NM2 - /O

C-138 YEAR(S):

2004-1998

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505



Form C-138 Revised June 10, 2003

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T ŠQLID WASTĒ
RCRA Exempt: □ Non-Exempt: □	4. Generator Giant Refining Company
Verbal Approval Received: Yes No No	5. Originating Site Bloomfield Refinery
2. Management Facility Destination Giant Mid-Continent, Inc. Land Farm	6. Transporter Envirotech
3. Address of Facility Operator 111 County Road 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 50 County Road 4990 Bloomfield, NM 87413	
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B) All requests for approval to accept non-exempt wastes must be accompanied by no material is not-hazardous and the Generator's certification of origin. No waste class approved.	ecessary chemical analysis to PROVE the
approved All transporters must certify the wastes delivered are only those consigned for transp	port.

BRIEF DESCRIPTION OF MATERIAL:

Remaining process wastewater evaporation pond sludge. Analytical information is attached.

This material was profiled on 7/25/03. NMOCD accepted this material as a solid waste for landfarming on 7/30/03. Due to unexpected delays, Giant was unable to complete the transfer of this waste. Giant has not added to or changed the existing waste.

Estimated Volume 80 cy Known Volum	ne (to be entered by the operator at the end of the haul)c	су
SIGNATURE Waste Management Facility Authorized Agent	TITLE: Safety & Environmental Manager DATE: 5/11/04	
TYPE OR PRINT NAME: Gary Winn	TELEPHONE NO. <u>(505) 632-4077</u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
E-MAIL ADDRESS gwinn@giant.com	· · · · · · · · · · · · · · · · · · ·	7150
(This space for State Use)		eng II.
APPROVED BY: Derry terry	TITLE: Enviro/Engr DATE: 5/12/	04
APPROVED BY: Marty GSI.	TITLE: Environmente Cologist DATE: 5/17/04	

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Refining Company	Giant Mid-Continent, Inc. Land Farm 292525
50 County Road 4990	San Juan County, New Mexico
Bloomfield, NM 87413	
3. Originating Site (Name):	Location of the Waste (Street address &/or ULSTR):
Giant Refining Company	50 County Road 4990
50 County Road 4990	Bloomfield, NM 87413
Bloomfield, NM 87413	
Attach list of originating sites as appropriate.	
4. Source and Description of Waste:	
Remaining process wastewater evaporation p	ond sludge. This material was profiled on
7/25/03. NMOCD accepted this material as	<u> </u>
Due to unexpected delays, Giant was unable	
has not added to or changed the existing was	
into not added to or entanged the entering was	
I Randy Schmaltz a representative for Gia	nt Refining Company do hereby certify that
	d Recovery Act (RCRA) and Environmental
	determination, the above described waste is:
(Check appropriate classification)	actorismission, are above abborrood waste is.
DESCRIPTION OF STREET	NI TIXER COT : 10 -11
	ON-EXEMPT oilfield waste which is non-
	ous by characteristic analysis or by product
identifi	cation.
and that mathing has been added to the a	
	xempt or non-exempt non-hazardous waste
defined above.	
To a NON EVENDT mosts and the following	in a decimal and a stacked of the st
_	ing documentation is attached (check appropriate
items):	
MSDS Information	Other (description):
RCRA Hazardous Waste Analysi	` • ·
Chain of Custody	.5
Chain of Custody	
	NC (). Th
Nama (Original Signatura):	S N M
Name (Original Signature):	V- comor
Title: Environmental Manager	
Date: $5/11/04$	-

HULLING HILL HOUR HOUR TRACE ANALYSIS, INCAMINATION

6701 Aberdeen Avenue, Suite 9 CLIENT GIANT REFINING & & Ripley Avenue, Suite A

111 COUNTY ROAD 4990 BLOOMFIELD, NM 87413

Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79922 888•588•3443

915.585.3443 FAX 915SSAMPSTE NO. FAX 806 • 794 • 1298

22104219 INVOICE NO.:

REPORT DATE:

REVIEWED BY

PAGE

E-Mail: lab@traceanalysis.com

D. Overhoff AUTHORIZED BY

06-02-99 SAMPLE DATE .. CLIENT P.O.

SUBMITTAL DATE:

EXTRACTION DATE:

SUBMITTED BY ...: Lynn Shelton SAMPLE SOURCE ...: S. POND SLUDGE

S. POND SLUDGE

CLIENT SAMPLE ID :

SAMPLED BY: SAMPLE TYPE

sludge L.S.

Matrix Spike Detection limit raised for Sulfate due to interference. Fluoride Matrix Spike level below reporting limit. data not valid.

Modified Methods Based on Water Extracts Inorganic Non-Metals-Solids

	Analyst A. Myers A. Myers A. Myers A. Myers A. Myers A. Myers
	lysis ate 04-99 EPA-300.0 04-99 EPA-300.0 04-99 EPA-300.0 04-99 EPA-300.0 07-99 SW-9045C
	Analysis Date 06-04-99 06-04-99 06-04-99 06-07-99 06-07-99
TABLE	Detection Limit 10. 110 50. 20.
DATA	Unit mg/Kg mg/Kg mg/Kg mg/Kg S.U.
	Result 800 520 1100 <20. 8.6 20.9
	Parameter Nitrate Nitrogen Sulfate Chloride Fluoride pH Temp, C: at time of pH

(1) Copy to Client

E-Mail: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9

Lubbock, Texas 79424 El Paso, Texas 79922

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

4725 Ripley Avenue, Suite A

ANALYTICAL RESULTS FOR GIANT REFINING CO. BLOOMFIELD

Attention: Lynn Shelton 111 County Road 4990 Bloomfield, NM 87413

June 14, 1999

Receiving Date: 06/03/99 Sample Type: Sludge Project No: N/A Project Location: N/A

Sampling Date: 06/02/99 Sample Condition: I & C Sample Received by: VW Project Name: N/A

TA#	FIELD CODE	CYANIDE (mg/L)	PHENOLICS (mg/L)	
T125841/992603	S. Pond Sludge	<0.025	0.549	
ICV	. •	0.126	0.835	
CCV		0.121	0.850	
REPORTING LIMIT		0.025	0.002	
RPD	PALOC	1*	8	
% Extraction Accuracy	$(X_{\mathbf{L}})$	103*	116	
% Instrument Accuracy		105	104	

PREP DATE 06/10/99 06/09/99 06/09/99 06/10/99 ANALYSIS DATE

METHODS: EPA SM 4500 CN-C,E,

CHEMIST: MD

CYANIDE SPIKE: 3.0 mg/L CYANIDE PHENOLICS SPIKE: 0.8 mg/L PHENOLICS CYANIDE CV: 0.120 mg/L CYANIDE PHENOLICS CV: 0.8 mg/L PHENOLICS

Director, Dr. Blair Leftwich

E-Mail: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A Lubbock, Texas 79424 El Paso, Texas 79922

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ANALYTICAL RESULTS FOR GIANT REFINING CO. BLOOMFIELD

Attention: Lynn Shelton 111 County Road 4990 Bloomfield, NM 87413

June 14, 1999

Receiving Date: 06/03/99 Sample Type: Sludge Project No: N/A Project Location: N/A Sampling Date: 06/02/99
Sample Condition: I & C
Sample Received by: VW
Project Name: N/A

TA# FIELD CODE (mg/kg)

T125841/992603	S. Pond Sludge	4.8
ICV CCV	16	1.04 1.04
REPORTING LIMIT		2.0
RPD % Extraction Accuracy % Instrument Accuracy		1 103 104
EXTRACTION DATE		06/09/99

ANALYSIS DATE	

METHODS: EPA 846-1311, 6010B

CHEMIST: RR

TOTAL Cr SPIKE: 200 mg/kg TOTAL Cr CV: 1.0 mg/L

183

Director, Dr. Blair Leftwich

6-14-99

DATE

06/10/99

Page 1 of

ANALYSIS REQUEST		ST No.)				1115) 5/40	* <i>S</i> フ′	1808 sebi 1808 sebi 1808, pH 180, cc	PCB's Pestici BOD, - A - T	\(\)							2157		
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	LAB Order ID #	ANALYSIS REQUEST (Circle or Specify Method No.)	Δ'000	10B/S0	бн	9 Ø / €S Qd	4 400 1	As Ba	Metals Ag A Metals Ag Volatiles Semi Vols Pesticides	BTEX 8 PH 82 TOLP 1 TOLP 7 TOLP 7 TOLP 7	XXXXX							LAB USE REMARKS:	超	Temp 20 C°. Log-in Review
4725 Ripley Dr., Ste A Fl Paso, Texas 79922-1028	Tol (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443	4	4				,,	SAMPLING		∃TAG	202 1/2/						٠.			
4725 Ri	Tol (91) Fax (9)	632 4/16	6324024				Signature:	PRESERVATIVE		NONE ICE HNO3	×							Date: Time:	Date: Time:	ate: Time: 799
	sis, Inc	Phone #:	1743 (505)		BLOOM 616.12, NOW 87413	Project Name:	SampledSign	MATRIX		WATE SOIL AIA SLUD	×							1		Received at Laboratory by: D
,	naly	Phone - 8LgomField (SLOOMFILLO PAIS		momeral				IBNIATV LOMA\91		7								The coived by:	Received at Labo
	TraceAnalysis, In	1 1	COUNTY ROAD 490 C	LYNN SHELTON					FIELD CODE		JB 56006E							Date: Time:	Date: Time:	Date: Time:
6701 Aberdeen Avenue, Ste. 9	Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296	Company Name: 6 14NT R	Confect Berger	STSOIL:	Invoice to: (If different from above) $oldsymbol{eta}$	Project #:	Project Location:		LAB#	(LAB USE)	992603 5. POND	, ,				`			Relinquished by:	Relinquished by:

