (505) 393-6161
1980
, NM 88241-1980
ict II - (505) 748-1283
S. First
tesia, NM 88210
District III - (505) 334-6178
000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON ENERGY SERVIC
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site ARTESIA YARD
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter CRI
3. Address of Facility Operator P. O. BOX 388, HOBBS, NM 88241	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 2311 S. 1ST STREET ARTESIA, NM 88210	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

WASH RACK GRIT GENERATED BY WASHING OF OILFIELD EQUIPMENT. I AM ENCLOSING ANALYTICAL, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY. THIS MATERIAL HAS BEEN APPROVED IN THE PAST.

02-001

2000

Estimated Volume 120 BBLS. cy / Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 02-01-00
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: 02-14-00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 02-15-00

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

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Oil Conservation Division
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Conoco, Inc.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 1001 Conoco Rd.
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Unknown
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 1001 Conoco Rd., Maljamar	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:

07-001

Sump Water - "See attached letter"
Enclosed is the analytical, certificate of waste status and process knowledge letter.

Estimated Volume 150 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 07-10-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505) 393-1079

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 7-17-00

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

COMPANY / GENERATOR Conoco, Inc.

ADDRESS 1001 Conoco Rd., Maljamar, NM 88264

GENERATING SITE Maljamar Gas Plant

COUNTY Lea STATE NM

TYPE OF WASTE Sump Water

ESTIMATED VOLUME 150 Barrel per Month

GENERATING PROCESS See attached letter

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Unknown

Denise
Martyne
I have flagged
what I think is
wrong? FYI
Donna

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 Rudy Quiroz
SIGNATURE

NAME Rudy Quiroz
PRINTED

ADDRESS 1001 Conoco Rd.

Maljamar, NM 88264

DATE 7-10-00

Rudy Quiroz
Operations Tech III
Natural Gas & Gas Products

Conoco Inc.
P.O. Box 90
Maljamar, NM 88264
505-676-3528

July 10, 2000

Subject: Sump Water Waste

8 HRA Clark compressors are generating the sump water waste. These engines are very old and they leak lube oil and water. The waste is collected in a sump pit in front of each engine. The waste is about 95 % water and 5% lube oil. The waste is removed from the sump by a vacuum truck and is currently being stored in a frac tank until it can be disposed. Estimated volume of the waste is 150 barrels a month.

If you have any questions please contact me at 505-676-3528.

Rudy Quiroz

Operations Tech III

HOUSTON LABORATORY
6880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Case Narrative for:

Conoco Inc.

Certificate of Analysis Number:

00060378

Report To:		Project Name:	Clark Sump
Conoco Inc.		Site:	Maljamar Gas Plant
Rudy Quinez		Site Address:	
P.O. Box 90			
1001 Conoco Rd		PO Number:	
Maljamar		State:	New Mexico
NM		State Cert. No.:	
88264-			
ph: (505) 676-3603	fax: (505) 676-3533	Date Reported:	6/21/00

The methods were not indicated on the chain of custody for BTEX and Total Petroleum Hydrocarbons (TPH) analyses. A message was left for Ashly Finnan on June 15, 2000, to which there was not response. The samples were analyzed by EPA method 8021 for BTEX and TNRCC method TX1005 for TPH per historical events.

Your sample ID "Clark Sump" (SPL ID: 00060378-01) was analyzed for Purgeable Aromatics by SW846 method 8021. The surrogate 4-Bromofluorobenzene was outside the quality control limits, due to matrix interference.

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Sonia West

West, Sonia
Senior Project Manager

6/21/00
Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Conoco Inc.

Certificate of Analysis Number:

00060378

Report To: Conoco Inc.
Rudy Quinez
P.O. Box 90
1001 Conoco Rd
Maljamar
NM
88264-
ph: (505) 676-3503 fax: (505) 676-3533

Fax To: *Conoco Inc.*
Rudy Quinez *fax: (505) 676-3533*

Project Name: Clark Sump
Site: Maljamar Gas Plant
Site Address:
PO Number:
State: New Mexico
State Cert. No.:
Date Reported: 6/21/00

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
Clark Sump	00060378-01	Sludge	6/14/00 9:00:00 AM	6/15/00 10:00:00 AM	100292	
Clark Sump	00060378-01	Sludge	6/14/00 9:00:00 AM	6/15/00 10:00:00 AM	100292	☑

West, Sonia
Senior Project Manager

6/21/00
Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

6/21/00 12:03:48 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Clark Sump | **Collected:** 6/14/00 9:00:00 | **SPL Sample ID:** 00060378-01

Site: Maljamar Gas Plant

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
CORROSIVITY				MCL	SW9045C		Units: pH Units		
Corrosivity	7.9		0		1		06/15/00 16:45	C_V	309925
IGNITABILITY				MCL	SW1010		Units: °F		
Ignitability	> 210		0		1		06/16/00 0:00	SUB	311178
MERCURY, TOTAL				MCL	SW7471A		Units: mg/Kg		
Mercury	0.22		0.033		1		06/16/00 8:07	PB	309843

Run ID/Seq #: HGL_000616A-309843

Prep Method	Prep Date	Prep Initials
SW7471A	06/15/2000 14:30	PB

METALS BY METHOD 6010B, TOTAL				MCL	SW6010B		Units: mg/Kg		
Arsenic	ND		0.5		1		06/16/00 13:14	EG	310555
Lead	5.12		0.5		1		06/16/00 13:14	EG	310555
Selenium	ND		0.5		1		06/16/00 13:14	EG	310555
Barium	9.65		0.5		1		06/15/00 16:59	E_B	310155
Cadmium	ND		1		1		06/15/00 16:59	E_B	310155
Chromium	7.28		1		1		06/15/00 16:59	E_B	310155
Silver	ND		1		1		06/15/00 16:59	E_B	310155

Run ID/Seq #: TJA_000615A-310155

Prep Method	Prep Date	Prep Initials
SW3050B	06/15/2000 13:00	MR

← Lead is over

Run ID/Seq #: TJAT_000616A-310555

Prep Method	Prep Date	Prep Initials
SW3050B	06/15/2000 13:00	MR

← chromium over

PURGEABLE AROMATICS				MCL	SW8021B		Units: ug/Kg		
Benzene	15		10		10		06/16/00 13:46	CJ	310598
Ethylbenzene	270		10		10		06/16/00 13:46	CJ	310598
Toluene	970		10		10		06/16/00 13:46	CJ	310598
Xylenes,Total	1160		10		10		06/16/00 13:46	CJ	310598
Surr: 1,4-Difluorobenzene	115	%	59-127		10		06/16/00 13:46	CJ	310598
Surr: 4-Bromofluorobenzene	165	%	48-156		10	*	06/16/00 13:46	CJ	310598
REACTIVE CYANIDE-SOLID				MCL	SW7.3.3.1		Units: mg/Kg		
Reactive Cyanide	ND		1		1		06/16/00 8:00	ES	310493
REACTIVE SULFIDE - SOLID				MCL	SW7.3.4.2		Units: mg/Kg		
Reactive Sulfide	ND		10		1		06/16/00 8:00	ES	310504

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:51 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID Clark Sump **Collected:** 6/14/00 9:00:00 **SPL Sample ID:** 00060378-01

Site: Maljamar Gas Plant

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
TPH TEXAS 1005			MCL	TX_EPH	Units: mg/Kg		
C6-C10	ND	500	10		06/15/00 15:08	AM	310210
> C10-C28	19000	500	10		06/15/00 15:08	AM	310210
Total (C6-C28)	19000	500	10		06/15/00 15:08	AM	310210

Run ID/Seq #: HP_B_000615B-310210

Prep Method	Prep Date	Prep Initials
TX_EPH	06/15/2000 10:00	CB

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:52 PM

Quality Control Documentation

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis: TPH Texas 1005
Method: TX_EPH

WorkOrder: 00060378
Lab Batch ID: 5420

Method Blank

RunID: HP_B_000615B-310100 Units: mg/Kg
Analysis Date: 06/15/2000 11:38 Analyst: AM
Preparation Date: 06/15/2000 10:00 Prep By: CB Method TX_EPH

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-01B	Clark Sump

Analyte	Result	Rep Limit
> C10-C28	ND	50
C6-C10	ND	50
Total (C6-C28)	ND	50

Laboratory Control Sample (LCS)

RunID: HP_B_000615B-310205 Units: mg/Kg
Analysis Date: 06/15/2000 14:30 Analyst: AM
Preparation Date: 06/15/2000 10:00 Prep By: CB Method TX_EPH

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
> C10-C28	500	480	95	70	130
C6-C10	500	410	82	70	130
Total (C6-C28)	1000	890	89	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00060363-02
RunID: HP_B_000615B-310108 Units: mg/Kg
Analysis Date: 06/15/2000 12:10 Analyst: AM
Preparation Date: 06/15/2000 10:00 Prep By: Method

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
> C10-C28	ND	500	440	88.1	500	460	91.4	3.73	30	70	130
C6-C10	ND	500	330	66.6*	500	340	68.1*	2.14	30	70	130
Total (C6-C28)	ND	1000	770	77.0	1000	800	80.0	3.82	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

8/21/00 12:03:55 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00060378
Lab Batch ID: R15794

Method Blank

RunID: HP_J_000616A-310587 Units: ug/Kg
Analysis Date: 06/16/2000 6:35 Analyst: CJ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-01A	Clark Sump

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	80.4	59-127
Surr: 4-Bromofluorobenzene	95.6	48-156

Laboratory Control Sample (LCS)

RunID: HP_J_000616A-310584 Units: ug/Kg
Analysis Date: 06/16/2000 5:12 Analyst: CJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	54	108	60	116
Ethylbenzene	50	59	119	68	127
Toluene	50	56	112	64	122
Xylenes,Total	150	181	121	68	129

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00060407-08
RunID: HP_J_000616A-310585 Units: ug/Kg
Analysis Date: 06/16/2000 5:38 Analyst: CJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20	96.2	20	18	88.3	8.52	34	35	139
Ethylbenzene	ND	20	20	98.5	20	19	92.3	6.49	35	31	137
Toluene	ND	20	20	99.7	20	18	90.3	9.88	28	31	137
Xylenes,Total	ND	60	61	102	60	57	95.0	6.78	38	19	144

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:55 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis: Metals by Method 6010B, Total
Method: SW6010B
WorkOrder: 00060378
Lab Batch ID: 5428

Method Blank

RunID: TJA_000615A-310151 Units: mg/Kg
Analysis Date: 06/15/2000 16:50 Analyst: E_B
Preparation Date: 06/15/2000 13:00 Prep By: MR Method SW3050B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-01B	Clark Sump

Analyte	Result	Rep Limit
Barium	ND	0.5
Cadmium	ND	0.5
Chromium	ND	1
Silver	ND	1

Laboratory Control Sample (LCS)

RunID: TJA_000615A-310152 Units: mg/Kg
Analysis Date: 06/15/2000 16:55 Analyst: E_B
Preparation Date: 06/15/2000 13:00 Prep By: MR Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	73.6	74.9	N/A	56.7	90.5
Cadmium	185	190	N/A	143	228
Chromium	50.7	48.4	N/A	35.7	65.7
Silver	149	140	N/A	110	188

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00060378-01
RunID: TJA_000615A-310158 Units: mg/Kg
Analysis Date: 06/15/2000 17:03 Analyst: E_B
Preparation Date: 06/15/2000 13:00 Prep By: MR Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	9.7	100	101	91.2	100	99.9	90.2	1.10	20	75	125
Cadmium	ND	100	87	87.0	100	86.9	86.9	.0587	20	75	125
Chromium	7.3	100	95.7	88.4	100	96.1	88.8	0.396	20	75	125
Silver	ND	100	87.9	87.4	100	88	87.6	0.202	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:56 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis: Metals by Method 6010B, Total
Method: SW6010B
WorkOrder: 00060378
Lab Batch ID: 5428-T

Method Blank

RunID: TJAT_000616A-310553 Units: mg/L
Analysis Date: 06/16/2000 13:00 Analyst: EG
Preparation Date: 06/15/2000 13:00 Prep By: MR Method SW3050B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-01B	Clark Sump

Analyte	Result	Rep Limit
Arsenic	ND	0.5
Lead	ND	0.5
Selenium	ND	0.5

Laboratory Control Sample (LCS)

RunID: TJAT_000616A-310554 Units: mg/Kg
Analysis Date: 06/16/2000 13:06 Analyst: EG
Preparation Date: 06/15/2000 13:00 Prep By: MR Method SW3050B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	58.6	58.2	N/A	41.1	76.1
Lead	56.6	61.7	N/A	43.1	70.1
Selenium	61.4	54.5	N/A	45.5	77.2

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00060378-01
RunID: TJAT_000616A-310556 Units: mg/Kg
Analysis Date: 06/16/2000 13:21 Analyst: EG
Preparation Date: 06/15/2000 13:00 Prep By: MR Method SW3050B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
rsenic	ND	200	176	87.8	200	178	88.6	0.840	20	75	125
ead	5.1	100	95.8	90.7	100	96.5	91.4	0.767	20	75	125
elenium	ND	200	160	80.1	200	162	80.9	0.929	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:56 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis: Mercury, Total
Method: SW7471A
WorkOrder: 00060378
Lab Batch ID: 5429

Method Blank

RunID: HGL_000616A-309834 Units: mg/Kg
Analysis Date: 06/16/2000 8:07 Analyst: PB
Preparation Date: 06/15/2000 14:30 Prep By: PB Method SW7471A

Analyte	Result	Rep Limit
Mercury	ND	0.033

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-01B	Clark Sump

Laboratory Control Sample (LCS)

RunID: HGL_000616A-309835 Units: mg/Kg
Analysis Date: 06/16/2000 8:07 Analyst: PB
Preparation Date: 06/15/2000 14:30 Prep By: PB Method SW7471A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	2.17	2.1	N/A	1.48	2.86

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 00060345-01
RunID: HGL_000616A-309839 Units: mg/Kg
Analysis Date: 06/16/2000 8:07 Analyst: PB
Preparation Date: 06/15/2000 14:30 Prep By: PB Method SW7471A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	0.074	0.33	0.422	105	0.33	0.42	105	0.317	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:55 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis:	Ignitability	WorkOrder:	00060378
Method:	SW1010	Lab Batch ID:	R

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-01B	Clark Sump

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:57 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis: Corrosivity
Method: SW9045C

WorkOrder: 00060378
Lab Batch ID: R15763

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-018	Clark Sump

Laboratory Control Sample (LCS)

RunID: WET_000615E-309919 Units: pH Units
Analysis Date: 06/15/2000 16:45 Analyst: C_V

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Corrosivity	7	7	101	99	101

Sample Duplicate

Original Sample: 00060391-01
RunID: WET_000615E-309922 Units: pH Units
Analysis Date: 06/15/2000 16:45 Analyst: C_V

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Corrosivity	8.3	8.3	0	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:57 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis: Reactive Cyanide-Solid
Method: SW7.3.3.1
WorkOrder: 00060378
Lab Batch ID: R15786

Method Blank

RunID: WET_000616A-310491 Units: mg/Kg
Analysis Date: 06/16/2000 8:00 Analyst: ES

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-01B	Clark Sump

Analyte	Result	Rep Limit
Reactive Cyanide	ND	1.0

Sample Duplicate

Original Sample: 00060391-01
RunID: WET_000616A-310494 Units: mg/Kg
Analysis Date: 06/16/2000 8:00 Analyst: ES

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Reactive Cyanide	ND	ND	0	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:57 PM

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

Conoco Inc.

Clark Sump

Analysis: Reactive Sulfide - Solid
Method: SW7.3.4.2
WorkOrder: 00060378
Lab Batch ID: R15787

Method Blank

RunID: WET_000616B-310502 Units: mg/Kg
Analysis Date: 06/16/2000 8:00 Analyst: ES

Samples In Analytical Batch:

Lab Sample ID	Client Sample ID
00060378-01B	Clark Sump

Analyte	Result	Rep Limit
Reactive Sulfide	ND	10

Sample Duplicate

Original Sample: 00060391-01
RunID: WET_000616B-310505 Units: mg/Kg
Analysis Date: 06/16/2000 8:00 Analyst: ES

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Reactive Sulfide	ND	ND	0	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

6/21/00 12:03:58 PM

Chain of Custody
And
Sample Receipt Checklist

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No: 000600378

100292

page 1 of 1

Client Name: Conoco Inc.

Address/Phone: P.O. Box 90 Maljamar, N.M. 505-676-3582

Client Contact: Rudy Quiroz

Project Name: Clark Sump

Project Number:

Project Location: Maljamar Gas Plant

Invoice To: Conoco Inc. P.O. Box 90 Maljamar 88264

matrix: W=water S=soil SL=sludge O=other:

bottle: P=plastic A=amber glass G=glass V=vial

size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz

pres.: 1=HCl 2=HNO3 3=H2SO4 O=other:

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX	RCRA Metals	RCI	TPH					
Clark Sump	6/14/00	9:00Am		X		G	4		1	X	X	X	X					
Clark Sump	6/14/00	9:00Am		X		G	8		1	X	X	X	X					
Clark Sump	6/14/00	9:00Am		X		G	40		3	X	X	X	X					

RUSH

Client/Consultant Remarks: Fax Copy of Results to Ashley Finnan 281-293-1214

Laboratory remarks:

Intact? ☐Y ☐N

Temp: 3

Requested TAT

24hr ☒ 72hr ☐

48hr ☐ Standard ☐

Other ☐ _____

Special Reporting Requirements: Fax Results ☐ Raw Data ☐ Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: Rudy Quiroz	date 6/14/00	time 9:30 Am	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date	time	6. Received by Laboratory: Donna Bell 6/15/00 1000

☒ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

☐ 459-Hughes Drive, Traverse City, MI 49684 (616) 947-5777

State of New Mexico
ENVIRONMENT DEPARTMENT
Hazardous and Radioactive Materials Bureau
Harold Runnels Building
2044 A Galisteo, P.O. Box 26110
Santa Fe, New Mexico 87502-6110
Telephone (505) 827-1567
Fax (505) 827-1544

GARY E. JOHNSON
GOVERNOR

PETER MAGGIORE
SECRETARY

PAUL R. RITZMA
DEPUTY SECRETARY

CERTIFIED MAIL
RETURN RECEIPT REQUIRED

January 26, 2000

Mr. Michael H. Nash
Koch Pipeline, L.P.
P.O. Box 2256
Wichita, Kansas 67201

RE: CRUDE OIL STORAGE TANK CLEAN-OUT PROJECT
KOCH PIPELINE, LEA COUNTY, NEW MEXICO

Dear Mr. Nash:

This letter is in response to a request by Koch Pipeline, L.P. (Koch) for concurrence that their proposed methods for testing, handling and disposal of residual storage tank bottoms are in accordance with regulatory requirements under the Resource Conservation and Recovery Act (RCRA). The request was made in a letter to the New Mexico Environment Department Hazardous and Radioactive Materials Bureau (HRMB) dated January 13, 2000. The tank bottoms are associated with nine ancillary aboveground storage tanks (ASTs) located on Koch's pipe line in Lea County, New Mexico. The tanks are being cleaned and/or demolished under the supervision of the New Mexico Department of Energy and Minerals Oil Conservation Division (OCD).

The methods for testing and disposal of the residual tank bottoms outlined in the letter are satisfactory. HRMB requires that the waste generated during AST cleaning and demolition be analyzed for characteristic hazardous waste as defined in 40 CFR §§261.20 through 261.24 (incorporated at 20 NMAC 4.1.200) prior to disposal. Waste identified as characteristic hazardous waste must be manifested and transported for disposal at a permitted Subtitle C treatment, storage or disposal (TSD) facility. Koch Industries, Inc. must comply with the terms and conditions outlined by OCD for handling and disposal of crude product and nonhazardous tank residuals.

Michael H. Nash
Koch Pipeline, L.P.
January 26, 2000

Please call this office at (505) 827-1561 if you have questions regarding the conditions for approval listed above.

Sincerely,

David W. Cobrain
Environmental Specialist
Hazardous and Radioactive Materials Bureau

cc: James P. Bearzi, NMED HRMB
John E. Kieling, NMED HRMB
Martyne Kieling, NMOCD
Debby Brinkerhoff, NMED HRMB

file: generator2006/KOCH/00
Track: Koch/Nash/Cobrain/01-26-00/approval AST waste handling

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
JUN 14 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ — Monty and Kelly Verbal Approval Received: Yes ☒ No ☐	4. Generator *Chaparral Services, Inc.* 5. Originating Site *See below*
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter Superior
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) *See below*	

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:

06-002

10 yards rocks and caliche with approximately 3 gallons of motor oil and transmission oil spilled from truck overturn, 15 miles northwest of Marathon Indian Basin gas plant in Eddy Co., NM on lease road BLM surface owner. MSDS for oils enclosed.

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

SIGNATURE: Carmella Van Maanen TITLE: *Bookkeeper* DATE: *06-08-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environm. Engineer Specialist DATE: 06-09-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 06-14-00

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

COMPANY / GENERATOR Chaparral Services, Inc.

ADDRESS Eunice, New Mexico

GENERATING SITE Eddy Co., NM See C138

COUNTY Eddy STATE NM

TYPE OF WASTE Rocks, Clachie - Oils

ESTIMATED VOLUME 10 yards

GENERATING PROCESS Truck Overturn

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Superior

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 Charles L. Fechaube
PRINTED

ADDRESS Chaparral Service Inc
PO. Box 1769 Eunice, NM 88231

DATE 5/31/00

Conoco Inc.

MOTC0090 Revised 04-Dec-92 Printed 08-Dec-92

FLEET HEAVY DUTY MOTOR OIL

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information Transport Emergency Medical Emergency	1-(713)293-5550 1-(800)424-9300 1-(800)441-3637
Chemical Family	Petroleum Hydrocarbon	
Trade Names and Synonyms	Product Codes: 6210/6211/6220/6230/6240/6244/6245/ 6250/6260/6261/6265/6266 Grades: SAE 10W, 10W LP, 10W-30, 15W-40, 20W-20, 30, 40, 50; 10 TBN SAE 15W-40, 10W-30, 30, 40	
NFPA Ratings	Health: 0 Flammability: 1 Reactivity: 0	
NPCA-HMIS Ratings	Health: 1 Flammability: 1 Reactivity: 0 Personal Protection rating to be supplied by user depending on use conditions.	
WHMIS Classification	This is not a WHMIS controlled product.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number
Oil Mist, if generated	DP5017-68-9

Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

(continued)

PHYSICAL DATA

Boiling Point	>520 to 1200°F
Vapor Pressure	Nil
Vapor Density	>1 (Air = 1.0)
% Volatiles	Nil
Evaporation Rate	Nil
Water Solubility	Insoluble
Odor	Mild Petro. Hydrocarbon
Form	Liquid
Color	Dark Amber to Dark Brown
Specific Gravity	0.87-0.90 @ 60 deg F

HAZARDOUS REACTIVITY

Instability	Stable at normal temperatures and storage conditions.
Incompatibility	Incompatible with strong oxidizing materials. Avoid heat, sparks, and flame.
Decomposition	Combustion forms oxides of carbon and may produce small quantities of oxides of nitrogen, phosphorus, sulfur, and zinc.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	340 deg F
Method	PMCC
Autoignition	650 deg F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO_2.
Special Fire Fighting Instructions	Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

(continued)

HEALTH HAZARD INFORMATION

Primary Route of Exposure/Entry: Skin, inhalation.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

Animal Studies:

Mouse skin painting studies have shown that highly solvent-refined petroleum lubricating oils, which are similar to ingredients in this product, have not caused skin tumors.

"Used" Motor Oil:

Laboratory studies with mice have shown that "used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "used" motor oil was not removed between applications. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Applicable Exposure Limits	
Oil Mist, if generated	
AEL * (Du Pont)	5 mg/m3 - 8 & 12 Hr. TWA
TLV (ACGIH)	5 mg/m3 - 8 Hr. TWA, STEL 10 mg/m3
	See Notice of Intended Changes (1992-93)
	5 mg/m3 - 8 Hr. TWA, severely refined
PEL (OSHA)	5 mg/m3 - 8 Hr. TWA

* AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	Wash thoroughly with soap and water after handling. If irritation develops, consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

(continued)

FIRST AID (continued)

Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult. Acute aspiration of large amounts of oil laden material may produce a serious aspiration pneumonia; however, the chances of this occurring are quite unlikely.

PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions	Ventilation: Normal shop ventilation.
Personal Protective Equipment	Respiratory Protection: None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below acceptable limits. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors. Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin contact. NBR or Neoprene recommended. Eye/Face Protection: Safety glasses with side shields if splashing is probable. Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse. Other Precautions: Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release	NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.
Waste Disposal	Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

(continued)

SHIPPING INFORMATION

DOT

Proper Shipping Name	Not regulated.

IATA/IMO

Proper Shipping Name	Not restricted.

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations. Do not store with strong oxidizing materials.

Store in cool, dry, well-ventilated area, away for heat and all sources of ignition. Keep container closed. Store only in approved containers.

Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container.

"Empty" container retains residue (liquid and/or vapor) and may explode in heat of a fire. Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

TITLE III HAZARD CLASSIFICATIONS

Acute	No
Chronic	No
Fire	No
Reactivity	No
Pressure	No

REGULATORY INFORMATION

OSHA HAZARD DETERMINATION
Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CLEAN AIR ACT, 40 CFR 50, SECTIONS 112, 114
The material is not known to contain a Hazardous Air Pollutant in sufficient quantity to make it subject to CAA regulations.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT, (CERCLA/SUPERFUND), 40 CFR 302
Not applicable; this material is covered by the CERCLA petroleum exclusion. Releeses are not reportable.

(continued)

REGULATORY INFORMATION (continued)

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)
The material is not known to contain extremely hazardous substances at greater than 1.0% concentration.

SECTION 313 - List of Toxic Chemicals (40 CFR 372)
The material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements.

Toxic Chemical	: Zinc Dialkyl Dithiophosphate
CAS Registry Number	: 68649-42-3
Approximate Concentration (Upper Bound)	: 2.7%

TOXIC SUBSTANCES CONTROL ACT (TSCA)(40 CFR 710)
The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory (40 CFR 710) and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies of the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D
The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable or reactive according to U.S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311.
The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient	: Petroleum Hydrocarbons
Reportable Quantity	: Film or sheen upon or discoloration of the water surface or adjoining shoreline.

STATE REGULATIONS

(continued)

REGULATORY INFORMATION (continued)

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")
This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT
The material contains the following ingredient(s) found on the Pennsylvania Worker and Community Right-to-Know Act Hazardous Substances List:

Ingredient	: Zinc Dialkyl Dithiophosphate
CAS Registry Number	: 68649-42-3
Category	: Environmental Hazard

Non-hazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of Pennsylvania Worker and Community Right to Know Act.

ADDITIONAL INFORMATION AND REFERENCES

Product Use : Motor Oil

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

MSDS Administrator
Conoco Inc.
PO Box 2197
Houston, TX 77252
713/293-5550

End of MSDS

Conoco Inc.

LUBC0415 Revised 04-Nov-92 Printed 26-Jan-93

UNIVERSAL GEAR LUBRICANT

MATERIAL IDENTIFICATION

Manufacturer/Distributor	Conoco Inc. P.O. Box 2197 Houston, TX 77252	
Phone Numbers	General Information Transport Emergency Medical Emergency	1-(713)293-5550 1-(800)424-9300 1-(800)441-3637
Grade	80W-90, 85W-140	
Chemical Family	Petroleum Hydrocarbons	
Trade Names and Synonyms	7650, 7651 UGL	
CAS Number	Mixture	
NFPA Ratings	Health: 0 Flammability: 1 Reactivity: 0	
NPCA-HMIS Ratings	Health: 1 Flammability: 1 Reactivity: 0 Personal Protection rating to be supplied by user depending on use conditions.	
WHMIS Classification	This is not a WHMIS controlled product.	

OSHA HAZARD DETERMINATION

Hazardous Ingredients	CAS Number
Oil Mist, if generated	DP5017-68-9
	Under normal conditions of use, material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

(continued)

HEALTH HAZARD INFORMATION

Primary Route of Exposure/Entry: Skin, inhalation.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

Animal Studies:

Mouse skin painting studies have shown that highly solvent-refined petroleum lubricating oils, which are similar to ingredients in this product, have not caused skin tumors.

Carcinogenicity	None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.
Applicable Exposure Limits	
Oil Mist, if generated	
AEL* (Du Pont)	5 mg/m3 - 8 & 12 Hr. TWA
TLV (ACGIH)	5 mg/m3 - 8 Hr. TWA, STEL 10 mg/m3 See Notice of Intended Changes (1992-93) 5 mg/m3 - 8 Hr. TWA, severely refined
PEL (OSHA)	5 mg/m3 - 8 Hr. TWA
* AEL is Du Pont's Acceptable Exposure Limit.	Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.
Safety Precautions	Wash thoroughly after handling. Wash clothing after use.

FIRST AID

Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Skin Contact	Wash thoroughly with soap and water after handling. If irritation develops, consult a physician.
Eye Contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion	If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.
Notes to Physician	Activated charcoal slurry may be administered. To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly. Administer 5mL/kg, or 350mL for an average adult.

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PHYSICAL DATA

Boiling Point	750 to 1200°F
Vapor Pressure	Nil
Vapor Density	>1 (Air = 1.0)
% Volatiles	Nil
Evaporation Rate	Nil
Water Solubility	Insoluble
Odor	Mild Petro. Hydrocarbon
Form	Viscous Liquid
Color	Dark brown
Specific Gravity	0.89 (Water = 1)

HAZARDOUS REACTIVITY

Instability	Stable.
Incompatibility	Incompatible with strong oxidizing materials. Avoid heat, sparks, and flame.
Decomposition	Incomplete combustion may produce carbon monoxide.
Polymerization	Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point	280°F
Method	PMCC
Autoignition	680°F
Fire and Explosion Hazards	Class IIIB Combustible Liquid (NFPA).
Extinguishing Media	Water Spray. Foam. Dry Chemical. CO_2.
Special Fire Fighting Instructions	Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures. Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

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PROTECTION INFORMATION

Generally Applicable Control Measures and Precautions	Ventilation: Normal shop ventilation.
Personal Protective Equipment	Respiratory Protection: None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below acceptable limits. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors. Protective Gloves: Should be worn when the potential exists for prolonged or repeated skin contact. NBR or Neoprene recommended. Eye/Face Protection: Safety glasses with side shields if splashing is probable. Other Protective Equipment: Coveralls with long sleeves if splashing is probable. Launder contaminated clothing before reuse.

SPILL, LEAK AND DISPOSAL INFORMATION

Spill, Leak, or Release	NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.
Waste Disposal	Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

SHIPPING INFORMATION

DOT Proper Shipping Name	Not regulated.
IATA/IMO Proper Shipping Name	Not restricted.

STORAGE CONDITIONS

Store in accordance with National Fire Protection Assn regulations.

(continued)

TITLE III HAZARD CLASSIFICATIONS

Acute	No
Chronic	No
Fire	No
Reactivity	No
Pressure	No

REGULATORY INFORMATION

OSHA HAZARD DETERMINATION
Under normal conditions of use, material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CLEAN AIR ACT, 40 CFR 50, SECTIONS 112, 114
The material is not known to contain a Hazardous Air Pollutant.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPRFUND), 40 CFR 302
Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTIONS 302, 304, 313

SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)
The material is not known to contain extremely hazardous substances.

SECTION 313 - List of Toxic Chemicals (40 CFR 372)
The material is not known to contain chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to toxic chemical release reporting requirements.

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(continued)

REGULATORY INFORMATION (continued)

listed hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 116.4A, Section 311
The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient	: Petroleum Hydrocarbons
Reportable Quantity	: Film or sheen upon or discoloration of the water surface or adjoining shoreline.

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")
The material is not known to contain ingredient(s) subject to the Act.

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT
This material is not known to contain any ingredient(s) subject to the Act. Non-hazardous ingredient(s) information is withheld as trade secret in accordance with Section 11 of the Pennsylvania Worker and Community Right to Know Act.

ADDITIONAL INFORMATION AND REFERENCES

Product Use: Petroleum Lubricating Oil

The above data are based on tests, experience, and other information which Conoco believes reliable and are supplied for informational purposes only. However, some ingredients may have been purchased or obtained from third-party manufactures. In these instances, Conoco, in good faith, relies on information provided by those third parties. Since conditions of use are outside our control, CONOCO DISCLAIMS ANY LIABILITY FOR DAMAGE OR INJURY WHICH RESULTS FROM USE OF THE ABOVE DATA. NOTHING CONTAINED HEREIN SHALL CONSTITUTE A GUARANTEE, WARRANTY (INCLUDING WARRANTY OF MERCHANTABILITY) OR REPRESENTATION (INCLUDING FREEDOM FROM PATENT LIABILITY) BY CONOCO WITH RESPECT TO THE DATA, THE MATERIAL DESCRIBED, OR ITS USE FOR ANY SPECIFIC PURPOSE, EVEN IF THAT PURPOSE IS KNOWN TO CONOCO.

Responsibility for MSDS:

MSDS Administrator
Conoco Inc.
PO Box 2197
Houston, TX 77252
713/293-5550

End of MSDS

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
JUN 30 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator *Drive Train, Inc.*
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site *125 S. Cochran, Hob*
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter *Unknown*
3. Address of Facility Operator *P.O. Box 388, Hobbs*	8. State *New Mexico*
7. Location of Material (Street Address or ULSTR) *125 S. Cochran, Hobbs*	*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:

06-004

Contaminated soil from spill.

Enclosed please find certificate of waste status, analytical results from Cardinal Labortories 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: *Carmella Van Maanen* TITLE: *Bookkeeper* DATE: *06-27-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: *Donna Williams* TITLE: *Environmental Engineer Specialist* DATE: *06-28-00*

DENIED

APPROVED BY: _____ TITLE: _____ DATE: *06-30-00*

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

COMPANY / GENERATOR Drive Train, Inc.