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A Lubbock, Texas 79424 El Paso, Texas 79922

800 • 378 • 1296 888 • 588 • 3443 806 • 794 • 1296 915 • 585 • 3443 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

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

GIANT REFINING CO.-BLOOMFIELD

Attention: Lynn Shelton 111 County Road Bloomfield, NM 87413

PAGE 1 of 2

July 7, 1999

Receiving Date: 6/3/99 Sample Type: Sludge Project No: N/A Project Location: N/A Prep Date: 7/1/99 Analysis Date: 7/1/99 Sampling Date: 6/2/99

Sample Condition: Intact & Cool

Sample Received by: AD Project Name: N/A

FIELD CODE: S. POND SLUDGE

TA #: T125841/992603	Reporting		~~	000	- •	1.4
·	Limit	Concentration	QC	RPD	EΑ	IA
8260 Compounds	(ug/kg)	(ug/kg)	·			
Dichlorodifluoromethane	25	ND				
Chloromethane	25	ND				
Vinyl chloride	50	ND	107		ı	107
Bromomethane	125	ND			;	
Chloroethane	25	ND				
Trichlorofluoromethane	. 25	4, ND				
1,1-Dichloroethene	25	ND	104	6	90	104
Methylene chloride	125	ND .				
trans-1,2-Dichloroethene	25	ND				
1,1-Dichloroethane	25	ND				
cis-1,2-Dichloroethene	25	ND				
Chloroform	25	.ND	102			102
2,2-Dichloropropane	25 .	ND				
Bromochloromethane	25	ND.				
1,2-Dichloroethane	25	ND			•	
1,1,1-Trichloroethane	25	ND				
Carbon Tetrachloride	25	ND				
1,1-Dichloropropene	25	ND				
Benzene	25	54		1	112	
1,2-Dichloropropane	25	ND	100			100
Trichloroethene	25	ND		4	114	
Dibromomethane	25	ND				
Bromodichloromethane	25	ND				
cis-1,3-Dichloropropene	25	ND				
trans-1,3-Dichloropropene	25	ND				
Toluene	25	400	101	3	112	101
1,1,2-Trichloroethane	25	ND	•	•		
1,3-Dichloropropane	25	ND				
MTBE	25	ND		•		

GIANT REFINING CO.-BLOOMFIELD

Attention: Lynn Shelton

FIELD CODE: S. POND SLUDGE

TA #: T125841/992603	Reporting Limit	Concentration	QC	RPD	EA	IA
8260 Compounds	(ug/kg)	(ug/kg)				
Dibromochloromethane	25	ND.	 			
1,2-Dibromoethane	25	ND				
Tetrachloroethene	25	ND		•		
Chlorobenzene "	25	ND	100	1	109	100
1,1,1,2-Tertachloroethane	25	ND				
Ethylbenzene	25	110	102			102
m & p-Xylene	25	630				
Bromoform	25	ND				
Styrene	- 25	ND			•	
o-Xylene	25	260				
1,1,2,2-Tetrachloroethane	25	ND	,			
1,2,3-Trichloropropane	25	ND				
Isopropylbenzene	25	ND				
Bromobenzene	25	ND				
2-Chlorotoluene	25	ND				
n-Propylbenzene	25	ND				
4-Chlorotoluene	25	ND				
1,3,5-Trimethylbenzene	25	130				
tert-Butylbenzene	25	ND			į	
1,2,4-Trimethylbenzene	25	380				
1,4-Dichlorobenzene	50	, ND				
sec-Butylbenzene	25	ND				
1,3-Dichlorobenzene	50	ND				
4-Isopropyltoluene	25	ND				
1,2-Dichlorobenzene	50	ND				
n-Butylbenzene	25	ND				
1,2-Dibromo-3-chloropropane	125	ND				
1,2,3-Trichlorobenzene	125	ND				
Naphthalene	25	180				
1,2,4-Trichlorobenzene	125	ND	*	• *	:	
Hexachlorobutadiene	125	ND			,	
· · · · · · · · · · · · · · · · · · ·						

% Recovery

Dibromofluoromethane	103
Toluene-d8	100
4-Bromofluorobenzene	100

ND = Not Detected

Methods: EPA SW 846-5035, 8260B

· CHEMIST: JG

7-7-99

Director, Dr. Blair Leftwich

Date

			RACEANALYS	MYSIS,	INCA	UNILLA LINITALINATI	YTICALI REPO
CLIENT	6701 Aberdeen Avenue, Suit CLIENT GIANT REFINING & Hipley Avenue, Suite A 111 COUNTY RD 4990 BLOOMFIELD, NM 87413	6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298 426 Ripley Avenue, Suite A El Paso, Texas 78922 888•588•3443 915•585•3443 FAX 915 经的 中性在4990 E-Mail: lab@traceanalysis.com	Lubbock, Texas 79424 800 • 378 • 1296 806 • 794 • 1296 El Paso, Texas 79922 888 • 588 • 3443 915 • 585 • 3443 E-Mail: Jab@traceanalysis.com	Texas 79424 800 • 378 • 1296 Texas 79922 888 • 588 • 3443 E-Mail: lab@traceanalysis.com	806 • 794 • 1296 915 • 585 • 3443	NO. : E NO. : DATE:	992603 22104219 06-,29-99

REPORT DATE: 06-29-99 REVIEWED BY: PAGE :

1 OF

L. Shelton

AUTHORIZED BY

06-02-99

SAMPLE DATE . CLIENT P.O.

: S. POND SLUDGE SAMPLE SOURCE ...: S. POND SLUDGE SUBMITTED BY: Lynn Shelton sludge SAMPLED BY L.S. SAMPLE TYPE: CLIENT SAMPLE ID

06-03-99 SUBMITTAL DATE: EXTRACTION DATE:

REMARKS -

criteria range possibly due non-homogeneity of the sample for the following parameters: Lead, Cadmium, Selenium, Silver, and Copper. Matrix Spike Duplicate was out of acceptance criteria for Zinc and

Manganese.

Matrix spike and matrix spike duplicate were out of acceptance

	7 Q	ATA	TABLE		
Total Silver Total Arsenic Total Barium Total Cadmium Total Chromium Total Chromium Total Chromium Total Selenium	Result <1.3 <5.00 410 <5.00 <4.5 6.5 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00 <5.00	Unit mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	Detection Limit 1.30 5.00 5.00 5.00 5.00 5.00	Analysis Date 06-28-99 3111B 06-11-99 6010B 06-11-99 6010B 06-08-99 3111B 06-11-99 6010B	Analyst N. Munir N. Munir N. Munir N. Munir N. Munir N. Munir

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CLIENT GIANT REFINING CB5 Ripley Avenue, Suite 9
111 COUNTY RD 4990
BLOOMFIELD, NM 87413

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

806 • 794 • 1296 915 • 585 • 3443

INVOICE NO.: 22104219 REPORT DATE: 06-29-99 FAX 806-794-1298 FAX 915-ANP/BY NO.

992603

REVIEWED BY:

: 2 OF PAGE

	Ω	DATA	TABLE	(Continue)	
			Detection	Analysis	
Parameter	Result	Unit	Limit	Date Test Method	Analyst
Total Mercury	6.8	mg/Kg	0.50	06-10-99 SW-7470	N. Munir
Total Aluminum	790	mg/Kg	25.0	06-21-99 6010B	N. Munir
Total Boron	<5.00	mg-Kg	5.00	06-18-99 6010B	N. Munir
Total Cobalt	<5.00	mg/Kg	5.00	06-18-99 6010B	N. Munir
Total Copper	<5.00	mg/Kg	5.00	06-18-99 6010B	N. Munir
Iron	0089	mg/Kg	2.5	06-21-99 6010B	N. Munir
Total Manganese	48.	mg/Kg	5.00	06-17-99 60108	N. Munir
	<5.00	mg/Kg	5.00	06-18-99 6010B	N. Munir
Total Nickel	<5.00	mg/Kg	5.00	06-18-99 6010B	N. Munir
Total Zinc	100	mg/Kg	5.00	06-17-99 60108	N. Munir

.

6701 Aberdeen Avenue, Suite 9 CLIENT GAINT REFINING & 65. Ripley Avenue, Suite A

111 COUNTY ROAD 4990 BLOOMFIELD, NM 87413

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

806-794-1296 FAX 806-794-1298 915-585-3443 FAX 915**SAMP**94**£ NO.** :

22104219 992603 06-16-99 INVOICE NO.: REPORT DATE:

REVIEWED BY:

PAGE

AUTHORIZED BY

S. POND SLUDGE

sludge

SAMPLE TYPE: CLIENT SAMPLE ID

SAMPLED BY

06-02-99 SAMPLE DATE CLIENT P.O.