ADDRESS 125 S. Cochran, Hobbs, NM 88240

GENERATING SITE

COUNTY Lea STATE Nm

TYPE OF WASTE Contaminated soil from spill

ESTIMATED VOLUME 10 yards

GENERATING PROCESS

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Unknown

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 Louis Sosa Jr.
SIGNATURE

NAME Louis Sosa Jr.
PRINTED

ADDRESS 125 S. Cochran

Hobbs, NM

DATE 6-27-2000

CARDINAL 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) 393-3619

Receiving Date: 06/15/00
Reporting Date: 06/23/00
Project Owner: DRIVE TEAM
Project Name: DRIVE TEAM
Project Location: ~~1125~~ 125 COCHRAN, HOBBS, NM

Sampling Date: 06/15/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
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:		06/22/00	06/19/00	06/19/00	06/19/00	06/19/00	06/19/00	06/21/00	06/22/00
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4941-1	SOIL #1	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.198	4.488	50.22	0.563	1.022	2.576	0.0092	0.198
True Value QC		0.200	5.000	50.00	0.500	1.000	3.000	0.0100	0.200
% Recovery		99.0	89.8	100	113	102	85.9	92.0	94.5
Relative Standard Deviation		7.2	4.8	3.4	2.6	1.9	5.4	5.7	9.2
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

06/23/2000
Date

H4941M.XLS

CARDINAL 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) 393-3619

Receiving Date: 06/15/00
Reporting Date: 06/23/00
Project Owner: DRIVE TEAM
Project Name: DRIVE TEAM
Project Location: ~~1425~~ 125 COCHRAN, HOBBS, NM

Sampling Date: 06/15/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH/BC

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		06/23/00	06/23/00	06/21/00	06/21/00
H4941-1	SOIL #1	Not reactive	Not reactive	6.60	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	0.2	NR

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

Chemist

6/23/00
Date

H4944RXLS

CARDINAL 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) 393-3619

Receiving Date: 06/15/00
Reporting Date: 06/19/00
Project Owner: DRIVE TEAM
Project Name: DRIVE TEAM
Project Location: ~~142~~5 COCHRAN, HOBBS, NM
Lab Number: H4941-1 125
Sample ID: SOIL #1

Analysis Date: 06/16/00
Sampling Date: 06/15/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4941-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.005	<0.005	0.012	24	0.050
1,4-Dichlorobenzene	7.50	<0.005	<0.005	0.028	56	0.050
o-Cresol	200	<0.005	<0.005	0.034	68	0.050
m, p-Cresol	200	<0.005	<0.005	0.030	60	0.050
Hexachloroethane	3.00	<0.005	<0.005	0.021	42	0.050
Nitrobenzene	2.00	<0.005	<0.005	0.045	90	0.050
Hexachloro-1,3-butadiene	0.500	<0.005	<0.005	0.019	38	0.050
2,4,6-Trichlorophenol	2.00	<0.005	<0.005	0.046	92	0.050
2,4,5-Trichlorophenol	400	<0.005	<0.005	0.043	86	0.050
2,4-Dinitrotoluene	0.130	<0.005	<0.005	0.047	94	0.050
Hexachlorobenzene	0.130	<0.005	<0.005	0.042	84	0.050
Pentachlorophenol	100	<0.005	<0.005	0.045	90	0.050

	% RECOVERY
Fluorophenol	32
Phenol-d5	24
Nitrobenzene-d5	59
2-Fluorobiphenyl	64
2,4,6-Tribromophenol	64
Terphenyl-d14	94

METHODS: EPA SW 846-8270, 1311, 3510

Burgess J. A. Cooke, Ph. D.

6/19/00
Date

CARDINAL 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) 393-3619

Receiving Date: 06/15/00
Reporting Date: 06/19/00
Project Owner: DRIVE TEAM
Project Name: DRIVE TEAM
Project Location: ~~1~~425 COCHRAN, HOBBS, NM
Lab Number: H4941-1 125
Sample ID: SOIL #1

Analysis Date: 06/16/00
Sampling Date: 06/15/00
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4941-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.095	95	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Methyl Ethyl Ketone	200	0.061	<0.050	0.114	114	0.100
Chloroform	6.0	<0.005	<0.005	0.094	94	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.094	94	0.100
Benzene	0.5	<0.005	<0.005	0.093	93	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.091	91	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.100	100	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.099	99	0.100
Chlorobenzene	100	<0.005	<0.005	0.104	104	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.105	105	0.100

	% RECOVERY
Dibromofluoromethane	98
Toluene-d8	106
Bromofluorobenzene	96

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

6/19/00
Date

CARDINAL 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_____ of _____

Company Name: CRI	
Project Manager: I	BILL TO PO #:
Address: Box 388	Company: CRI
City: Hobbs NM State: Zip:	Attn:
Phone #: 393 1079	Address:
Fax #: 393 3615	City:
Project #: Drive Team Project Owner: Same	State: Zip:
Project Name:	Phone #:
Project Location: 125 S Cochran Hobbs NM	Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TCLP	RCI
H4944	Soil #1	X				X					X		6/5/00	10:50A	X	X

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 6/5/00 Time: 11:05A	Received By:
Relinquished By:	Date: Time:	Received By: (Lab Staff)
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS:

† 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
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(505) 827-7131

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator *ESP*
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site *Midland, TX*
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter *Unknown*
3. Address of Facility Operator *P.O. Box 388, Hobbs*	8. State *New Mexico*
7. Location of Material (Street Address or ULSTR) *17 Levin Road, ESP Yard*	*Midland, 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:

06-001

Filter sand from wash out submergable pumps. This material has been approved before (2-18-00). Previous C-138 attached. Full packet submitted on 02-07-00.

393-3615

Estimated Volume *12 yards* cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: *Carmella Van Maanen* TITLE: *Bookkeeper* DATE: *06-07-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: *Martyn J. Kirby* TITLE: *Environmental Geologist* DATE: *6-15-00*

(505) 393-61c
1980
NM 88241-1980
II (505) 748-1283
First
esia, NM 88210
District III - (505) 334-6178
000 Rio Brazos Road
Aztec, NM 87410
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator *ESP
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site MIDLAND, TEXAS
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter UNKNOWN
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) *ESP MIDLAND*	*TEXAS*

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:

02-004

SAMPLE 138938 SPILL SOIL IS FROM A SPILL OF WATER AND CRUDE OIL AND SOIL.

10 YARDS APPROXIMATELY.

02-005

SAMPLE 138939 FILTER SAND. IS FROM SHOP AREA FROM WASHOUT OUT SUB. PUMPS.

8 - 55 GALLON DRUMS

02-006

SAMPLE 138940 BLAST SAND IS FROM REPAIR SHOP. 5 YARDS APPROXIMATELY.

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

SIGNATURE: Kath Harper TITLE: *BOOKKEEPER* DATE: *2-7-00*
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: 02-15-00

APPROVED BY: Martyne J. King TITLE: Environmental Geologist DATE: 02-18-00

CRI rec'd back 2-29-00

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

COMPANY / GENERATOR ESP, Inc.

ADDRESS 17 Levin Rd., Midland, TX 79703

GENERATING SITE Same

COUNTY Midland STATE TX

TYPE OF WASTE Washout sand

ESTIMATED VOLUME 12 yards

GENERATING PROCESS Washing of pumps, process has not been changed.

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY ~~Unknown~~ Petroplex Pipe & Const

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 Roy Green
SIGNATURE

NAME Roy Green
PRINTED

ADDRESS 17 Levin Road

Midland, TX 79703

DATE 06-07-00

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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 New Mexico
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:

05-009

Pipe Scale generated by scraping rust from pipes.

I am enclosing Certificate of Waste Status, copy of the last C-138, and copy of Norm Certificate.

The system and process have not changed.

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

SIGNATURE: *Carmella Van Maanen* TITLE: *Bookkeeper* DATE: *05-25-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: *Martyne J Kieling* TITLE: *Environmental Geologist* DATE: *6-15-00*

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. 505/393-1079

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 05-25-00

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☐	4. Generator Weatherford Odessa Pipe Plant 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: 12-20-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 12-17-99

Amarillo
4104 West 33rd Street
Amarillo, Texas 79109
(806) 467-0607
Fax (806) 467-0622

Environmental

Llano -Permian Environmental

Midland
1031 Andrews Highway, Suite 115
Midland, Texas 79701
(915) 522-2133
Fax (915) 522-2180

December 2, 1999

Mr. Ken Marsh
Controlled Recovery, Inc.
PO Box 388
Hobbs, New Mexico 88241

Re: Waste Disposal Approval

Llano-Permian Environmental Services requests approval to dispose of 40 cubic yards of pipe scale generated by Weatherford Enterra – Pipeplant. Weatherford has generated this waste from knocking rust from pipes.

Weatherford generates waste at 8870 W Loop 338
Odessa, Ector County, TX 79762
TX ID # 75327
EPA ID # TXD988025755

The transporter of this waste will be Controlled Recovery, Inc. at:

PO Box 388
Hobbs, New Mexico 88241
505/393-1079

A radioactivity test was run, all readings showed ten (10) m/r.

Please find the attached copies of the certificate of waste, analytical data, and chain of custody forms. Should you require additional information or have any questions please contact me at 915/522-2133.

Sincerely,
LLANO-PERMIAN ENVIRONMENTAL SERVICES

Melinda Beggs

Melinda Beggs
Environmental Technician

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
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator *Weatherford*
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site *Hobbs Yard*
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter CRI
3. Address of Facility Operator P.O. Box 388, Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) *3000 W. County Road, Hobbs*	*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:

05-008

Slump sludge generated from the steam cleaning of oilfield tools.

I am enclosing certificate of waste status and prior C-138 where Martyne Keiling has approved this waste stream until January 2001. The date of the full packet is 02-10-00.

The system and process have not changed.

Estimated Volume *200 BBLS.* cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: *Carmella Van Maanen* TITLE: *Bookkeeper* DATE: *05-25-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: *Martyne J. Kieling* TITLE *Environmental Geologist* DATE: *6-15-00*

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WEATHERFORD
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS YARD
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter CONTROLLED RECOVERY, INC
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 3000 W. COUNTY RD. HOBBS	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:

04-003

SUMP SLUDGE GENERATED FROM THE STEAM CLEANING OF OILFIELD TOOLS.

I AM ENCLOSING CERTIFICATE OF WASTE STATUS AND PRIOR C-138 WHERE MARTYNE KIELING HAS APPROVED THIS WASTE STREAM UNTIL JANUARY 2001.

THE SYSTEM AND PROCESS HAVE NOT CHANGED.

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: 4-12-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. 505-303-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ Eng. Specialist DATE: 4-13-00

APPROVED BY: Marilyn J. Kelly TITLE: Environmental Geologist DATE: 4-13-00

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

COMPANY / GENERATOR Weatherford

ADDRESS 3000 W. County Rd. Hobbs, NM 88240

GENERATING SITE 3000 W. County Rd. Hobbs

COUNTY Lea STATE NM

TYPE OF WASTE Sump Sludge

ESTIMATED VOLUME 200 Barrels

GENERATING PROCESS Washing/Steam Cleaning of Oilfield Tools

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 2613.

AGENT Mandy Halladay
SIGNATURE

NAME Mandy Halladay
PRINTED

ADDRESS 3000 W. County Rd.

Hobbs, NM 88240

DATE 05-25-00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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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 of of servicing equipment. I am enclosing a Certificate of Waste Status, letter from the NMOCD extending the life of the sampling analysis, and copy of the last C-138. This material has been approved in the past.

05-007

Estimated Volume 200 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: Bookkeeper DATE: 05-25-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Carmella Van Maanen TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng Specialist DATE: 05-30-00

APPROVED BY: Martyn J. Kurtz TITLE: Environmental Geologist DATE: 06-5-00

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. 1st
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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Oil Conservation Division

Form C-1
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to appropr
District Of

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 NEW MEXICO
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.

01-2005

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: 1-27-00
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: Environm. Eng. Specialist DATE: 02-01-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 02-10-00

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(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,

Martyne J. Kieling
Environmental Geologist

xc: Hobbs OCD Office
Artesia OCD Office

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

COMPANY / GENERATOR BJ 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 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 2613.

AGENT Terry Britton
SIGNATURE

NAME Terry Britton
PRINTED

ADDRESS 2401 Sivley
Artesia N.M. 88210

DATE 05-25-00

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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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 *Hobbs facility*
2. Management Facility Destination *Controlled Recovery, Inc.*	6. Transporter *CRI*
3. Address of Facility Operator *P.O. Box 388*	8. State *New Mexico*
7. Location of Material (Street Address or ULSTR) *2708 W. County Rd., Hobbs*	*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:

The following analytical is from the BJ Services Hobbs facility. The material was generated by washing trucks. This material has been approved in the past. I have included a certificate of waste and copy of the last C-138.

05-006

Estimated Volume *225 bbls.* cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Carmella Van Maanen TITLE: *Bookkeeper* DATE: *05-25-00*
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: *Carmella Van Maanen* TELEPHONE NO. *(505) 393-1079*

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 05-30-00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 6-5-00

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

COMPANY / GENERATOR BJ Services

ADDRESS 2708 West County Road, Hobbs, NM

GENERATING SITE Wash Bay

COUNTY Lea STATE NM

TYPE OF WASTE Wash Bay Wastewater

ESTIMATED VOLUME 225 bbls.

GENERATING PROCESS Washing trucks

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 2613.

AGENT Kenny Hournbuckle
SIGNATURE

NAME Kenny Hournbuckle
PRINTED

ADDRESS 2708 West County Rd.

Hobbs, NM 88240

DATE 05-25-00

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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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 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	

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 Hobbs facility. The material was generated by washing trucks. This material has been approved in the past. I have included a certificate of waste & a chain of custody.

04-033

Estimated Volume 225 bbls. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: K Marsh TITLE: Manager DATE: 4-26-99
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: Environmental Eng. DATE: 5-5-99

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 5-3-99

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
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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Oil Conservation Division

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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 NEW MEXICO
7. Location of Material (Street Address or ULSTR) 923 SANGER, HOBBS	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:

05-005
THE FOLLOWING ANALYTICAL IS FROM THE LG&E HOBBS PLANT. THE WASTE WAS GENERATED BY RAIN WATER AND/OR WASHDOWN WATER. INCLUDED IS A CERTIFICATE OF WASTE, ANALYTICAL DATA AND A CHAIN OF THIS MATERIAL HAS BEEN APPROVED IN THE PAST.

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: 5-10-00
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: Environm. Engineer Specialist DATE: 05-12-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 05-18-00

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 Apex Station

COUNTY Lea STATE NM

TYPE OF WASTE Wastewater

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS 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 88240

DATE 5-10-00

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CRC

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

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: 02/23/99
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

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: 02/26/99
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 PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
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

2/26/99
Date

H4035M.XLS

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: 02/25/99
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 PLANT	Not reactive	Not reactive	8.74	>140
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

2/25/99
Date

H4035R.XLS

CARDINAL LABORATORIES, INC.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: SES, Inc
Project Manager: Dyke Browning
Address:
City: State: Zip:
Phone #:
Fax #:
Project #: Project Owner:
Project Name: LG&E Natural
Project Location: Various

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Complete TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Apex Gold Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:45p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature] Date: 2/22/99 Time: 3:30p
Relinquished By: [signature] Date: 2/22/99 Time: 3:30
Received By:
Received By: (Lab Staff) [signature]
Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS: All samples taken with Coliwasa From top entry of tank

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

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/

Submit Origi
Plus 1 Co
to appropri
District Off

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APR 28 2000
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 GRAMMA RIDGE #2
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter KEY
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 921 SANGER, 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:

04-005

THE FOLLOWING ANALYTICAL DATA IS FROM THE GRAMMA RIDGE #2 FACILITY. THE WASTE WAS GENERATED BY RAIN AND WASH DOWN WATER. INCLUDED IS A CERTIFICATE OF WASTE, ANALYTICAL AND CHAIN OF CUSTODY.

Estimated Volume 200 BBLS. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: BOOKKEEPER DATE: 4-24-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 04-27-00

APPROVED BY: Martyn J. Zelepo TITLE: Environmental Geologist DATE: 4-28-00

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 88240

GENERATING SITE GRM #2

COUNTY LEA STATE NM

TYPE OF WASTE NON-EXEMPT NON-HAZ. Liquid

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS WASH DOWN & RAIN WATER

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services, 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 _____
SIGNATURE

NAME Ed SLOMAN
PRINTED

ADDRESS 921 W. SANGER
HOBBS, NM 88240

DATE 4-24-00

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 W. GRIMES
HOBBS, NM 88240
FAX TO: (505) 391-7954

Receiving Date: 03/07/00
Reporting Date: 03/08/00
Project Owner: LG & E
Project Name: GRAMMA RIDGE
Project Location: LEA CO. NM
Lab Number: H4697-2
Sample ID: LG & E G.R. #2

Analysis Date: 03/07/00
Sampling Date: 03/07/00
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4697-2	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.083	83	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.093	93	0.100
Methyl Ethyl Ketone	200	0.251	<0.050	0.087	87	0.100
Chloroform	6.0	<0.005	<0.005	0.097	97	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.099	99	0.100
Benzene	0.5	0.057	<0.005	0.101	101	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.101	101	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.103	103	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.103	103	0.100
Chlorobenzene	100	<0.005	<0.005	0.100	100	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.100	100	0.100

	% RECOVERY
Dibromofluoromethane	79
Toluene-d8	88
Bromofluorobenzene	87

METHODS: EPA SW 846-8260, 1311

Burgess J.A. Cooke, Ph. D.

3/8/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 W. GRIMES
HOBBS, NM 88240
FAX TO: (505) 391-7954

Receiving Date: 03/07/00
Reporting Date: 03/09/00
Project Owner: LG & E
Project Name: GRAMMA RIDGE
Project Location: LEA CO. NM
Lab Number: H4697-2
Sample ID: LG & E G.R. #2

Analysis Date: 03/08/00
Sampling Date: 03/07/00
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4697-2	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.004	8	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.032	64	0.050
o-Cresol	200	<0.020	<0.005	0.031	62	0.050
m, p-Cresol	200	<0.020	<0.005	0.032	64	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.027	54	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.035	70	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.042	84	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.046	92	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.045	90	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.056	112	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.057	114	0.050
Pentachlorophenol	100	<0.020	<0.005	0.044	88	0.050

	% RECOVERY
Fluorophenol	38
Phenol-d5	41
Nitrobenzene-d5	106
2-Fluorobiphenyl	99
2,4,6-Tribromophenol	74
Terphenyl-d14	112

METHODS: EPA SW 846-8270, 1311, 3510

Burgess J. A. Cooke
Burgess J. A. Cooke, Ph. D.

3/9/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 N. GRIMES
HOBBS, NM 88240
FAX TO: (505) 391-7954

Receiving Date: 03/07/00
Reporting Date: 03/15/00
Project Owner: LG & E
Project Name: GRAMMA RIDGE
Project Location: LEA CO., NM

Sampling Date: 03/07/00
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/09/00	03/09/00	03/08/00	03/10/00
H4697-1	LG & E GR #1	Not reactive	Not reactive	7.07	>140
ANALYSIS DATE:		03/09/00	03/09/00	03/08/00	03/14/00
H4697-2	LG & E GR #2	Not reactive	Not reactive	5.74	>140*
Quality Control		NR	NR	7.02	80**
True Value QC		NR	NR	7.00	81±2
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0	NR

*Sample submitted 03/14/00.
**Flash point of p-Xylene

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

3/15/00
Date

H4697RALS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 N. GRIMES
HOBBS, NM 88240
FAX TO: (505) 391-7954

Receiving Date: 03/07/00
Reporting Date: 03/10/00
Project Owner: LG & E
Project Name: GRAMMA RIDGE
Project Location: LEA CO., NM

Sampling Date: 03/07/00
Sample Type: WASTEWATER
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:		03/09/00	03/09/00	03/09/00	03/09/00	03/09/00	03/09/00	03/10/00	03/09/00
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4697-1	LG & E GR #1	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4697-2	LG & E GR #2	<1	<1	<10	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.196	1.087	24.24	1.011	4.905	4.485	0.0109	0.206
True Value QC		0.100	1.000	25.00	1.000	5.000	5.000	0.0100	0.200
% Recovery		98	109	97	101	98	90	109	103
Relative Standard Deviation		2.0	1.1	1.5	0.7	0.3	0.9	5.5	0.4
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

03/10/2000
Date

H4697M.XLS

CARDINAL 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

Company Name: LG&E	BILL TO
Project Manager: Dyke	P.O. #:
Address:	Company: ~~LG&E~~
City: Hobbs State: NM Zip:	Attn: Compliance
Phone #: 393-2531 Fax #:	Address: Services
Project #: Project Owner:	City:
Project Name:	State: Zip:
Project Location:	Phone #:
Sampler Name:	Fax #:

ANALYSIS REQUEST: Tyntability

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME
H4713-1	Gramma Ridge	G	1		X						X		3/13	4:20

Re-sample of H4697-2 reported under that no.

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature]	Date: 3/13 Time: 4:20p	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By: (Lab Staff) [signature]	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

CARDINAL 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

Company Name: Compliance Services
Project Manager: Dyke
Address: 1220 N. Grimes
City: Hobbs State: Zip: 88240
Phone #: 391-7797
Fax #: 391-7954
Project #: ~~Gramma R~~ Project Owner: LG&E
Project Name: GRAMMA Ridge
Project Location: Lea Co, NM

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TCLP
H-4697-1	LG&E GR #1	G	4		X						X		3/7	11:00am	X
H-4697-2	LG&E G.R. #2	G	4		X						X		3/7	12:30p	X

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature] Date: 3/7/00 Time: 1:20pm
Received By:
Relinquished By: Date: 03/07/2000 Time: 1:30P
Received By: (Lab Staff) [signature]
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS:

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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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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Environmental Bureau
Oil Conservation Division

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Originated 8/8/

Submit Origi
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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 GRAMMA RIDGE #1
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter KEY
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 921 SANGER, 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:

04-004

THE FOLLOWING ANALYTICAL DATA IS FROM THE GRAMMA RIDGE #1 FACILITY. THE WASTE WAS GENERATED BY RAIN AND WASH DOWN WATER. INCLUDED IS A CERTIFICATE OF WASTE, ANALYTICAL AND CHAIN OF CUSTODY.

Estimated Volume 200 BBLS. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: _____ TITLE: BOOKKEEPER DATE: 4-24-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. _____

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ. Eng. Specialist DATE: 04-27-00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 4-28-00

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 88240

GENERATING SITE GRM #1

COUNTY LEA STATE NM

TYPE OF WASTE NON-EXEMPT NON-HAZ. Liquid

ESTIMATED VOLUME 200 bbls.

GENERATING PROCESS WASH DOWN & RAIN WATER

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Key Energy Services, 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 _____
SIGNATURE

NAME Ed Sloman
PRINTED

ADDRESS 921 W. Sanger

Hobbs, NM 88240

DATE 4-24-00

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 W. GRIMES
HOBBS, NM 88240
FAX TO: (505) 391-7954

Receiving Date: 03/07/00
Reporting Date: 03/08/00
Project Owner: LG & E
Project Name: GRAMMA RIDGE
Project Location: LEA CO. NM
Lab Number: H4697-1
Sample ID: LG & E G.R. #1

Analysis Date: 03/07/00
Sampling Date: 03/07/00
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4697-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.083	83	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.093	93	0.100
Methyl Ethyl Ketone	200	0.150	<0.050	0.087	87	0.100
Chloroform	6.0	<0.005	<0.005	0.097	97	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.099	99	0.100
Benzene	0.5	0.015	<0.005	0.101	101	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.101	101	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.103	103	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.103	103	0.100
Chlorobenzene	100	<0.005	<0.005	0.100	100	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.100	100	0.100

	% RECOVERY
Dibromofluoromethane	85
Toluene-d8	94
Bromofluorobenzene	95

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

3/8/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 W. GRIMES
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FAX TO: (505) 391-7954

Receiving Date: 03/07/00
Reporting Date: 03/09/00
Project Owner: LG & E
Project Name: GRAMMA RIDGE
Project Location: LEA CO. NM
Lab Number: H4697-1
Sample ID: LG & E G.R. #1

Analysis Date: 03/08/00
Sampling Date: 03/07/00
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4697-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.004	8	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.032	64	0.050
o-Cresol	200	<0.020	<0.005	0.031	62	0.050
m, p-Cresol	200	<0.020	<0.005	0.032	64	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.027	54	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.035	70	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.042	84	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.046	92	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.045	90	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.056	112	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.057	114	0.050
Pentachlorophenol	100	<0.020	<0.005	0.044	88	0.050

	% RECOVERY
Fluorophenol	22
Phenol-d5	35
Nitrobenzene-d5	100
2-Fluorobiphenyl	83
2,4,6-Tribromophenol	64
Terphenyl-d14	85

METHODS: EPA SW 846-8270, 1311, 3510

Burgess J. A. Cooke, Ph. D.

3/9/00
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 N. GRIMES
HOBBS, NM 88240
FAX TO: (505) 391-7954

Receiving Date: 03/07/00
Reporting Date: 03/15/00
Project Owner: LG & E
Project Name: GRAMMA RIDGE
Project Location: LEA CO., NM

Sampling Date: 03/07/00
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		03/09/00	03/09/00	03/08/00	03/10/00
H4697-1	LG & E GR #1	Not reactive	Not reactive	7.07	>140
ANALYSIS DATE:		03/09/00	03/09/00	03/08/00	03/14/00
H4697-2	LG & E GR #2	Not reactive	Not reactive	5.74	>140*
Quality Control		NR	NR	7.02	80**
True Value QC		NR	NR	7.00	81±2
% Recovery		NR	NR	100	NR
Relative Percent Difference		NR	NR	0	NR

*Sample submitted 03/14/00.
**Flash point of p-Xylene

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

3/15/00
Date

H4697RXLS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
COMPLIANCE SERVICES
ATTN: DYKE BROWNING
1220 N. GRIMES
HOBBS, NM 88240
FAX TO: (505) 391-7954

Receiving Date: 03/07/00
Reporting Date: 03/10/00
Project Owner: LG & E
Project Name: GRAMMA RIDGE
Project Location: LEA CO., NM

Sampling Date: 03/07/00
Sample Type: WASTEWATER
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:		03/09/00	03/09/00	03/09/00	03/09/00	03/09/00	03/09/00	03/10/00	03/09/00
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4697-1	LG & E GR #1	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
H4697-2	LG & E GR #2	<1	<1	<10	<0.2	<1	<1	<0.02	<0.1
Quality Control		0.196	1.087	24.24	1.011	4.905	4.485	0.0109	0.206
True Value QC		0.100	1.000	25.00	1.000	5.000	5.000	0.0100	0.200
% Recovery		98	109	97	101	98	90	109	103
Relative Standard Deviation		2.0	1.1	1.5	0.7	0.3	0.9	5.5	0.4
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

03/10/2000
Date

H4697M.XLS

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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

Company Name: LG&E		BILL TO	
Project Manager: Dyke		P.O. #:	
Address:		Company: ~~LG&E~~	
City: Hobbs	State: NM Zip:	Attn: Compliance	
Phone #: 393-2531	Fax #:	Address: Services	
Project #:	Project Owner:	City:	
Project Name:		State:	Zip:
Project Location:		Phone #:	
Sampler Name:		Fax #:	

ANALYSIS REQUEST: Ignitability

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME
H4713-1	Gramma Ridge	G	1		X						X		3/13	4:20

Re-sample of H4697-2 reported under that no.

Sampler Relinquished: [signature]	Date: 3/13 Time: 4:20p	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By: (Lab Staff) [signature]	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

CARDINAL 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

Company Name: Compliance Services
Project Manager: Dyke
Address: 1220 N. Grimes
City: Hobbs State: Zip: 88240
Phone #: 391-7797
Fax #: 391-7954
Project #: ~~Gramma R~~ Project Owner: LG&E
Project Name: GRAMMA Ridge
Project Location: Lea Co, NM

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TCLP
H-4697-1	LG&E GR #1	G	4		X						X		3/7	11:00am	X
H-4697-2	LG&E G.R. #2	G	4		X						X		3/7	12:30p	X

Sampler Relinquished: Date: 3/7/00 Time: 1:20pm
Received By:
Relinquished By: Date: 03/07/2000 Time: 1:30P
Received By: (Lab Staff)
Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS:

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

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/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WEATHERFORD
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS YARD
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter CONTROLLED RECOVERY, INC
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 3000 W. COUNTY RD. HOBBS	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:

04-003

SUMP SLUDGE GENERATED FROM THE STEAM CLEANING OF OILFIELD TOOLS.

I AM ENCLOSING CERTIFICATE OF WASTE STATUS AND PRIOR C-138 WHERE MARTYNE KIELING HAS APPROVED THIS WASTE STREAM UNTIL JANUARY 2001.

THE SYSTEM AND PROCESS HAVE NOT CHANGED.

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: 4-12-00
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: KATH HARPER TELEPHONE NO. 505-303-1079

(This space for State Use)

APPROVED BY: Donna Williams TITLE: Environ Eng. Specialist DATE: 4-13-00

APPROVED BY: Marilyn J. Kelly TITLE: Environmental Geologist DATE: 4-13-00

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

COMPANY / GENERATOR Weatherford

ADDRESS 3000 W. County Rd. Hobbs, NM 88240

GENERATING SITE 3000 W. County Rd. Hobbs

COUNTY Lea STATE NM

TYPE OF WASTE Sump Sludge

ESTIMATED VOLUME 200 Barrels

GENERATING PROCESS Washing/Steam Cleaning of Oilfield Tools

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

TRUCKING COMPANY Controlled Recovery, Inc.

Ask Roger Again what To do? on this on 7day check

13,000
18,250
check est
CRI est.

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 Mandy Halladay
SIGNATURE

NAME Mandy Halladay
PRINTED

ADDRESS 3000 W. County Rd.

Hobbs, NM 88240

DATE April 11, 2000

District I - (505) 393-616
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

Form C-1
Originated 8/8

Submit Orig
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to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WEATHERFORD
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 NEW MEXICO
7. Location of Material (Street Address or ULSTR) 3000 W. COUNTY RD. HOBBS	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:

02-007

SUMP SLUDGE MATEIAL GENERATED FROM THE STEAM CLEANING OF OILFIELD TOOLS.
I AM ENCLOSING ANALYTICAL DATA, KNOWLEDGE OF PROCESS LETTER, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

Analytical For this waste Stream is Approved until January ~~2000~~ 2001 per MJK - Provided That the System & Process Does Not Change. MJK 2-18-00

She will correc her copy per on Conversation 2-29-00 KH

Used 40 bbls 7003 2-17-00
60 3-29-00

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: 2-10-00
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: 02-15-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 02-18-00

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/

Submit Origi
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to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator DOWELL SCHLUMBERGER
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site ARTESIA FACILITY
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter Waste Management
3. Address of Facility Operator P. O. BOX 388, HOBBS,	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 507 E. Richey 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:

03-003

THE FOLLOWING ANALYTICAL IS FROM THE DOWELL SCHLUMBERGER ARTESIA FACILITY.

THE MATERIAL WAS GENERATED BY WASHING TRUCKS AND OILFIELD EQUIPMENT.
THIS MATERIAL HAS BEEN APPROVED IN THE PAST AND I HAVE ALSO INCLUDED
A CERTIFICATE OF WASTE AND A CHAIN OF CUSTODY.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 3-29-00
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: 4-13-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4-13-00

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: Schlumberger, Dowell, Artesia, NM.

SOURCE: Truck wash bay

DISPOSAL LOCATION: Controlled Recovery Inc

As a condition of acceptance for disposal, I hearby 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 Schlumberger, Dowell concur with the status of the waste from the subject site.

Name Darwin Thompson

Title/Angency Maintenance Supervisor

Address 1105 W Bender
Hobbs, NM

Signature Darwin Thompson

Date 3-27-00

Report of Laboratory Analysis

Pace Analytical Services, Inc.

Single Sample - Inorganic Parameters

Client ID: 003A **Client:** Schlumberger

Project: Artesia Yard **Site:**

Lab ID: 851108175 **Project No.:** 8510483

Description: **Matrix:** Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	27342	1	ND		mg/l	0.0100	28-Sep-99	29-Sep-99	1914 VSAS	5.00
Barium	EPA 6010	27342	1	0.0221		mg/l	0.0100	28-Sep-99	29-Sep-99	1914 VSAS	100.
Cadmium	EPA 6010	27342	1	ND		mg/l	0.0050	28-Sep-99	29-Sep-99	1914 VSAS	1.00
Chromium	EPA 6010	27342	1	ND		mg/l	0.0050	28-Sep-99	29-Sep-99	1914 VSAS	5.00
Lead	EPA 6010	27342	1	ND		mg/l	0.0500	28-Sep-99	29-Sep-99	1914 VSAS	5.00
Mercury	EPA 7470	27354	30	ND		ug/l	6.00	30-Sep-99	30-Sep-99	0000 FCRZ	200.
Selenium	EPA 6010	27342	1	ND		mg/l	0.0500	28-Sep-99	29-Sep-99	1914 VSAS	1.00
Silver	EPA 6010	27342	1	ND		mg/l	0.0500	28-Sep-99	29-Sep-99	1914 VSAS	5.00

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.

Report of Laboratory Analysis

Pace Analytical Services, Inc.

Single Sample - Inorganic Parameters

Client ID: 004A **Client:** Schlumberger

Project: Artesia Yard **Site:**

Lab ID: 851109181 **Project No.:** 8510483

Description: **Matrix:** Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Arsenic	EPA 6010	27206	0	ND		mg/kg	0.483	27-Sep-99	29-Sep-99	1444 VSAS	
Barium	EPA 6010	27206	0	0.598		mg/kg	0.483	27-Sep-99	29-Sep-99	1444 VSAS	
Cadmium	EPA 6010	27206	0	ND		mg/kg	0.242	27-Sep-99	29-Sep-99	1444 VSAS	
Chromium	EPA 6010	27206	0	ND		mg/kg	0.483	27-Sep-99	29-Sep-99	1444 VSAS	
Lead	EPA 6010	27206	0	ND		mg/kg	2.42	27-Sep-99	29-Sep-99	1444 VSAS	
Mercury	EPA 7471	27355	1	ND		mg/kg	0.0894	30-Sep-99	30-Sep-99	0000 FCRZ	
Selenium	EPA 6010	27206	0	ND		mg/kg	2.42	27-Sep-99	29-Sep-99	1444 VSAS	
Silver	EPA 6010	27206	0	ND		mg/kg	0.242	27-Sep-99	29-Sep-99	1444 VSAS	

8 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.