SUBMITTAL DATE :

EXTRACTION DATE:

SAMPLE SOURCE ...: S. POND SLUDGE

SUBMITTED BY: Lynn Shelton

TCLP Metals

) t
	Analyst N. Munir
	Test Method SW 7060A SW 3010A/7080A SW 3010A/7130 SW 3010A/7190 SW 740A SW 7740 SW 7760A
ę.	Analysis Date 06-15-99 06-15-99 06-08-99 06-10-99 06-10-99 06-15-99
TABLE	Detection Limit 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.5
DATA	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L
Ω	Result <0.50 <0.50 <0.50 <0.50 <0.50 <0.010 <0.50 <0.50 <0.50
	Parameter Arsenic (TCLP) Barium (TCLP) Cadmium (TCLP) Chromium (TCLP) Lead (TCLP) Mercury (TCLP) Selenium (TCLP) Silver (TCLP)

MALYTICA, REBULTISI REPORTED HEREIN APRIY ONLY TO THE BAMPLEIS. TESTED. PLATHERMORE, THIS REPORT CAN ONLY BE COPIED IN 178 ENTRETY.

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A Lubbock, Texas 79424 El Paso, Texas 79922 800 • 378 • 1296 888 • 588 • 3443 806 • 794 • 1296 915 • 585 • 3443 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR GIANT REFINING CO. BLOOMFIELD

Attention: Lynn Shelton 111 County Road 4990 Bloomfield, NM 87413

June 14, 1999

Receiving Date: 06/03/99 Sample Type: Sludge Project No: N/A Project Location: N/A Sampling Date: 06/02/99
Sample Condition: 1 & C
Sample Received by: VW
Project Name: N/A

TCLP Cr
TA# FIELD CODE (mg/L)

		, ,
EPA LIMIT =		5.0
T125841/992603	S. Pond Sludge	<0.50
get in the second of the secon		
	· t _s	
ICV		1.03
CCV		0.99
		•
REPORTING LIMIT		0.50
RPD	100	2
% Extraction Accuracy	100	99
% Instrument Accuracy	QA QC	101

EXTRACTION DATE
ANALYSIS DATE

06/04/99 06/07/99

METHODS: EPA 846-1311, 6010B

CHEMIST: RR

TCLP Cr SPIKE: 10 mg/L TCLP Cr CV: 1.0 mg/L

185

Director, Dr. Blair Leftwich

6-14-99

DATE



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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR GIANT REFINING CO. BLOOMFIELD

Attention: Lynn Shelton 111 County Road 4990 Bloomfield, NM 87413

June 16, 1999

Receiving Date: 06/03/99 Sample Type: Sludge

Project No: Project Location:

Extraction Date: 06/07/99
Analysis Date: 06/15/99
Sampling Date: 06/02/99
Sample Condition: I & C
Sample Received by: VW

Project Name:

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T126322/992603 S. Pond Sludge	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	112	6	116	112
1,1-Dichloroethene	0.70	0.05	ND	112	9	116 ·	112
Methyl Ethyl Ketone	200.0	0.5	" ND	85	12	86	85
Chloroform	6.00	0.05	ND	86	10	103	8 6
1,2-Dichloroethane	0.50	0.05	ND	81	12	93	81
Benzene	0.50	0.05	, ND	96	9	112	96
Carbon Tetrachloride	0.50	0.05	ND	104	6	119	104
Trichloroethene	0.50	0.05	ND	96	7	114	96
Tetrachloroethene	0.70	0.05	ND	99	8	124	99
Chlorobenzene	100.00	0.05	ND	98	8	108	98
1,4-Dichlorobenzene	7.50	0.05	ND	94	8	108	94

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

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: DG

Director, Dr. Blair Leftwich

06/16/99 Date 6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424

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FAX 806 • 794 • 1298 806 • 794 • 1296

CLIENT GIANT PREFINENG ACOMPANY Texas 79922 888 • 588 • 3443 915 • 585 • 3443 ANP 1 E 5 NO 4944: 111 COUNTY ROAD 4990

E-Mail: lab@traceanalysis.com

PAGE -

INVOICE NO.: 22104219 REPORT DATE: 06-22-99

REVIEWED BY:

: 1 OF

CLIENT SAMPLE ID : S. POND SLUDGE

BLOOMFIELD, NM 87413

SAMPLE TYPE: sludge

SAMPLED BY: L.S.

SUBMITTED BY: Lynn Shelton SAMPLE SOURCE ...: S. POND SLUDGE

ANALYST S. Ortiz

AUTHORIZED BY : L. Shelton

CLIENT P.O.

SAMPLE DATE ...: 06-02-99 SUBMITTAL DATE: 06-03-99 EXTRACTION DATE: 06-15-99

ANALYSIS DATE .: 06-16-99

REMARKS -

Pyridine is out of acceptance criteria in laboratory control sample. Results are acceptable in the laboratory control sample duplicate and the matrix spikes.

Hexachorobenzene Relative Percent Difference between Laboratory Control Samples is out of acceptance criteria.

Detection limits raised due to interference.

TCLP Semi - Volatiles by EPA 8270C

DATA	TABLE		
Parameter	Result	Unit	Detection Limit
Pyridine	<0.25	mg/L	0.25
1,4-Dichlorobenzene:	<0.25	mg/L	0.25
2-Methylphenol:	<0.25	mg/L	0.25
4-Methylphenol	<0.25	mg/L	0.25
Hexachloroethane	<0.25	mg/L	0.25
Nitrobenzene:	<0.25	mg/L	0.25
Hexachlorobutadiene:	<0.25	mg/L	0.25
2,4,6-Trichlorophenol:	<0.25	mg/L	0.25
2,4,5-Trichlorophenol:	<0.25	mg/L	0.25
2,4-Dinitrotoluene:	<0.25	mg/L	0.25
Hexachlorobenzene	<0.25	mg/L	0.25
Pentachlorophenol	<0.25	mg/L	0.25

(1) Copy to Client

6701 Aberdeen Avenue, Suite 9

Lubbock, Texas 79424

CLIENT GIANT REFINING COMPANY Texas 79922 888 • 588 • 3443

- COMPANY E-Mail: lab@traceanalysis.com

915 • 585 • 3443 SAMPLE NO. :

806 • 794 • 1296

INVOICE NO.: 22104219

REPORT DATE: 06-22-99

REVIEWED BY: PAGE

: 2 OF

111 COUNTY ROAD 4990 BLOOMFIELD, NM 87413

DATA TABLE (Cont.) Surrogate Information -Percent Recovery <u>Range</u> 11-114 2-Flourophenol 33.1 13-130 Phenol-D6 25.6 Nitrobenzene-d5 61.0 1-198 71.2 19-152 2-Flurobiphenyl 1-179 93.4 2,4,6-Tribromophenol 154.0 15-195 Terphenyl-d14

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424

111 COUNTY RD. 4990

BLOOMFIELD, NM 87413

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CLIENT GATNT PREFIN ING A CO. El Paso, Texas 79922 888 • 588 • 3443 915 • 585 • 3443 SAMPLE NO.

E-Mail: lab@traceanalysis.com

INVOICE NO.: 22104219

REPORT DATE: 06-22-99

REVIEWED BY:

: 1 OF

CLIENT SAMPLE ID : S. POND SLUDGE

SAMPLE TYPE: sludge

SAMPLED BY: L.S.

SUBMITTED BY: Lynn Shelton SAMPLE SOURCE ...: S. POND SLUDGE

ANALYST S. Ortiz

AUTHORIZED BY : L. Shelton

CLIENT P.O.

SAMPLE DATE ...: 06-02-99 SUBMITTAL DATE: 06-03-99

EXTRACTION DATE: 06-14-99

ANALYSIS DATE .: 06-15-99

REMARKS -

Detection limits raised due to sample dilution.

PAH - Soil by 8270C

DATA	TABLE		<u>(</u>
			Detection
Parameter	Result	<u>Unit</u>	Limit
Naphthalene	<6.0	mg/Kg	6.0
Acenaphthylene:	<6.0	mg/Kg	6.0
Acenaphthene	<6.0	mg/Kg	6.0
Fluorene	<6.0	mg/Kg	6.0
Anthracene	<6.0	mg/Kg	6.0
Phenanthrene:	<6.0	mg/Kg	6.0
Fluoranthene:	<6.0	mg/Kg	6.0
Pyrene:	<6.0	mg/Kg	6.0
Benz[a]anthracene:	<6.0	mg/Kg	6.0
Chrysene	<6.0	mg/Kg	6.0
Benzo[b&k]fluoranthene:	<6.0	mg/Kg	6.0
Benzo[a]pyrene:	<6.0	mg/Kg	6.0
<pre>Indeno[1,2,3-cd]pyrene</pre>	<6.0	mg/Kg	6.0
Dibenz[a,h]anthracene	<6.0	mg/Kg	6.0
Benzo[g,h,i]perylene:	<6.0	mg/Kg	6.0

(1) Copy to Client

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FAX 806 • 794 • 1298

CLIENT GATRIPREFINENCA CO. El Paso, Texas 79922 888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443 s AMP 1 = 585 61944 :

111 COUNTY RD. 4990 BLOOMFIELD, NM 87413 E-Mail: lab@traceanalysis.com

INVOICE NO.: 22104219 REPORT DATE: 06-22-99

REVIEWED BY:

PAGE

: 2 OF

DATA TABI	L E	(Cont.)
Surrogate Information -	Percent	
	Recovery	Range
Phenol-d5:	61.4	13-130
2-Fluorobiphenyl:	88.1	19-152
2,4,6 Tribromophenol	90.3	1-179
2-Fluorophenol:		11-114
Terphenyl-d14		15-195
Nitrobenzene-d5		1-198

martyne kieling

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-138 Revised March 17, 1999

Oil Conservation Division 1220 South St. Francis Dr. FEB 0 2 2004

Submit Original Plus 1 Copy to Appropriate District Office

Santa Fe, NM 87505

OIL CONSERVATION

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1 DCDA Francis D	4. Generator Giant Industries, Inc.
1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☒ No ☐ Frank Chavez	5. Originating Site Ciniza Pipe Line Company's West Line
2. Management Facility Destination Giant Mid-Continent, Inc.'s Land Farm	6. Transporter Giant Industries, Inc./Inland Corporation
3. Address of Facility Operator 111 County Road 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) SW Sec. 33 T23N R14W	
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste cla approved	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	port.
BRIEF DESCRIPTION OF MATERIAL:	
Petroleum-impacted soil from pipeline leak	AN 2000 CE STANDARD S
Estimated Volumecy Known Volume (to be entered by the op	erator at the end of the haul)cy
SIGNATURE Waste Management Facility Authorized Agent TITLE: Safety & Environment Facility Authorized Agent	
TYPE OR PRINT NAME: Gary Winn TELEPHONE NO.	(505) 632-4077 20 20 20 20 20 20
(This space for State Use)	
APPROVED BY: Denny tout TITLE: Furio)	Engr DATE: 1/30/04
APPROVED BY: Marty John TITLE: Environment	Cologish DATE: 02/02/04

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Industries, Inc.	Giant Mid-Continent, Inc. Land Farm
111 County Road 4990	San Juan County, New Mexico
Bloomfield, NM 87413	
3. Originating Site (Name):	Location of the Waste (Street address &/or ULSTR):
Ciniza Pipe Line Company's West Line	SW Sec. 33 T23N R14W
at R-24	
Attack list of originating sites as appropriate	
Attach list of originating sites as appropriate. 4. Source and Description of Waste:	<u> </u>
-	troleum-impacted soil
<u> </u>	
I, Barry Holman, a representative for Gi	ant Industries, Inc. do hereby certify that
	Recovery Act (RCRA) and Environmental
Protection Agency's July, 1988 regulatory of	• • •
(Check appropriate classification)	
EXEMPT oilfield waste	N-EXEMPT oilfield waste which is non-
	ous by characteristic analysis or by product
identific	· · · · · · · · · · · · · · · · · · ·
Identific	Cation.
and that nothing has been added to the ex	vernt or non evernt non hezerdoug weete
defined above.	xempt of non-exempt non-nazardous waste
defined above.	
For NON EVEMPT waste only the following	ng documentation is attached (declared)
For NON-EXEMPT waste only, the followi items):	ing documentation is attached (check appropriate
iterita).	
MSDS Information	Other (description):
RCRA Hazardous Waste Analysi	
Chain of Custody	Timowiedge of process letter
Chain of Cubicay	
Name (Original Signature):	Hala
Title: Operations Manager, Transportation	
Date: 1/24	

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman
Safety and Environmental Manager
Giant Transportation
111 CR 4990
Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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:

- The above representative analyses can be used in lieu of individual sampling of each spill event until further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District I 1625 N. French Dr., Hobbs, NM 88240 District III
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	I SOLID WASTE
RCRA Exempt: ☐ Non-Exempt: ☑ Verbal Approval Received: Yes ☑ No ☐ Frank Chavez	4. Generator Giant Refining Company 5. Originating Site Bloomfield Fuel Dispenser
2. Management Facility Destination Giant Mid-Continent, Inc.'s Land Farm	6. Transporter Giant Industries, Inc./Inland Corporation
3. Address of Facility Operator 111 County Road 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 111 County Road 4990 Bloomfield, NM 87413	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by no material is not-hazardous and the Generator's certification of origin. No waste cla approved	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	oort.
BRIEF DESCRIPTION OF MATERIAL:	
Gasolne-Petroloum-impacted soil	FEB 2004 RECEIVED OIL CONS. DIV. DIST. 3
Estimated Volumecy Known Volume (to be entered by the open	erator at the end of the haul)cy
SIGNATURE Waste Management Facility Authorized Agent TITLE: Safety & Environment Facility Authorized Agent	
TYPE OR PRINT NAME: Gary Winn TELEPHONE NO	(505) 632-4077
APPROVED BY: Marty 914. TITLE: Environant	Engl DATE: 2/04/04

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:				
Giant Industries, Inc.	Giant Mid-Continent, Inc. Land Farm				
111 County Road 4990	San Juan County, New Mexico				
Bloomfield, NM 87413					
3. Originating Site (Name):	Location of the Waste (Street address &/or ULSTR):				
Giant Industries, Inc.	N/A				
111 County Road 4990					
Bloomfield, NM 87413					
Attach list of originating sites as appropriate.					
	Gasoline				
Source: Portable Cargo Tank Was	Gasoline ste: Petroleum -impacted soil				
S	•				
according to the Resource Conservation and	ant Industries, Inc. do hereby certify that d Recovery Act (RCRA) and Environmental determination, the above described waste is:				
(Check appropriate classification)	acternimation, the above described waste is.				
	,				
EXEMPT oilfield waste NON-EXEMPT oilfield waste which is non-					
hazardous by characteristic analysis or by product					
identifi	•				
identifi	Cation.				
and that nothing has been added to the edefined above.	xempt or non-exempt non-hazardous waste				
defined above.					
For NON-EXEMPT waste only, the follow items):	ing documentation is attached (check appropriate				
MSDS Information	Other (description):				
RCRA Hazardous Waste Analysis Analytical profile attached TPH,					
BTEX					
Chain of Custody					
Name (Original Signature)	4				
Name (Original Signature):	1 1 am				
Title: Operations Manager, Transportation	/				
Date: $\frac{2/3/04}{}$					



PLEASE PRINT IN INK OR TYPE
Profile Number: WM

Servi	ice Agreement on File?	YES NO			Profile Number: WMI	PC	J 06357
	lazardous 🔀 Non-Haz		1/=26-8	4	Renewal Date:		1 1
	Vaste Generator Inform		A CONTRACTOR OF THE PROPERTY O	***			
					-		
	Generator Name:	Giant			Code:		
	Facility Street Address:	111 cr. 4990		4. Pho			
	Facility City: Bloom				e/Province: NM		
		87413			erator USEPA/Federal ID#	: <u></u>	
9.	County: San Juan				te/Province ID #:		
11.	Customer Name:	Giant)320-3415	
	Customer Contact:	Gary Winn		14. Cus	stomer Fax: 505 632-4	073	
		Same				□Sa	ame as above
B. V	Vaste Stream Information	nc					
1.	Description						
	 a. Name of Waste: 	Petroleum (Gasoline)					
	b. Process Generating	Waste: Tanker S	pill		· · · · · · · · · · · · · · · · · · ·		
							
-							
1	c. Color	d. Strong odor	e. Physical state		f. Layers		quid range
L		(describe):	⊠Solid [Liquid	Single Layer	0 to 0 %	
1	Brown	Fuel	☐ Gas	Sludge	☐ Multi-layer		
Γ			Other			h. pH: Ra	ange
Ţ						<u>5 to 9</u>	
_		C	T400 4000F	T440 4000E			
	i. Liquid Flash Point:			☐140-199°F		applicable	
	j. Chemical Composi	representative analys	• •	s, debris, and Ui	HC's] present in any concentration	and submit	
		representative analys	515 /.				
Γ	Constituents		Concentration	Constituer	nts		Concentration
(Range	ll _			Range
Γ	Petroleum Contaminate	d Soil	100%	1			
Ī							
Γ							
[
_		TOTAL (COMPOSITION MUS	T EQUAL OR	EXCEED 100%		
	Check all that apply:	[]Db.o.d.			Radioactive	•	
	k. Oxidizer	Pyrophoric		Explosive	ve ☐Water Reactive	3	
	Carcinogen	Infectious presented by this profile of	السا عوم مطفوم بيسم ماموميد	Snock Sensiti	vevvater Reactive		
		Section B.1.j)					□YES ⊠NO
		presented by this profile of					☐YES ØNO
	n. Does the waste represented by this profile contain asbestos?						
	If yes						
	o. Does the waste represented by this profile contain benzene?						
	If yes, concentration		ppm				
		to the benzene waste op					□YES ⊠NO
		to RCRA Subpart CC co	ntrols?		••••••		∐YES ⊠NO
	If yes, volatile organi			ppmw			
	q. Does the waste cont	tain any Class I or Class [*]	II ozone-depleting su	bstances?	***************************************		□YES ⊠NO
	r. Does the waste conf	tain debris? (list in Sectio	n B.1.j)				□YES ⊠NO
2	Overtity of Monto				•		
2.	Quantity of Waste	500	□ -	\ ___\\\\\\\\\\\\\\\\\\\\\\	- CD	-:£\	
	Estimated Annual Volum	ne <u>500</u>		ons 🖾 Yard	s Drums Dother (spe	city) -	
3.	Shipping Information						
	a. Packaging:						
	⊠Bulk Solid; Type/	Size: Belly-Dump			Bulk Liquid; Type/Size:		
	☐Drum; Type; Size		······································		Other:		
	b. Shipping Frequency		rds per load Per:		Quarter ☐Year ☑One tir	ne Other	
		ment of Transportation (=		□YES ⊠NO



PLEASE PRINT IN INK OR TYPE

Profile Number: WMI

				-	Profile #:	
	Reportable Quantity (lbs.; kgs.): USDOT Shipping Name: n/a	n/a		e. Hazard Class/ID #	#:	
	Personal Protective Equipment Requ	uirements:	n/a			
	Transporter/Transfer Station:	WM of NM				
C. Ger	nerator's Certification (Please check	appropriate resp	onses, sign, and	date below.)		
1.	ls this a USEPA hazardous waste (40 a. If yes, identify ALL USEPA listed					□YES ⊠NO
	 b. If a characteristic hazardous was (UHCs) apply? (if yes, list in Sec c. Does this waste contain debris? Composition - B.1.) 	tion B.1.j) (if yes, list size and	type in Chemical		□YES □NO	
2.	Is this a state hazardous waste?ldentify ALL state hazardous waste co					YES NO
3.	Is the waste from a CERCLA (40 CFR 3 If yes, attach Record of Decision (ROD activity. For state mandated clean-up,), 104/106 or 122 o	rder or court order			□YES ⊠NO
4.	Does the waste represented by this was regulated by the Nuclear Regulatory Co					□YES ⊠NO
5.	Does the waste represented by this war Biphenyls (PCBs) regulated by 40 CFR a. If yes, were the PCBs imported into	761? (if yes, list in	Chemical Compos	sition - B.1.j)	□YES □NO	□YES ⊠NO
6.	Do the waste profile sheet and all attac material, and has all relevant information suspected hazards pertaining to the wa	on within the posses	ssion of the Gener	ator regarding known or		⊠YES □NO
7.	Will all changes which occur in the char to the Contractor prior to providing the					⊠YES □NO
□Che	ck here if a Certificate of Destruction o	r Disposal is requ	ired.			
any wa has cor be reas and ide	mple submitted is representative as definite shipment for purposes of recertification firmed the information contained in this lonably necessary. If approved for manantified by this approved profile.	on. If this certification in Profile Sheet from i	on is made by a br nformation provide r has all the neces	oker, the undersigned signed signed by the generator and a sary permits and licenses	ons as authorized agent of t dditional information as it ha for the waste that has been	he generator and as determined to a characterized
	(Type or Print): GARU WY	NN additional informa	Company Nation is attached.	ame: GiANT Indicate the number of	Environment Environment Ewoustries, TMC. D attached pages	ate:
D. WA	Il Management's Decision				FOR WMI USE ONLY	
1. 2. 3.	Management Method Landfill Hazardous Proposed Ultimate Management Face Precautions, Special Handling Proce	cility:	Other (Specify)	Bioremediation	☐Incineration	
				,		
Salesp	l Waste Decisionerson's Signature:			· · · · · · · · · · · · · · · · · · ·	☐Approved ☐C Date:	isapproved
	n Approval Signature (Optional):				Date:	
opecia	Waste Approvals Person Signature:				Date:	

505-892-2054



PLEASE PRINT IN INK OR TYPE

Instructions

Information on this form is used to determine if the waste may be transported, treated, stored or disposed in a legal, safe, and environmentally sound manner. This information will be maintained in strict confidence. Answers must be provided for sections A, B, and C and must be printed in ink or typed. A response of "NONE" or NA" (not applicable) can be made if appropriate. If additional space is needed, indicate on the form that additional information is attached, and attach the information to Generator's Waste Profile Sheet. If you have questions concerning this form, please contact the Contractor's sales representative.

A. Waste Generator Information

- 1. Generator Name Enter the name of the facility where the waste is generated.
- 2. SIC Code Enter the four digit Standard Industrial Classification Code for the facility where the waste is generated.
- 3. Facility Street Address Enter the street address (not P.O. Box) of the facility where the waste is generated.
- 4. Phone Enter Generator's area code and phone number.
- Facility City Enter the city where the waste is generated.
- 6. State/Province Enter the state or province where the waste is generated.
- 7. Zip/Postal Code Enter the generating facility's zip or postal code.
- 8. **Generator USEPA/Federal ID # -** Enter the identification number issued by the USEPA, Canadian, or Mexican Federal Agency to the facility generating the waste (if applicable).
- 9. County Enter the county where the waste is generated.
- 10. **State/Province ID # -** Enter the identification number issued by the state or province to the facility generating the waste (if applicable).
- 11. **Customer Name -** Entity that the Contractor is directly working with regarding the represented waste stream. If the same as the Generator, mark "Same as Above".
- 12. Customer Phone Enter technical contact's area code and telephone number.
- 13. Customer Contact Enter the name of the person who can answer technical questions about the waste.
- 14. Customer Fax Area code and facsimile number for the customer.
- 15. Billing Address Address where bill for services should be sent.

B. Waste Stream Information

- 1.a. Name of Waste Enter a name generally descriptive of this waste (e.g., paint sludge, fluorescent bulbs).
- 1.b. **Process Generating Waste** Describe the process generating the waste in detail. List the specific process/operation or source that generates the waste (e.g., incineration of municipal refuse, asbestos removal, wastewater treatment, building maintenance).
 - At a minimum, the Generator should answer the following questions in determining the process generating the waste.
- What chemicals are stored and/or used at the facility?
- Is the waste generated from the production/manufacturing of any of the following industries: wood preservation;
- inorganic pigments; organic pigments; pesticides; explosives; petroleum refining; iron and steel, copper, lead or zinc production?
- Is the waste a result from degreasing, solvent parts cleaning, recovery/reclaiming of solvents (bottoms), wastewater treatment (sludges), or electroplating?
- 1.c. Color Describe the color of the waste (e.g., blue, transparent, varies).
- 1.d. Strong odor DO NOT SMELL THE WASTE! If the waste has a known odor, then describe (e.g., acrid, pungent, solvent, sweet)
- Physical state @ 70°F If the four boxes provided do not apply, a descriptive phrase may be entered after "Other" (e.g., multi-phase).
- 1.f. Layers Single Layer means the waste is homogenous. Multi-layer means the waste is comprised of two or more layers (e.g., oil/water/sludge).
- 1.g. Free liquid range Range (in percent by volume) of free liquids in the waste.
- 1.h. pH Range Indicate the pH range.
- 1.i. Liquid Flash Point Indicate the flash point obtained using the appropriate test method.
- 1.j. Chemical Composition List all organic and/or inorganic components of the waste using chemical names. If trade names are used, attach Material Safety Data Sheets or other documents that adequately describe the composition of the waste. For each component, estimate the range (in percent) in which the component is present.
- 1.k. Check all that apply.
- 1.I. Identify any element, chemical compound, or mixture in concentration of 0.1 percent or greater that is considered a carcinogen or potential carcinogen pursuant to OSHA.
- 1.m. Indicate if the waste contains any dioxins (list in Section B.1.j).
- 1.n. Indicate if the waste contains asbestos. Indicate if the asbestos is friable.
- 1.o. Indicate if the waste contains benzene, the level in ppm, and whether it is subject to the benzene NESHAP.
- Indicate if the waste is subject to RCRA Subpart CC control. In addition, indicate the volatile organic concentration, if known, in parts per million weight.
- 1.q. Indicate if the waste contains any Class I or Class II ozone-depleting controlled substances.
- 1.r. Indicate if the waste contains debris (list size and type in B.1.j).
- Quantity of Waste Approximate volume in tons, yards, or other (e.g., drums, gallons) that will be received by the ultimate
 management facility. This volume amount is not intended for use in complying with state and/or permit restrictions.
- 3.a. Packaging Choose the appropriate option or "other" along with a description.
- 3.b. **Shipping Frequency -** Choose the appropriate option or "other" along with a description.
- 3.c. Is this a U.S. Department of Transportation (USDOT) hazardous material? Choose the appropriate response: yes or no.
- 3.d. Reportable Quantity (lbs.; kgs.) If the answer to 3.c. is yes, enter the Reportable Quantity (RQ) established by 40 CFR 302.4 or equivalent Canadian or Mexican regulation for this waste. Indicate the appropriate units for the RQ.
- 3.e. Hazard Class/ID # If the answer to 3.c. is yes, indicate the proper USDOT hazard class and identification number.



PLEASE PRINT IN INK OR TYPE

- 3.f. USDOT Shipping Name IF the answer to 3.c. is yes, enter the proper USDOT shipping name for the waste.
- 3.g. Personal Protective Equipment Requirements All personal protective equipment necessary to safely manage the waste stream.
- 3.h. Transporter/Transfer Station Transporter and/or transfer station name.

C. Generator's Certification (Please check appropriate responses, sign, and date below.)

Indicate the appropriate response to questions/statements 1, 2, 3, 4, 5, 6, and 7. By signing this Generator's Waste Profile Sheet, the Generator certifies the responses are true and accurate with respect to the waste stream(s) listed.

Certification Signature - Signature of an authorized employee of the Generator or representative of the generator if authorized in writing by the generator.

Title - Enter Employee's title.

Name - Type or Print Employee's name.

Company Name - Company employing the person certifying the Generator's Waste Profile Sheet.

Date - Enter the date this Generator's Waste Profile Sheet is signed.

D. WMI Management's Decision

FOR WIVII USE ONL

To be completed by WMI.

ENVIROTECH LABS

January 28, 2004

Mr. Gary Winn
Giant Transportation
111 CR 4990
Bloomfield, New Mexico 87413

Phone: (505) 632-4009 Fax: (505) 632-4073

Client No.: 97059-007

Dear Mr. Winn,

Enclosed are the analytical results for the sample collected from the location designated as "Giant Rack". One soil sample was collected by Giant designated personnel on 1/26/04, and delivered to the Envirotech laboratory on 1/26/04 for Total Petroleum Hydrocarbons (TPH) per USEPA Method 8015 and BTEX per USEPA Method 8021.

The sample was documented on Envirotech Chain of Custody No. 11789 and assigned Laboratory Nos. 27647 (Spoil #1) for tracking purposes.

The sample was analyzed on 1/27/04 using USEPA or equivalent methods.

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

Respectfully submitted, Envirotech, Inc.