Report of Laboratory Analysis

Pace Analytical Services, Inc.

Single Sample - Protocol

Client ID: 003A
Client: Schlumberger
Project: Artesia Yard
Site:
Lab ID: 851108175
Project No.: 8510483
Sample Qu:
Description:
Matrix: Soil
% Moisture:
Method: EPA 8260
Prep Level: Soil
Batch: 27199
Units: mg/l
Target List: 8260S LL85
Prep Factor: 1
Leached:
Prepared: 26-Sep-99
Analyzed: 26-Sep-99 0517 DLS

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
71-43-2	Benzene	10	ND		0.0500	0.500
460-00-4	4-Bromofluorobenzene (S)	1	94.0	%		
78-93-3	2-Butanone	10	ND		0.100	200.
56-23-5	Carbon Tetrachloride	10	ND		0.0500	0.500
108-90-7	Chlorobenzene	10	ND		0.0500	100.
67-66-3	Chloroform	10	ND		0.0500	6.00
107-06-2	1,2-Dichloroethane	10	ND		0.0500	0.500
17060-07-0	1,2-Dichloroethane-d4 (S)	1	83.0	%		
75-35-4	1,1-Dichloroethene	10	ND		0.0500	0.700
127-18-4	Tetrachloroethene	10	ND		0.0500	0.700
2037-26-5	Toluene-d8 (S)	1	97.0	%		
79-01-6	Trichloroethene	10	ND		0.0500	0.500
75-01-4	Vinyl Chloride	10	ND		0.100	0.200

13 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.

Report of Laboratory Analysis

Pace Analytical Services, Inc.

Single Sample - Protocol

Client ID:	003A	**Client:**	Schlumberger		
Project:	Artesia Yard	**Site:**			
Lab ID:	851108175	**Project No.:**	8510483	**Sample Qu:**	
Description:		**Matrix:**	Soil	**% Moisture:**	
Method:	EPA 8270	**Prep Level:**	Soil	**Batch:**	27299
		Units:	mg/l	**Target List:**	8270S LL85
Prep Factor:	1	**Leached:**	**Prepared:** 27-Sep-99	**Analyzed:**	29-Sep-99 1644 TCO

CAS Number	Parameter	Dilution	Result	Qu	Reporting Limit	Reg. Limit
106-46-7	1,4-Dichlorobenzene	1	ND		0.0100	7.50
121-14-2	2,4-Dinitrotoluene	1	ND		0.0100	0.130
321-60-8	2-Fluorobiphenyl (S)	1	88.0	%		
367-12-4	2-Fluorophenol (S)	1	56.0	%		
118-74-1	Hexachlorobenzene	1	ND		0.0100	0.130
87-68-3	Hexachlorobutadiene	1	ND		0.0100	0.500
67-72-1	Hexachloroethane	1	ND		0.0100	3.00
95-48-7	2-Methylphenol	1	ND		0.0100	200.
108-39-4	3-Methylphenol	1	ND		0.0100	200.
106-44-5	4-Methylphenol	1	ND	1	0.0100	200.
98-95-3	Nitrobenzene	1	ND		0.0100	2.00
4165-60-0	Nitrobenzene-d5 (S)	1	90.0	%		
87-86-5	Pentachlorophenol	1	ND		0.0250	100.
13127-88-3	Phenol-d6 (S)	1	81.0	%		
110-86-1	Pyridine	1	ND		0.0100	5.00
1718-51-0	Terphenyl-d14 (S)	1	112.	%		
118-79-6	2,4,6-Tribromophenol (S)	1	71.0	%		
95-95-4	2,4,5-Trichlorophenol	1	ND		0.0100	400.
88-06-2	2,4,6-Trichlorophenol	1	ND		0.0100	2.00

19 compound(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of extract. The Prep Factor accounts for a non-routine sample size.

Report of Laboratory Analysis

Pace Analytical Services, Inc.

Single Sample - Inorganic Parameters

Client ID: 003A **Client:** Schlumberger

Project: Artesia Yard **Site:**

Lab ID: 851108175 **Project No.:** 8510483

Description: **Matrix:** Soil **%Moisture:**

ParameterName	Method	Batch	DF	Result	Qu	Units	Reporting Limit	Prep.	Analysis		Reg. Limit
Cyanide, Reactive	SW-846 7.3.3.2	27502	1	ND		mg/kg	0.500	29-Sep-99	29-Sep-99	1200 JROB	
Ignitability	EPA 1020	27237	1	0.0000		deg F	0.0000	24-Sep-99	24-Sep-99	0000 HFEB	
pH	EPA 9045	26912	1	7.10			0.0000	23-Sep-99	23-Sep-99	1400 JROB	
Sulfide, Reactive	SW-846 7.3.4.2	27527	1	ND		mg/kg	50.0	29-Sep-99	29-Sep-99	1200 JROB	
Total Petroleum Hydroca	EPA 418.1 Mod	26945	100	79300		mg/kg	5000	28-Sep-99	28-Sep-99	0000 HFEB	

5 parameter(s) reported

ND denotes Not Detected at or above the adjusted reporting limit.
DF denotes Dilution Factor of final sample. PF denotes sample Prep Factor which accounts for a non-routine sample size.

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Right Chemistry, The Right Solution®

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

467059

Page: / of /

Section A — Required Client Information:

Company: Dowell Schlumberger
Address: PO Box 640
Hobbs, NM 88240
Phone: 505 393 6186
Fax: 505 393 2132

Section B — Required Client Information:

Report To: Darwin Thompson
Invoice To: Same
P.O.:
Project Name: Arnesia-yard
Project Number:

Client Information (Check quote/contract):
Requested Due Date: *TAT:

* Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:
Project Manager:
Project #:
Profile *:
Requested Analysis:

Section D — Required Client Information:

SAMPLE ID
One character per box.
(A-Z, 0-9 / :-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes:

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (mm : hh a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Total Sus. Solids	Oil + grease *	pH	Total metals	TCLP w/pH	TPH	MCT	Remarks / Lab ID
002A	WT	09-20-99	30-09a	1	X						X	X	X	X				851108167
003A	SL	09-20-99	30-09a	1	X										X	X	X	851108175
004A	OT	09-20-99	30-09a	1	X									X				851108181

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	1.0								
Received on ICE:	(Y) / N			FEDEX	9/20/99	0930	Christina Silva	9/20/99	09
Sealed Cooler:	(Y) / N								
Samples Intact:	(Y) / N								

Additional Comments:

* Do Not Run Oil & Grease per Darwin Thompson. insufficient Sample. (PD) 9/22/99

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Darwin Thompson
SIGNATURE of SAMPLER: Darwin Thompson
DATE Signed: (MM / DD / YY) 9-21-99

SEE REVERSE SIDE FOR INSTRUCTIONS

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/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator DOWELL SCHLUMBERGER
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS YARD
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter Waste Management
3. Address of Facility Operator P. O. BOX 388, HOBBS,	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 1105 W. BENDER HOBBS	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:

03-002

THE FOLLOWING ANALYTICAL IS FROM THE DOWELL SCHLUMBERGER HOBBS FACILITY.

THE MATERIAL WAS GENERATED BY WASHING TRUCKS AND OILFIELD EQUIPMENT. THIS MATERIAL HAS BEEN APPROVED IN THE PAST AND I HAVE ALSO INCLUDED A CERTIFICATE OF WASTE AND A CHAIN OF CUSTODY.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 3-29-00
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: Environm. Eng. Specialist DATE: 4-13-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4-13-00

CERTIFICATE OF WASTE STATUS

NON-EXEMPT WASTE MATERIAL

ORIGINATING LOCATION: Schlumbergen, Dowell Hobbs, NM

SOURCE: Truck Wash bay

DISPOSAL LOCATION: Controlled Recovery Inc.

As a condition of acceptance for disposal, I hearby 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 Schlumbergen, Dowell concur with the status of the waste from the subject site.

Name: Darwin Thompson

Title/Angency: Maintenance Supervisor

Address: 1105 W Bender
Hobbs, NM

Signature: Darwin Thompson

Date: 3-27-00

Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

DATE: 10/30/99
PAGE: 2

Pace Project Number: 8510765
Client Project ID: Hobbs Yard

Pace Sample No: 851138891 Date Collected: 10/07/99 Matrix: Soil
Client Sample ID: 06H,07H Date Received: 10/09/99

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
TCLP on Solid, ICP Metals		Method: EPA 6010			Prep Method: EPA 3010			
Arsenic	ND	mg/l	0.1	10.0	10/14/99	VSAS	7440-38-2	
Barium	0.577	mg/l	0.1	10.0	10/14/99	VSAS	7440-39-3	
Cadmium	ND	mg/l	0.05	10.0	10/14/99	VSAS	7440-43-9	
Chromium	ND	mg/l	0.05	10.0	10/14/99	VSAS	7440-47-3	
Lead	ND	mg/l	0.5	10.0	10/14/99	VSAS	7439-92-1	
Selenium	ND	mg/l	0.5	10.0	10/14/99	VSAS	7782-49-2	
Silver	ND	mg/l	0.5	10.0	10/14/99	VSAS	7440-22-4	
Date Digested					10/13/99			
Mercury, TCLP Leachate, Solid		Method: EPA 7470			Prep Method: EPA 7470			
Mercury	ND	ug/l	6	30.0	10/14/99		7439-97-6	
Wet Chemistry								
Cyanide, Reactive		Method: SW-846 7.3.3.2			Prep Method: SW-846 7.3.3.2			
Cyanide, Reactive	ND	mg/kg	0.5	1.00	10/13/99			
Sulfide, Reactive		Method: SW-846 7.3.4.2			Prep Method: SW-846 7.3.4.2			
Sulfide, Reactive	ND	mg/kg	50	1.00	10/13/99			
pH, Soil		Method: EPA 9045			Prep Method: EPA 9045			
pH	8.9		0	1.00	10/14/99			
Organics Prep								
Ignitability, Seta Flash		Method: EPA 1020			Prep Method: EPA 1020			
Ignitability	>225	deg F	0	1.00	10/13/99	HFEB		
TPH by EPA Method 418.1 Mod		Method: EPA 418.1 Modified			Prep Method: EPA 3540			
Total Petroleum Hydrocarbons	69200	mg/kg	5000	100	10/12/99	HFEB		
Volatiles, TCLP Leach, Solid		Method: EPA 8260			Prep Method: EPA 1311			
Date Leached	0.00		0	1.00	10/13/99	HFEB		
GC/MS Volatiles								

REPORT OF LABORATORY ANALYSIS

Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

DATE: 10/30/99
PAGE: 3

Pace Project Number: 8510765
Client Project ID: Hobbs Yard

Pace Sample No: 851138891 Date Collected: 10/07/99 Matrix: Soil
Client Sample ID: 06H,07H Date Received: 10/09/99

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Volatiles, TCLP Leach, Solid	Method: EPA 8260				Prep Method: EPA 8260			
1,1-Dichloroethene	ND	mg/l	0.05	10.0	10/14/99		75-35-4	
1,2-Dichloroethane	ND	mg/l	0.05	10.0	10/14/99		107-06-2	
2-Butanone	ND	mg/l	0.1	10.0	10/14/99		78-93-3	
Benzene	ND	mg/l	0.05	10.0	10/14/99		71-43-2	
Carbon Tetrachloride	ND	mg/l	0.05	10.0	10/14/99		56-23-5	
Chlorobenzene	ND	mg/l	0.05	10.0	10/14/99		108-90-7	
Chloroform	ND	mg/l	0.05	10.0	10/14/99		67-66-3	
Tetrachloroethene	ND	mg/l	0.05	10.0	10/14/99		127-18-4	
Trichloroethene	ND	mg/l	0.05	10.0	10/14/99		79-01-6	
Vinyl Chloride	ND	mg/l	0.1	10.0	10/14/99		75-01-4	
1,2-Dichloroethane-d4 (S)	87	%		1.00	10/14/99		17060-07-0	
Toluene-d8 (S)	92	%		1.00	10/14/99		2037-26-5	
4-Bromofluorobenzene (S)	96	%		1.00	10/14/99		460-00-4	
GC/MS Semivolatiles								
Semivolatile, TCLP, Solid	Method: EPA 8270				Prep Method: EPA 3510			
1,4-Dichlorobenzene	ND	mg/l	0.01	1.00	10/23/99		106-46-7	
2,4,6-Trichlorophenol	ND	mg/l	0.01	1.00	10/23/99		88-06-2	
2,4,5-Trichlorophenol	ND	mg/l	0.01	1.00	10/23/99		95-95-4	
2,4-Dinitrotoluene	ND	mg/l	0.01	1.00	10/23/99		121-14-2	
2-Methylphenol	ND	mg/l	0.01	1.00	10/23/99		95-48-7	
3-Methylphenol	ND	mg/l	0.01	1.00	10/23/99		108-39-4	1
4-Methylphenol	ND	mg/l	0.01	1.00	10/23/99		106-44-5	
Hexachlorobenzene	ND	mg/l	0.01	1.00	10/23/99		118-74-1	
Hexachlorobutadiene	ND	mg/l	0.01	1.00	10/23/99		87-68-3	
Hexachloroethane	ND	mg/l	0.01	1.00	10/23/99		67-72-1	
Nitrobenzene	ND	mg/l	0.01	1.00	10/23/99		98-95-3	
Pentachlorophenol	ND	mg/l	0.025	1.00	10/23/99		87-86-5	
Pyridine	ND	mg/l	0.01	1.00	10/23/99		110-86-1	
Nitrobenzene-d5 (S)	87 <870,000>	%		1.00	10/23/99		4165-60-0	
2-Fluorobiphenyl (S)	80	%		1.00	10/23/99		321-60-8	
Terphenyl-d14 (S)	74	%		1.00	10/23/99		1718-51-0	
Phenol-d6 (S)	59	%		1.00	10/23/99		13127-88-3	
2-Fluorophenol (S)	71	%		1.00	10/23/99		367-12-4	
2,4,6-Tribromophenol (S)	76	%		1.00	10/23/99		118-79-6	
Date Extracted					10/14/99			

REPORT OF LABORATORY ANALYSIS

Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

DATE: 10/30/99
PAGE: 4

Pace Project Number: 8510765
Client Project ID: Hobbs Yard

Pace Sample No: 851138909 Date Collected: 10/08/99 Matrix: Soil
Client Sample ID: 05H Date Received: 10/09/99

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
SW6010 Metals, Routine Soil		Method: EPA 6010			Prep Method: Metals prep.			
Arsenic	ND	mg/kg	2.36	0.47	10/13/99	VSAS	7440-38-2	
Barium	ND	mg/kg	0.472	0.47	10/13/99	VSAS	7440-39-3	
Cadmium	ND	mg/kg	0.236	0.47	10/13/99	VSAS	7440-43-9	
Chromium	ND	mg/kg	0.472	0.47	10/13/99	VSAS	7440-47-3	
Lead	ND	mg/kg	2.36	0.47	10/13/99	VSAS	7439-92-1	
Selenium	ND	mg/kg	2.36	0.47	10/13/99	VSAS	7782-49-2	
Silver	ND	mg/kg	0.236	0.47	10/13/99	VSAS	7440-22-4	
Mercury, SW 7471		Method: EPA 7471			Prep Method: Metals prep.			
Mercury	ND	mg/kg	0.0995	1.00	10/15/99		7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

DATE: 10/30/99
PAGE: 5

Pace Project Number: 8510765
Client Project ID: Hobbs Yard

Pace Sample No: 851138917 Date Collected: 10/08/99 Matrix: Soil
Client Sample ID: 08H Date Received: 10/09/99

Parameters	Results	Units	PRL	App. DF	Analyzed	Analyst	CAS#	Footnotes
Metals								
SW6010 Metals, Routine Soil		Method: EPA 6010			Prep Method: Metals prep.			
Arsenic	ND	mg/kg	2.47	0.50	10/13/99	VSAS	7440-38-2	
Barium	ND	mg/kg	0.495	0.50	10/13/99	VSAS	7440-39-3	
Cadmium	ND	mg/kg	0.247	0.50	10/13/99	VSAS	7440-43-9	
Chromium	ND	mg/kg	0.495	0.50	10/13/99	VSAS	7440-47-3	
Lead	ND	mg/kg	2.47	0.50	10/13/99	VSAS	7439-92-1	
Selenium	ND	mg/kg	2.47	0.50	10/13/99	VSAS	7782-49-2	
Silver	ND	mg/kg	0.247	0.50	10/13/99	VSAS	7440-22-4	
Mercury, SW 7471		Method: EPA 7471			Prep Method: Metals prep.			
Mercury	ND	mg/kg	0.0926	0.93	10/15/99		7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 281-488-1810
Fax: 281-488-4661

DATE: 10/30/99
PAGE: 6

Pace Project Number: 8S10765
Client Project ID: Hobbs Yard

PARAMETER FOOTNOTES

ND	Not Detected
NC	Not Calculable
PRL	Pace Reporting Limit
(S)	Surrogate
App. DF	Applied Dilution Factor
[1]	Due to co-elution, the value in 4-Methylphenol represents the total value for both 4-Methylphenol and 3-Methylphenol.

REPORT OF LABORATORY ANALYSIS

ace® Analytical

Right Chemistry, The Right Solution®

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

503893

Page: of

Section A — Required Client Information:

Company: Dowell Schlumberger
Address: P.O. Box 1640
05 W. Bender
Hobbs, NM 88240
Phone: 505-393-6186 Fax: 505-393-2182

Section B — Required Client Information:

Report To: Darwin Thompson
Invoice To: Same
P.O.:
Project Name: Hobbs yard
Project Number:

Client Information (Check quote/contract):
Requested Due Date: TAT:

* Under 14 day turnaround subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client:

Quote Reference:
Project Manager: Paula Kirtley
Project #:
Profile #:
Requested Analysis:

Section D — Required Client Information:

Valid Matrix Codes:

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

SAMPLE ID (One character per box. (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (mm:hh a/p)	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	TSS	Oil & Grease	pH	Metals (RCRA) 8	TCLP Volatiles	TCLP Semi-VOA	TCLP Metals	TPH-418.1	RCI	Remarks / Lab ID
01H 02H 03H 04H	WT	10-8-99	1200	4	1		1	2			X	X	X	X						wash water
06H 07H	SL	10-7-99	1200	2	X										X	X	X	X	X	soil
05H	OT	10-8-99	1300	1	X									X						paint solvent
08H	OL	10-8-99	1300	1	X									X						used oil

Sample Condition		Sample Notes	Item No.	Relinquished By / Company	Date	Time	Accepted By / Company	Date	Time
Temp in °C:	0.6								
Received on ICE:	(Y) / N			Fed-Ex	10/9/99	0950	Judy Gedwin/PACE	10/9/99	0950
Sealed Cooler:	(Y) / N								
Samples Intact:	(Y) / N								

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Darwin Thompson

SIGNATURE of SAMPLER: Darwin Thompson

DATE Signed (MM / DD / YY): 10-8-99

SEE REVERSE SIDE FOR INSTRUCTIONS

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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FEB 24 2000
Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator SCHLUMBERGER
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS YARD
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter MACLASKEY
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 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:

02-008

WASH BAY SUMP SLUDGE. GENERATED BY THE STEAM CLEANING OF OILFIELD TOOLS.

I AM ENCLOSING ANALYTICAL DATA, CERTIFICATE OF WASTE STATUS AND A CHAIN OF CUSTODY.

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: 02-17-00
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: 02-23-00

APPROVED BY: Martyne Kirby TITLE: Environmental Geologist DATE: 02-24-00

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

COMPANY / GENERATOR Schlumberger

ADDRESS P.O. Box 1770, Hobbs, NM, 88240

GENERATING SITE 2527 W. Bender Blvd, Hobbs

COUNTY Lea STATE NM

TYPE OF WASTE Sump sludge, wash water

ESTIMATED VOLUME 200 barrels sludge / water

GENERATING PROCESS Truck washing

REMARKS

NMOCD FACILITY CRI

TRUCKING COMPANY Maclaskey

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 Paul Clex
SIGNATURE

NAME Paul Clexton
PRINTED

ADDRESS 2527 W. Bender
Hobbs, NM 88240

DATE 2-21-00

Certificate of Analysis

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

512 892-6684 Direct
512 892-6652 Fax

Quanterra

ANALYTICAL REPORT

PROJECT NO. HOBBS

Hobbs,NM

Lot #: I0A210149

Paul Kraxton

Schlumberger
2527 West Bender Blvd
Hobbs, NM 88240

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

February 14, 2000

February 14, 2000

QUANTERRA INCORPORATED LOT NUMBER: **I0A210149**

Paul Kraxton
Schlumberger
2527 West Bender Blvd
Hobbs, NM 88240

Dear Paul Kraxton,

This report contains the analytical results for the two samples received under chain of custody by Quanterra Incorporated on January 21, 2000. These samples are associated with your Hobbs,NM project.

All applicable quality control procedures met method-specified acceptance criteria.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at 512-892-6684.

Sincerely,

Sandra Green
Project Manager

cc: Project File

EXECUTIVE SUMMARY - Detection Highlights

I0A210149

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
WATER 01/20/00 16:00 001				
Flashpoint	>160	--	deg F	SW846 1010
pH (liquid)	7.9 H	0.10	No Units	SW846 9040B
SLUDGE 01/20/00 16:00 002				
Benzene	0.34	0.050	mg/L	SW846 8260B
Percent Moisture	33.9	0.50	%	ASTM D 2216-90
pH	7.8	0.10	No Units	SW846 9045C

ANALYTICAL METHODS SUMMARY

I0A210149

PARAMETER	ANALYTICAL METHOD
pH Aqueous	SW846 9040B
Ignitability	SW846 SECTION 7.1.2
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Method for Determination of Water Content of Soil	ASTM D 2216-90
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Soil and Waste pH	SW846 9045C
Volatile Organics by GC/MS	SW846 8260B

References:

ASTM Annual Book Of ASTM Standards.

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

SAMPLE SUMMARY

I0A210149

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
D7NC1	001	WATER	01/20/00	16:00
D7NC8	002	SLUDGE	01/20/00	16:00

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.

SCHLUMBERGER

Client Sample ID: WATER

TCLP GC/MS Volatiles

Lot-Sample #...:	I0A210149-001	**Work Order #...:**	D7NC1102	**Matrix.....:**	WATER
Date Sampled...:	01/20/00 16:00	**Date Received..:**	01/21/00	**MS Run #.....:**	0032078
Leach Date.....:	01/31/00	**Prep Date.....:**	01/31/00	**Analysis Date..:**	02/01/00
Leach Batch #..:	P003110	**Prep Batch #...:**	0032249	**Analysis Time..:**	02:32
Dilution Factor:	1				
		Method.....:	SW846 8260B		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	101	(86 - 115)
Toluene-d8	101	(88 - 110)
Dibromofluoromethane	99	(86 - 118)
1,2-Dichloroethane-d4	95	(80 - 120)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SCHLUMBERGER

Client Sample ID: WATER

TCLP GC/MS Semivolatiles

Lot-Sample #...:	I0A210149-001	**Work Order #...:**	D7NC1104	**Matrix.....:**	WATER
Date Sampled...:	01/20/00 16:00	**Date Received..:**	01/21/00	**MS Run #.....:**	0031060
Leach Date.....:	01/27/00	**Prep Date.....:**	01/31/00	**Analysis Date..:**	02/09/00
Leach Batch #..:	P002712	**Prep Batch #...:**	0031185	**Analysis Time..:**	13:31
Dilution Factor:	1				
		Method.....:	SW846 8270C		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	74	(21 - 100)
Phenol-d5	80	(10 - 94)
Nitrobenzene-d5	75	(35 - 114)
2-Fluorobiphenyl	89	(43 - 116)
2,4,6-Tribromophenol	105	(10 - 123)
Terphenyl-d14	71	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SCHLUMBERGER

Client Sample ID: SLUDGE

TCLP GC/MS Volatiles

Lot-Sample #...:	I0A210149-002	**Work Order #...:**	D7NC8103	**Matrix.....:**	SOLID
Date Sampled...:	01/20/00 16:00	**Date Received..:**	01/21/00	**MS Run #.....:**	0036008
Leach Date.....:	01/31/00	**Prep Date.....:**	02/04/00	**Analysis Date..:**	02/05/00
Leach Batch #..:	P003109	**Prep Batch #...:**	0036129	**Analysis Time..:**	00:15
Dilution Factor:	1				
% Moisture.....:	34	**Method.....:**	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	**0.34**	**0.050**	**mg/L**
Carbon tetrachloride	ND	0.050	mg/L
Chlorobenzene	ND	0.050	mg/L
Chloroform	ND	0.050	mg/L
1,2-Dichloroethane	ND	0.050	mg/L
1,1-Dichloroethylene	ND	0.050	mg/L
Methyl ethyl ketone	ND	0.20	mg/L
Tetrachloroethylene	ND	0.050	mg/L
Trichloroethylene	ND	0.050	mg/L
Vinyl chloride	ND	0.10	mg/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	106	(86 - 115)
Toluene-d8	91	(88 - 110)
Dibromofluoromethane	87	(86 - 118)
1,2-Dichloroethane-d4	88	(80 - 120)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SCHLUMBERGER

Client Sample ID: SLUDGE

TCLP GC/MS Semivolatiles

Lot-Sample #...:	I0A210149-002	**Work Order #...:**	D7NC8104	**Matrix.....:**	SOLID
Date Sampled...:	01/20/00 16:00	**Date Received..:**	01/21/00	**MS Run #.....:**	0031059
Leach Date.....:	01/27/00	**Prep Date.....:**	01/31/00	**Analysis Date..:**	02/03/00
Leach Batch #..:	P002711	**Prep Batch #...:**	0031183	**Analysis Time..:**	17:34
Dilution Factor:	1				
% Moisture.....:	34	**Method.....:**	SW846 8270C		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	62	(21 - 100)
Phenol-d5	59	(10 - 94)
Nitrobenzene-d5	70	(35 - 114)
2-Fluorobiphenyl	67	(43 - 116)
2,4,6-Tribromophenol	76	(10 - 123)
Terphenyl-d14	70	(33 - 141)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SCHLUMBERGER

Client Sample ID: WATER

General Chemistry

Lot-Sample #...: I0A210149-001 **Work Order #...:** D7NC1 **Matrix.....:** WATER
Date Sampled...: 01/20/00 16:00 **Date Received..:** 01/21/00

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)	**7.9 H**	**0.10**	**No Units**	**SW846 9040B**	**01/21/00**	**0021389**
		Dilution Factor: 1		Analysis Time..: 16:00	MS Run #.....: 0021140	
Flashpoint	**>160**	--	**deg F**	**SW846 1010**	**02/02/00**	**0033280**
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 0033117	
Reactive Cyanide	ND	1.0	mg/L	SW846 7.3.3	01/25-01/27/00	0027378
		Dilution Factor: 1		Analysis Time..: 12:00	MS Run #.....: 0027126	
Reactive Sulfide	ND	50.0	mg/L	SW846 7.3.4	01/25/00	0027260
		Dilution Factor: 1		Analysis Time..: 16:00	MS Run #.....: 0027064	

NOTE(S):

RL Reporting Limit

H The sample was prepared or analyzed after the EPA recommended holding time had been exceeded.

SCHLUMBERGER

Client Sample ID: SLUDGE

General Chemistry

Lot-Sample #...: I0A210149-002 **Work Order #...:** D7NC8 **Matrix.....:** SOLID
Date Sampled...: 01/20/00 16:00 **Date Received..:** 01/21/00
% Moisture.....: 34

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	**7.8**	**0.10**	**No Units**	**SW846 9045C**	**02/03/00**	**0034342**
		Dilution Factor: 1		Analysis Time..: 15:00	MS Run #.....: 0034122	
Ignitability	**NO**	--	**deg F**	**SW846 SECTION 7.1**	**02/02/00**	**0033248**
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....:	
Percent Moisture	**33.9**	**0.50**	**%**	**ASTM D 2216-90**	**02/02-02/03/00**	**0033270**
		Dilution Factor: 1		Analysis Time..: 00:00	MS Run #.....: 0033113	
Reactive Cyanide	ND	1.0	mg/kg	SW846 7.3.3	01/25-01/26/00	0027371
		Dilution Factor: 1		Analysis Time..: 12:00	MS Run #.....: 0027121	
Reactive Sulfide	ND	50.0	mg/kg	SW846 7.3.4	01/25/00	0027262
		Dilution Factor: 1		Analysis Time..: 16:00	MS Run #.....: 0027066	

SCHLUMBERGER

Client Sample ID: WATER

TCLP Metals

Lot-Sample #...: I0A210149-001 **Matrix.....:** WATER
Date Sampled...: 01/20/00 16:00 **Date Received..:** 01/21/00
Leach Date.....: 01/27/00 **Leach Batch #..:** P002712

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0031257						
Arsenic	ND	0.50	mg/L	SW846 6010B	01/31/00	D7NC1105
		Dilution Factor: 1		Analysis Time..: 17:18	MS Run #.....: 0031081	
Barium	ND	10.0	mg/L	SW846 6010B	01/31/00	D7NC1106
		Dilution Factor: 1		Analysis Time..: 17:18	MS Run #.....: 0031081	
Cadmium	ND	0.10	mg/L	SW846 6010B	01/31/00	D7NC1107
		Dilution Factor: 1		Analysis Time..: 17:18	MS Run #.....: 0031081	
Chromium	ND	0.50	mg/L	SW846 6010B	01/31/00	D7NC1108
		Dilution Factor: 1		Analysis Time..: 17:18	MS Run #.....: 0031081	
Lead	ND	0.50	mg/L	SW846 6010B	01/31/00	D7NC1109
		Dilution Factor: 1		Analysis Time..: 17:18	MS Run #.....: 0031081	
Selenium	ND	0.25	mg/L	SW846 6010B	01/31/00	D7NC110A
		Dilution Factor: 1		Analysis Time..: 17:18	MS Run #.....: 0031081	
Silver	ND	0.50	mg/L	SW846 6010B	01/31/00	D7NC110C
		Dilution Factor: 1		Analysis Time..: 17:18	MS Run #.....: 0031081	
Prep Batch #...: 0031271						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/31-02/01/00	D7NC110D
		Dilution Factor: 1		Analysis Time..: 15:15	MS Run #.....: 0031096	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

SCHLUMBERGER

Client Sample ID: SLUDGE

TCLP Metals

Lot-Sample #...: I0A210149-002 **Matrix.....:** SOLID
Date Sampled...: 01/20/00 16:00 **Date Received..:** 01/21/00
Leach Date.....: 01/27/00 **Leach Batch #..:** P002711

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0031263						
Arsenic	ND	0.50	mg/L	SW846 6010B	01/31/00	D7NC8105
		Dilution Factor: 1		Analysis Time..: 16:50	MS Run #.....: 0031086	
Barium	ND	10.0	mg/L	SW846 6010B	01/31/00	D7NC8106
		Dilution Factor: 1		Analysis Time..: 16:50	MS Run #.....: 0031086	
Cadmium	ND	0.10	mg/L	SW846 6010B	01/31/00	D7NC8107
		Dilution Factor: 1		Analysis Time..: 16:50	MS Run #.....: 0031086	
Chromium	ND	0.50	mg/L	SW846 6010B	01/31/00	D7NC8108
		Dilution Factor: 1		Analysis Time..: 16:50	MS Run #.....: 0031086	
Lead	ND	0.50	mg/L	SW846 6010B	01/31/00	D7NC8109
		Dilution Factor: 1		Analysis Time..: 16:50	MS Run #.....: 0031086	
Selenium	ND	0.25	mg/L	SW846 6010B	01/31/00	D7NC810A
		Dilution Factor: 1		Analysis Time..: 16:50	MS Run #.....: 0031086	
Silver	ND	0.50	mg/L	SW846 6010B	01/31/00	D7NC810C
		Dilution Factor: 1		Analysis Time..: 16:50	MS Run #.....: 0031086	
Prep Batch #...: 0031306						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/31-02/01/00	D7NC810D
		Dilution Factor: 1		Analysis Time..: 15:27	MS Run #.....: 0031109	

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

QC DATA ASSOCIATION SUMMARY

I0A210149

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 1010		0033280	0033117
	WATER	SW846 7.3.3		0027378	0027126
	WATER	SW846 7.3.4		0027260	0027064
	WATER	SW846 7470A	P002712	0031271	0031096
	WATER	SW846 9040B		0021389	0021140
	WATER	SW846 8260B	P003110	0032249	0032078
	WATER	SW846 8270C	P002712	0031185	0031060
	WATER	SW846 6010B	P002712	0031257	0031081
002	SOLID	SW846 7.3.3		0027371	0027121
	SOLID	SW846 7.3.4		0027262	0027066
	SOLID	SW846 SECTION 7.1		0033248	
	SOLID	ASTM D 2216-90		0033270	0033113
	SOLID	SW846 9045C		0034342	0034122
	SOLID	SW846 7470A	P002711	0031306	0031109
	SOLID	SW846 8260B	P003109	0036129	0036008
	SOLID	SW846 8270C	P002711	0031183	0031059
	SOLID	SW846 6010B	P002711	0031263	0031086

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I0A210149 **Work Order #...:** D8023109 **Matrix.....:** SOLID
MB Lot-Sample #: I0A270000-498
Leach Date.....: 01/27/00 **Prep Date.....:** 01/31/00 **Analysis Date..:** 02/03/00
Leach Batch #..: P002711 **Prep Batch #...:** 0031183 **Analysis Time..:** 15:09
Dilution Factor: 1