Christine M. Walters

Lab Coordinator / Environmental Scientist

enclosure

CMW/cmw

C:/files/labreports/giant/.wpd

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ENVIROTECH LABS

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID:	N/A 01-27-BTEX QA/QC	Project #: Date Reported:	N/A 01-27-04
Laboratory Number:	27647	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-27-04
Condition:	N/A	Analysis:	BTEX

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Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5886E-002	5.5978E-002	0.2%	ND	0.1

Publicate constitution		allegger :			FERENCIES E
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	349	342	2.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	310	300	3.2%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

	Parting a Hole and the Artic	inistika Esp	an Sample		H. West in Relationship
Benzene	ND	50.0	50.0	100%	39 - 150
Toluene	349	50.0	402	101%	46 - 148
Ethylbenzene	ND	50.0	49.0	98.0%	32 - 160
p,m-Xylene	310	100	400	97.6%	46 - 148
o-Xylene	ND	50.0	53.0	106%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for samples 27647 and 27649.

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Review

CHAIN OF CUSTODY RECORD

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ENVIROTECH LABS

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Giant	Project #:	97059-007
Sample ID:	Spail #1	Date Reported:	01-27-04
Laboratory Number:	27647	Date Sampled:	01-26-04
Chain of Custody:	11789	Date Received:	01-26-04
Sample Matrix:	Soil	Date Analyzed:	01-27-04
Preservative:	Cool	Date Extracted:	01-27-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
.		4.0
Benzene	ND	1.8
Toluene	349	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	, 310	2.2
o-Xylene	ND	1.0
Total BTEX	659	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

Giant Rack.

Musteren Walters

ENVIROTECH LABS

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

andrea Rackson

N/A Client: QA/QC Project #: 01-27-04 Sample ID: 01-27-8015 QA/QC Date Reported: Date Sampled: N/A Laboratory Number: 27647 N/A Sample Matrix: Methylene Chloride Date Received: Preservative: N/A Date Analyzed: 01-27-04 Condition: N/A Analysis Requested: TPH

 Gasoline Range C5 - C10
 04-29-03
 1.8591E-002
 1.8572E-002
 0.10%
 0 - 15%

 Diesel Range C10 - C28
 04-29-03
 1.5507E-002
 1.5492E-002
 0.10%
 0 - 15%

Blank Conc. Into/L. Into/Ker Transcription Concentration (Conc. Into/L. Into/Ker Transcription Concentration (Conc. Into/L. In

 Duplicate Caric (mg/kg)
 Sample 1-2 Duplicate 2 Duplicate 3 Duplicate 4 Dup

 Spike Conc. (mg/kg)
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 5pik Tesule
 / Bee

 Gasoline Range
 C5 - C10
 0.9
 250
 250
 99.6%
 75 - 125%

 Diesel Range
 C10 - C28
 ND
 250
 250
 100%
 75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 27647, 27649 - 27650.

Analyst

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ENVIROTECH LABS

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Giant	Project #:	97059-007
Sample ID:	Spail #1	Date Reported:	01-27-04
Laboratory Number:	27647	Date Sampled:	01-26-04
Chain of Custody No:	11789	Date Received:	01-26-04
Sample Matrix:	Soil	Date Extracted:	01-27-04
Preservative:	Cool	Date Analyzed:	01-27-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	
Gasoline Range (C5 - C10)	0.9	0.2	
Diesel Range (C10 - C28)	ND	0.1	
Total Petroleum Hydrocarbons	0.9	0.2	

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Giant Rack.

Analyst Maller

Landrea Rackson

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

TRANSACTION REPORT

JAN-28-2004 WED 02:35 PM

FOR: GIANT TRANSPORTATION

15056324022

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DATE	START	RECE I VER	PAGES	TIME	NOTE	M#	
JAN-28	02:31 PM	15058922587	11	3′ 54″	OK	75	

	Montyne Kielma
State of New Mexico RECEIVED Minerals and Natural Resource Note of New Mexico Received Minerals Note of New Me	Submit Original Plus 1 Copy to Appropriate District Office
REQUEST FOR APPROVAL TO ACCEP	TSOLID WASTE
RCRA Exempt Non-Exempt: □ Verbal Approval Received: Yes □ No	Giant Refining Company Originating Site Bloomfield Refinery
Management Facility Destination	6. Transporter Not Determined
3. Address of Facility Operator 111 CR 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 50 CR 4990 Bloomfield, NM	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste cla approved All transporters must certify the wastes delivered are only those consigned for transporters DESCRIPTION OF MATERIAL: Process Waste Water Evaporation Pond Sludge. Analysis Attached.	ecessary chemical analysis to PROVE the assified hazardous by listing or testing will be
α	
SIGNATURE Waste Management Facility Authorized Agent TITLE: Operations Man	ī
TYPE OR PRINT NAME:Barry Holman TELEPHEE-MAIL ADDRESSbarryh@giant.com	ONE NO505-632-4061
APPROVED BY: APPROVED BY: APPROVED BY: TITLE: Environment	Engr DATE: 7/30/03 Coologist DATE: 8-1-03

1. Generator Name and Address:	2. Destination Name:
Giant Refining company - Bloomfield	Giant Mid-Contient
50 County Road 4990	111 County Road 4990
Bloomfield, New Mexico 87413	Bloomfield, New Mexico 87413
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Giant Refinery	50 County Road 4990 Bloomfield, New Mexico 87413
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Process Waste Water evaporation pond from lined exaporation lagoon. Analy	sludge. Sludge was removed rtical data is attached.
L Cindy Hurtado	representative for:
(Print Name) Giant Redining Company	do hereby certify that,
1988, regulatory determination, the above described EXEMPT oilfield waste XX NON-EXEMPT.	waste is: (Check appropriate classification) MPT cilifield waste which is non-hazardous by characteristic r by product identification
and that nothing has been added to the exampt or no	on-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documents of MSDS Information MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	mentation is attached (check appropriate items): XX Other (description);
Name (Original Signature): inoly Hustade	2
Title: Environmental Assistant	
	



COVER LETTER

July 25, 2003

Cindy Hurtado San Juan Refining #50 CR 4990 Bloomfield, NM 87413 TEL: (505) 632-4161 FAX (505) 632-3911

RE: South Evap. Pond Sludge

Order No.: 0307058

Dear Cindy Hurtado:

Hall Environmental Analysis Laboratory received 1 sample on 7/9/2003 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager

Nancy McDuffie, Laboratory Manager

Hall Environmental Analysis Laboratory

Date: 25-Jul-03

CLIENT: San Juan Refining Client Sample ID: South Evap. Pond Sludge

Lab Order: 0307058 Tag Number:

Project: South Evap. Pond Sludge Collection Date: 7/8/2003 2:30:00 PM

Lab ID: 0307058-01A Matrix: SOIL

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
PESTICIDES, TCLP LEACHED					Analyst: GT
Chlordane	ND	0.15	mg/L	1	7/23/2003 7:14:24 PM
Endrin	ND	0.10	mg/L	1	7/23/2003 7:14:24 PM
gamma-BHC (Lindane)	ND	2.0	mg/L	1	7/23/2003 7:14:24 PM
Heptachlor	ND	0.040	mg/L	1	7/23/2003 7:14:24 PM
Heptachlor epoxide	ND	0.040	mg/L	1	7/23/2003 7:14:24 PM
Methoxychlor	ND	50	mg/L	1	7/23/2003 7:14:24 PM
Toxaphene	ND	2.5	mg/L	1	7/23/2003 7:14:24 PM
Surr: Decachlorobiphenyl	87.4	64.7-119	%REC	1	7/23/2003 7:14:24 PM
Surr: Tetrachloro-m-xylene	67.0	49.2-103	%REC	1	7/23/2003 7:14:24 PM
HERBICIDES, TCLP LEACHED					Analyst: GT
2,4,5-TP (Silvex)	ND	1.0	mg/L	1	7/19/2003 9:07:03 AM
2,4-D	ND	10	mg/L	1	7/19/2003 9:07:03 AM
Surr: Tetrachloro-m-xylene	59.6	53.8-125	%REC	1	7/19/2003 9:07:03 AM
VOLATILES, TCLP LEACHED					Analyst: BDH
Benzene	ND -	0.50	mg/L	1 .	7/19/2003
2-Butanone	ND	200	mg/L	1	7/19/2003
Carbon Tetrachloride	ND	0.50	mg/L	1	7/19/2003
Chlorobenzene	ND	100	mg/L	1	7/19/2003
Chloroform -	ПО	6.0	mg/L	1	7/19/2003
1,4-Dichlorobenzene	ND	7.5	mg/L	1	7/19/2003
1,2-Dichloroethane (EDC)	ND	0.50	mg/L	1	7/19/2003
1,1-Dichloroethene	ND	0.70	mg/L	1	7/19/2003
Hexachlorobutadiene	ND	0.50	mg/L	1	7/19/2003
Tetrachloroethene (PCE)	ND	0.70	mg/L	1	7/19/2003
Trichloroethene (TCE)	ND	0.50	mg/L	1	7/19/2003
Vinyl chloride	ND	0.20	mg/L	1	7/19/2003
Surr: 1,2-Dichloroethane-d4	97.6	70-130	%REC	1	7/19/2003
Surr: 4-Bromofluorobenzene	94.9	70-130	%REC	1	7/19/2003
Surr: Dibromofluoromethane	96.0	70-130	%REC	1	7/19/2003
Surr: Toluene-d8	103	70-130	%REC	1	7/19/2003
SEMIVOLATILES, TCLP LEACHED					Analyst: CS
2,4,5-Trichlorophenol	ND	4000	mg/L	1	7/24/2003
2,4,6-Trichlorophenol	ND	20.0	mg/L	1	7/24/2003
2,4-Dinitrotoluene	ND	1.30	mg/L	1	7/24/2003
Cresols, Total	ND	2000	mg/L	1	7/24/2003
Hexachlorobenzene	ND	1.30	mg/L	1	7/24/2003
Hexachlorobutadiene	ND	5.00	mg/L	1	7/24/2003
Hexachloroethane	ND	30.0	mg/L	1	7/24/2003
Nitrobenzene	ND	20.0	mg/L	1	7/24/2003

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

✓ Hall Environmental Analysis Laboratory

Date: 25-Jul-03

CLIENT:

San Juan Refining

Lab Order:

0307058

South Evap. Pond Sludge

Project: Lab ID:

0307058-01A

Client Sample ID: South Evap. Pond Sludge

Tag Number:

Collection Date: 7/8/2003 2:30:00 PM

Matrix: SOIL

Analyses	Result	Limit	Qual Units	DF	Date Analyzed
Pentachlorophenol	ND	1000	mg/L	1	7/24/2003
Pyridine	ND	50.0	mg/L	1	7/24/2003
Surr: 2,4,6-Tribromophenol	89.6	11.4-129	%REC	1	7/24/2003
Surr: 2-Fluorobiphenyl	69.3	25.6-85.6	%REC	1	7/24/2003
Surr: 2-Fluorophenoi	66.0	19.2-79.3	%REC	1	7/24/2003
Surr: 4-Terphenyl-d14	75.6	13.2-155	%REC	1	7/24/2003
Surr: Nitrobenzene-d5	74.2	27-96.4	%REC	1	7/24/2003
Surr: Phenol-d6	47.8	12.2-54.1	%REC	1	7/24/2003
MERCURY, TCLP LEACHED					Analyst: MAP
Mercury	ND	0.020	mg/L	1	7/23/2003
EPA METHOD 6010C: TCLP METALS					Analyst: NMO
Arsenic	ND	5.0	mg/L	1	7/24/2003 11:48:22 AM
Barium	ND	100	mg/L	1	7/24/2003 11:48:22 AM
Cadmium	ND	1.0	mg/L	1	7/24/2003 11:48:22 AM
Chromium	ND	5.0	mg/L	1	7/24/2003 11:48:22 AM
Lead	ND	5.0	mg/L	1	7/24/2003 11:48:22 AM
Selenium	ND	1.0	mg/L	1	7/24/2003 11:48:22 AM
Silver	ND	5.0	mg/L	1	7/24/2003 12:28:09 PM

B - Analyte detected in the associated Method Blank

^{* -} Value exceeds Maximum Contaminant Level

R - RPD outside accepted recovery limits

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 25-Jul-03

San Juan Refining CLIENT:

Qual Method Blank Qual QC SUMMARY REPORT Prep Date 7/15/2003 Prep Date 7/14/2003 **RPDLimit RPDLimit** %RPD %RPD Analysis Date 7/23/2003 5:39:33 PM Analysis Date 7/19/2003 7:00:52 AM 0 0 0 LowLimit HighLimit RPD Ref Val LowLimit HighLimit RPD Ref Val 202639 201511 119 103 125 SeqNo: SedNo: 49.2 53.8 64.7 %REC 97.0 64.6 %REC 77.0 Test Code: SW1311/8080 Units: mg/L Test Code: SW1311/8150 Units: mg/L 0 0 SPK value SPK Ref Val 0 SPK value SPK Ref Val ECD(17A)_030723A ECD(17A)_030718A 2 2 5 Run ID: 졉 0.030 0.020 0.40 0.0080 0.0080 0.50 5 6 0 9 g Run ID: Result 4.85 9999999 Result S S 7: South Evap, Pond Sludge Batch ID: 3930 Batch ID: 3922 0307058 Surr: Tetrachloro-m-xylene Surr: Tetrachloro-m-xylene Surr: Decachlorobiphenyl gamma-BHC (Lindane) Sample ID MB-3930 Sample ID MB-3922 Heptachlor epoxide 2,4,5-TP (Silvex) Work Order: Methoxychlor Toxaphene Heptachlor Chlordane Project: Client ID: Client ID: Analyte Endrin Analyte

B - Analyte detected in the associated Method Blank S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

QC SUMMARY REPORT

Method Blank

South Evap. Pond Sludge

San Juan Refining

0307058

Work Order: CLIENT:

Project:

Sample ID 5ml rb-b	Batch ID: R8921	Test Code: SW8260B	SW8260B	Units: mg/L		Analysis	Analysis Date 7/19/2003	03	Prep Date	te	
Client ID:		Run ID:	THOR_030718B	8		SeqNo:	201502				
Analyte	Result	Pal	SPK value	SPK value SPK Ref Val	%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val	PD Ref Val	%RPD	%RPD RPDLimit	Qual
Benzene	Q	0.50		1 t t 1 t 1 t 1 t 1 t 1 t 1 t 1 t 1 t 1							
2-Butanone	Q	200									
Carbon Tetrachloride	ON.	0.50		-							
Chlorobenzene	ΩN	100									
Chloroform	Q	0.9									
1,4-Dichlorobenzene	Q	7.5									
1,2-Dichloroethane (EDC)	Q	0.50									
1,1-Dichloroethene	S	0.70									
Hexachlorobutadiene	Q	0.50									
Tetrachloroethene (PCE)	N N	0.70									
Trichloroethene (TCE)	Q	0.50									
Vinyl chloride	QN	0.20									
Surr: 1,2-Dichloroethane-d4	0.01038	0	0.01	0	104	2	130	0			
Surr: 4-Bromofluorobenzene	0.009278	0	0.01	0	92.8	2	130	0			
Surr: Dibromofluoromethane	0.009928	0	0.01	0	99.3	20	130	0			
Surr: Toluene-d8	0.0101	0	0.01	0	101	20	130	0			

ND - Not Detected at the Reporting Limit Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

San Juan Refining CLIENT:

0307058 Work Order:

Method Blank

QC SUMMARY REPORT

Project: South Ev	South Evap. Pond Sludge	9								Method Blank	Blank
Sample ID mb. 3034	Ratch ID: 3034	Test Code	SW4344/827/	Test Code: SW1341/8270 Inits: mail		Analyei	Analysis Date 7/24/2003	2003	Pren	Prep Date 7/15/2003	=
Client ID:		Rim ID:	EI MO 030724A	44		Section.	702867	2007	-		2
Analyte	Result	P. P.	SPK value	SPK Ref Val	%REC	LowLimit	High	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	ON	400									
2,4,6-Trichtorophenol	QN	2.0									
2,4-Dinitrotoluene	QN	0.13									
Cresols, Total	QN	200									
Hexachlorobenzene	QN	0.13									
Hexachlorobutadiene	Q	0.50									
Hexachloroethane	Q	3.0									
Nitrobenzene	QN	2.0									
Pentachlorophenol	Q	100									
Pyridine	Q	5.0		-							
Surr: 2,4,6-Tribromophenol	153.5	0	200	0	76.8	11.4	129	0			
Surr: 2-Fluorobiphenyl	63.28	0	100	0	63.3	25.6	85.6	0			
Surr: 2-Fluorophenol	130.7	0	200	0	65.4	19.2	79.3	0			
Surr: 4-Terphenyl-d14	69.26	0	100	0	69.3	13.2	155	0			
Surr: Nitrobenzene-d5	76.52	0	100	0	76.5	27	96.4	0			
Surr: Phenol-d6	89.18	0	200	0	44.6	12.2	54.1	0			
Sample ID MB-3984	Batch ID: 3984	Test Code:	SW7470	Units: mg/L		Analysis	Analysis Date 7/23/2003	2003	Prep D	Prep Date 7/23/2003	
Client ID:		Run ID:	MI-LA254_030723A	7723A		SeqNo:	202442	8			
Analyte	Result	Pol	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ON	0.020	***	-						į	

B - Analyte detected in the associated Method Blank S - Spike Recovery outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

R - RPD outside accepted recovery limits

QC SUMMARY REPORT

Method Blank

South Evap. Pond Sludge

San Juan Refining

0307058

Work Order: CLIENT:

Project:

					İ						
Sample ID MB-3989	Batch ID: 3989	Test Code:	Test Code: SW1311/6010 Units: mg/L	its: mg/L		Analysis	Analysis Date 7/24/2003 11:29:31 AM	11:29:31 AM	Prep Date	Prep Date 7/23/2003	
Client ID:		Run ID:	ICP_030724D			SeqNo:	202729				
Analyte	Result	Pal	SPK value SPK Ref Val		%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val		%RPD	%RPD RPDLimit	Qual
Arsenic	QN	5.0									
Barium	QV	100									
Cadmium	QV	1.0									
Chromium	QN	5.0									
Lead	QN	5.0									
Selenium	0.009431	1.0									٠,
Sample ID MB-3989	Batch ID: 3989	Test Code:	Test Code: SW1311/6010 Units: mg/L	its: mg/L		Analysis	Analysis Date 7/24/2003 12:25:21 PM	Į	Prep Date	Prep Date 7/23/2003	
Client ID:		Run ID:	ICP_030724E			SeqNo:	202740				
Analyte	Result	Pol	SPK value SPK Ref Val		%REC	LowLimit	%REC LowLimit HighLimit RPD Ref Val		%RPD RPDLimit		Qual
Silver	QN.	5.0									