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(21 - 100)
Phenol-d5	62	(10 - 94)
Nitrobenzene-d5	75	(35 - 114)
2-Fluorobiphenyl	68	(43 - 116)
2,4,6-Tribromophenol	70	(10 - 123)
Terphenyl-d14	81	(33 - 141)

NOTE(S):

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

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I0A210149 **Work Order #...:** D8026109 **Matrix.....:** WATER
MB Lot-Sample #: I0A270000-500
Leach Date.....: 01/27/00 **Prep Date.....:** 01/31/00 **Analysis Date..:** 02/07/00
Leach Batch #..: P002712 **Prep Batch #...:** 0031185 **Analysis Time..:** 13:01
Dilution Factor: 1

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	77	(21 - 100)
Phenol-d5	73	(10 - 94)
Nitrobenzene-d5	73	(35 - 114)
2-Fluorobiphenyl	81	(43 - 116)
2,4,6-Tribromophenol	88	(10 - 123)
Terphenyl-d14	119	(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 #...: I0A210149 **Work Order #...:** D83Q8101 **Matrix.....:** WATER
MB Lot-Sample #: I0B010000-249

Prep Date.....: 01/31/00 **Analysis Time..:** 00:38
Analysis Date..: 02/01/00 **Prep Batch #...:** 0032249
Dilution Factor: 1

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	101	(86 - 115)
Toluene-d8	99	(88 - 110)
Dibromofluoromethane	101	(86 - 118)
1,2-Dichloroethane-d4	99	(80 - 120)

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I0A210149 **Work Order #...:** D88W9101 **Matrix.....:** SOLID
MB Lot-Sample #: I0B050000-129

Prep Date.....: 02/04/00 **Analysis Time..:** 22:26
Analysis Date..: 02/04/00 **Prep Batch #...:** 0036129
Dilution Factor: 1

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	108	(86 - 115)
Toluene-d8	93	(88 - 110)
Dibromofluoromethane	91	(86 - 118)
1,2-Dichloroethane-d4	91	(80 - 120)

NOTE(S):

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

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I0A210149 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint		Work Order #: D84V6101		MB Lot-Sample #:	D0B020000-280	
	>160	--	**deg F**	**SW846 1010**	**02/02/00**	**0033280**
		Dilution Factor: 1				
		Analysis Time..: 00:00				
Reactive Cyanide		Work Order #: D7XGA101		MB Lot-Sample #:	D0A270000-378	
	ND	1.0	mg/L	SW846 7.3.3	01/25-01/27/00	0027378
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Reactive Sulfide		Work Order #: D7WWV101		MB Lot-Sample #:	D0A270000-260	
	ND	50.0	mg/L	SW846 7.3.4	01/25/00	0027260
		Dilution Factor: 1				
		Analysis Time..: 16:00				

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I0A210149 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		Work Order #: D7XEG101		MB Lot-Sample #:	D0A270000-371	
	ND	1.0	mg/kg	SW846 7.3.3	01/25-01/26/00	0027371
		Dilution Factor: 1				
		Analysis Time..: 12:00				
Reactive Sulfide		Work Order #: D7WX2101		MB Lot-Sample #:	D0A270000-262	
	ND	50.0	mg/kg	SW846 7.3.4	01/25/00	0027262
		Dilution Factor: 1				
		Analysis Time..: 16:00				

NOTE(S):

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

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I0A270000-498		**Prep Batch #...:** 0031263				
Leach Date.....: 01/27/00		**Leach Batch #..:** P002711				
Arsenic	ND	0.50	mg/L	SW846 6010B	01/31/00	D8023105
		Dilution Factor: 1				
		Analysis Time..: 16:34				
Barium	ND	10.0	mg/L	SW846 6010B	01/31/00	D8023106
		Dilution Factor: 1				
		Analysis Time..: 16:34				
Cadmium	ND	0.10	mg/L	SW846 6010B	01/31/00	D8023107
		Dilution Factor: 1				
		Analysis Time..: 16:34				
Chromium	ND	0.50	mg/L	SW846 6010B	01/31/00	D8023108
		Dilution Factor: 1				
		Analysis Time..: 16:34				
Lead	ND	0.50	mg/L	SW846 6010B	01/31/00	D8023101
		Dilution Factor: 1				
		Analysis Time..: 16:34				
Selenium	ND	0.25	mg/L	SW846 6010B	01/31/00	D8023102
		Dilution Factor: 1				
		Analysis Time..: 16:34				
Silver	ND	0.50	mg/L	SW846 6010B	01/31/00	D8023103
		Dilution Factor: 1				
		Analysis Time..: 16:34				
MB Lot-Sample #: I0A270000-498		**Prep Batch #...:** 0031306				
Leach Date.....: 01/27/00		**Leach Batch #..:** P002711				
Mercury	ND	0.0020	mg/L	SW846 7470A	01/31-02/01/00	D8023104
		Dilution Factor: 1				
		Analysis Time..: 15:24				

NOTE(S):

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

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: I0A270000-500		**Prep Batch #...:** 0031257				
Leach Date.....: 01/27/00		**Leach Batch #..:** P002712				
Arsenic	ND	0.50	mg/L	SW846 6010B	01/31/00	D8026102
		Dilution Factor: 1				
		Analysis Time..: 16:57				
Barium	ND	10.0	mg/L	SW846 6010B	01/31/00	D8026103
		Dilution Factor: 1				
		Analysis Time..: 16:57				
Cadmium	ND	0.10	mg/L	SW846 6010B	01/31/00	D8026104
		Dilution Factor: 1				
		Analysis Time..: 16:57				
Chromium	ND	0.50	mg/L	SW846 6010B	01/31/00	D8026105
		Dilution Factor: 1				
		Analysis Time..: 16:57				
Lead	ND	0.50	mg/L	SW846 6010B	01/31/00	D8026106
		Dilution Factor: 1				
		Analysis Time..: 16:57				
Selenium	ND	0.25	mg/L	SW846 6010B	01/31/00	D8026107
		Dilution Factor: 1				
		Analysis Time..: 16:57				
Silver	ND	0.50	mg/L	SW846 6010B	01/31/00	D8026108
		Dilution Factor: 1				
		Analysis Time..: 16:57				
MB Lot-Sample #: I0A270000-500		**Prep Batch #...:** 0031271				
Leach Date.....: 01/27/00		**Leach Batch #..:** P002712				
Mercury	ND	0.0020	mg/L	SW846 7470A	01/31-02/01/00	D8026101
		Dilution Factor: 1				
		Analysis Time..: 15:08				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: I0A210149 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH			WO#:D86W6102-LCS/D86W6103-LCSD			LCS Lot-Sample#: D0B030000-342		
	7.00	7.02	No Units	100		SW846 9045C	02/03/00	0034342
	7.00	7.01	No Units	100	0.14	SW846 9045C	02/03/00	0034342

Dilution Factor: 1

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: I0A210149 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH		WO#:D86W6102-LCS/D86W6103-LCSD				LCS Lot-Sample#: D0B030000-342	
	100	(97 - 103)			SW846 9045C	02/03/00	0034342
	100	(97 - 103)	0.14	(0-5.0)	SW846 9045C	02/03/00	0034342

Dilution Factor: 1

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 #...: I0A210149 **Work Order #...:** D8291101 **Matrix.....:** SOLID
LCS Lot-Sample#: I0A310000-183
Prep Date.....: 01/31/00 **Analysis Date..:** 02/03/00
Prep Batch #...: 0031183 **Analysis Time..:** 15:38
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
o-Cresol	**0.500**	**0.368**	**mg/L**	**74**	**SW846 8270C**
m-Cresol & p-Cresol	**1.00**	**0.644**	**mg/L**	**64**	**SW846 8270C**
1,4-Dichlorobenzene	**0.500**	**0.298**	**mg/L**	**60**	**SW846 8270C**
2,4-Dinitrotoluene	**0.500**	**0.346**	**mg/L**	**69**	**SW846 8270C**
Hexachlorobenzene	**0.500**	**0.392**	**mg/L**	**78**	**SW846 8270C**
Hexachlorobutadiene	**0.500**	**0.285**	**mg/L**	**57**	**SW846 8270C**
Hexachloroethane	**0.500**	**0.284**	**mg/L**	**57**	**SW846 8270C**
Nitrobenzene	**0.500**	**0.360**	**mg/L**	**72**	**SW846 8270C**
Pentachlorophenol	**0.500**	**0.268**	**mg/L**	**54**	**SW846 8270C**
Pyridine	**0.500**	**0.249**	**mg/L**	**50**	**SW846 8270C**
2,4,5-Trichlorophenol	**0.500**	**0.302**	**mg/L**	**60**	**SW846 8270C**
2,4,6-Trichlorophenol	**0.500**	**0.332**	**mg/L**	**66**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(21 - 100)
Phenol-d5	62	(10 - 94)
Nitrobenzene-d5	72	(35 - 114)
2-Fluorobiphenyl	64	(43 - 116)
2,4,6-Tribromophenol	71	(10 - 123)
Terphenyl-d14	81	(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 Semivolatiles

Client Lot #...: I0A210149 **Work Order #...:** D8292101 **Matrix.....:** WATER
LCS Lot-Sample#: I0A310000-185
Prep Date.....: 01/31/00 **Analysis Date..:** 02/07/00
Prep Batch #...: 0031185 **Analysis Time..:** 13:32
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
o-Cresol	**0.500**	**0.410**	**mg/L**	**82**	**SW846 8270C**
m-Cresol & p-Cresol	**1.00**	**0.813**	**mg/L**	**81**	**SW846 8270C**
1,4-Dichlorobenzene	**0.500**	**0.321**	**mg/L**	**64**	**SW846 8270C**
2,4-Dinitrotoluene	**0.500**	**0.427**	**mg/L**	**85**	**SW846 8270C**
Hexachlorobenzene	**0.500**	**0.561**	**mg/L**	**112**	**SW846 8270C**
Hexachlorobutadiene	**0.500**	**0.330**	**mg/L**	**66**	**SW846 8270C**
Hexachloroethane	**0.500**	**0.285**	**mg/L**	**57**	**SW846 8270C**
Nitrobenzene	**0.500**	**0.370**	**mg/L**	**74**	**SW846 8270C**
Pentachlorophenol	**0.500**	**0.339**	**mg/L**	**68**	**SW846 8270C**
Pyridine	**0.500**	**0.160**	**mg/L**	**32**	**SW846 8270C**
2,4,5-Trichlorophenol	**0.500**	**0.461**	**mg/L**	**92**	**SW846 8270C**
2,4,6-Trichlorophenol	**0.500**	**0.485**	**mg/L**	**97**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(21 - 100)
Phenol-d5	72	(10 - 94)
Nitrobenzene-d5	75	(35 - 114)
2-Fluorobiphenyl	85	(43 - 116)
2,4,6-Tribromophenol	97	(10 - 123)
Terphenyl-d14	124	(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 #...: I0A210149 **Work Order #...:** D83Q8102 **Matrix.....:** WATER
LCS Lot-Sample#: I0B010000-249
Prep Date.....: 01/31/00 **Analysis Date..:** 02/01/00
Prep Batch #...: 0032249 **Analysis Time..:** 00:10
Dilution Factor: 10

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**0.500**	**0.540**	**mg/L**	**108**	**SW846 8260B**
Carbon tetrachloride	**0.500**	**0.562**	**mg/L**	**112**	**SW846 8260B**
Chlorobenzene	**0.500**	**0.556**	**mg/L**	**111**	**SW846 8260B**
Chloroform	**0.500**	**0.547**	**mg/L**	**109**	**SW846 8260B**
1,2-Dichloroethane	**0.500**	**0.563**	**mg/L**	**113**	**SW846 8260B**
1,1-Dichloroethylene	**0.500**	**0.555**	**mg/L**	**111**	**SW846 8260B**
Methyl ethyl ketone	**0.500**		**mg/L**	**101**	**SW846 8260B**
Tetrachloroethylene	**0.500**	**0.508**	**mg/L**	**102**	**SW846 8260B**
Trichloroethylene	**0.500**	**0.546**	**mg/L**	**109**	**SW846 8260B**
Vinyl chloride	**0.500**		**mg/L**	**93**	**SW846 8260B**
1,4-Dichlorobenzene	**0.500**	**0.549**	**mg/L**	**110**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(86 - 115)
Toluene-d8	99	(88 - 110)
Dibromofluoromethane	100	(86 - 118)
1,2-Dichloroethane-d4	96	(80 - 120)

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 #...: I0A210149 **Work Order #...:** D88W9102 **Matrix.....:** SOLID
LCS Lot-Sample#: I0B050000-129
Prep Date.....: 02/04/00 **Analysis Date..:** 02/04/00
Prep Batch #...: 0036129 **Analysis Time..:** 21:59
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	**0.500**	**0.480**	**mg/L**	**96**	**SW846 8260B**
Carbon tetrachloride	**0.500**	**0.473**	**mg/L**	**95**	**SW846 8260B**
Chlorobenzene	**0.500**	**0.495**	**mg/L**	**99**	**SW846 8260B**
Chloroform	**0.500**	**0.453**	**mg/L**	**91**	**SW846 8260B**
1,2-Dichloroethane	**0.500**	**0.474**	**mg/L**	**95**	**SW846 8260B**
1,1-Dichloroethylene	**0.500**	**0.479**	**mg/L**	**96**	**SW846 8260B**
Methyl ethyl ketone	**0.500**	**0.417**	**mg/L**	**83**	**SW846 8260B**
Tetrachloroethylene	**0.500**	**0.332**	**mg/L**	**66**	**SW846 8260B**
Trichloroethylene	**0.500**	**0.455**	**mg/L**	**91**	**SW846 8260B**
Vinyl chloride	**0.500**	**0.445**	**mg/L**	**89**	**SW846 8260B**
1,4-Dichlorobenzene	**0.500**	**0.497**	**mg/L**	**99**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	107	(86 - 115)
Toluene-d8	93	(88 - 110)
Dibromofluoromethane	95	(86 - 118)
1,2-Dichloroethane-d4	92	(80 - 120)

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

General Chemistry

Client Lot #...: I0A210149 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)			Work Order #:	D7P0T101	LCS Lot-Sample#:	I0A210000-389	
	9.12	8.59	No Units	94	SW846 9040B	01/21/00	0021389
			Dilution Factor: 1				
			Analysis Time..: 16:00				
Flashpoint			Work Order #:	D84V6102	LCS Lot-Sample#:	D0B020000-280	
	84.0	84.0	deg F	100	SW846 1010	02/02/00	0033280
			Dilution Factor: 1				
			Analysis Time..: 00:00				
Reactive Cyanide			Work Order #:	D7XGA102	LCS Lot-Sample#:	D0A270000-378	
	100	25.7	mg/L	26	SW846 7.3.3	01/25-01/27/00	0027378
			Dilution Factor: 1				
			Analysis Time..: 12:00				
Reactive Sulfide			Work Order #:	D7WWV102	LCS Lot-Sample#:	D0A270000-260	
	596	155	mg/L	26	SW846 7.3.4	01/25/00	0027260
			Dilution Factor: 1				
			Analysis Time..: 16:00				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I0A210149 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide			Work Order #: D7XEG102 LCS Lot-Sample#: D0A270000-371				
	100	24.8	mg/kg	25	SW846 7.3.3	01/25-01/26/00	0027371
			Dilution Factor: 1				
			Analysis Time..: 12:00				
Reactive Sulfide			Work Order #: D7WX2102 LCS Lot-Sample#: D0A270000-262				
	596	152	mg/kg	25	SW846 7.3.4	01/25/00	0027262
			Dilution Factor: 1				
			Analysis Time..: 16:00				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I0A310000-257 **Prep Batch #...:** 0031257							
Arsenic	2.00	2.01	mg/L	101	SW846 6010B	01/31/00	D82EQ101
			Dilution Factor: 1				
			Analysis Time..: 17:05				
Barium	2.00		mg/L	105	SW846 6010B	01/31/00	D82EQ102
			Dilution Factor: 1				
			Analysis Time..: 17:05				
Cadmium	0.0500		mg/L	86	SW846 6010B	01/31/00	D82EQ103
			Dilution Factor: 1				
			Analysis Time..: 17:05				
Chromium	0.200		mg/L	109	SW846 6010B	01/31/00	D82EQ104
			Dilution Factor: 1				
			Analysis Time..: 17:05				
Lead	0.500	0.526	mg/L	105	SW846 6010B	01/31/00	D82EQ105
			Dilution Factor: 1				
			Analysis Time..: 17:05				
Selenium	2.00	1.93	mg/L	97	SW846 6010B	01/31/00	D82EQ106
			Dilution Factor: 1				
			Analysis Time..: 17:05				
Silver	0.0500		mg/L	99	SW846 6010B	01/31/00	D82EQ107
			Dilution Factor: 1				
			Analysis Time..: 17:05				
LCS Lot-Sample#: I0A310000-271 **Prep Batch #...:** 0031271							
Mercury	0.00500	0.00523	mg/L	105	SW846 7470A	01/31-02/01/00	D82GK101
			Dilution Factor: 1				
			Analysis Time..: 15:10				

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I0A310000-263 **Prep Batch #...:** 0031263							
Arsenic	2.00	2.06	mg/L	103	SW846 6010B	01/31/00	D82FH104
			Dilution Factor: 1				
			Analysis Time..: 16:37				
Barium	2.00		mg/L	101	SW846 6010B	01/31/00	D82FH105
			Dilution Factor: 1				
			Analysis Time..: 16:37				
Cadmium	0.0500		mg/L	83	SW846 6010B	01/31/00	D82FH106
			Dilution Factor: 1				
			Analysis Time..: 16:37				
Chromium	0.200		mg/L	106	SW846 6010B	01/31/00	D82FH107
			Dilution Factor: 1				
			Analysis Time..: 16:37				
Lead	0.500	0.530	mg/L	106	SW846 6010B	01/31/00	D82FH101
			Dilution Factor: 1				
			Analysis Time..: 16:37				
Selenium	2.00	2.06	mg/L	103	SW846 6010B	01/31/00	D82FH102
			Dilution Factor: 1				
			Analysis Time..: 16:37				
Silver	0.0500		mg/L	100	SW846 6010B	01/31/00	D82FH103
			Dilution Factor: 1				
			Analysis Time..: 16:37				
LCS Lot-Sample#: I0A310000-306 **Prep Batch #...:** 0031306							
Mercury	0.00500	0.00522	mg/L	104	SW846 7470A	01/31-02/01/00	D82JV101
			Dilution Factor: 1				
			Analysis Time..: 15:25				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: I0A210149 **Work Order #...:** D8291101 **Matrix.....:** SOLID
LCS Lot-Sample#: I0A310000-183
Prep Date.....: 01/31/00 **Analysis Date..:** 02/03/00
Prep Batch #...: 0031183 **Analysis Time..:** 15:38
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
o-Cresol	**74**	**(21 - 137)**	**SW846 8270C**
m-Cresol & p-Cresol	**64**	**(19 - 126)**	**SW846 8270C**
1,4-Dichlorobenzene	**60**	**(26 - 112)**	**SW846 8270C**
2,4-Dinitrotoluene	**69**	**(31 - 106)**	**SW846 8270C**
Hexachlorobenzene	**78**	**(42 - 120)**	**SW846 8270C**
Hexachlorobutadiene	**57**	**(33 - 111)**	**SW846 8270C**
Hexachloroethane	**57**	**(26 - 102)**	**SW846 8270C**
Nitrobenzene	**72**	**(42 - 120)**	**SW846 8270C**
Pentachlorophenol	**54**	**(12 - 156)**	**SW846 8270C**
Pyridine	**50**	**(1.0- 144)**	**SW846 8270C**
2,4,5-Trichlorophenol	**60**	**(29 - 123)**	**SW846 8270C**
2,4,6-Trichlorophenol	**66**	**(19 - 122)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	63	(21 - 100)
Phenol-d5	62	(10 - 94)
Nitrobenzene-d5	72	(35 - 114)
2-Fluorobiphenyl	64	(43 - 116)
2,4,6-Tribromophenol	71	(10 - 123)
Terphenyl-d14	81	(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 #...: I0A210149 **Work Order #...:** D8292101 **Matrix.....:** WATER
LCS Lot-Sample#: I0A310000-185
Prep Date.....: 01/31/00 **Analysis Date..:** 02/07/00
Prep Batch #...: 0031185 **Analysis Time..:** 13:32
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
o-Cresol	**82**	**(21 - 137)**	**SW846 8270C**
m-Cresol & p-Cresol	**81**	**(19 - 126)**	**SW846 8270C**
1,4-Dichlorobenzene	**64**	**(26 - 112)**	**SW846 8270C**
2,4-Dinitrotoluene	**85**	**(31 - 106)**	**SW846 8270C**
Hexachlorobenzene	**112**	**(42 - 120)**	**SW846 8270C**
Hexachlorobutadiene	**66**	**(33 - 111)**	**SW846 8270C**
Hexachloroethane	**57**	**(26 - 102)**	**SW846 8270C**
Nitrobenzene	**74**	**(42 - 120)**	**SW846 8270C**
Pentachlorophenol	**68**	**(12 - 156)**	**SW846 8270C**
Pyridine	**32**	**(1.0- 144)**	**SW846 8270C**
2,4,5-Trichlorophenol	**92**	**(29 - 123)**	**SW846 8270C**
2,4,6-Trichlorophenol	**97**	**(19 - 122)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	73	(21 - 100)
Phenol-d5	72	(10 - 94)
Nitrobenzene-d5	75	(35 - 114)
2-Fluorobiphenyl	85	(43 - 116)
2,4,6-Tribromophenol	97	(10 - 123)
Terphenyl-d14	124	(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 Volatiles

Client Lot #...: I0A210149 **Work Order #...:** D83Q8102 **Matrix.....:** WATER
LCS Lot-Sample#: I0B010000-249
Prep Date.....: 01/31/00 **Analysis Date..:** 02/01/00
Prep Batch #...: 0032249 **Analysis Time..:** 00:10
Dilution Factor: 10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**108**	**(37 - 151)**	**SW846 8260B**
Carbon tetrachloride	**112**	**(71 - 240)**	**SW846 8260B**
Chlorobenzene	**111**	**(37 - 160)**	**SW846 8260B**
Chloroform	**109**	**(51 - 136)**	**SW846 8260B**
1,2-Dichloroethane	**113**	**(49 - 155)**	**SW846 8260B**
1,1-Dichloroethylene	**111**	**(59 - 155)**	**SW846 8260B**
Methyl ethyl ketone	**101**	**(25 - 250)**	**SW846 8260B**
Tetrachloroethylene	**102**	**(46 - 157)**	**SW846 8260B**
Trichloroethylene	**109**	**(71 - 157)**	**SW846 8260B**
Vinyl chloride	**93**	**(1.0- 251)**	**SW846 8260B**
1,4-Dichlorobenzene	**110**	**(75 - 137)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(86 - 115)
Toluene-d8	99	(88 - 110)
Dibromofluoromethane	100	(86 - 118)
1,2-Dichloroethane-d4	96	(80 - 120)

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 #...: I0A210149 **Work Order #...:** D88W9102 **Matrix.....:** SOLID
LCS Lot-Sample#: I0B050000-129
Prep Date.....: 02/04/00 **Analysis Date..:** 02/04/00
Prep Batch #...: 0036129 **Analysis Time..:** 21:59
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	**96**	**(37 - 151)**	**SW846 8260B**
Carbon tetrachloride	**95**	**(71 - 240)**	**SW846 8260B**
Chlorobenzene	**99**	**(37 - 160)**	**SW846 8260B**
Chloroform	**91**	**(51 - 136)**	**SW846 8260B**
1,2-Dichloroethane	**95**	**(49 - 155)**	**SW846 8260B**
1,1-Dichloroethylene	**96**	**(59 - 155)**	**SW846 8260B**
Methyl ethyl ketone	**83**	**(25 - 250)**	**SW846 8260B**
Tetrachloroethylene	**66**	**(46 - 157)**	**SW846 8260B**
Trichloroethylene	**91**	**(71 - 157)**	**SW846 8260B**
Vinyl chloride	**89**	**(1.0- 251)**	**SW846 8260B**
1,4-Dichlorobenzene	**99**	**(75 - 137)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	107	(86 - 115)
Toluene-d8	93	(88 - 110)
Dibromofluoromethane	95	(86 - 118)
1,2-Dichloroethane-d4	92	(80 - 120)

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

General Chemistry

Client Lot #...: I0A210149 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)		Work Order #: D7P0T101		LCS Lot-Sample#: I0A210000-389	
	94	(90 - 110)	SW846 9040B	01/21/00	0021389
		Dilution Factor: 1			
		Analysis Time..: 16:00			
Flashpoint		Work Order #: D84V6102		LCS Lot-Sample#: D0B020000-280	
	100	(98 - 102)	SW846 1010	02/02/00	0033280
		Dilution Factor: 1			
		Analysis Time..: 00:00			
Reactive Cyanide		Work Order #: D7XGA102		LCS Lot-Sample#: D0A270000-378	
	26	(4.0- 98)	SW846 7.3.3	01/25-01/27/00	0027378
		Dilution Factor: 1			
		Analysis Time..: 12:00			
Reactive Sulfide		Work Order #: D7WWV102		LCS Lot-Sample#: D0A270000-260	
	26	(5.0- 164)	SW846 7.3.4	01/25/00	0027260
		Dilution Factor: 1			
		Analysis Time..: 16:00			

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I0A210149 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide		Work Order #: D7XEG102	LCS Lot-Sample#: D0A270000-371		
	25	(4.0- 98)	SW846 7.3.3	01/25-01/26/00	0027371
		Dilution Factor: 1			
		Analysis Time..: 12:00			
Reactive Sulfide		Work Order #: D7WX2102	LCS Lot-Sample#: D0A270000-262		
	25	(5.0- 164)	SW846 7.3.4	01/25/00	0027262
		Dilution Factor: 1			
		Analysis Time..: 16:00			

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I0A310000-257 **Prep Batch #...:** 0031257					
Arsenic	101	(80 - 120)	SW846 6010B	01/31/00	D82EQ101
		Dilution Factor: 1			
		Analysis Time..: 17:05			
Barium	105	(80 - 120)	SW846 6010B	01/31/00	D82EQ102
		Dilution Factor: 1			
		Analysis Time..: 17:05			
Cadmium	86	(80 - 120)	SW846 6010B	01/31/00	D82EQ103
		Dilution Factor: 1			
		Analysis Time..: 17:05			
Chromium	109	(80 - 120)	SW846 6010B	01/31/00	D82EQ104
		Dilution Factor: 1			
		Analysis Time..: 17:05			
Lead	105	(80 - 120)	SW846 6010B	01/31/00	D82EQ105
		Dilution Factor: 1			
		Analysis Time..: 17:05			
Selenium	97	(80 - 120)	SW846 6010B	01/31/00	D82EQ106
		Dilution Factor: 1			
		Analysis Time..: 17:05			
Silver	99	(80 - 120)	SW846 6010B	01/31/00	D82EQ107
		Dilution Factor: 1			
		Analysis Time..: 17:05			
LCS Lot-Sample#: I0A310000-271 **Prep Batch #...:** 0031271					
Mercury	105	(80 - 120)	SW846 7470A	01/31-02/01/00	D82GK101
		Dilution Factor: 1			
		Analysis Time..: 15:10			

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: I0A310000-263 **Prep Batch #...:** 0031263					
Arsenic	103	(80 - 120)	SW846 6010B	01/31/00	D82FH104
		Dilution Factor: 1			
		Analysis Time..: 16:37			
Barium	101	(80 - 120)	SW846 6010B	01/31/00	D82FH105
		Dilution Factor: 1			
		Analysis Time..: 16:37			
Cadmium	83	(80 - 120)	SW846 6010B	01/31/00	D82FH106
		Dilution Factor: 1			
		Analysis Time..: 16:37			
Chromium	106	(80 - 120)	SW846 6010B	01/31/00	D82FH107
		Dilution Factor: 1			
		Analysis Time..: 16:37			
Lead	106	(80 - 120)	SW846 6010B	01/31/00	D82FH101
		Dilution Factor: 1			
		Analysis Time..: 16:37			
Selenium	103	(80 - 120)	SW846 6010B	01/31/00	D82FH102
		Dilution Factor: 1			
		Analysis Time..: 16:37			
Silver	100	(80 - 120)	SW846 6010B	01/31/00	D82FH103
		Dilution Factor: 1			
		Analysis Time..: 16:37			
LCS Lot-Sample#: I0A310000-306 **Prep Batch #...:** 0031306					
Mercury	104	(80 - 120)	SW846 7470A	01/31-02/01/00	D82JV101
		Dilution Factor: 1			
		Analysis Time..: 15:25			

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** SOLID
Date Sampled...: 01/20/00 11:40 **Date Received..:** 01/21/00

MS Lot-Sample #: I0A210150-001 **Prep Batch #...:** 0031263
Leach Date.....: 01/27/00 **Leach Batch #..:** P002711

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Arsenic									
	ND	5.00	5.01	mg/L	99		SW846 6010B	01/31/00	D7NC610W
	ND	5.00	5.04	mg/L	100	0.57	SW846 6010B	01/31/00	D7NC610X
			Dilution Factor: 1						
			Analysis Time..: 16:45						
			MS Run #.....: 0031086						
Barium									
	ND	50.0	51.6	mg/L	100		SW846 6010B	01/31/00	D7NC6110
	ND	50.0	51.0	mg/L	99	1.3	SW846 6010B	01/31/00	D7NC6111
			Dilution Factor: 1						
			Analysis Time..: 16:45						
			MS Run #.....: 0031086						
Cadmium									
	ND	1.00	0.949	mg/L	95		SW846 6010B	01/31/00	D7NC6112
	ND	1.00	0.944	mg/L	94	0.50	SW846 6010B	01/31/00	D7NC6113
			Dilution Factor: 1						
			Analysis Time..: 16:45						
			MS Run #.....: 0031086						
Chromium									
	ND	5.00	4.73	mg/L	95		SW846 6010B	01/31/00	D7NC6114
	ND	5.00	4.73	mg/L	95	0.12	SW846 6010B	01/31/00	D7NC6115
			Dilution Factor: 1						
			Analysis Time..: 16:45						
			MS Run #.....: 0031086						
Lead									
	ND	5.00	4.71	mg/L	94		SW846 6010B	01/31/00	D7NC610P
	ND	5.00	4.67	mg/L	93	0.65	SW846 6010B	01/31/00	D7NC610Q
			Dilution Factor: 1						
			Analysis Time..: 16:45						
			MS Run #.....: 0031086						
Selenium									
	ND	1.00	1.01	mg/L	101		SW846 6010B	01/31/00	D7NC610R
	ND	1.00	1.01	mg/L	101	0.48	SW846 6010B	01/31/00	D7NC610T
			Dilution Factor: 1						
			Analysis Time..: 16:45						
			MS Run #.....: 0031086						

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MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** SOLID
Date Sampled...: 01/20/00 11:40 **Date Received..:** 01/21/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver									
	ND	1.00	0.962	mg/L	96		SW846 6010B	01/31/00	D7NC610U
	ND	1.00	0.954	mg/L	95	0.78	SW846 6010B	01/31/00	D7NC610V

Dilution Factor: 1
Analysis Time..: 16:45
MS Run #.....: 0031086

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 #...:	I0A210149	**Work Order #...:**	D7NC610M-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I0A210150-001		D7NC610N-MSD		
Date Sampled...:	01/20/00 11:40	**Date Received..:**	01/21/00	**MS Run #.....:**	0031059
Leach Date.....:	01/27/00	**Prep Date.....:**	01/31/00	**Analysis Date..:**	02/03/00
Leach Batch #..:	P002711	**Prep Batch #...:**	0031183	**Analysis Time..:**	16:36
Dilution Factor:	1				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	**ND**	**0.500**	**0.347**	**mg/L**	**69**		**SW846 8270C**
	ND	**0.500**	**0.347**	**mg/L**	**69**	**0.08**	**SW846 8270C**
m-Cresol & p-Cresol	**0.22**	**1.00**	**0.821**	**mg/L**	**61**		**SW846 8270C**
	0.22	**1.00**	**0.807**	**mg/L**	**59**	**1.8**	**SW846 8270C**
1,4-Dichlorobenzene	**ND**	**0.500**	**0.303**	**mg/L**	**61**		**SW846 8270C**
	ND	**0.500**	**0.316**	**mg/L**	**63**	**4.2**	**SW846 8270C**
2,4-Dinitrotoluene	**ND**	**0.500**	**0.376**	**mg/L**	**75**		**SW846 8270C**
	ND	**0.500**	**0.390**	**mg/L**	**78**	**3.7**	**SW846 8270C**
Hexachlorobenzene	**ND**	**0.500**	**0.360**	**mg/L**	**72**		**SW846 8270C**
	ND	**0.500**	**0.399**	**mg/L**	**80**	**10**	**SW846 8270C**
Hexachlorobutadiene	**ND**	**0.500**	**0.279**	**mg/L**	**56**		**SW846 8270C**
	ND	**0.500**	**0.317**	**mg/L**	**63**	**13**	**SW846 8270C**
Hexachloroethane	**ND**	**0.500**	**0.290**	**mg/L**	**58**		**SW846 8270C**
	ND	**0.500**	**0.303**	**mg/L**	**61**	**4.3**	**SW846 8270C**
Nitrobenzene	**ND**	**0.500**	**0.337**	**mg/L**	**67**		**SW846 8270C**
	ND	**0.500**	**0.370**	**mg/L**	**74**	**9.4**	**SW846 8270C**
Pentachlorophenol	**ND**	**0.500**	**0.442**	**mg/L**	**88**		**SW846 8270C**
	ND	**0.500**	**0.514**	**mg/L**	**103**	**15**	**SW846 8270C**
Pyridine	**ND**	**0.500**	**0.266**	**mg/L**	**53**		**SW846 8270C**
	ND	**0.500**	**0.265**	**mg/L**	**53**	**0.50**	**SW846 8270C**
2,4,5-Trichlorophenol	**ND**	**0.500**	**0.337**	**mg/L**	**67**		**SW846 8270C**
	ND	**0.500**	**0.339**	**mg/L**	**68**	**0.55**	**SW846 8270C**
2,4,6-Trichlorophenol	**ND**	**0.500**	**0.358**	**mg/L**	**72**		**SW846 8270C**
	ND	**0.500**	**0.353**	**mg/L**	**71**	**1.5**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(21 - 100)
	61	(21 - 100)
Phenol-d5	59	(10 - 94)
	58	(10 - 94)
Nitrobenzene-d5	66	(35 - 114)
	70	(35 - 114)
2-Fluorobiphenyl	64	(43 - 116)
	64	(43 - 116)
2,4,6-Tribromophenol	75	(10 - 123)
	72	(10 - 123)
Terphenyl-d14	69	(33 - 141)
	72	(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 #...:	I0A210149	**Work Order #...:**	D7NC6116-MS	**Matrix.....:**	SOLID
MS Lot-Sample #:	I0A210150-001		D7NC6117-MSD		
Date Sampled...:	01/20/00 11:40	**Date Received..:**	01/21/00	**MS Run #.....:**	0036008
Leach Date.....:	01/31/00	**Prep Date.....:**	02/04/00	**Analysis Date..:**	02/04/00
Leach Batch #..:	P003109	**Prep Batch #...:**	0036129	**Analysis Time..:**	23:20
Dilution Factor:	1				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**ND**	**0.500**	**0.486**	**mg/L**	**97**		**SW846 8260B**
	ND	**0.500**	**0.476**	**mg/L**	**95**	**2.0**	**SW846 8260B**
Carbon tetrachloride	**ND**	**0.500**	**0.467**	**mg/L**	**93**		**SW846 8260B**
	ND	**0.500**	**0.454**	**mg/L**	**91**	**2.9**	**SW846 8260B**
Chlorobenzene	**ND**	**0.500**	**0.504**	**mg/L**	**101**		**SW846 8260B**
	ND	**0.500**	**0.493**	**mg/L**	**99**	**2.2**	**SW846 8260B**
Chloroform	**ND**	**0.500**	**0.466**	**mg/L**	**93**		**SW846 8260B**
	ND	**0.500**	**0.456**	**mg/L**	**91**	**2.2**	**SW846 8260B**
1,2-Dichloroethane	**ND**	**0.500**	**0.461**	**mg/L**	**92**		**SW846 8260B**
	ND	**0.500**	**0.454**	**mg/L**	**91**	**1.5**	**SW846 8260B**
1,1-Dichloroethylene	**ND**	**0.500**	**0.484**	**mg/L**	**97**		**SW846 8260B**
	ND	**0.500**	**0.469**	**mg/L**	**94**	**3.2**	**SW846 8260B**
Methyl ethyl ketone	**ND**	**0.500**	**0.415**	**mg/L**	**78**		**SW846 8260B**
	ND	**0.500**	**0.388**	**mg/L**	**73**	**6.6**	**SW846 8260B**
Tetrachloroethylene	**ND**	**0.500**	**0.344**	**mg/L**	**69**		**SW846 8260B**
	ND	**0.500**	**0.338**	**mg/L**	**68**	**1.6**	**SW846 8260B**
Trichloroethylene	**ND**	**0.500**	**0.456**	**mg/L**	**91**		**SW846 8260B**
	ND	**0.500**	**0.444**	**mg/L**	**89**	**2.8**	**SW846 8260B**
Vinyl chloride	**ND**	**0.500**	**0.455**	**mg/L**	**91**		**SW846 8260B**
	ND	**0.500**	**0.455**	**mg/L**	**91**	**0.03**	**SW846 8260B**
1,4-Dichlorobenzene	**ND**	**0.500**	**0.489**	**mg/L**	**98**		**SW846 8260B**
	ND	**0.500**	**0.484**	**mg/L**	**97**	**1.2**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	104	(86 - 115)
	104	(86 - 115)
Toluene-d8	92	(88 - 110)
	91	(88 - 110)
Dibromofluoromethane	91	(86 - 118)
	89	(86 - 118)
1,2-Dichloroethane-d4	89	(80 - 120)
	87	(80 - 120)

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 Metals

Client Lot #...: I0A210149 **Matrix.....:** WATER
Date Sampled...: 01/20/00 10:50 **Date Received..:** 01/21/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I0A210150-002 **Prep Batch #...:** 0031257									
Leach Date.....: 01/27/00 **Leach Batch #..:** P002712									
Arsenic									
	ND	5.00	5.20	mg/L	104		SW846 6010B	01/31/00	D7NDH10N
	ND	5.00	5.34	mg/L	107	2.7	SW846 6010B	01/31/00	D7NDH10P
			Dilution Factor: 1						
			Analysis Time..: 17:13						
			MS Run #.....: 0031081						
Barium									
	ND	50.0	54.7	mg/L	109		SW846 6010B	01/31/00	D7NDH10Q
	ND	50.0	55.9	mg/L	112	2.2	SW846 6010B	01/31/00	D7NDH10R
			Dilution Factor: 1						
			Analysis Time..: 17:13						
			MS Run #.....: 0031081						
Cadmium									
	ND	1.00	0.971	mg/L	97		SW846 6010B	01/31/00	D7NDH10T
	ND	1.00	0.975	mg/L	97	0.39	SW846 6010B	01/31/00	D7NDH10U
			Dilution Factor: 1						
			Analysis Time..: 17:13						
			MS Run #.....: 0031081						
Chromium									
	ND	5.00	5.27	mg/L	105		SW846 6010B	01/31/00	D7NDH10V
	ND	5.00	5.30	mg/L	106	0.60	SW846 6010B	01/31/00	D7NDH10W
			Dilution Factor: 1						
			Analysis Time..: 17:13						
			MS Run #.....: 0031081						
Lead									
	ND	5.00	5.17	mg/L	103		SW846 6010B	01/31/00	D7NDH10X
	ND	5.00	5.16	mg/L	103	0.31	SW846 6010B	01/31/00	D7NDH110
			Dilution Factor: 1						
			Analysis Time..: 17:13						
			MS Run #.....: 0031081						
Selenium									
	ND	1.00	1.03	mg/L	103		SW846 6010B	01/31/00	D7NDH111
	ND	1.00	1.05	mg/L	105	2.5	SW846 6010B	01/31/00	D7NDH112
			Dilution Factor: 1						
			Analysis Time..: 17:13						
			MS Run #.....: 0031081						

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MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** WATER
Date Sampled...: 01/20/00 10:50 **Date Received..:** 01/21/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver									
	ND	1.00	0.972	mg/L	97		SW846 6010B	01/31/00	D7NDH113
	ND	1.00	0.982	mg/L	98	0.94	SW846 6010B	01/31/00	D7NDH114

Dilution Factor: 1
Analysis Time..: 17:13
MS Run #.....: 0031081

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 #...:	I0A210149	**Work Order #...:**	D7NDH10L-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	I0A210150-002		D7NDH10M-MSD		
Date Sampled...:	01/20/00 10:50	**Date Received..:**	01/21/00	**MS Run #.....:**	0031060
Leach Date.....:	01/27/00	**Prep Date.....:**	01/31/00	**Analysis Date..:**	02/09/00
Leach Batch #..:	P002712	**Prep Batch #...:**	0031185	**Analysis Time..:**	14:31
Dilution Factor:	1				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
o-Cresol	**ND**	**0.500**	**0.406**	**mg/L**	**81**		**SW846 8270C**
	ND	**0.500**	**0.381**	**mg/L**	**76**	**6.3**	**SW846 8270C**
m-Cresol & p-Cresol	**ND**	**1.00**	**0.832**	**mg/L**	**81**		**SW846 8270C**
	ND	**1.00**	**0.799**	**mg/L**	**78**	**4.1**	**SW846 8270C**
1,4-Dichlorobenzene	**ND**	**0.500**	**0.295**	**mg/L**	**59**		**SW846 8270C**
	ND	**0.500**	**0.281**	**mg/L**	**56**	**4.7**	**SW846 8270C**
2,4-Dinitrotoluene	**ND**	**0.500**	**0.396**	**mg/L**	**79**		**SW846 8270C**
	ND	**0.500**	**0.388**	**mg/L**	**78**	**2.0**	**SW846 8270C**
Hexachlorobenzene	**ND**	**0.500**	**0.473**	**mg/L**	**95**		**SW846 8270C**
	ND	**0.500**	**0.368**	**mg/L**	**74**	**25**	**SW846 8270C**
Hexachlorobutadiene	**ND**	**0.500**	**0.298**	**mg/L**	**60**		**SW846 8270C**
	ND	**0.500**	**0.259**	**mg/L**	**52**	**14**	**SW846 8270C**
Hexachloroethane	**ND**	**0.500**	**0.288**	**mg/L**	**58**		**SW846 8270C**
	ND	**0.500**	**0.280**	**mg/L**	**56**	**3.0**	**SW846 8270C**
Nitrobenzene	**ND**	**0.500**	**0.376**	**mg/L**	**75**		**SW846 8270C**
	ND	**0.500**	**0.352**	**mg/L**	**70**	**6.5**	**SW846 8270C**
Pentachlorophenol	**ND**	**0.500**	**0.527**	**mg/L**	**105**		**SW846 8270C**
	ND	**0.500**	**0.522**	**mg/L**	**104**	**0.89**	**SW846 8270C**
Pyridine	**ND**	**0.500**	**0.250**	**mg/L**	**50**		**SW846 8270C**
	ND	**0.500**	**0.281**	**mg/L**	**56**	**12**	**SW846 8270C**
2,4,5-Trichlorophenol	**ND**	**0.500**	**0.468**	**mg/L**	**94**		**SW846 8270C**
	ND	**0.500**	**0.482**	**mg/L**	**96**	**3.1**	**SW846 8270C**
2,4,6-Trichlorophenol	**ND**	**0.500**	**0.455**	**mg/L**	**91**		**SW846 8270C**
	ND	**0.500**	**0.457**	**mg/L**	**91**	**0.39**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(21 - 100)
	69	(21 - 100)
Phenol-d5	70	(10 - 94)
	69	(10 - 94)
Nitrobenzene-d5	73	(35 - 114)
	69	(35 - 114)
2-Fluorobiphenyl	72	(43 - 116)
	76	(43 - 116)
2,4,6-Tribromophenol	108	(10 - 123)
	106	(10 - 123)
Terphenyl-d14	92	(33 - 141)
	58	(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 #...:	I0A210149	**Work Order #...:**	D7NDH115-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	I0A210150-002		D7NDH116-MSD		
Date Sampled...:	01/20/00 10:50	**Date Received..:**	01/21/00	**MS Run #.....:**	0032078
Leach Date.....:	01/31/00	**Prep Date.....:**	01/31/00	**Analysis Date..:**	02/01/00
Leach Batch #..:	P003110	**Prep Batch #...:**	0032249	**Analysis Time..:**	01:35
Dilution Factor:	10				

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**ND**	**0.500**	**0.546**	**mg/L**	**109**		**SW846 8260B**
	ND	**0.500**	**0.559**	**mg/L**	**112**	**2.3**	**SW846 8260B**
Carbon tetrachloride	**ND**	**0.500**	**0.563**	**mg/L**	**113**		**SW846 8260B**
	ND	**0.500**	**0.589**	**mg/L**	**118**	**4.4**	**SW846 8260B**
Chlorobenzene	**ND**	**0.500**	**0.542**	**mg/L**	**108**		**SW846 8260B**
	ND	**0.500**	**0.564**	**mg/L**	**113**	**3.9**	**SW846 8260B**
Chloroform	**ND**	**0.500**	**0.548**	**mg/L**	**110**		**SW846 8260B**
	ND	**0.500**	**0.566**	**mg/L**	**113**	**3.2**	**SW846 8260B**
1,2-Dichloroethane	**ND**	**0.500**	**0.556**	**mg/L**	**111**		**SW846 8260B**
	ND	**0.500**	**0.569**	**mg/L**	**114**	**2.4**	**SW846 8260B**
1,1-Dichloroethylene	**ND**	**0.500**	**0.567**	**mg/L**	**113**		**SW846 8260B**
	ND	**0.500**	**0.604**	**mg/L**	**121**	**6.2**	**SW846 8260B**
Methyl ethyl ketone	**ND**	**0.500**		**mg/L**	**153**		**SW846 8260B**
	ND	**0.500**		**mg/L**	**147**	**3.3**	**SW846 8260B**
Tetrachloroethylene	**ND**	**0.500**	**0.501**	**mg/L**	**100**		**SW846 8260B**
	ND	**0.500**	**0.518**	**mg/L**	**104**	**3.4**	**SW846 8260B**
Trichloroethylene	**ND**	**0.500**	**0.549**	**mg/L**	**110**		**SW846 8260B**
	ND	**0.500**	**0.564**	**mg/L**	**113**	**2.7**	**SW846 8260B**
Vinyl chloride	**ND**	**0.500**		**mg/L**	**98**		**SW846 8260B**
	ND	**0.500**		**mg/L**	**103**	**4.7**	**SW846 8260B**
1,4-Dichlorobenzene	**ND**	**0.500**	**0.535**	**mg/L**	**107**		**SW846 8260B**
	ND	**0.500**	**0.540**	**mg/L**	**108**	**0.85**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	99	(86 - 115)
	99	(86 - 115)
Toluene-d8	100	(88 - 110)
	100	(88 - 110)
Dibromofluoromethane	99	(86 - 118)
	101	(86 - 118)
1,2-Dichloroethane-d4	93	(80 - 120)
	98	(80 - 120)

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 Metals

Client Lot #...: I0A210149 **Matrix.....:** WATER
Date Sampled...: 01/25/00 10:15 **Date Received..:** 01/26/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I0A260164-002 **Prep Batch #...:** 0031271									
Leach Date.....: 01/27/00 **Leach Batch #..:** P002712									
Mercury									
	ND	0.001		mg/L	102		SW846 7470A	01/31-02/01/00	D7VN110J
	ND	0.001		mg/L	103	1.4	SW846 7470A	01/31-02/01/00	D7VN110K

Dilution Factor: 1
Analysis Time..: 15:21
MS Run #.....: 0031096

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** SOLID
Date Sampled...: 01/25/00 **Date Received..:** 01/27/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #:	I0A270204-001	**Prep Batch #...:**	0031306						
Leach Date.....:	01/27/00	**Leach Batch #..:**	P002711						
Mercury									
	ND	0.001		mg/L	107		SW846 7470A	01/31-02/01/00	D7XKR10C
	ND	0.001		mg/L	103	3.5	SW846 7470A	01/31-02/01/00	D7XKR10D

Dilution Factor: 1
Analysis Time..: 15:36
MS Run #.....: 0031109

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** SOLID
Date Sampled...: 01/20/00 11:40 **Date Received..:** 01/21/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I0A210150-001 **Prep Batch #...:** 0031263							
Leach Date.....: 01/27/00 **Leach Batch #..:** P002711							
Arsenic	99	(75 - 125)			SW846 6010B	01/31/00	D7NC610W
	100	(75 - 125)	0.57	(0-20)	SW846 6010B	01/31/00	D7NC610X
		Dilution Factor: 1					
		Analysis Time..: 16:45					
		MS Run #.....: 0031086					
Barium	100	(75 - 125)			SW846 6010B	01/31/00	D7NC6110
	99	(75 - 125)	1.3	(0-20)	SW846 6010B	01/31/00	D7NC6111
		Dilution Factor: 1					
		Analysis Time..: 16:45					
		MS Run #.....: 0031086					
Cadmium	95	(75 - 125)			SW846 6010B	01/31/00	D7NC6112
	94	(75 - 125)	0.50	(0-20)	SW846 6010B	01/31/00	D7NC6113
		Dilution Factor: 1					
		Analysis Time..: 16:45					
		MS Run #.....: 0031086					
Chromium	95	(75 - 125)			SW846 6010B	01/31/00	D7NC6114
	95	(75 - 125)	0.12	(0-20)	SW846 6010B	01/31/00	D7NC6115
		Dilution Factor: 1					
		Analysis Time..: 16:45					
		MS Run #.....: 0031086					
Lead	94	(75 - 125)			SW846 6010B	01/31/00	D7NC610P
	93	(75 - 125)	0.65	(0-20)	SW846 6010B	01/31/00	D7NC610Q
		Dilution Factor: 1					
		Analysis Time..: 16:45					
		MS Run #.....: 0031086					
Selenium	101	(75 - 125)			SW846 6010B	01/31/00	D7NC610R
	101	(75 - 125)	0.48	(0-20)	SW846 6010B	01/31/00	D7NC610T
		Dilution Factor: 1					
		Analysis Time..: 16:45					
		MS Run #.....: 0031086					
Silver	96	(75 - 125)			SW846 6010B	01/31/00	D7NC610U
	95	(75 - 125)	0.78	(0-20)	SW846 6010B	01/31/00	D7NC610V
		Dilution Factor: 1					
		Analysis Time..: 16:45					
		MS Run #.....: 0031086					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...:	I0A210149	Work Order #...:	D7NC610M-MS	Matrix.....:	SOLID
MS Lot-Sample #:	I0A210150-001		D7NC610N-MSD		
Date Sampled...:	01/20/00 11:40	Date Received..:	01/21/00	MS Run #.....:	0031059
Leach Date.....:	01/27/00	Prep Date.....:	01/31/00	Analysis Date..:	02/03/00
Leach Batch #..:	P002711	Prep Batch #...:	0031183	Analysis Time..:	16:36
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	**69**	**(21 - 137)**			**SW846 8270C**
	69	**(21 - 137)**	**0.08**	**(0-70)**	**SW846 8270C**
m-Cresol & p-Cresol	**61**	**(19 - 126)**			**SW846 8270C**
	59	**(19 - 126)**	**1.8**	**(0-94)**	**SW846 8270C**
1,4-Dichlorobenzene	**61**	**(26 - 112)**			**SW846 8270C**
	63	**(26 - 112)**	**4.2**	**(0-40)**	**SW846 8270C**
2,4-Dinitrotoluene	**75**	**(31 - 106)**			**SW846 8270C**
	78	**(31 - 106)**	**3.7**	**(0-55)**	**SW846 8270C**
Hexachlorobenzene	**72**	**(42 - 120)**			**SW846 8270C**
	80	**(42 - 120)**	**10**	**(0-39)**	**SW846 8270C**
Hexachlorobutadiene	**56**	**(33 - 111)**			**SW846 8270C**
	63	**(33 - 111)**	**13**	**(0-40)**	**SW846 8270C**
Hexachloroethane	**58**	**(26 - 102)**			**SW846 8270C**
	61	**(26 - 102)**	**4.3**	**(0-44)**	**SW846 8270C**
Nitrobenzene	**67**	**(42 - 120)**			**SW846 8270C**
	74	**(42 - 120)**	**9.4**	**(0-40)**	**SW846 8270C**
Pentachlorophenol	**88**	**(12 - 156)**			**SW846 8270C**
	103	**(12 - 156)**	**15**	**(0-76)**	**SW846 8270C**
Pyridine	**53**	**(1.0- 144)**			**SW846 8270C**
	53	**(1.0- 144)**	**0.50**	**(0-95)**	**SW846 8270C**
2,4,5-Trichlorophenol	**67**	**(29 - 123)**			**SW846 8270C**
	68	**(29 - 123)**	**0.55**	**(0-63)**	**SW846 8270C**
2,4,6-Trichlorophenol	**72**	**(19 - 122)**			**SW846 8270C**
	71	**(19 - 122)**	**1.5**	**(0-64)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	60	(21 - 100)
	61	(21 - 100)
Phenol-d5	59	(10 - 94)
	58	(10 - 94)
Nitrobenzene-d5	66	(35 - 114)
	70	(35 - 114)
2-Fluorobiphenyl	64	(43 - 116)
	64	(43 - 116)
2,4,6-Tribromophenol	75	(10 - 123)
	72	(10 - 123)
Terphenyl-d14	69	(33 - 141)
	72	(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 Volatiles

Client Lot #...:	I0A210149	Work Order #...:	D7NC6116-MS	Matrix.....:	SOLID
MS Lot-Sample #:	I0A210150-001		D7NC6117-MSD		
Date Sampled...:	01/20/00 11:40	Date Received..:	01/21/00	MS Run #.....:	0036008
Leach Date.....:	01/31/00	Prep Date.....:	02/04/00	Analysis Date..:	02/04/00
Leach Batch #..:	P003109	Prep Batch #...:	0036129	Analysis Time..:	23:20
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**97**	**(37 - 151)**			**SW846 8260B**
	95	**(37 - 151)**	**2.0**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**93**	**(71 - 240)**			**SW846 8260B**
	91	**(71 - 240)**	**2.9**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**101**	**(37 - 160)**			**SW846 8260B**
	99	**(37 - 160)**	**2.2**	**(0-30)**	**SW846 8260B**
Chloroform	**93**	**(51 - 136)**			**SW846 8260B**
	91	**(51 - 136)**	**2.2**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**92**	**(49 - 155)**			**SW846 8260B**
	91	**(49 - 155)**	**1.5**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethylene	**97**	**(59 - 155)**			**SW846 8260B**
	94	**(59 - 155)**	**3.2**	**(0-30)**	**SW846 8260B**
Methyl ethyl ketone	**78**	**(25 - 250)**			**SW846 8260B**
	73	**(25 - 250)**	**6.6**	**(0-30)**	**SW846 8260B**
Tetrachloroethylene	**69**	**(46 - 157)**			**SW846 8260B**
	68	**(46 - 157)**	**1.6**	**(0-30)**	**SW846 8260B**
Trichloroethylene	**91**	**(71 - 157)**			**SW846 8260B**
	89	**(71 - 157)**	**2.8**	**(0-30)**	**SW846 8260B**
Vinyl chloride	**91**	**(1.0- 251)**			**SW846 8260B**
	91	**(1.0- 251)**	**0.03**	**(0-30)**	**SW846 8260B**
1,4-Dichlorobenzene	**98**	**(75 - 137)**			**SW846 8260B**
	97	**(75 - 137)**	**1.2**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	104	(86 - 115)
	104	(86 - 115)
Toluene-d8	92	(88 - 110)
	91	(88 - 110)
Dibromofluoromethane	91	(86 - 118)
	89	(86 - 118)
1,2-Dichloroethane-d4	89	(80 - 120)
	87	(80 - 120)

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 Metals

Client Lot #...: I0A210149 **Matrix.....:** WATER
Date Sampled...: 01/20/00 10:50 **Date Received..:** 01/21/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I0A210150-002 **Prep Batch #...:** 0031257							
Leach Date.....: 01/27/00 **Leach Batch #..:** P002712							
Arsenic	104	(75 - 125)			SW846 6010B	01/31/00	D7NDH10N
	107	(75 - 125)	2.7	(0-20)	SW846 6010B	01/31/00	D7NDH10P
		Dilution Factor: 1					
		Analysis Time..: 17:13					
		MS Run #.....: 0031081					
Barium	109	(75 - 125)			SW846 6010B	01/31/00	D7NDH10Q
	112	(75 - 125)	2.2	(0-20)	SW846 6010B	01/31/00	D7NDH10R
		Dilution Factor: 1					
		Analysis Time..: 17:13					
		MS Run #.....: 0031081					
Cadmium	97	(75 - 125)			SW846 6010B	01/31/00	D7NDH10T
	97	(75 - 125)	0.39	(0-20)	SW846 6010B	01/31/00	D7NDH10U
		Dilution Factor: 1					
		Analysis Time..: 17:13					
		MS Run #.....: 0031081					
Chromium	105	(75 - 125)			SW846 6010B	01/31/00	D7NDH10V
	106	(75 - 125)	0.60	(0-20)	SW846 6010B	01/31/00	D7NDH10W
		Dilution Factor: 1					
		Analysis Time..: 17:13					
		MS Run #.....: 0031081					
Lead	103	(75 - 125)			SW846 6010B	01/31/00	D7NDH10X
	103	(75 - 125)	0.31	(0-20)	SW846 6010B	01/31/00	D7NDH110
		Dilution Factor: 1					
		Analysis Time..: 17:13					
		MS Run #.....: 0031081					
Selenium	103	(75 - 125)			SW846 6010B	01/31/00	D7NDH111
	105	(75 - 125)	2.5	(0-20)	SW846 6010B	01/31/00	D7NDH112
		Dilution Factor: 1					
		Analysis Time..: 17:13					
		MS Run #.....: 0031081					
Silver	97	(75 - 125)			SW846 6010B	01/31/00	D7NDH113
	98	(75 - 125)	0.94	(0-20)	SW846 6010B	01/31/00	D7NDH114
		Dilution Factor: 1					
		Analysis Time..: 17:13					
		MS Run #.....: 0031081					

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Semivolatiles

Client Lot #...:	I0A210149	Work Order #...:	D7NDH10L-MS	Matrix.....:	WATER
MS Lot-Sample #:	I0A210150-002		D7NDH10M-MSD		
Date Sampled...:	01/20/00 10:50	Date Received..:	01/21/00	MS Run #.....:	0031060
Leach Date.....:	01/27/00	Prep Date.....:	01/31/00	Analysis Date..:	02/09/00
Leach Batch #..:	P002712	Prep Batch #...:	0031185	Analysis Time..:	14:31
Dilution Factor:	1				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
o-Cresol	**81**	**(21 - 137)**			**SW846 8270C**
	76	**(21 - 137)**	**6.3**	**(0-70)**	**SW846 8270C**
m-Cresol & p-Cresol	**81**	**(19 - 126)**			**SW846 8270C**
	78	**(19 - 126)**	**4.1**	**(0-94)**	**SW846 8270C**
1,4-Dichlorobenzene	**59**	**(26 - 112)**			**SW846 8270C**
	56	**(26 - 112)**	**4.7**	**(0-40)**	**SW846 8270C**
2,4-Dinitrotoluene	**79**	**(31 - 106)**			**SW846 8270C**
	78	**(31 - 106)**	**2.0**	**(0-55)**	**SW846 8270C**
Hexachlorobenzene	**95**	**(42 - 120)**			**SW846 8270C**
	74	**(42 - 120)**	**25**	**(0-39)**	**SW846 8270C**
Hexachlorobutadiene	**60**	**(33 - 111)**			**SW846 8270C**
	52	**(33 - 111)**	**14**	**(0-40)**	**SW846 8270C**
Hexachloroethane	**58**	**(26 - 102)**			**SW846 8270C**
	56	**(26 - 102)**	**3.0**	**(0-44)**	**SW846 8270C**
Nitrobenzene	**75**	**(42 - 120)**			**SW846 8270C**
	70	**(42 - 120)**	**6.5**	**(0-40)**	**SW846 8270C**
Pentachlorophenol	**105**	**(12 - 156)**			**SW846 8270C**
	104	**(12 - 156)**	**0.89**	**(0-76)**	**SW846 8270C**
Pyridine	**50**	**(1.0- 144)**			**SW846 8270C**
	56	**(1.0- 144)**	**12**	**(0-95)**	**SW846 8270C**
2,4,5-Trichlorophenol	**94**	**(29 - 123)**			**SW846 8270C**
	96	**(29 - 123)**	**3.1**	**(0-63)**	**SW846 8270C**
2,4,6-Trichlorophenol	**91**	**(19 - 122)**			**SW846 8270C**
	91	**(19 - 122)**	**0.39**	**(0-64)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	67	(21 - 100)
	69	(21 - 100)
Phenol-d5	70	(10 - 94)
	69	(10 - 94)
Nitrobenzene-d5	73	(35 - 114)
	69	(35 - 114)
2-Fluorobiphenyl	72	(43 - 116)
	76	(43 - 116)
2,4,6-Tribromophenol	108	(10 - 123)
	106	(10 - 123)
Terphenyl-d14	92	(33 - 141)
	58	(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 Volatiles

Client Lot #...:	I0A210149	**Work Order #...:**	D7NDH115-MS	**Matrix.....:**	WATER
MS Lot-Sample #:	I0A210150-002		D7NDH116-MSD		
Date Sampled...:	01/20/00 10:50	**Date Received..:**	01/21/00	**MS Run #.....:**	0032078
Leach Date.....:	01/31/00	**Prep Date.....:**	01/31/00	**Analysis Date..:**	02/01/00
Leach Batch #..:	P003110	**Prep Batch #...:**	0032249	**Analysis Time..:**	01:35
Dilution Factor:	10				

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**109**	**(37 - 151)**			**SW846 8260B**
	112	**(37 - 151)**	**2.3**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**113**	**(71 - 240)**			**SW846 8260B**
	118	**(71 - 240)**	**4.4**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**108**	**(37 - 160)**			**SW846 8260B**
	113	**(37 - 160)**	**3.9**	**(0-30)**	**SW846 8260B**
Chloroform	**110**	**(51 - 136)**			**SW846 8260B**
	113	**(51 - 136)**	**3.2**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**111**	**(49 - 155)**			**SW846 8260B**
	114	**(49 - 155)**	**2.4**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethylene	**113**	**(59 - 155)**			**SW846 8260B**
	121	**(59 - 155)**	**6.2**	**(0-30)**	**SW846 8260B**
Methyl ethyl ketone	**153**	**(25 - 250)**			**SW846 8260B**
	147	**(25 - 250)**	**3.3**	**(0-30)**	**SW846 8260B**
Tetrachloroethylene	**100**	**(46 - 157)**			**SW846 8260B**
	104	**(46 - 157)**	**3.4**	**(0-30)**	**SW846 8260B**
Trichloroethylene	**110**	**(71 - 157)**			**SW846 8260B**
	113	**(71 - 157)**	**2.7**	**(0-30)**	**SW846 8260B**
Vinyl chloride	**98**	**(1.0- 251)**			**SW846 8260B**
	103	**(1.0- 251)**	**4.7**	**(0-30)**	**SW846 8260B**
1,4-Dichlorobenzene	**107**	**(75 - 137)**			**SW846 8260B**
	108	**(75 - 137)**	**0.85**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	99	(86 - 115)
	99	(86 - 115)
Toluene-d8	100	(88 - 110)
	100	(88 - 110)
Dibromofluoromethane	99	(86 - 118)
	101	(86 - 118)
1,2-Dichloroethane-d4	93	(80 - 120)
	98	(80 - 120)

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 Metals

Client Lot #...: I0A210149 **Matrix.....:** WATER
Date Sampled...: 01/25/00 10:15 **Date Received..:** 01/26/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I0A260164-002 **Prep Batch #...:** 0031271							
Leach Date.....: 01/27/00 **Leach Batch #..:** P002712							
Mercury	102	(75 - 125)			SW846 7470A	01/31-02/01/00	D7VN110J
	103	(75 - 125)	1.4	(0-20)	SW846 7470A	01/31-02/01/00	D7VN110K

Dilution Factor: 1
Analysis Time..: 15:21
MS Run #.....: 0031096

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I0A210149 **Matrix.....:** SOLID
Date Sampled...: 01/25/00 **Date Received..:** 01/27/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: I0A270204-001 **Prep Batch #...:** 0031306							
Leach Date.....: 01/27/00 **Leach Batch #..:** P002711							
Mercury	107	(75 - 125)			SW846 7470A	01/31-02/01/00	D7XKR10C
	103	(75 - 125)	3.5	(0-20)	SW846 7470A	01/31-02/01/00	D7XKR10D

Dilution Factor: 1
Analysis Time..: 15:36
MS Run #.....: 0031109

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I0A210149 **Work Order #...:** D7NC1-SMP D7NC1-DUP **Matrix.....:** WATER

Date Sampled...: 01/20/00 16:00 **Date Received..:** 01/21/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (liquid)						SD Lot-Sample #:	I0A210149-001	
	7.9 H	7.9 H	No Units	0.13	(0-20)	SW846 9040B	01/21/00	0021389

Dilution Factor: 1

Analysis Time..: 16:00

Prep Date.....: 0021140 Analysis Date..: Prep Batch #...:

NOTE(S):

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

H The sample was prepared or analyzed after the EPA recommended holding time had been exceeded.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I0A210149 **Work Order #...:** D7NC6-SMP D7NC6-DUP **Matrix.....:** SOLID

Date Sampled...: 01/20/00 11:40 **Date Received..:** 01/21/00

% Moisture.....: 0.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #:	I0A210150-001	
	ND	ND	mg/kg	0	(0-135)	SW846 7.3.3	01/25-01/26/00	0027371
			Dilution Factor: 1					
			Analysis Time..: 12:00					
			Prep Date.....: 0027121			Analysis Date..:	Prep Batch #...:	
Reactive Sulfide						SD Lot-Sample #:	I0A210150-001	
	ND	ND	mg/kg	200	(0-167)	SW846 7.3.4	01/25/00	0027262
			Dilution Factor: 1					
			Analysis Time..: 16:00					
			Prep Date.....: 0027066			Analysis Date..:	Prep Batch #...:	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I0A210149 **Work Order #...:** D7NDH-SMP D7NDH-DUP **Matrix.....:** WATER

Date Sampled...: 01/20/00 10:50 **Date Received..:** 01/21/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Reactive Cyanide						SD Lot-Sample #:	I0A210150-002	
	ND	ND	mg/L	0	(0-135)	SW846 7.3.3	01/25-01/27/00	0027378
		Dilution Factor: 1						
		Analysis Time..: 12:00						
		Prep Date.....: 0027126				Analysis Date..:	Prep Batch #...:	
Reactive Sulfide						SD Lot-Sample #:	I0A210150-002	
	ND	ND	mg/L	0	(0-167)	SW846 7.3.4	01/25/00	0027260
		Dilution Factor: 1						
		Analysis Time..: 16:00						
		Prep Date.....: 0027064				Analysis Date..:	Prep Batch #...:	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I0A210149 **Work Order #...:** D7T65-SMP D7T65-DUP **Matrix.....:** SOLID

Date Sampled...: 01/21/00 13:25 **Date Received..:** 01/25/00

% Moisture.....: 68

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH						SD Lot-Sample #:	D0A250129-008	
	7.3	7.3	No Units	0.41	(0-5.0)	SW846 9045C	02/03/00	0034342

Dilution Factor: 1

Analysis Time..: 15:00

Prep Date.....: 0034122 Analysis Date..: Prep Batch #...:

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I0A210149 **Work Order #...:** D7VEC-SMP D7VEC-DUP **Matrix.....:** WATER

Date Sampled...: 01/25/00 12:45 **Date Received..:** 01/26/00

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint						SD Lot-Sample #:	D0A260122-001	
	>160	>160	deg F	0.0	(0-0.0)	SW846 1010	02/02/00	0033280

Dilution Factor: 1

Analysis Time..: 00:00

Prep Date.....: 0033117 Analysis Date..: Prep Batch #...:

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: I0A210149 **Work Order #...:** D7VLV-SMP D7VLV-DUP **Matrix.....:** SOLID

Date Sampled...: 01/25/00 15:05 **Date Received..:** 01/26/00

% Moisture.....: 9.8

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	I0A260155-001	
	9.8	10.9	%	10	(0-30)	ASTM D 2216-90	02/02-02/03/00	0033270

Dilution Factor: 1

Analysis Time..: 00:00

Prep Date.....: 0033113 Analysis Date..: Prep Batch #...:

NOTE(S):

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

Results and reporting limits have been adjusted for dry weight.

Quanterra Incorporated
SAMPLE ANALYSIS REQUISITION

LABORATORY: Quanterra Inc - Denver Co Lab
4955 Yarrow Street
Arvada CO 80002,GRE EN

NEED ANALYTICAL REPORT BY
2/03/00

ATTN:

AB PURCHASE ORDER: SR021346

CLIENT CODE: 260 PROJECT MANAGER: Sandra Green

NUMBER OF SAMPLES IN LOT: 0002

SAMPLE I.D.	SAMPLING DATE	ANALYSIS REQUIRED	
I0A210149-001 D7NC1-1-0E	1/20/00	Flash Point (1010, Closed Cup) (FLASH_L) METHOD: 1010	1 x 1L WM
I0A210149-001 D7NC1-1-0F	1/20/00	Cyanide, Reactive (SW7.3.3) (CNREACT) METHOD: 7.3.3	
I0A210149-001 D7NC1-1-0G	1/20/00	Sulfide, Reactive (SW7.3.4) (SULREACT) METHOD: 7.3.4	
I0A210149-002 D7NC8-1-0E	1/20/00	Ignitability (SW7.1.2) (IGNIT-S) METHOD: SECTION 7.1.2	500ml WM
I0A210149-002 D7NC8-1-0F	1/20/00	Cyanide, Reactive (SW7.3.3) (CNREACT) METHOD: 7.3.3	
I0A210149-002 D7NC8-1-0G	1/20/00	Sulfide, Reactive (SW7.3.4) (SULREACT) METHOD: 7.3.4	
I0A210149-002 D7NC8-1-0H	1/20/00	pH (9045C) - Non-Aqueous (PH_SOL) METHOD: 9045C	

NEED DETECTION LIMIT AND ANALYSIS DATE INCLUDED IN REPORT.

SHIPPING METHOD: AIRBORNE DATE: 1/21/00

SEND REPORT TO: SANDRA GREEN

SAMPLE RECEIVED BY: _____ DATE: _____

PLEASE SEND A SIGNED COPY OF THIS FORM WITH REPORT AT COMPLETION OF ANALYSIS.

THANK YOU.

Quanterra - Austin
INT: _____ 1/21/00 13:10:37
Quanterra Inc - Denver Co Lab
4955 Yarrow Street
Arvada CO 80002,GRE EN

RELINQUISHED BY: _____ DATE/TIME: 1-21-00 1800

RELINQUISHED BY: _____ DATE/TIME: _____

RECEIVED FOR LAB BY: _____ DATE/TIME: _____

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

AIRBILL # 6558806 833 · 21 lbs - $ 24.93

Quanterra Incorporated

Lot No.: IOA210149

CONDITION UPON RECEIPT / VARIANCE REPORT
AUSTIN LABORATORY

CLIENT / PROJECT: Schlumberger

RFA / COC NUMBERS: 20591

QUOTE # / NOTES: 34159

SAMPLES ARRIVED AT LAB: (Date/Time, Initials)	SAMPLES CHECKED IN: (Date/Time, Initials)	SAMPLES LOGGED IN:	LOG-IN REVIEWED:
1/21/00 - 0919 - BG	1/21/00 - 1030 - BG	GG	(RW)

CONDITION / VARIANCE:

Yes	No		Condition / Variance (Check One)
☑	☐	1.	Custody seals on coolers/samples intact; explain if 'No':
☑	☐	2.	Samples received intact; if 'No' list sample ID/tests:
☑	☐	3.	Enough sample received for proper analysis; if 'No' list sample ID/tests:
☑	☐	4.	Cooler temperature within 4°C ± 2°C, record temperature: 4°c — 1/21/00 - BG
☑	☐	5.	Acid preserved pH < 2:
☐	☑	6.	Base preserved pH > 10:
☐	☑	7.	Residual chlorine 'ND':
☑	☐	8.	Samples received in proper container; if 'No' list sample ID/tests:
☑	☐	9.	Proper paperwork received; explain if 'No':
☑	☐	10.	Sample IDs on containers match sample IDs on COC, explain if 'No':
☑	☐	11.	Proper # of containers received; explain if 'No': Did Not Recv Flash Pt 1000ml
☑	☐	12.	Volatile samples filled completely; if 'No' list ID and headspace: ☐ ID ____ : mm headspace ____ ☐ ID ____ : mm headspace ____ ☐ ID ____ : mm headspace ____
☑	☐	13.	All coolers on airbill received with shipment; if 'No' list number: ☑ # listed 2 # received 2
☑	☐	14.	Other (explain): No LB

COMMENTS:

CORRECTIVE ACTION:

Client's Name: ____ Informed verbally on: ____ By: ____

Client's Name: ____ Informed in writing on: ____ By: ____

Sample(s) processed "as is". Comments: ____

Sample(s) on hold until: ____ If released, notify: ____

REVIEW:

Project Management: ____ Date: 1/21/00

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE

Chain of Custody Record

CHAIN OF CUSTODY NUMBER
$0003402-001

Quanterra
20590

QUA-4149 (1097)

Client	Project Manager	Date
SCHLUMBERGER	PAUL KRAXTON	01/18/2000
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**
2527 WEST BENDER BLVD	(505) 393-4107 / (000)	Quanterra - Austin

Page 1 of 3

City	State	Zip Code	Site Contact
HOBBS	NM	88240	PAUL KRAXTON

Project Number/Name: SCHLUMBERGER,HOBBS,NM

Carrier/Waybill Number:

Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : QUOTE: 34159

Analysis

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	%MOIST	MS8260/S	MS8270/CS	ICP/SEM	M7470P	IGNIT/S	CNREACT	SULREACT	PH/SOL	ARCHIVE	SEMI/VOC	METALS	MERCURY	PH/LIQ	VOA
SLUDGE	1/20/2000	1600	SOLID	1000mL	CLEAR GL	2	None	4°C Good	X	X	X	X	X										
SLUDGE	1/20/2000	1600	SOLID	500mL	CLEAR GL	1	None	1-21						X	X	X	X						

Special Instructions:

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

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

Turn Around Time Required: ☐ Normal ☐ Rush ☐ Other _____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By			1. Received By [signature]	1/19/00	12:00
2. Relinquished By [signature]	1/20/00	16:00	2. Received By Clay Gardner	1-21-00	9:19
3. Relinquished By			3. Received By		

Comments:

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

Chain of Custody Record

CHAIN OF CUSTODY NUMBER
$0003402-003

Quanterra

20592

QUA-4149 (1097)

Client	Project Manager	Date	Page 3 of 3
SCHLUMBERGER	PAUL KRAXTON	01/18/2000	
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**	**Analysis**
2527 WEST BENDER BLVD	(505) 393-4107 / (000)	Quanterra - Austin	

City	State	Zip Code	Site Contact
HOBBS	NM	88240	PAUL KRAXTON

Project Number/Name	Carrier/Waybill Number
SCHLUMBERGER,HOBBS,NM	

Contract/Purchase Order/Quote Number

CONTRACT / PURCHASE ORDER # : QUOTE: 34159

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	FLASHIL
WATER	1/20/00	16:00	WATER	1000mL	CLEAR GL	1	None	Did not rec	X

Special Instructions

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

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

Turn Around Time Required
☐ Normal ☐ Rush ☐ Other_____

QC Level
☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By			1. Received By	1/19/00	12:00
2. Relinquished By	1/20/00	16:00	2. Received By	1-21	
3. Relinquished By			3. Received By		

Comments

ICA 3/0 ml

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

Chain of Custody Record

CHAIN OF CUSTODY NUMBER
$0003402-002

IOA210149

Quanterra
20591

QUA-4149 (1097)

Client	Project Manager	Date
SCHLUMBERGER	PAUL KRAXTON	01/18/2000
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**
2527 WEST BENDER BLVD	(505) 393-4107 / (000)	Quanterra - Austin

Page 2 of 3

City	State	Zip Code	Site Contact
HOBBS	NM	88240	PAUL KRAXTON

Project Number/Name: SCHLUMBERGER,HOBBS,NM

Carrier/Waybill Number:

Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : QUOTE: 34159

Analysis

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	% MOIST	MS 8260 S	MS 8270 CS	ICP SEM	M 7470 TP	IGNITS	CN REACT	SULR REACT	PH SOIL	ARCHIVE	SEMI VOC	METALS	MERCURY	PH LIQ	VOA
WATER	1/20/00	16:00	WATER	40mL	VIAL	3	1:1 HCL	42 - 1/21/00 - [illegible]															X
WATER	1/20/00	16:00	WATER	1000mL	CLEAR GL	3	None	↓										X	X	X	X		
WATER	1/20/00	16:00	WATER	1000mL	CLEAR GL	1	None	↓							X	X							

Special Instructions –

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

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

Turn Around Time Required: ☐ Normal ☐ Rush ☐ Other _____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By			1. Received By [signature]	1/19/00	12:00
2. Relinquished By [signature]	1/20/00	16:00	2. Received By JAMES [signature]	1/21/00	0919
3. Relinquished By			3. Received By		

Comments

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
FEB 18 2000
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator CAMERON
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 NEW MEXICO
7. Location of Material (Street Address or ULSTR) 500 N. LEECH, HOBBS	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:

02-2002

SUMP WATER GENERATED BY THE CLEANING OF VALVES AND FLANGES.

I AM ENCLOSING ANALYTICAL DATA, KNOWLEDGE OF PROCESS LETTER, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

Analytical For this waste Stream Approved until January 2001, Provided that System & Process Does not Change. MJK 2-18-00

Estimated Volume 50 BBLS. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-2-00
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: 02-15-00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 02-18-00

CAMERON
(FORMERLY AJAX REPAIR & SUPPLY)
500 NORTH LEECH
HOBBS, NEW MEXICO 88240

February 2, 2000

NMOCD
2040 South Pacheco Street
Santa Fe, NM 87505

ATTN: Martyne J. Kieling

Dear Ms. Kieling:

Ajax/Cameron has been disposing of liquids from our system for parts washing at CRI. The last laboratory analysis was December 5, 1997. The tools cleaned are the same; there have been no changes in our process.

We are requesting you extend approval of the laboratory analysis to July 2001, so we may contain our expense involved with our commitment to be good stewards of the environment and public health.

Sincerely,

Larry Land

Larry Land

Cc: Controlled Recovery, Inc.

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

COMPANY / GENERATOR AJAX/CAMERON

ADDRESS 500 N. LEECH, HOBBS, NM 88240

GENERATING SITE SAME

COUNTY LEA STATE NM

TYPE OF WASTE SUMP WATER

ESTIMATED VOLUME 50 bbls.

GENERATING PROCESS GENERATED BY THE CLEANING OF VALVES AND FLANGES

REMARKS

NMOCD FACILITY CONTROLLED RECOVERY, INC.

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 2613.

AGENT Larry Land
SIGNATURE

NAME LARRY LAND
PRINTED

ADDRESS 500 N. LEECH

HOBBS, NM 88240

DATE 2-2-00

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
AJAX REPAIR & SUPPLY
ATTN: LARRY LAND
P.O. BOX 1997
HOBBS, NM 88241
FAX TO: 505-393-5957

Receiving Date: 12/01/97
Reporting Date: 12/04/97
Project Number: NOT GIVEN
Project Name: SUMP CLEANUP
Project Location: AJAX YARD

Sampling Date: 12/01/97
Sample Type: SEE BELOW
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH/BC

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		12/03/97	12/03/97	12/04/97	12/04/97
H3345L	COMPOSITE OF	<50	<50	8.18	>140
	50% LIQUID*				
H3345S	COMPOSITE OF	<50	<50	7.65	>140
	50% SLUDGE*				
Quality Control		NR	0.105	7.00	NR
True Value QC		NR	0.100	7.00	NR
% Accuracy		NR	105	100	NR
Relative Percent Difference		NR	4.8	0	NR

*NOTE: Contents of 16 barrels were sampled. Portions of the samples were combined to form a representative composite, which was 50% liquid (water) and 50% sludge. Analyses were performed on the representative composite.

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

Date 12/4/97

H3345B.XLS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
AJAX REPAIR & SUPPLY
ATTN: LARRY LAND
P.O. BOX 1997
HOBBS, NM 88241
FAX TO: 505-393-5957

Receiving Date: 12/01/97
Reporting Date: 12/05/97
Project Number: NOT GIVEN
Project Name: SUMP CLEANUP
Project Location: AJAX YARD

Sampling Date: 12/01/97
Sample Type: SEE BELOW
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH/GP

TCLP METALS

LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:		12/04/97	12/04/97	05/13/97	12/04/97	12/04/97	12/04/97	12/05/97	12/04/97
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H3345L	COMPOSITE OF	<1	<1	<10	<0.1	<1	<1	<0.02	<0.1
	50% LIQUID								
H3345S	COMPOSITE OF	<1	<1	<10	<0.1	<1	<1	<0.02	<0.1
	50% SLUDGE								
Quality Control		0.101	4.98	20.2	1.018	0.98	2.00	0.0114	0.200
True Value QC		0.100	5.00	20.0	1.000	1.00	2.00	0.0100	0.200
% Recovery		101	100	101	102	98	100	114	100
Relative Standard Deviation		1.9	0.5	2.7	0.2	0.9	0.1	1.8	5.7

METHODS: EPA 1311, 600/4-91/0	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

12/5/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
AJAX REPAIR & SUPPLY
ATTN: LARRY LAND
P.O. BOX 1997
HOBBS, NM 88241
FAX TO: 505-393-5957

Receiving Date: 12/01/97
Reporting Date: 12/04/97
Project Number: NOT GIVEN
Project Name: SUMP CLEANUP
Project Location: AJAX YARD
Lab Number: H3345L
Sample ID: COMPOSITE OF 50% LIQUID

Analysis Date: 12/03/97
Sampling Date: 12/01/97
Sample Type: LIQUID (50%)
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3345L	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.104	104	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.096	96	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.088	88	0.100
Chloroform	6.0	<0.005	<0.005	0.084	84	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	<0.005	<0.005	0.102	102	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.104	104	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.098	98	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.081	81	0.100
Chlorobenzene	100	<0.005	<0.005	0.106	106	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.098	98	0.100

	% RECOVERY
Dibromofluoromethane	87
Toluene-d8	111
Bromofluorobenzene	99

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

12/4/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
AJAX REPAIR & SUPPLY
ATTN: LARRY LAND
P.O. BOX 1997
HOBBS, NM 88241
FAX TO: 505-393-5957

Receiving Date: 12/01/97
Reporting Date: 12/03/97
Project Number: NOT GIVEN
Project Name: SUMP CLEANUP
Project Location: AJAX YARD
Lab Number: H3345L
Sample ID: COMPOSITE OF 50% LIQUID

Analysis Date: 12/02/97
Sampling Date: 12/01/97
Sample Type: LIQUID (50%)
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H3345L	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.050	<0.005	0.007	14	0.050
1,4-Dichlorobenzene	7.50	<0.050	<0.005	0.035	70	0.050
o-Cresol	200	<0.050	<0.005	0.036	72	0.050
m, p-Cresol	200	<0.050	<0.005	0.033	66	0.050
Hexachloroethane	3.00	<0.050	<0.005	0.031	62	0.050
Nitrobenzene	2.00	<0.050	<0.005	0.038	76	0.050
Hexachloro-1,3-butadiene	0.500	<0.050	<0.005	0.029	58	0.050
2,4,6-Trichlorophenol	2.00	<0.050	<0.005	0.037	74	0.050
2,4,5-Trichlorophenol	400	<0.050	<0.005	0.050	100	0.050
2,4-Dinitrotoluene	0.130	<0.050	<0.005	0.044	88	0.050
Hexachlorobenzene	0.130	<0.050	<0.005	0.055	110	0.050
Pentachlorophenol	100	<0.050	<0.005	0.052	104	0.050

	% RECOVERY
Fluorophenol	35
Phenol-d5	31
Nitrobenzene-d5	95
2-Fluorobiphenyl	85
2,4,6-Tribromophenol	80
Terphenyl-d14	87

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

12/3/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
AJAX REPAIR & SUPPLY
ATTN: LARRY LAND
P.O. BOX 1997
HOBBS, NM 88241
FAX TO: 505-393-5957

Receiving Date: 12/01/97
Reporting Date: 12/04/97
Project Number: NOT GIVEN
Project Name: SUMP CLEANUP
Project Location: AJAX YARD
Lab Number: H3345S
Sample ID: COMPOSITE OF 50% SLUDGE

Analysis Date: 12/03/97
Sampling Date: 12/01/97
Sample Type: SLUDGE (50%)
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3345S	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.104	104	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.096	96	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.088	88	0.100
Chloroform	6.0	<0.005	<0.005	0.084	84	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.104	104	0.100
Benzene	0.5	0.010	<0.005	0.102	102	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.104	104	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.098	98	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.081	81	0.100
Chlorobenzene	100	<0.005	<0.005	0.106	106	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.098	98	0.100

	% RECOVERY
Dibromofluoromethane	86
Toluene-d8	92
Bromofluorobenzene	87

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph.D.

12/4/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
AJAX REPAIR & SUPPLY
ATTN: LARRY LAND
P.O. BOX 1997
HOBBS, NM 88241
FAX TO: 505-393-5957

Receiving Date: 12/01/97
Reporting Date: 12/03/97
Project Number: NOT GIVEN
Project Name: SUMP CLEANUP
Project Location: AJAX YARD
Lab Number: H3345S
Sample ID: COMPOSITE OF 50% SLUDGE

Analysis Date: 12/02/97
Sampling Date: 12/01/97
Sample Type: SLUDGE (50%)
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H3345S	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.007	14	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.035	70	0.050
o-Cresol	200	<0.020	<0.005	0.036	72	0.050
m, p-Cresol	200	<0.020	<0.005	0.033	66	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.031	62	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.038	76	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.029	58	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.037	74	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.050	100	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.044	88	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.055	110	0.050
Pentachlorophenol	100	<0.020	<0.005	0.052	104	0.050

	% RECOVERY
Fluorophenol	40
Phenol-d5	31
Nitrobenzene-d5	95
2-Fluorobiphenyl	90
2,4,6-Tribromophenol	87
Terphenyl-d14	109

METHODS: EPA SW 846-8270, 1311

Burgess J. A. Cooke, Ph. D.

12/03/97
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

H33451 p.1

Page ___ of ___

Company Name:	AJAX REPAIR & SUPPLY
Project Manager:	LARRY LAND
Address:	P.O. BOX 1997
City:	HOBBS State: NM Zip: 88241
Phone #:	397-1325
Fax #:	393-5957
Project #:	
Project Name:	SUMP CLEANUP
Project Location:	AJAX YARD

BILL TO	PO #:
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

LAB I.D. #	Sample I.D.	COMP(C) OR GRAB(G)	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERVATION: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	FULL TCLP							
H33451	BBL #1	G						X					12/1/97	10:20	X							
-2	#2							X						10:21	X							
-3	#3							X						10:22	X							
-4	#4							X						10:23	X							
-5	#5							X						10:24	X							
-6	#6							X						10:25	X							
-7	#7							X						10:26	X							
-8	#8							X						10:27	X							
-9	#9							X						10:28	X							
-10	#10							X						10:29	X							

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.

Sampler Relinquished: Larry Land	Date:	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time:		Fax Results: ☐ Yes ☐ No
Relinquished By:	Date: 12/1/97	Received By: (Lab Staff)	REMARKS: COMPOSITE SAMPLES, ANALYZE LIQ + SOLID PHASE FOR FULL TCLP
	Time: 10:45	Bernett A. Cash	
Delivered By: (Circle One) UPS - Fed Ex - Bus - Other:		Sample Condition: Cool ☐ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

H3345-1 p.2

Page ___ of ___

Company Name: AJAX REPAIR & SUPPLY	
Project Manager:	BILL TO — PO #:
Address:	Company:
City: Hob NM State: Zip:	Attn:
Phone #:	Address:
Fax #:	City:
Project #:	State: Zip:
Project Name:	Phone #:
Project Location:	Fax #:

LAB I.D. #	Sample I.D.	COMP(C) OR GRAB(G)	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERVATIVE: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: FULL TCLP
H3345-11	BBL #11	G						X					12/1/97	10:31	X
-12	#12							X						:32	X
-13	#13							X						:33	X
-14	#14							X						:34	X
-15	#15							X						:35	X
-16	#16							X						:36	X

Sampler Relinquished: Larry Land	Date:	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time:		Fax Results: ☐ Yes ☐ No
Relinquished By:	Date: 12/2/97	Received By: (Lab Staff)	REMARKS:
	Time: 10:45 AM	Burgess J. Cooke	
Delivered By: (Circle One) UPS - Fed Ex - Bus - Other:		Sample Condition: Cool ☐ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
FEB 18 2000
Environmental Bureau
Oil Conservation Division

Form C-138
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator CAMERON
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 NEW MEXICO
7. Location of Material (Street Address or ULSTR) 500 N. LEECH, HOBBS	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:

02-2003

SAND BLAST MEDIA FROM REBUILDING OF WELLHEADS. ENCLOSED MSDS ON PAINT AND SAND BLAST MEDIA..

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-2-00
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: 02-15-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 02-18-00

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

COMPANY / GENERATOR AJAX/CAMERON

ADDRESS 500 N. LEECH, HOBBS, NM 88240

GENERATING SITE SAME

COUNTY LEA STATE NM

TYPE OF WASTE SANDBLAST MEDIA (CRYSTALLINE QUARTZ SILICA)

ESTIMATED VOLUME 6 cu. YARDS

GENERATING PROCESS SAND BLAST MEDIA FROM THE REBUILDING OF WELLHEADS

REMARKS

NMOCD FACILITY CONTROLLED RECOVERY, INC.

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 2613.

AGENT Larry Land
SIGNATURE

NAME LARRY LAND
PRINTED

ADDRESS 500 N. LEECH
HOBBS, NM 88240

DATE 2-2-00

MATERIAL SAFETY DATA SHEET

Identity: Crystalline Silica (Quartz)

SECTION I

Oglebay Norton Industrial Sands, Inc.
1000 Oglebay Norton Drive
Brady. TX 76825

Emergency Telephone Number
800-858-4123
Telephone Number for Information
915-597-0721
Date Prepared: August 1995

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components:
Silica, Crystalline Quartz (respirable)

Specific Chemical Identity: Silicon Dioxide SiO_2 (CAS 14808-60-7)

Common Names: Silica, Flint, Sand, Crystalline Silica, Crystalline Free Silica, Quartz, Ground Silica, trade names (see Page 4).

OSHA PEL: Exposure to airborne crystalline silica shall not exceed an 8-hour time-weighted average limit as stated in 29 CFR §1910.1000 Table Z-3 for Mineral Dusts, specifically "Silica: Crystalline: Quartz (respirable)."

	Mppcf		Mg/M³	
Crystalline Quartz (Respirable)	%SiO_2+5	250	%SiO_2+2	10 mg/M³
Quartz (Total Dust)			%SiO_2+2	30mg/M³

ACGIH TLV: Crystalline Quartz
TLV-TWA = 0.1 mg/M³ (Respirable Dust)
See Threshold Limit Value and Biological Exposure Indices for 1987-1988 American Conference of Governmental Industrial Hygienists.

Other Limits Recommended: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration = 0.05mg/M³ (respirable free silica) as determined by a full shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 4046°F **Specific Gravity (H_2O = 1):** 2.65

Vapor Pressure (mm Hg.): None **Melting Point:** 3050°F

Vapor Density (AIR = 1): None **Evaporation Rate:**
(Butyl Acetate = 1) None

Solubility in Water: Insoluble in water

Appearance and Odor: White or tan sand, granular, crushed, or ground - No odor or taste.

RESPIRATORY PROTECTION FOR CRYSTALLINE SILICA

CONDITION	MINIMUM RESPIRATORY PROTECTION*
Particulate Concentration	
500 x PEL or less	A powered air-purifying respirator with a high efficiency particulate filter. A Type C supplied-air respirator operated in pressure-demand or other positive pressure or continuous-flow mode.
Greater than 500 X PEL	Self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive or entry and escape from pressure mode.
Unknown concentrations	A combination respirator which includes a Type C supplied-air respirator with a full facepiece operated in pressure-demand or other positive pressure continuous-flow mode and an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive pressure mode.
Abrasive Blasting	Any type CE, supplied-air respirator with a full facepiece, hood, or helmet, operated in a positive pressure mode. (See 29 CFR §1910.94(a)).

*Only NIOSH-approved or MSHA-approved equipment should be used. (See 29 CFR §1910.134).

See also ANSI standard Z88.2-1980 "Practices for Respiratory Protection," and standard Z9.4-1984 "Ventilation and Safe Practices of Abrasive Blasting Operations."

Ventilation:

Local Exhaust: Use sufficient local exhaust to reduce the level of respirable crystalline silica to the PEL. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice," the latest edition.

Mechanical
See "Other Precautions" under Section VII.

Special
See "Other Precautions" under Section VII.

Other
See "Other Precautions" under Section VII.

Protective Gloves
Optional.

Eye Protection
Wear protective shield (safety glasses) when exposed to dust particles.

Other Protective Clothing and Equipment
Optional.

Work/Hygienic Practices
Avoid creating and breathing dust. See "Other Precautions" under Section VII.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our silica. Customers-users of silica must comply with all applicable health and safety laws, regulations, and orders.

TRADE NAMES - None

MATERIAL SAFETY DATA SHEET

MANUFACTURER: AMERICAN COATINGS
P.O. BOX 1426
TOMBALL, TX. 77377-1426

EMERGENCY TELEPHONE NO.
(713)-351-1776

INFORMATION TELEPHONE NO.
(713)-351-1776

DATE OF PREPERATION: 07/02/96

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NUMBER: AK11447 CALCULATED VOC 2.8

PRODUCT NAME: 2.8 VOC CAMERON GREEN ALKYD

PRODUCT CLASS: ALKYD RESIN ENAMEL

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT (CAS #)	PERCENT	OCCUPATIONAL EXPOSURE LIMITS TLV-TVA	OCCUPATIONAL EXPOSURE LIMITS OSHA-PEL	VAPOR PRESSURE mm/Hg
1330-20-7 *XYLENE	9%	100ppm	100ppm	9.5 mmHg @ 20C
110-43-0 MEHTYL AMYL KETONE	8%	50ppm	50ppm	2.14 mmHg @ 20C
64742-95-6 AROMATIC 100 NAPHTHA	4%	50ppm	50ppm	10 mmHg @ 25C

INDICATED BY * LISTED ABOVE IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313

**** NOT LISTED AS A CARCINOGEN IN NTP, IARC OR BY OSHA ****

SECTION 3 - PHYSICAL DATA

BOILING RANGE: 281-355F WT./GALLON 11.44
EVAPORATION RATE
FASTER SLOWER XX THAN ETHER % VOLATILE VOLUME 39%

VAPOR DENSITY
HEAVIER XX LIGHTER THAN AIR

SECTION 4 - FIRE & EXPLOSION DATA

FLAMMABILITY CLASSIFICATION:

OSHA: <73 F >100 BP -FLAMMABLE LIQUID CLASS IB LEL: 0.8

FLASH POINT (TCC) 80F

EXTINGUISHING MEDIA:

FOAM X ALCOHOL FOAM X CO2 X WATER FOG X OTHER

UNUSUAL FIRE & EXPLOSION HAZARD DATA: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, ELECTRICAL EQUIPMENT, AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. APPLICATIONS TO HOT SURFACES REQUIRE SPECIAL PRECAUTIONS.

SPECIAL FIREFIGHTING PROCEDURES: WARNING FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS) INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

SECTION 5 - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

EYE CONTACT-NO SPECIFIC HAZARD KNOWN. ANY MATERIAL GOTTEN INTO THE EYE MAY BE IRRITATING.

SKIN CONTACT-LIQUID IS MODERATELY IRRITATING TO THE SKIN.

INHALATION-BREATHING HIGH VAPOR CONCENTRATIONS OR PROLONGED BREATHING OF LOWER CONCENTRATIONS CAN CAUSE NOSE AND THROAT IRRITATION AND MAY CAUSE HEADACHE DIZZINESS AND LOSS OF CONSCIOUSNESS .

INGESTION-LIQUID IS MODERATELY TOXIC AND MAY BE HARMFUL IF SWALLOWED. MAY PRODUCE CNS DEPRESSION.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVER-EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: PREEXISTING PRIMARY

ROUTES OF ENTRY:

DERMAL X INHALATION X INGESTION X

EMERGENCY AND FIRST AID PROCEDURES:

EYE CONTACT-FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES TAKE TO A PHYSICIAN FOR MEDICAL TREATMENT.

SKIN CONTACT-WASH AFFECTED AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING.

INHALATION-REMOVE TO FRESH AIR. RESTORE BREATHING, TREAT SYMTOMATICALLY. CONSULT A PHYSICIAN.

INGESTION-DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION.

SECTION 6 - REACTIVITY DATA

STABILITY:	STABLE XX	UNSTABLE
HAZARDOUS POLYMERIZATION:	MAY OCCUR	WILL NOT OCCUR XX

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE

CONDITIONS TO AVOID: HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS.

INCOMPATIBILITY (MATERIALS TO AVOID): UNKNOWN

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: FLAMMABLE! ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING.

WASTE DISPOSAL METHOD: IN CASE OF SPILLAGE, ABSORB WITH INERT MATERIAL AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE REGULATION.

SECTION 8 - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: WEAR AN APPROPRIATE PROPERLY FITTED RESPIRATOR (NIOSH/MSHA APPROVED) DURING AND AFTER APPLICATION UNLESS AIR MONITORING DEMONSTRATED VAPOR LIMIT LEVELS ARE BELOW APPLICABLE.

VENTILATION: USE WITH ADEQUATE VENTILATION. DO NOT BREATHE VAPORS OR SPRAY MIST.

PROTECTIVE GLOVES: USE NEOPRENE GLOVES IF CONTACT IS LIKELY

EYE PROTECTION: USE CHEMICAL SAFETY GOGGLES

OTHER PROTECTIVE EQUIPMENT:

HYGENIC PRACTICES: WASH THOROUGHLY AFTER HANDLING. NON-STATIC CREATING CLOTHING AND CONDUCTIVE SHOES SHOULD BE WORN.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: WARNING FLAMMABLE. DO NOT STORE OR USE NEAR HEAT, SPARKS, OR FLAME.

OTHER PRECAUTIONS: DO NOT HANDLE UNTIL THE MANUFACTURERS SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. AMERICAN COATINGS MAKES NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. AMERICAN COATINGS ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

District I - (505) 393-6161
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Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
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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Environmental Bureau
Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator *ESP
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site MIDLAND, TEXAS
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter UNKNOWN
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) ESP MIDLAND	TEXAS

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:

02-004

SAMPLE 138938 SPILL SOIL IS FROM A SPILL OF WATER AND CRUDE OIL AND SOIL.

10 YARDS APPROXIMATELY.

02-005

SAMPLE 138939 FILTER SAND. iS FROM SHOP AREA FROM WASHOUT OUT SUB. PUMPS.

8 - 55 GALLON DRUMS

02-006

SAMPLE 138940 BLAST SAND IS FROM REPAIR SHOP. 5 YARDS APPROXIMATELY.

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 2-7-00
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: 02-15-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 02-18-00

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

COMPANY / GENERATOR ESP Inc.

ADDRESS 17 Kevin Rd, Midland Tx 79703

GENERATING SITE Same

COUNTY Midland STATE Tx

TYPE OF WASTE Sand & Soil - TPH elevated

ESTIMATED VOLUME 20 yds

GENERATING PROCESS Spills of Wash Water from Oilfield Pumps, Blast Sand, Filter Sand from Same Process

REMARKS The Three wastes were Sampled Sept. but will be Transported together.

NMOCD FACILITY

TRUCKING COMPANY Petroplex Construction

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 Malcolm Rainwater
PRINTED

ADDRESS 17 Kevin Rd
Midland Tx 79708

DATE 2-10-00

TRACEANALYSIS, INC.
6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4775 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

Gary Miller
Highlander Environmental Services
1910 N. Big Spring St.
Midland, TX 79705

Report Date: 2/3/00

Project Number: 1415
Project Name: Drum Soil & Blast Sand
Project Location: N/A

Order ID Number: A00011907

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
138938	Spill Soil Comp #1	Soil	1/18/00	10:00	1/19/00
138939	Filter Sand Drum Sample #1	Soil	1/18/00	10:30	1/19/00
138940	Blast Sand Sample #1	Soil	1/18/00	11:00	1/19/00

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 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Results Report

Sample Number: 138938
Description: Spill Soil Comp #1

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Corrosivity									
Corrosivity	Non-Corrosive	1	S 1110	1/20/00	1/20/00	JM	PB00375	QC00504	
pH	7.70	1	S 1110	1/20/00	1/20/00	JM	PB00375	QC00504	
Ignitability									
Ignitability	non-ignitable	1	W-846 Ch. 7	1/20/00	1/20/00	JM	PB00376	QC00507	
Reactivity									
Hydrogen Cyanide	<2.5	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	
Hydrogen Sulfide	<10	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	
Reactivity	Non-reactive	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	
TCLP Hg (mg/L)									
TCLP Mercury	<0.010	1	S 7470A	1/19/00	1/20/00	BP	PB00373	QC00490	0.01
TCLP Metals (mg/L)									
TCLP Arsenic	0.16	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Barium	0.56	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Cadmium	0.07	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.02
TCLP Chromium	0.09	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.05
TCLP Lead	0.14	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Selenium	<0.10	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Silver	<0.05	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.05
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
1,4-Dichlorobenzene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
o-Cresol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
m,p-Cresol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Hexachloroethane	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Nitrobenzene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Hexachlorobutadiene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,5-Trichlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4-D	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Hexachlorobenzene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,5-TP	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Pentachlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25

Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	32.75	1	50	41	16 - 65	MA	PB00551	QC00702
Phenol d5	20.67	1	50	26	8 - 48	MA	PB00551	QC00702
Nitrobenzene-d5	56.45	1	50	71	28 - 118	MA	PB00551	QC00702
2-Fluorobiphenyl	61.68	1	50	77	40 - 106	MA	PB00551	QC00702
2,4,6-Tribromophenol	78.83	1	50	99	48 - 117	MA	PB00551	QC00702
Terphenyl-d14	69.23	1	50	87	48 - 132	MA	PB00551	QC00702

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
TCLP Volatiles (mg/L)									
Vinyl Chloride	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001

Report Date: 2/3/00 Order ID Number: A00011907 Page Number: 3 of 15

1415 Drum Soil & Blast Sand N/A

1,1-Dichloroethene	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Methyl ethyl ketone	<0.5	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.01
Chloroform	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
1,2-Dichloroethane (EDC)	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Benzene	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Carbon Tetrachloride	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Trichloroethene (TCE)	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Tetrachloroethene (PCE)	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Chlorobenzene	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
1,4-Dichlorobenzene	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001

Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
Dibromofluoromethane	46	1	50	92	80 - 120	JG	PB00535	QC00685
Toluene-d8	48	1	50	96	80 - 120	JG	PB00535	QC00685
4-Bromofluorobenzene	47.5	1	50	95	80 - 120	JG	PB00535	QC00685

TPH DRO (mg/Kg)									
DRO	* 33100	1	Mod. 8015B	1/21/00	1/21/00	MF	PB00362	QC00475	50
* DRO - Hydrocarbons >C28 present.									
TPH GRO (mg/Kg)									
GRO	27.3	1	8015B	1/19/00	1/19/00	RC	PB00341	QC00450	0.1

Sample Number: 138939
Description: Filter Sand Drum Sample #1

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Corrosivity									
Corrosivity	Non-Corrosive	1	S 1110	1/20/00	1/20/00	JM	PB00375	QC00504	
pH	6.70	1	S 1110	1/20/00	1/20/00	JM	PB00375	QC00504	
Ignitability									
Ignitability	non-ignitable	1	W-846 Ch. 7	1/20/00	1/20/00	JM	PB00376	QC00507	
Reactivity									
Hydrogen Cyanide	<2.5	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	
Hydrogen Sulfide	<10	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	
Reactivity	Non-reactive	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	
TCLP Hg (mg/L)									
TCLP Mercury	<0.010	1	S 7470A	1/19/00	1/20/00	BP	PB00373	QC00490	0.01
TCLP Metals (mg/L)									
TCLP Arsenic	0.21	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Barium	0.37	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Cadmium	0.07	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.02
TCLP Chromium	0.10	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.05
TCLP Lead	0.37	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Selenium	0.12	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Silver	<0.05	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.05
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	S 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
1,4-Dichlorobenzene	<0.05	1	S 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
o-Cresol	<0.05	1	S 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
m,p-Cresol	<0.05	1	S 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Hexachloroethane	<0.05	1	S 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Nitrobenzene	<0.05	1	S 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25

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1415 Drum Soil & Blast Sand N/A

Hexachlorobutadiene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,5-Trichlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4-D	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Hexachlorobenzene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,5-TP	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Pentachlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25

Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	36.56	1	50	46	16 - 65	MA	PB00551	QC00702
Phenol-d5	23.32	1	50	29	8 - 48	MA	PB00551	QC00702
Nitrobenzene-d5	62.31	1	50	78	28 - 118	MA	PB00551	QC00702
2-Fluorobiphenyl	62.41	1	50	78	40 - 106	MA	PB00551	QC00702
2,4,6-Tribromophenol	77.36	1	50	97	48 - 117	MA	PB00551	QC00702
Terphenyl-d14	74.43	1	50	93	48 - 132	MA	PB00551	QC00702

TCLP Volatiles (mg/L)

Vinyl Chloride	<0.05	50	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
1,1-Dichloroethene	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Methyl Ethyl Ketone	<0.5	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.01
Chloroform	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
1,2-Dichloroethane (EDC)	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Benzene	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Carbon Tetrachloride	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Trichloroethene (TCE)	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Tetrachloroethene (PCE)	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Chlorobenzene	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
1,4-Dichlorobenzene	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001

Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec Limit	Analyst	Prep Batch #	QC Batch #
Dibromofluoromethane	48	1	50	96	80 - 120	JG	PB00535	QC00685
Toluene-d8	48.5	1	50	97	80 - 120	JG	PB00535	QC00685
4-Bromofluorobenzene	49	1	50	98	80 - 120	JG	PB00535	QC00685

TPH DRO (mg/Kg)

DRO	* 31000	1	Mod. 8015B	1/21/00	1/21/00	MP	PB00362	QC00475	50

* DRO - Hydrocarbons >C28 present

TPH GRO (mg/Kg)

GRO	<5	1	8015B	1/19/00	1/19/00	RC	PB00341	QC00450	0.1

Sample Number: 138940
Description: Blast Sand Sample #1

Param	Result	Dilution	Analytical Method	Date Prepared	Date Analyzed	Analyst	Prep Batch #	QC Batch #	RDL
Corrosivity									
Corrosivity	Non-Corrosive	1	S 1110	1/20/00	1/20/00	JM	PB00375	QC00504	
pH	7.09	1	S 1110	1/20/00	1/20/00	JM	PB00375	QC00504	
Ignitability									
Ignitability	non-ignitable	1	#-846 Ch. 7	1/20/00	1/20/00	JM	PB00376	QC00507	
Reactivity									
Reactivity	Non-reactive	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	
Hydrogen Cyanide	<2.5	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	

Hydrogen Sulfide	<10	1	S 7.3	1/20/00	1/20/00	JM	PB00374	QC00502	
TCLP Hg (mg/L)									
TCLP Mercury	<0.010	1	S 7470A	1/19/00	1/20/00	BP	PB00373	QC00490	0.01
TCLP Metals (mg/L)									
TCLP Arsenic	<0.10	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Barium	0.39	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Cadmium	0.06	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.02
TCLP Chromium	0.13	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.05
TCLP Lead	0.14	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Selenium	<0.10	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.1
TCLP Silver	<0.05	1	S 6010B	1/19/00	1/25/00	RR	PB00534	QC00684	0.05
TCLP Semivolatiles (mg/L)									
Pyridine	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
1,4-Dichlorobenzene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
o-Cresol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
m,p-Cresol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Hexachloroethane	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Nitrobenzene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Hexachlorobutadiene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,6-Trichlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,5-Trichlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4-Dinitrotoluene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4-D	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Hexachlorobenzene	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
2,4,5-TP	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25
Pentachlorophenol	<0.05	1	E 8270C	1/28/00	1/31/00	MA	PB00551	QC00702	0.25

Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
2-Fluorophenol	32.52	1	50	41	16 - 65	MA	PB00551	QC00702
Phenol-d5	23.52	1	50	29	8 - 48	MA	PB00551	QC00702
Nitrobenzene-d5	54.64	1	50	68	28 - 118	MA	PB00551	QC00702
2-Fluorobiphenyl	61.74	1	50	77	40 - 106	MA	PB00551	QC00702
2,4,6-Tribromophenol	72.07	1	50	90	48 - 117	MA	PB00551	QC00702
Terphenyl-d14	68.10	1	50	85	48 - 132	MA	PB00551	QC00702

TCLP Volatiles (mg/L)									
Vinyl Chloride	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
1,1-Dichloroethene	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Methyl ethyl ketone	<0.5	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.01
Chloroform	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
1,2-Dichloroethane (EDC)	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Benzene	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Carbon Tetrachloride	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Trichloroethene (TCE)	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Tetrachloroethene (PCE)	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
Chlorobenzene	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001
1,4-Dichlorobenzene	<0.05	1	S 8260B	1/26/00	1/27/00	JG	PB00535	QC00685	0.001

Surrogate (mg/L)	Result	Dilution	Spike Amount	% Rec.	% Rec. Limit	Analyst	Prep Batch #	QC Batch #
Dibromofluoromethane	46.5	1	50	93	80 - 120	JG	PB00535	QC00685
Toluene-d8	48	1	50	96	80 - 120	JG	PB00535	QC00685
4-Bromofluorobenzene	47	1	50	94	80 - 120	JG	PB00535	QC00685

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TPH DRO (mg/Kg)									
DRO	* 2010	1	Mod. 8015B	1/21/00	1/20/00	MF	PB00350	QC00471	50
* DRO - Hydrocarbons >C28 present									
TPH GRO (mg/Kg)									
GRO	427	1	8015B	1/19/00	1/19/00	RC	PB00341	QC00450	0.1

Quality Control Report
Method Blanks

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TCLP Mercury (mg/L)		<0.010	0.01	1/20/00	PB00373	QC00490

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
TCLP Arsenic (mg/L)		<0.10	0.1	1/25/00	PB00534	QC00684
TCLP Barium (mg/L)		<0.10	0.1	1/25/00	PB00534	QC00684
TCLP Cadmium (mg/L)		<0.02	0.02	1/25/00	PB00534	QC00684
TCLP Chromium (mg/L)		<0.05	0.05	1/25/00	PB00534	QC00684
TCLP Lead (mg/L)		<0.10	0.1	1/25/00	PB00534	QC00684
TCLP Selenium (mg/L)		<0.10	0.1	1/25/00	PB00534	QC00684
TCLP Silver (mg/L)		<0.05	0.05	1/25/00	PB00534	QC00684

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Pyridine (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
1,4-Dichlorobenzene (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
o-Cresol (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
m,p-Cresol (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
Hexachloroethane (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
Nitrobenzene (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
Hexachlorobutadiene (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
2,4,6-Trichlorophenol (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
2,4,5-Trichlorophenol (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
2,4-Dinitrotoluene (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
2,4-D (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
Hexachlorobenzene (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
2,4,5-TP (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702
Pentachlorophenol (mg/L)		<0.05	0.25	1/31/00	PB00551	QC00702

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
Vinyl Chloride (mg/L)		96	0.001	1/27/00	PB00535	QC00685
1,1-Dichloroethene (mg/L)		95	0.001	1/27/00	PB00535	QC00685
Methyl ethyl ketone (mg/L)		108	0.01	1/27/00	PB00535	QC00685
Chloroform (mg/L)		98	0.001	1/27/00	PB00535	QC00685
1,2-Dichloroethane (EDC) (mg/L)		100	0.001	1/27/00	PB00535	QC00685
Benzene (mg/L)		97	0.001	1/27/00	PB00535	QC00685
Carbon Tetrachloride (mg/L)		103	0.001	1/27/00	PB00535	QC00685
Trichloroethene (TCE) (mg/L)		102	0.001	1/27/00	PB00535	QC00685
Tetrachloroethene (PCE) (mg/L)		101	0.001	1/27/00	PB00535	QC00685
Chlorobenzene (mg/L)		96	0.001	1/27/00	PB00535	QC00685
1,4-Dichlorobenzene (mg/L)		101	0.001	1/27/00	PB00535	QC00685

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Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
DRO (mg/Kg)		<50	50	1/20/00	PB00350	QC00471
DRO (mg/Kg)		<50	50	1/21/00	PB00362	QC00475

Param	Flag	Blank Result	Reporting Limit	Date Analyzed	Prep Batch #	QC Batch #
GRO (mg/Kg)		<5	0.1	1/19/00	PB00341	QC00450

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	TCLP Mercury (mg/L)	<0.010	1	0.005	0.0419	838		80 - 120	0 - 20	QC00490
MSD	TCLP Mercury (mg/L)	<0.010	1	0.005	0.0444	888	6	80 - 120	0 - 20	QC00490

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	TCLP Arsenic (mg/L)	0.16	1	10	10.5	103		75 - 125	0 - 20	QC00684
MS	TCLP Barium (mg/L)	0.56	1	10	10.9	101		75 - 125	0 - 20	QC00684
MS	TCLP Cadmium (mg/L)	0.07	1	10	10.1	100		75 - 125	0 - 20	QC00684
MS	TCLP Chromium (mg/L)	0.09	1	10	9.9	98		75 - 125	0 - 20	QC00684
MS	TCLP Lead (mg/L)	0.14	1	10	10.3	102		75 - 125	0 - 20	QC00684
MS	TCLP Selenium (mg/L)	<0.10	1	10	10.3	102		75 - 125	0 - 20	QC00684
MS	TCLP Silver (mg/L)	<0.05	1	2	1.98	99		75 - 125	0 - 20	QC00684
MSD	TCLP Arsenic (mg/L)	0.16	1	10	10.7	105	2	75 - 125	0 - 20	QC00684
MSD	TCLP Barium (mg/L)	0.56	1	10	11.0	104	1	75 - 125	0 - 20	QC00684
MSD	TCLP Cadmium (mg/L)	0.07	1	10	10.3	102	2	75 - 125	0 - 20	QC00684
MSD	TCLP Chromium (mg/L)	0.09	1	10	10.2	101	3	75 - 125	0 - 20	QC00684
MSD	TCLP Lead (mg/L)	0.14	1	10	10.5	104	2	75 - 125	0 - 20	QC00684
MSD	TCLP Selenium (mg/L)	<0.10	1	10	10.7	106	4	75 - 125	0 - 20	QC00684
MSD	TCLP Silver (mg/L)	<0.05	1	2	2.06	103	4	75 - 125	0 - 20	QC00684

Standard	Param	Sample Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
MS	Vinyl Chloride (mg/L)	<0.05	1	100	98	98		80 - 120	0 - 20	QC00685
MS	1,1-Dichloroethene (mg/L)	<0.05	1	100	130	130		80 - 120	0 - 20	QC00685
MS	Methyl ethyl ketone (mg/L)	<0.5	1	100	143	143		80 - 120	0 - 20	QC00685
MS	Chloroform (mg/L)	<0.05	1	100	110	110		80 - 120	0 - 20	QC00685
MS	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	100	114	114		80 - 120	0 - 20	QC00685
MS	Benzene (mg/L)	<0.05	1	100	120	120		80 - 120	0 - 20	QC00685
MS	Carbon Tetrachloride (mg/L)	<0.05	1	100	120	120		80 - 120	0 - 20	QC00685
MS	Trichloroethene (TCE) (mg/L)	<0.05	1	100	108	108		80 - 120	0 - 20	QC00685
MS	Tetrachloroethene (PCE) (mg/L)	<0.05	1	100	110	110		80 - 120	0 - 20	QC00685
MS	Chlorobenzene (mg/L)	<0.05	1	100	98	98		80 - 120	0 - 20	QC00685
MS	1,4-Dichlorobenzene (mg/L)	<0.05	1	100	106	106		80 - 120	0 - 20	QC00685

Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec.	% Rec. Limit	Prep Batch #	QC Batch #
MS	Dibromofluoromethane (mg/Kg)	47	1	50	JG	94	80 - 120	PB00535	QC00685
MS	Toluene-d8 (mg/Kg)	49	1	50	JG	98	80 - 120	PB00535	QC00685
MS	4-Bromofluorobenzene (mg/Kg)	50	1	50	JG	100	80 - 120	PB00535	QC00685

MSD	Vinyl Chloride (mg/L)	<0.05	1	100	96	96	2	80 - 120	0 - 20	QC00685
MSD	1,1-Dichloroethene (mg/L)	<0.05	1	100	134	134	3	80 - 120	0 - 20	QC00685
MSD	Methyl ethyl ketone (mg/L)	<0.5	1	100	117	117	20	80 - 120	0 - 20	QC00685
MSD	Chloroform (mg/L)	<0.05	1	100	113	113	3	80 - 120	0 - 20	QC00685
MSD	1,2-Dichloroethane (EDC) (mg/L)	<0.05	1	100	111	111	3	80 - 120	0 - 20	QC00685
MSD	Benzene (mg/L)	<0.05	1	100	119	119	1	80 - 120	0 - 20	QC00685
MSD	Carbon Tetrachloride (mg/L)	<0.05	1	100	122	122	2	80 - 120	0 - 20	QC00685
MSD	Trichloroethene (TCE) (mg/L)	<0.05	1	100	111	111	3	80 - 120	0 - 20	QC00685
MSD	Tetrachloroethene (PCE) (mg/L)	<0.05	1	100	113	113	3	80 - 120	0 - 20	QC00685
MSD	Chlorobenzene (mg/L)	<0.05	1	100	101	101	3	80 - 120	0 - 20	QC00685
MSD	1,4-Dichlorobenzene (mg/L)	<0.05	1	100	108	108	2	80 - 120	0 - 20	QC00685

Standard	Surrogate	Result	Dil.	Spike Amount	Analyst	% Rec	% Rec. Limit	Prep Batch #	QC Batch #
MSD	Dibromofluoromethane (mg/Kg)	47	1	50	JG	94	80 - 120	PB00535	QC00685
MSD	Toluene-d8 (mg/Kg)	48.5	1	50	JG	97	80 - 120	PB00535	QC00685
MSD	4-Bromofluorobenzene (mg/Kg)	49	1	50	JG	98	80 - 120	PB00535	QC00685

Quality Control Report
Duplicates

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Corrosivity		Non-Corrosive	Non-Corrosive	1	0	0 - 20	QC00504
Duplicate	pH (s.u.)		7.73	7.70	1	0	0 - 20	QC00504

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Ignitability		Non-ignitable	non-ignitable	1	0	0 - 20	QC00507

Standard	Param	Flag	Duplicate Result	Sample Result	Dilution	RPD	RPD Limit	QC Batch #
Duplicate	Reactivity		Non-Reactive	Non-reactive	1	0	0 - 20	QC00502
Duplicate	Hydrogen Sulfide		<10	<10	1	0	0 - 20	QC00502
Duplicate	Hydrogen Cyanide		<2.5	<2.5	1	0	0 - 20	QC00502

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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 Mercury (mg/L)	<0.010	1	0.005	0.0423	846		80 - 120	0 - 20	QC00490
LCSD	TCLP Mercury (mg/L)	<0.010	1	0.005	0.0437	874	3	80 - 120	0 - 20	QC00490

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	TCLP Arsenic (mg/L)	<0.10	1	10	10.4	104		75 - 125	0 - 20	QC00684
LCS	TCLP Barium (mg/L)	<0.10	1	10	10.6	106		75 - 125	0 - 20	QC00684
LCS	TCLP Cadmium (mg/L)	<0.02	1	10	10.4	104		75 - 125	0 - 20	QC00684
LCS	TCLP Chromium (mg/L)	<0.05	1	10	10.3	103		75 - 125	0 - 20	QC00684
LCS	TCLP Lead (mg/L)	<0.10	1	10	10.8	108		75 - 125	0 - 20	QC00684
LCS	TCLP Selenium (mg/L)	<0.10	1	10	10.7	107		75 - 125	0 - 20	QC00684
LCS	TCLP Silver (mg/L)	<0.05	1	2	2.0	100		75 - 125	0 - 20	QC00684
LCSD	TCLP Arsenic (mg/L)	<0.10	1	10	10.5	105	1	75 - 125	0 - 20	QC00684
LCSD	TCLP Barium (mg/L)	<0.10	1	10	10.3	103	3	75 - 125	0 - 20	QC00684
LCSD	TCLP Cadmium (mg/L)	<0.02	1	10	10.4	104	0	75 - 125	0 - 20	QC00684
LCSD	TCLP Chromium (mg/L)	<0.05	1	10	10.3	103	0	75 - 125	0 - 20	QC00684
LCSD	TCLP Lead (mg/L)	<0.10	1	10	10.5	105	3	75 - 125	0 - 20	QC00684
LCSD	TCLP Selenium (mg/L)	<0.10	1	10	10.5	105	2	75 - 125	0 - 20	QC00684
LCSD	TCLP Silver (mg/L)	<0.05	1	2	2.0	100	0	75 - 125	0 - 20	QC00684

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Pyridine (mg/L)	<0.05	1	80	35.48	44		0 - 103	0 - 20	QC00702
LCS	1,4-Dichlorobenzene (mg/L)	<0.05	1	80	51.17	64		33 - 84	0 - 20	QC00702
LCS	o-Cresol (mg/L)	<0.05	1	80	52.50	66		34 - 93	0 - 20	QC00702
LCS	m,p-Cresol (mg/L)	<0.05	1	160	94.42	59		0 - 128	0 - 20	QC00702
LCS	Hexachloroethane (mg/L)	<0.05	1	80	47.27	59		28 - 87	0 - 20	QC00702
LCS	Nitrobenzene (mg/L)	<0.05	1	80	72.13	90		40 - 98	0 - 20	QC00702
LCS	Hexachlorobutadiene (mg/L)	<0.05	1	80	51.64	65		30 - 91	0 - 20	QC00702
LCS	2,4,6-Trichlorophenol (mg/L)	<0.05	1	80	72.00	90		43 - 109	0 - 20	QC00702
LCS	2,4,5-Trichlorophenol (mg/L)	<0.05	1	80	70.75	88		47 - 106	0 - 20	QC00702
LCS	2,4-Dinitrotoluene (mg/L)	<0.05	1	80	77.18	96		52 - 101	0 - 20	QC00702
LCS	2,4-D (mg/L)	<0.05	1	80	55.84	70		0 - 139	0 - 20	QC00702
LCS	Hexachlorobenzene (mg/L)	<0.05	1	80	82.41	103		43 - 117	0 - 20	QC00702
LCS	2,4,5-TP (mg/L)	<0.05	1	80	57.25	72		0 - 138	0 - 20	QC00702
LCS	Pentachlorophenol (mg/L)	<0.05	1	80	53.55	67		27 - 107	0 - 20	QC00702

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Standard	Surrogate	Dil.	Spike Amount	Result	% Rec	% Rec. Limit	QC Batch #
LCS	2-Fluorophenol (mg/Kg)	1	80	39.20	49	16 - 65	QC00702
LCS	Phenol-d5 (mg/Kg)	1	80	23.48	29	8 - 48	QC00702
LCS	Nitrobenzene-d5 (mg/Kg)	1	80	62.07	78	28 - 118	QC00702
LCS	2-Fluorobiphenyl (mg/Kg)	1	80	66.18	83	40 - 106	QC00702
LCS	2,4,6-Tribromophenol (mg/Kg)	1	80	65.38	82	48 - 117	QC00702
LCS	Terphenyl-d14 (mg/Kg)	1	80	77.66	97	48 - 132	QC00702

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	Vinyl Chloride (mg/L)	96	1	100	97	97		80 - 120	0 - 20	QC00685
LCS	1,1-Dichloroethene (mg/L)	95	1	100	134	134		80 - 120	0 - 20	QC00685
LCS	Methyl ethyl ketone (mg/L)	108	1	100	114	114		80 - 120	0 - 20	QC00685
LCS	Chloroform (mg/L)	98	1	100	115	115		80 - 120	0 - 20	QC00685
LCS	1,2-Dichloroethane (EDC) (mg/L)	100	1	100	118	118		80 - 120	0 - 20	QC00685
LCS	Benzene (mg/L)	97	1	100	118	118		80 - 120	0 - 20	QC00685
LCS	Carbon Tetrachloride (mg/L)	103	1	100	122	122		80 - 120	0 - 20	QC00685
LCS	Trichloroethene (TCE) (mg/L)	102	1	100	111	111		80 - 120	0 - 20	QC00685
LCS	Tetrachloroethene (PCE) (mg/L)	101	1	100	111	111		80 - 120	0 - 20	QC00685
LCS	Chlorobenzene (mg/L)	96	1	100	100	100		80 - 120	0 - 20	QC00685
LCS	1,4-Dichlorobenzene (mg/L)	101	1	100	109	109		80 - 120	0 - 20	QC00685

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec.	% Rec. Limit	QC Batch #
LCS	Dibromofluoromethane (mg/Kg)	1	50	48.5	97	80 - 120	QC00685
LCS	Toluene-d8 (mg/Kg)	1	50	49	98	80 - 120	QC00685
LCS	4-Bromofluorobenzene (mg/Kg)	1	50	49.5	99	80 - 120	QC00685

LCSD	Vinyl Chloride (mg/L)	96	1	100	98	98	1	80 - 120	0 - 20	QC00685
LCSD	1,1-Dichloroethene (mg/L)	95	1	100	135	135	1	80 - 120	0 - 20	QC00685
LCSD	Methyl ethyl ketone (mg/L)	108	1	100	122	122	7	80 - 120	0 - 20	QC00685
LCSD	1,2-Dichloroethane (EDC) (mg/L)	100	1	100	121	121	3	80 - 120	0 - 20	QC00685
LCSD	Benzene (mg/L)	97	1	100	111	111	6	80 - 120	0 - 20	QC00685
LCSD	Carbon Tetrachloride (mg/L)	103	1	100	121	121	1	80 - 120	0 - 20	QC00685
LCSD	Trichloroethene (TCE) (mg/L)	102	1	100	109	109	2	80 - 120	0 - 20	QC00685
LCSD	Tetrachloroethene (PCE) (mg/L)	101	1	100	110	110	1	80 - 120	0 - 20	QC00685
LCSD	Chlorobenzene (mg/L)	96	1	100	101	101	1	80 - 120	0 - 20	QC00685
LCSD	1,4-Dichlorobenzene (mg/L)	101	1	100	108	108	1	80 - 120	0 - 20	QC00685

Standard	Surrogate	Dil.	Spike Amount	Result	% Rec	% Rec. Limit	QC Batch #
LCSD	Dibromofluoromethane (mg/Kg)	1	50	50	100	80 - 120	QC00685
LCSD	Toluene-d8 (mg/Kg)	1	50	49	98	80 - 120	QC00685
LCSD	4-Bromofluorobenzene (mg/Kg)	1	50	49.5	99	80 - 120	QC00685

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	DRO (mg/Kg)	<50	1	250	276	110		70 - 130	0 - 20	QC00471

Report Date: 2/3/00 Order ID Number: A00011907 Page Number: 13 of 15

1415 Drum Soil & Blast Sand N/A

LCSD	DRO (mg/Kg)	<50	1	250	251	100	9	70 - 130	0 - 20	QC00471

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	DRO (mg/Kg)	<50	1	250	192	77		70 - 130	0 - 20	QC00475
LCSD	DRO (mg/Kg)	<50	1	250	189	76	2	70 - 130	0 - 20	QC00475

	Param	Blank Result	Dil.	Spike Amount Added	Matrix Spike Result	% Rec.	RPD	% Rec. Limit	RPD Limit	QC Batch #
LCS	GRO (mg/Kg)	<5	1	1	0.997	100		80 - 120	0 - 20	QC00450
LCSD	GRO (mg/Kg)	<5	1	1	0.978	98	2	80 - 120	0 - 20	QC00450

Report Date: 2/3/00 Order ID Number: A00011907 Page Number: 14 of 15
1415 Drum Soil & Blast Sand N/A

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 #
CCV 1	TCLP Mercury (mg/L)		0.005	0.00516	103	80 - 120	1/20/00	QC00490

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
ICV	TCLP Arsenic (mg/L)		1	1.03	103	75 - 125	1/25/00	QC00684
ICV	TCLP Barium (mg/L)		1	1.04	104	75 - 125	1/25/00	QC00684
ICV	TCLP Cadmium (mg/L)		1	1.02	102	75 - 125	1/25/00	QC00684
ICV	TCLP Chromium (mg/L)		1	1.02	102	75 - 125	1/25/00	QC00684
ICV	TCLP Lead (mg/L)		1	1.03	103	75 - 125	1/25/00	QC00684
ICV	TCLP Selenium (mg/L)		1	1.01	101	75 - 125	1/25/00	QC00684
ICV	TCLP Silver (mg/L)		0.2	0.208	104	75 - 125	1/25/00	QC00684
CCV 1	TCLP Arsenic (mg/L)		1	1.04	104	75 - 125	1/25/00	QC00684
CCV 1	TCLP Barium (mg/L)		1	1.05	105	75 - 125	1/25/00	QC00684
CCV 1	TCLP Cadmium (mg/L)		1	1.01	101	75 - 125	1/25/00	QC00684
CCV 1	TCLP Chromium (mg/L)		1	1.03	103	75 - 125	1/25/00	QC00684
CCV 1	TCLP Lead (mg/L)		1	1.04	104	75 - 125	1/25/00	QC00684
CCV 1	TCLP Selenium (mg/L)		1	1.04	104	75 - 125	1/25/00	QC00684
CCV 1	TCLP Silver (mg/L)		0.2	0.204	102	75 - 125	1/25/00	QC00684

Standard	Param	Flag	CCVs TRUE Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed	QC Batch #
CCV 1	Pyridine (mg/L)		60	60.71	101	0 - 103	1/31/00	QC00702
CCV 1	1,4-Dichlorobenzene (mg/L)		60	58.77	98	33 - 84	1/31/00	QC00702
CCV 1	o-Cresol (mg/L)		60	58.32	97	34 - 93	1/31/00	QC00702
CCV 1	m,p-Cresol (mg/L)		60	57.76	96	0 - 128	1/31/00	QC00702
CCV 1	Hexachloroethane (mg/L)		60	56.21	94	28 - 87	1/31/00	QC00702
CCV 1	Nitrobenzene (mg/L)		60	59.01	98	40 - 98	1/31/00	QC00702
CCV 1	Hexachlorobutadiene (mg/L)		60	59.64	99	30 - 91	1/31/00	QC00702
CCV 1	2,4,6-Trichlorophenol (mg/L)		60	66.44	111	43 - 109	1/31/00	QC00702
CCV 1	2,4,5-Trichlorophenol (mg/L)		60	63.11	105	47 - 106	1/31/00	QC00702
CCV 1	2,4-Dinitrotoluene (mg/L)		60	62.94	105	52 - 101	1/31/00	QC00702
CCV 1	2,4-D (mg/L)		60	62.02	103	0 - 139	1/31/00	QC00702
CCV 1	Hexachlorobenzene (mg/L)		60	60.69	101	43 - 117	1/31/00	QC00702
CCV 1	2,4,5-TP (mg/L)		60	65.65	109	0 - 138	1/31/00	QC00702
CCV 1	Pentachlorophenol (mg/L)		60	56.44	94	27 - 107	1/31/00	QC00702
CCV 1	2-Fluorophenol (mg/L)		60	64.94	108	16 - 65	1/31/00	QC00702
CCV 1	Phenol-d5 (mg/L)		60	61.89	103	8 - 48	1/31/00	QC00702
CCV 1	Nitrobenzene-d5 (mg/L)		60	59.00	98	28 - 118	1/31/00	QC00702
CCV 1	2-Fluorobiphenyl (mg/L)		60	58.73	98	40 - 106	1/31/00	QC00702

Analysis Request and Chain of Custody Record

PAGE: 1 OF: 1

HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.
Midland, Texas 79705
(915) 682-4559 Fax (915) 682-3946

CLIENT NAME: ESP

SITE MANAGER: Craig Miller

PROJECT NO.: 1415

PROJECT NAME: Plant Site Plant Land

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE		BTEX 8020/602	BTEX 8260/624	TPH 418.1 / 8015 MOD. / TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	BCI	GC/MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 608/625	BOD, TSS, pH, TDS, Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)
	1-18-00	10:00		X		Spill Soil Pop #1	2				✓					✓			✓			✓								
	"	10:10		X		Filter Soil Drum Sample #1	2				✓					✓			✓			✓								
	"	11:00		X		Plant Soil Sample #1	2				✓					✓			✓			✓								
	3			X																										
	4			X																										
	5			X																										

RELINQUISHED BY: (Signature)	Date: 1-18-00 Time: 2:00	RECEIVED BY: (Signature)	Date: 1/18/00 Time: 2:00 PM
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:
RELINQUISHED BY: (Signature)	Date: Time:	RECEIVED BY: (Signature)	Date: Time:

SAMPLED BY: (Print & Sign) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX UPS HAND DELIVERED AIRBILL #: OTHER:

HIGHLANDER CONTACT PERSON:

Remarks by: Jan 27

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: ADDRESS: CITY: STATE: ZIP: CONTACT: PHONE:

RECEIVED BY: (Signature) DATE: TIME:

SAMPLE CONDITION WHEN RECEIVED:

MATRIX: W-Water A-Air SO-Soil S-Soil SL-Sludge O-Other

REMARKS:

Please Fill out all copies – Laboratory retains yellow copy – Return original copy to Highlander Environmental Corp. – Project Manager retains pink copy – Accounting receives Gold copy.

HAMILTON – H.C.

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
FEB 18 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator WEATHERFORD
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 NEW MEXICO
7. Location of Material (Street Address or ULSTR) 3000 W. COUNTY RD. HOBBS	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:

02-007

SUMP SLUDGE MATEIAL GENERATED FROM THE STEAM CLEANING OF OILFIELD TOOLS.
I AM ENCLOSING ANALYTICAL DATA, KNOWLEDGE OF PROCESS LETTER, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

Analytical For this waste Stream is Approved until January ~~2000~~ 2001. Provided That the System & Process Does Not Change. MJK 2-18-00 MJK

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: 2-10-00
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: 02-15-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 02-18-00

February 10, 2000

NMOCD
2040 South Pacheco Street
Santa Fe, NM 87505

ATTN: Martyne J. Kieling

Dear Ms. Kieling,

Weatherford, Hobbs Facility, has been disposing of liquids from our system for cleaning at CRI. The last laboratory analysis was July 27, 1998. The process does not generate large volumes of waste material and has not changed since installed. The tools cleaned are the same; there have been no changes in our process.

We are requesting you extend approval of the laboratory analysis until January 2001, so we may contain our expense involved with our commitment to be good stewards of the environment and public health.

Sincerely,

Mandy Halladay

Mandy Halladay

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

COMPANY / GENERATOR: Weatherford

ADDRESS 3000 W. County Road, Hobbs, New Mexico 88240

GENERATING SITE 3000 W. County Rd. Hobbs, New Mexico

COUNTY Lea STATE NM

TYPE OF WASTE Sump Sludge

ESTIMATED VOLUME 200 Barrels

GENERATING PROCESS Washing/steam cleaning of oilfield tools

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 2613.

AGENT Mandy Halladay
SIGNATURE

NAME Mandy Halladay
PRINTED

ADDRESS 3000 W. County Rd.

Hobbs, New Mexico 88240

DATE February 10, 2000

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

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-010
Project Location: Hobbs, NM

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project/Site Name: Yearly Sampling

TCLP METALS (mg/L)

TA#	Field Code	As	Se	Cd	Cr	Pb	Ag	Ba	Hg
	EPA LIMIT =	5.0	1.0	1.0	5.0	5.0	5.0	100.0	0.20
T102365	S1	<0.10	<0.10	0.11	<0.05	0.13	<0.05	0.68	<0.010
ICV		1.0	1.0	0.99	0.98	0.99	0.20	1.0	0.055
CCV		1.0	1.0	1.0	1.0	0.98	0.20	1.0	0.050
Reporting Limit		0.10	0.10	0.02	0.05	0.10	0.05	0.10	<0.010
EXTRACTION DATE		07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/14/98	07/[illegible]98
ANALYSIS DATE		07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/16/98	07/[illegible]98
RPD		0	0	0	0	0	16	5	2
% Extraction Accuracy		95	100	95	95	95	108	105	98
% Instrument Accuracy		100	100	99	99	98	100	100	105

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: SA/HC
METHODS: EPA SW 846-1311, 6010B, 7470.
TCLP METALS SPIKE: 2.0 mg/L As, Se, Cd, Cr, Pb, Ba; 5.0 mg/L Ag; 0.050 mg/L Hg
TCLP METALS CV: 1.0 mg/L As, Se, Cd, Cr, Pb, Ba; 0.20 mg/L Ag; 0.050 mg/L Hg

Director, Dr. Blair Leftwich

7-27-98
Date

TRACEANALYSIS, 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

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project No: 101-010
Project Location: Hobbs NM

ANALYTICAL RESULTS FOR
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

Extraction Date: 7/18/98
Analysis Date: 7/18/98
Sampling Date: 7/09/98
Sample Condition: I & C.
Sample Received by: VW
Project Name: Yearly Sampling

TA#	Field Code	REACTIVITY	SULFIDES (ppm)	CYANIDES (ppm)	CORROSIVITY	pH (s.u.)	IGNITABILITY
	EPA LIMIT =	—	500	250	—	<2 >12.5	—
T102365	S1	Non-reactive	<10	<2.5	Non-corrosive	7.7	Nonignitable
QC	Quality Control	—	—	—	—	.	—
RPD		0	0	0	0	0	0
% Extraction Accuracy		100	100	100	100	100	100
% 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

7-27-98
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
Llano Permian Environmental
Attention Robbie Walker
1031 Andrews Hwy, Ste. 207
Midland Tx.79701

Date: Jul 15, 1998
Date Rec: 7/10/98
Project: 101-010
Proj Name: Yearly Sampling
Proj Loc: Hobbs, NM

Lab Receiving # : 9807000174
Sampling Date: 7/9/98
Sample Condition: Intact and Cool
Sample Received By: VW

TA#	Field Code	MATRIX	TRPHC (mg/Kg)
102365	S1	Sludge	586,000
Method Blank			<10.0
Reporting Limit			10
QC			103
RPD			4
% Extraction Accuracy			110
% Instrument Accuracy			103

TEST	PREP METHOD	PREP DATE	ANALYSIS METHOD	ANALYSIS COMPLETED	CHEMIST	QC: (mg/L)	SPIKE: (mg/Kg)
TRPHC	EPA 3550	7/14/98	EPA 418.1	7/14/98	MS	100	250

Director, Dr. Blair Leftwich

7-15-98
Date

TRACEANALYSIS, 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
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

July 27, 1998
Receiving Date: 07/10/98
Sample Type: SLUDGE
Job Number: 101-010
Project Location: Hobbs, NM

Extraction Date: 07/21/98
Analysis Date: 07/22/98
Sampling Date: 07/09/98
Sample Condition: Intact & Cool
Sample Received by: VW
Project Name: Yearly Sampling

TCLP VOLATILES (mg/L)	EPA LIMIT	Reporting Limit	T102365 S1	CV	RPD	%EA	%IA
Vinyl chloride	0.20	0.050	ND	118	2	87	118
1,1-Dichloroethene	0.70	0.050	ND	119	2	100	119
Methyl Ethyl Ketone	200.0	0.50	ND	83	1	116	83
Chloroform	6.00	0.050	ND	107	6	104	107
1,2-Dichloroethane	0.50	0.050	ND	107	7	91	107
Benzene	0.50	0.050	ND	110	2	106	110
Carbon Tetrachloride	0.50	0.050	ND	115	1	86	115
Trichloroethene	0.50	0.050	ND	117	2	110	117
Tetrachloroethene	0.70	0.050	ND	113	1	110	113
Chlorobenzene	100.00	0.050	ND	105	3	101	105
1,4-Dichlorobenzene	7.50	0.050	ND	110	1	109	110

SURROGATES	% Recovery
Dibromofluoromethane	83
Toluene-d8	88
4-Bromofluorobenzene	83

ND = Not Detected

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

Director, Dr. Blair Leftwich

7-27-98
DATE

TRACEANALYSIS, 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
LLANO PERMIAN ENVIRONMENTAL
Attention: Robbie Walker
1031 Andrews Hwy
Midland, TX 79701

July 27, 1998
Receiving Date: 07/10/98
Sample Type: Sludge
Project #: 101-010
Project Location: Hobbs, NM

Extraction Date: 7/13/98
Analysis Date: 07/18/98
Sampling Date: 07/09/98
Sample Condition: I & C
Sample Received by: VW
Project Name: Yearly Samp

TCLP Semi-Volatiles (mg/L)	EPA Limit	Reporting Limit	T102365 S1	QC	RPD	%EA	%IA
Pyridine	5.0	0.05	ND	68	5	36	75
1,4-Dichlorobenzene	7.5	0.05	ND	80	2	58	100
o-Cresol	200.0	0.05	ND	70	6	45	88
m,p-Cresol	200.0	0.05	ND	64	8	74	80
Hexachloroethane	3.0	0.05	ND	66	4	49	83
Nitrobenzene	2.0	0.05	ND	78	1	68	98
Hexachlorobutadiene	0.5	0.05	ND	87	1	59	109
2,4,6-Trichlorophenol	2.0	0.05	ND	82	116*	13**	103
2,4,5-Trichlorophenol	400.0	0.05	ND	86	84*	25**	108
2,4-Dinitrotoluene	0.13	0.05	ND	74	4	66	93
2,4-D	10.0	0.05	ND	91	1	72	114
Hexachlorobenzene	0.13	0.05	ND	80	2	59	100
2,4,5-TP	1.0	0.05	ND	93	6	63	116
Pentachlorophenol	100.0	0.05	ND	79	141*	4**	99

Surrogates	% RECOVERY
2-Fluorophenol	30
Phenol-d6	27
Nitrobenzene-d5	64
2-Fluorobiphenyl	54
2,4,6-Tribromophenol	63
Terphenyl-d14	69

ND - Not Detected

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

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

7-27-98

Director, Dr. Blair Leftwich DATE

102365

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

LAB Order ID # 74

Company Name: Llano Permian Environmental
Phone #: (915) 522-2133
Address: 1031 Andrews Hwy Midland TX 79701
Fax #: (915) 522-2180
Contact Person: Rabbie Walker
Invoice to: (If different from above) Weatherford 3000 W. County Rd Hobbs NM
Project #: 101-010
Project Name: Yearly Sampling
Project Location: Hobbs NM
Sampler Signature: Rabbie Walker

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE		SAMPLING: DATE	TIME
102365	S1	2	2L				X				X			9/7/98	9:30

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8020/602	BTEX 8020/602	TPH 418.1	PAH 8270	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC/MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 8080/608	BOD, TSS, PH	Turn Around Time if different from standard	Hold
102365			X			X	X	X	X							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Julie Russ	7/9/98	3:10PM	Helen Shelton	7/9/98	3:10 PM
Helen Shelton	7/9/98	6:00PM			
			Received at Laboratory by:		
			[illegible]	7-10-98	10:00AM

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4 °C
Log-in Review [illegible]

REMARKS:

7/28/98

Submittal of samples constitutes acceptance of Trace Analysis, Inc. Terms and Conditions

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON ENERGY SERVIC
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site ARTESIA YARD
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter CRI
3. Address of Facility Operator P. O. BOX 388, HOBBS, NM 88241	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) 2311 S. 1ST STREET ARTESIA, NM 88210	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

WASH RACK GRIT GENERATED BY WASHING OF OILFIELD EQUIPMENT. I AM ENCLOSING ANALYTICAL, CERTIFICATE OF WASTE AND CHAIN OF CUSTODY. THIS MATERIAL HAS BEEN APPROVED IN THE PAST.

02-001

FEB 2000 Received

Estimated Volume 120 BBLS. cy / Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 02-01-00
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: 02-14-00

APPROVED BY: Martyn J. Kirby TITLE: Environmental Geologist DATE: 02-15-00

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

COMPANY / GENERATOR Halliburton Energy Services

ADDRESS 2311 S. First, Artesia, NM 88210

GENERATING SITE Same

COUNTY Eddy STATE NM

TYPE OF WASTE Wash Rack Grit

ESTIMATED VOLUME 120 BBLs

GENERATING PROCESS Wash water from washing of oilfield equipment

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 2613.

2000 Received

AGENT [signature]
SIGNATURE

NAME Scott Nelson
PRINTED

ADDRESS 5801 Lovington Hwy
Hobbs, NM 88240 505 392 0746

DATE 1-28-2000

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062

Receiving Date: 12/16/99
Reporting Date: 12/23/99
Project Number: NOT GIVEN
Project Name: WASH RACK GRIT
Project Location: WASH RACK, ARTESIA

Sampling Date: 12/16/99
Sample Type: SLUDGE
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH/GP

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	12/23/99
EPA LIMITS:		5	5	100	1	5	5	0.2	1
H4516-1	#1 WASHRACK GRIT	<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, 600/4-91/01		206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

*Sample contains <10% solid.

Amy Hill
Chemist

12/23/99
Date

H4516M.XLS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062

Receiving Date: 12/16/99
Reporting Date: 12/27/99
Project Number: NOT GIVEN
Project Name: WASH RACK GRIT
Project Location: WASH RACK, ARTESIA

Sampling Date: 12/16/99
Sample Type: LIQUID*
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH/BC

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		12/22/99	12/23/99	12/17/99	12/20/99
H4516-1	#1 WASHRACK GRIT	Not reactive	Not reactive	7.76	>140
Quality Control		NR	NR	7.07	NR
True Value QC		NR	NR	7.00	NR
% Recovery		NR	NR	101	NR
Relative Percent Difference		NR	NR	0.6	NR

*Sample contains <10% solid.

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

12/27/99
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062

Receiving Date: 12/16/99
Reporting Date: 12/17/99
Project Number: NOT GIVEN
Project Name: WASH RACK GRIT
Project Location: WASH RACK, ARTESIA
Lab Number: H4516-1
Sample ID: #1 WASH RACK GRIT

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

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H4516-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.006	12	0.050
1,4-Dichlorobenzene	7.50	0.035	0.005	0.036	72	0.050
o-Cresol	200	<0.020	<0.005	0.017	34	0.050
m, p-Cresol	200	0.087	<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	23
Phenol-d5	22
Nitrobenzene-d5	62
2-Fluorobiphenyl	87
2,4,6-Tribromophenol	72
Terphenyl-d14	99

METHODS: EPA SW 846-8270, 1311, 3510
*Sample contains <10% solid.

Burgess J. A. Cooke, Ph. D.

12/17/99
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
HALLIBURTON ENERGY SERVICES
ATTN: SCOTT NELSON
5801 LOVINGTON HWY
HOBBS, NM 88240
FAX TO: (505) 392-7062

Receiving Date: 12/16/99
Reporting Date: 12/17/99
Project Number: NOT GIVEN
Project Name: WASH RACK GRIT
Project Location: WASHRACK, ARTESIA
Lab Number: H4516-1
Sample ID: #1 WASH RACK GRIT

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

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H4516-1	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	<0.050	<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	<0.005	<0.005	0.099	99	0.100

	% RECOVERY
Dibromofluoromethane	85
Toluene-d8	90
Bromofluorobenzene	82

METHODS: EPA SW 846-8260, 1311
*Sample contains <10% solid.

Burgess J. A. Cooke, Ph. D.

12/17/99
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ___ of ___

Company Name:	Halliburton Energy Services
Project Manager:	Scott Nelson
Address:	2311 S. First
City:	Artesia State: NM Zip: 88210
Phone #:	505 392 0746
Fax #:	505 392 7062
Project #:	Washrack
Project Name:	Washrack Grit
Project Location:	Washrack Grit

BILL TO PO #:

Company:	Halliburton
Attn:	Scott Nelson
Address:	5801 Lovington Hwy
City:	Hobbs
State:	NM Zip: 88240
Phone #:	505 392 0746
Fax #:	505 392 7062

LAB I.D. #	Sample I.D.	COMP(C) OR GRAB(G)	# CONTAINERS	MATRIX: GROUNDWATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERVATION: ACID:	PRESERVATION: ICE / COOL	PRESERVATION: OTHER:	SAMPLING: DATE	SAMPLING: TIME	ANALYSIS REQUEST: TCLP
# 1	# 1 Washrack														

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 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.

Sampler Relinquished: Scott Nelson	Date: 12-16-99 Time:	Received By:	Phone Result: ☑ Yes ☐ No Additional Fax #:
Relinquished By: Scott Nelson	Date: 12/16/99 Time: 3:00	Received By: (Lab Staff)	Fax Results: ☐ Yes ☐ No. REMARKS:
Delivered By: (Circle One) UPS - Fed Ex - Bus - Other		Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

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Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator L G & 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 New Mexico
7. Location of Material (Street Address or ULSTR) 921 Sanger, Hobbs	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:

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, analytical and chain of custody. This material has been approved in the past.

01-2006

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: 1-27-00
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: 02-01-00

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 02-10-00

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

DATE 1-27-00

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

CCI

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

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: 02/23/99
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

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: 02/26/99
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 PLANT	<1	<1	<5	<0.2	<1	<1	<0.02	<0.1
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

2/26/99
Date

H4035M.XLS

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: 02/25/99
Project Number: NOT GIVEN
Project Name: LG&E NATURAL GAS
Project Location: VARIOUS

Sampling Date: 02/22/99
Sample Type: WASTEWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY 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 PLANT	Not reactive	Not reactive	8.74	>140
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*

Burgett A. Cooke
Chemist

2/25/99
Date

H4035R.XLS

CARDINAL 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
Project Manager: Dyke Browning
Address:
City: State: Zip:
Phone #:
Fax #:
Project #: Project Owner:
Project Name: LG&E Natural
Project Location: Various

BILL TO PO #:
Company:
Attn:
Address:
City:
State: Zip:
Phone #:
Fax #:

ANALYSIS REQUEST: Complete TCLP

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Complete TCLP
H4035-1	Hobbs Plant		2		X						X		2/22	8:35a	✓
-2	Apex Station		2		X						X		2/22	9:05a	✓
-3	Bootleg Station		2		X						X		2/22	10:45a	✓
-4	Calmon Station		2		X						X		2/22	11:45a	✓
Sample Invalid	~~Apex Gold Station~~		~~2~~		~~X~~						~~X~~		~~2/22~~	~~12:15p~~	DJB
-5	Antelope Ridge Plant		2		X						X		2/22	1:45p	✓

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished: [signature] Date: 2/22/99 Time: 3:31 p
Received By:
Relinquished By: [signature] Date: 2/22/99 Time: 3:31
Received By: (Lab Staff) Amy Hill
Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No
CHECKED BY: (Initials)

Phone Result ☐ Yes ☐ No Additional Fax #:
Fax Result: ☐ Yes ☐ No
REMARKS: All samples taken with Coliwasa From top entry of tank

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

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

DATE

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
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
FEB 10 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

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 NEW MEXICO
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.

01-2005

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: 1-27-00
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: Environm. Eng. Specialist DATE: 02-01-00

APPROVED BY: [illegible] TITLE: Environmental Geologist DATE: 02-10-00

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

COMPANY / GENERATOR BJ 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 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 2613.

AGENT Perry Britton
SIGNATURE

NAME Perry Britton
PRINTED

ADDRESS 2401 Sivley
Artesia N.M. 88210

DATE 1-27-00

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(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,

Martyne J. Kieling

Martyne J. Kieling
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

Quanterra *Environmental Services*

ANALYTICAL REPORT

ARTESIA,NM

Lot #: I8A160124

DAVID BURKETT

B.J. Services Company

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

February 6, 1998

Quanterra
Environmental Services

EXECUTIVE SUMMARY - Detection Highlights

I8A160124

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
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

Quanterra Environmental Services

ANALYTICAL METHODS SUMMARY

I8A160124

PARAMETER	ANALYTICAL METHOD
% Moisture, Decanted-CLP	OCLP OLM03.1
Corrosivity	SW846 9045A
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Total Recoverable Petroleum Hydrocarbons	MCAWW 418.1
TCLP BNA's	SW846 8270B
TCLP Metals (ICP)	SW846 6010A
TCLP Volatiles	SW846 8240B

References:

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

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

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

Quanterra Environmental Services

SAMPLE SUMMARY

I8A160124

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIM
CEX9V	001	WASH RACK SLUDGE	01/14/98	08:

NOTE(S):

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

Quanterra Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: 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)

Quanterra Environmental Services

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)

Quanterra Environmental Services

B.J. SERVICES COMPANY

Client Sample ID: WASH RACK SLUDGE

General Chemistry

Lot-Sample #...: I8A160124-001 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.

Quanterra
Environmental Services

B.J. 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	CEX9V10F
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Selenium	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CEX9V10G
		Dilution Factor: 2				
		Analysis Time..: 12:33				
Prep Batch #...: 8026167						
Mercury	ND	0.0020	mg/L	SW846 7470A	01/26/98	CEX9V10H
		Dilution Factor: 1				
		Analysis Time..: 15:53				

NOTE(S):

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

Quanterra Environmental Services

QC DATA ASSOCIATION SUMMARY

I8A160124

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
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

Quanterra Environmental Services

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: I8A160124 Work Order #...: CF1H8109 Matrix.....: SOLID
MB Lot-Sample #: I8A210000-228
Leach Date.....: 01/21/98 Prep Date.....: 01/26/98 Analysis Date..: 01/27/98
Leach Batch #..: P802109 Prep Batch #...: 8026185 Analysis Time..: 20:56
Dilution Factor: 1

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	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.

Quanterra
Environmental Services

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: I8A160124
MB Lot-Sample #: I8B050000-228
Work Order #...: CF814101
Matrix.....: SOLID
Prep Date.....: 02/05/98
Analysis Time..: 00:07
Analysis Date..: 02/06/98
Prep Batch #...: 8036228
Dilution Factor: 1

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	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.

Quanterra 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	CF1H8108
		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	CF1H8102
		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	CF1H8104
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Lead	ND	0.50	mg/L	SW846 6010A	01/23-01/26/98	CF1H8105
		Dilution Factor: 1				
		Analysis Time..: 12:28				
Selenium	ND	0.25	mg/L	SW846 6010A	01/23-01/26/98	CF1H8106
		Dilution Factor: 1				
		Analysis Time..: 12:28				

NOTE(S):

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

Quanterra Environmental Services

METHOD BLANK REPORT

General Chemistry

Client Lot #...: I8A160124 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Reactive Cyanide		Work Order #: CF216101		MB Lot-Sample #:	I8A220000-182	
	ND	200	mg/kg	SW846 7.3.3	01/21-01/22/98	802218
		Dilution Factor: 1				
		Analysis Time..: 11:16				
Reactive Sulfide		Work Order #: CF22G101		MB Lot-Sample #:	I8A220000-189	
	ND	200	mg/kg	SW846 7.3.4	01/21-01/22/98	802218
		Dilution Factor: 1				
		Analysis Time..: 14:00				
Total Recoverable Petroleum Hydrocarbons		Work Order #: CF3EH101		MB Lot-Sample #:	I8A260000-164	
	ND	10	mg/kg	MCAWW 418.1	01/26-01/27/98	802616
		Dilution Factor: 1				
		Analysis Time..: 15:00				

NOTE(S):

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

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: 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

Quanterra Environmental Services

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

Quanterra Environmental Services

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

Quanterra
Environmental Services

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

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
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

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

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

TCLP Metals

Client Lot #...: I8A160124 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT 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.

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: I8A160124 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
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.

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: I8A160124 Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint			Work Order #:	CF3CV101	LCS Lot-Sample#:	I8A260000-151	
	81	80	deg F	98	SW846 1010	01/23-01/26/98	8026151
		Dilution Factor: 1					
		Analysis Time..: 14:00					
Reactive Cyanide			Work Order #:	CF216102	LCS Lot-Sample#:	I8A220000-182	
	40	0.19 N	mg/kg	0.46	SW846 7.3.3	01/21-01/22/98	8022182
		Dilution Factor: 1					
		Analysis Time..: 11:16					
Total Recoverable Petroleum Hydrocarbons			Work Order #:	CF3EH102	LCS Lot-Sample#:	I8A260000-164	
	250	240	mg/kg	96	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.

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: I8A160124 Matrix.....: SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Flashpoint		Work Order #: CF3CV101		LCS Lot-Sample#: I8A260000-151	
	98	(95 - 105)	SW846 1010	01/23-01/26/98	8026151
		Dilution Factor: 1			
		Analysis Time..: 14:00			
Reactive Cyanide		Work Order #: CF216102		LCS Lot-Sample#: I8A220000-182	
	0.46 N	(1.0- 64)	SW846 7.3.3	01/21-01/22/98	8022182
		Dilution Factor: 1			
		Analysis Time..: 11:16			
Total Recoverable Petroleum Hydrocarbons		Work Order #: CF3EH102		LCS Lot-Sample#: I8A260000-164	
	96	(70 - 130)	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.

Quanterra
Environmental Services

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	SAMPLE AMOUNT	SPIKE AMT	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	CEX9V1
	ND	1.0	0.96	mg/L	95	1.8	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Arsenic									
	ND	5.0	5.1	mg/L	102		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	5.0	5.0	mg/L	100	2.4	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Barium									
	ND	50.0	49.3	mg/L	97		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	50.0	48.7	mg/L	96	1.1	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Cadmium									
	ND	1.0	0.99	mg/L	97		SW846 6010A	01/23-01/26/98	CEX9V1
	ND	1.0	0.98	mg/L	97	0.80	SW846 6010A	01/23-01/26/98	CEX9V1
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Chromium									
	ND	5.0	4.9	mg/L	98		SW846 6010A	01/23-01/26/98	CEX9V10
	ND	5.0	4.9	mg/L	98	0.78	SW846 6010A	01/23-01/26/98	CEX9V10
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Lead									
	ND	5.0	4.9	mg/L	98		SW846 6010A	01/23-01/26/98	CEX9V11
	ND	5.0	4.9	mg/L	99	0.95	SW846 6010A	01/23-01/26/98	CEX9V11
			Dilution Factor: 2						
			Analysis Time..: 12:37						
Selenium									
	ND	1.0	0.96	mg/L	96		SW846 6010A	01/23-01/26/98	CEX9V11
	ND	1.0	0.93	mg/L	93	2.9	SW846 6010A	01/23-01/26/98	CEX9V11
			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)

Quanterra Environmental Services

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	PERCNT 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.

Quanterra Environmental Services

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	RPD LIMITS	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.

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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

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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

Quanterra Environmental Services

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 AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT 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

Chain of Custody Record

Quanterra

CHAIN OF CUSTODY NUMBER

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

QUA-4149 (1097)

Client: B.J.SERVICES	Project Manager: DAVID BURKETT	Date: 01/27/1998	Page 1 of 1
Address: 2401 SIVLEY	Telephone Number (Area Code)/Fax Number: (505) 746-9247 / (281) 363-7528	Lab Location: QUANTERRA - AUSTIN	
City: ARTESIA; State: NM; Zip Code: 88210	Site Contact: MIKE WIGGINS		
Project Number/Name: ARTESIA,NM	Carrier/Waybill Number: AB 319186537.5		
Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : ARTESIA,NM		QUOTE: 22015	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers: Volume	Containers: Type	Containers: No.	Preservative	Condition on Receipt/Comments	Analysis: TCLP Metals	Analysis: Corrosivity
SHOP DRAIN SLUDGE	2-8-98	1PM	SOLID	1000ML	CLEAR GL	5	NONE	GOOD 5.8°C JM 2-10-98	X	X

Special Instructions: INCLUDE COC, LABELED BOTTLES, BLUE ICE, RETURN SHIPPING, CUSTODY SEALS
1 SAMPLE - WASH RACK SLUDGE

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

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

Turn Around Time Required: ☐ Normal ☐ Rush ☒ Other ____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By	1/27/98	1800	1. Received By		
2. Relinquished By	2-8-98	3PM	2. Received By	2-10-98	0930
3. Relinquished By			3. Received By		

Comments:

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

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

RECEIVED
JAN 28 2000
Environmental Bureau
Oil Conservation Division

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Off

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BAKER OIL TOOLS
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site HOBBS YARD
2. Management Facility Destination CONTROLLED RECOVERY, INC.	6. Transporter CRI
3. Address of Facility Operator P. O. BOX 388, HOBBS	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) P. O. BOX 1828, HOBBS	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:

01-2004

SUMP WATER GENERATED BY THE CLEANING OF OILFIELD TOOLS. I AM ENCLOSING ANALYTICAL, KNOWLEDGE OF PROCESS LETTER, CERTIFICATE OF WASTE STATUS AND CHAIN OF CUSTODY.

Extension Approved New analytical will Need to be run by 2-5-01
The 1998 Results are good until 2-5-01 MJK 1-28-00

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

SIGNATURE: Kath Harper TITLE: BOOKKEEPER DATE: 1-24-00
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: 01-25-00

APPROVED BY: Martyne J Kieling TITLE: Environmental Geologist DATE: 01-28-00

Baker Oil Tools
P. O. Box 1828
Hobbs, NM 88241

December 22, 1999

NMOCD
2040 South Pacheco Street
Santa Fe, NM 87505

ATTN: Martyne J. Kieling

Dear Ms. Kieling:

Baker Oil Tools has been disposing of liquids from our total recycle system for parts washing at CRI. The last laboratory analysis was February 13, 1998. The process is totally self-contained, does not generate large volumes of waste material and has not changed since installed. The tools cleaned are the same; there have been no changes in the recycling of our wash water.

We are requesting you extend approval of the laboratory analysis for one year, so we may contain our expense involved with our commitment to be good stewards of the environment and public health.

Sincerely,

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

COMPANY / GENERATOR Baker Oil Tools

ADDRESS P. O. Box 1828, Hobbs, NM 88240

GENERATING SITE 507 W. County Road

COUNTY Lea STATE NM

TYPE OF WASTE Sump Water

ESTIMATED VOLUME 100 barrels

GENERATING PROCESS Cleaning tools

REMARKS

NMOCD FACILITY Controlled Recovery, Inc.

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 2613.

AGENT _____
SIGNATURE

NAME RAY Dockery
PRINTED

ADDRESS P. O Box 1828

Hobbs, NM 88240

DATE 12-27-99

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BAKER OIL TOOLS
ATTN: BILL RUSSELL
507 W. COUNTY ROAD
HOBBS, NM 88240
FAX TO: 505-393-4213

Receiving Date: 02/05/98
Reporting Date: 02/13/98
Project Number: NOT GIVEN
Project Name: WASH BAY
Project Location: HOBBS, NM

Sampling Date: 02/05/98
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: GP/AH

TCLP METALS

LAB NUMBER SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
ANALYSIS DATE:	02/12/98	02/06/98	02/11/98	02/12/98	02/12/98	02/12/98	02/10/98	02/06/98
EPA LIMITS:	5	5	100	1	5	5	0.2	1
H3444-1 WASHBAY	<1	<1	<5	<0.1	<1	<1	<0.02	<0.01
Quality Control	0.095	2.358	4.945	2.025	5.026	5.006	0.0087	0.0485
True Value QC	0.100	2.500	5.000	2.000	5.000	5.000	0.0100	0.0500
% Recovery	95	94	99	101	101	100	87	97
Relative Standard Deviation	7.5	0.5	14.6	0.9	1.9	4.7	8.9	10.1
METHODS: EPA 1311, 600/4-91/0	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Chemist

Date 2/13/98

H3444M.XLS

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BAKER OIL TOOLS
ATTN: BILL RUSSELL
507 W. COUNTY ROAD
HOBBS, NM 88240
FAX TO: 505-393-4213

Receiving Date: 02/05/98
Reporting Date: 02/07/98
Project Number: NOT GIVEN
Project Name: WASH BAY
Project Location: HOBBS, NM
Lab Number: H3444-1
Sample ID: WASH BAY

Analysis Date: 02/06/98
Sampling Date: 02/05/98
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP SEMIVOLATILES (ppm)	EPA LIMIT	Sample Result H3444-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.008	<0.002	0.028	28	0.100
1,4-Dichlorobenzene	7.50	<0.008	<0.002	0.052	52	0.100
o-Cresol	200	0.011	<0.002	0.055	55	0.100
m, p-Cresol	200	0.008	<0.002	0.115	58	0.200
Hexachloroethane	3.00	<0.008	<0.002	0.050	50	0.100
Nitrobenzene	2.00	<0.008	<0.002	0.079	79	0.100
Hexachloro-1,3-butadiene	0.500	<0.008	<0.002	0.063	63	0.100
2,4,6-Trichlorophenol	2.00	<0.008	<0.002	0.067	67	0.100
2,4,5-Trichlorophenol	400	<0.008	<0.002	0.072	72	0.100
2,4-Dinitrotoluene	0.130	<0.008	<0.002	0.106	106	0.100
Hexachlorobenzene	0.130	<0.008	<0.002	0.088	88	0.100
Pentachlorophenol	100	<0.008	<0.002	0.091	91	0.100

	% RECOVERY
Fluorophenol	29
Phenol-d5	29
Nitrobenzene-d5	71
2-Fluorobiphenyl	72
2,4,6-Tribromophenol	76
Terphenyl-d14	97

METHODS: EPA SW 846-8270, 1311, 3510

Burgess J. A. Cooke, Ph. D.

2/7/98
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BAKER OIL TOOLS
ATTN: BILL RUSSELL
507 W. COUNTY ROAD
HOBBS, NM 88240
FAX TO: 505-393-4213

Receiving Date: 02/05/98
Reporting Date: 02/18/98
Project Number: NOT GIVEN
Project Name: WASH BAY
Project Location: HOBBS, NM

Sampling Date: 02/05/98
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	REACTIVITY Sulfide (ppm)	REACTIVITY Cyanide (ppm)	CORROSIVITY (pH)	IGNITABILITY (°F)
ANALYSIS DATE:		02/13/98	02/13/98	02/17/98	02/18/98
H3444-1	WASHBAY	<50	<50	7.26	>140
Quality Control		NR	0.105	7.01	NR
True Value QC		NR	0.100	7.00	NR
% Accuracy		NR	105	100	NR
Relative Percent Difference		NR	0	0.2	NR

METHOD: EPA SW 846-7.3, 7.2, 1010, 1311, *40 CFR 261*

Chemist

2/18/98
Date

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BAKER OIL TOOLS
ATTN: BILL RUSSELL
507 W. COUNTY ROAD
HOBBS, NM 88240
FAX TO: 505-393-4213

Receiving Date: 02/05/98
Reporting Date: 02/05/98
Project Number: NOT GIVEN
Project Name: WASH BAY
Project Location: HOBBS, NM
Lab Number: H3444-1
Sample ID: WASH BAY

Analysis Date: 02/05/98
Sampling Date: 02/05/98
Sample Type: LIQUID
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H3444-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.103	103	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.087	87	0.100
Methyl Ethyl Ketone	200	0.055	<0.050	0.114	114	0.100
Chloroform	6.0	<0.005	<0.005	0.106	106	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.097	97	0.100
Benzene	0.5	0.009	<0.005	0.107	107	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.100	100	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.112	112	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.095	95	0.100
Chlorobenzene	100	<0.005	<0.005	0.116	116	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.112	112	0.100

	% RECOVERY
Dibromofluoromethane	111
Toluene-d8	110
Bromofluorobenzene	97

METHODS: EPA SW 846-8260, 1311

Burgess J. A. Cooke, Ph. D.

2/5/98
Date

CARDINAL 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____ of____

Company Name: BAKER OIL TOOLS	
Project Manager: BILL RUSSELL	BILL TO PO #:
Address: 507 W County Road	Company: BAKER
City: HOBBS State: NM Zip: 88240	Attn:
Phone #: 505-397-3671	Address: P.O. Box 1828
Fax #: 505-393-4213	City: HOBBS
Project #: WASH BAY Project Owner:	State: NM Zip:
Project Name:	Phone #:
Project Location: HOBBS	Fax #:

ANALYSIS REQUEST: TCLP COMPLETE

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING DATE	TIME
H 3444-1	WASH BAY	G	4		✓						✓		02/05/98	11:30

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 the client for the 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 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.

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 all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By: Bill Russell	Date:	Received By: (Lab Staff)	REMARKS: COPY TO CRI
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No	CHECKED BY: (Initials)

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