ND - Not Detected at the Reporting Limit Qualifiers: J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

Date: 25-Jul-03

Hall Environmental Analysis Laboratory

San Juan Refining CLIENT:

0307058 Work Order:

QC SUMMARY REPORT

Part Dec Dec Dec Dec Dec SW1311/8080 Dec T/23/2003 6:12:13. Dec Dec T/23/2003 6:12:13. Dec D	Test Cod		, O										
PQL SPK Ref Val %REC Lc Lc Lc Lc Lc Lc Lc L	t ID: te Result na-BHC (Lindane) 0.49 0.33 sohlor sohlor epoxide 0.39 oxychlor te Result te Result te Na-BHC (Lindane) 0.36 chlor epoxide 0.35 chlor epoxide 0.35 chlor epoxide 0.44 oxychlor 0.519 le ID LCS-3922 Batch ID: 3922 ID: Result te Result 1. 0.57 0.36 0.35 chlor epoxide 0.44 oxychlor 0.519 ID: Result TP (Silvex) 2.18	ble ID LCS-3930	Batch ID: 3930	Test Code	: SW1311/8080	Units: mg/L		Analysi	s Date 7/23	/2003 6:12:02 PM	Prep D	Prep Date 7/15/2003	_m
te Result PQL SPK value SPK Ref Val %REC Lc	rebult name) 0.49 na-BHC (Lindane) 0.33 nchlor epoxide 0.39 oxychlor na-BHC (Lindane) 0.57 na-BHC (Lindane) 0.57 na-BHC (Lindane) 0.36 na-BHC (Lindane) 0.35 na-BHC (Lindane) 0.35 na-BHC (Lindane) 0.57 na-BHC (Lindane) 0.	Ü.		Run ID:	ECD(17A)_03	0723A		SedNo		40			
n 0.49 0.020 0.5 0 98.0 na-BHC (Lindane) 0.33 0.10 0.5 0 66.0 schlor 0.39 0.0080 0.5 0 66.0 schlor epoxide 0.39 0.0080 0.5 0 78.0 sxychlor 0.5 0.40 0.5 0 78.0 le ID LCSD-3930 Batch ID: 3930 Test Code: SW1311/8080 Units: mg/L 78.0 le ID LCSD-3930 Batch ID: 3930 Test Code: SW1311/8080 Units: mg/L 72.0 chor 0.57 0.020 0.5 0 72.0 chlor 0.36 0.10 0.5 0 72.0 chlor epoxide 0.54 0.00 0.5 0 70.0	na-BHC (Lindane) 0.49 oxychlor cilo: te ID LCSD-3930 Batch ID: 3930 chlor epoxide 0.57 na-BHC (Lindane) 0.57 chlor epoxide 0.35 cchlor epoxide 0.44 oxychlor ID: Batch ID: 3922 ID: Result 10: 0.45 id: D.CS-3922 Batch ID: 3922 ID: Result 10: 10: 10: 10: 10: 10: 10: 10: 10: 10:	te	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit		RPD Ref Val	%RPD	RPDLimit	Qual
na-BHC (Lindane) 0.33 0.10 0.5 0 66.0 soblor poxide 0.39 0.0080 0.5 0 78.0 soblor epoxide 0.39 0.0080 0.5 0 78.0 sxychlor 0.5 0.40 0.5 0 78.0 sie ID LCSD-3930 Batch ID: 3930 Test Code: SW1311/8080 Units: mg/L 78.0 78.0 sie ID LCSD-3930 Batch ID: 3930 Test Code: SW1311/8080 Units: mg/L 8REC Lo sie ID LCSD-3930 Batch ID: 3920 0.00 0.5 0 72.0 chlor epoxide 0.35 0.0080 0.5 0 70.0 chlor epoxide 0.519 0.40 0.5 0 70.0 sxychlor 0.519 0.40 0.5 0 104 ID: Result PQL SPK value SPK Ref Val 88.0 ID: Result PQL SPK value SPK Ref Val 7.5 c	na-BHC (Lindane) 0.33 richlor chlor epoxide 0.39 oxychlor le ID LCSD-3930 Batch ID: 3930 id- ID: Result te 0.57 na-BHC (Lindane) 0.35 chlor epoxide 0.44 oxychlor 0.519 le ID LCS-3922 Batch ID: 3922 ID: Result 10: Result 10: Result 10: Result		0.49	0.020	0.5	0	98.0	65	108	0			
ochlor 0.33 0.0080 0.5 0 66.0 ochlor epoxide 0.39 0.0080 0.5 0 78.0 axychlor 0.5 0.40 0.5 0 78.0 ile ID LCSD-3930 Batch ID: 3930 Test Code: SW1311/8080 Units: mg/L 78.0 i.D: Run ID: ECD(17A)_030723A 72.0 i.D: Result PQL SPK value SPK Ref Val %REC Lo ria-BHC (Lindane) 0.36 0.10 0.5 0 72.0 chlor na-BHC (Lindane) 0.36 0.05 0.5 0 72.0 chlor na-BHC (Lindane) 0.36 0.05 0 72.0 xychlor 0.36 0.	achlor choxide 0.33 oxychlor boxide 0.39 oxychlor chore ch	na-BHC (Lindane)	0.33	0.10	0.5	0	0.99	65	108	0			
100 100	inchlor epoxide 0.39 oxychlor 0.55 ile ID LCSD-3930 Batch ID: 3930 ite Result ina-BHC (Lindane) 0.36 ichlor epoxide 0.35 ichlor epoxide 0.35 ichlor exychlor 0.36 ichlor exychlor 0.37 ichlor exychlor 0.36 ichlor exychlor 0.37 ichlor exychlor 0.36 ichlor exychlor 0.37 ichlor exychlor 0.36 ichlor exychlor 0.36 ichlor exychlor 0.36 ichlor exychlor 0.37 ichlor exychlor 0.36 ichlor exychlor 0.37 ichlor	ichlor	0.33	0.0080	0.5	0	0.99	65	108	0			
100 100	be ID LCSD-3930 Batch ID: 3930 The ID LCSD-3930 Batch ID: 3930 The ID ID: Result and another epoxide 0.35 The ID LCS-3922 Batch ID: 3922 The (Silvex) 2.18	chlor epoxide	0.39	0.0080	0.5	0	78.0	65	108	0			
In In In In In In In In	le ID LCSD-3930 Batch ID: 3930 1D: Result 0.57 1a-BHC (Lindane) 0.36 1chlor epoxide 0.44 xychlor 0.519 IE ID LCS-3922 Batch ID: 3922 ID: Result 10: 10: 10: 10: 10: 10: 10: 10: 10: 10:	xychlor	0.5	0.40	0.5	0	100	65	108	0			
te Result PQL SPK value SPK Ref Val %REC LC 114 ia-BHC (Lindane) 0.36 0.10 0.5 0 72.0 chlor epoxide 0.44 0.0080 0.5 0 70.0 chlor epoxide 0.519 0.40 0.050 0.5 0 70.0 chlor epoxide 0.519 0.40 0.0080 0.5 0 70.0 chlor epoxide 0.519 0.40 0.0080 0.5 0 104 0.0080 0.5 0 104 0.0080 0.5 0 104 0.	te Result 1 0.57 1a-BHC (Lindane) 0.36 1chlor epoxide 0.44 xychlor 1e ID LCS-3922 Batch ID: 3922 ID: Result TP (Silvex) 2.18	le ID LCSD-3930	Batch ID: 3930	Test Code	: SW1311/8080	Units: mg/L		Analysis	s Date 7/23/	/2003 6:43:08 PM	Prep Da	Prep Date 7/15/2003	
teacher Result PQL SPK value SPK Ref Val %REC LC na-BHC (Lindane) 0.35 0.020 0.5 0 72.0 chlor 0.35 0.0080 0.5 0 70.0 chlor epoxide 0.44 0.0080 0.5 0 88.0 axychlor 0.519 0.40 0.5 0 104 le ID LCS-3922 Batch ID: 3922 Test Code: SW1311/8150 Units: mg/L 104 lb: Run ID: ECD(17A)_030718A Rec Lo te Result PQL SPK value SPK value SPK cel Val 77.6 TP (Silvex) 2.18 1.0 5 0 43.6 77.6	te Result 1 0.57 1a-BHC (Lindane) 0.36 1chlor 1chlor epoxide 0.44 1xychlor 0.519 1xychlor Batch ID: 3922 1D: Result 1P (Silvex) 2.18	ΞΩ·		Run ID:	ECD(17A)_03()723A		SeqNo:		41			
nabe Clindane 0.57 0.020 0.55 0 114 na-BHC (Lindane) 0.36 0.10 0.50 72.0 Ichlor 0.35 0.0080 0.5 0 70.0 Ichlor epoxide 0.44 0.0080 0.5 0 88.0 Ichlor epoxide 0.519 0.40 0.5 0 104 Ichlor epoxide 0.519 0.40 0.5 0 104 Ichlor epoxide 0.59 0.05 0 104 104 Ichlor Exsagz Batch ID: 3922 Test Code: SW1311/8150 Units: mg/L R Ichlor Ichlor Exsagz Result PQL SPK value SPK value SPK cef Val 7.5 1.7 Ichlor Silvex) 2.18 1.0 5 0 43.6 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1	1 0.57 1a-BHC (Lindane) 0.36 1chlor 1chlor epoxide 0.44 1xychlor 1e ID LCS-3922 Batch ID: 3922 1D: Result TP (Silvex) 2.18	ē	Result	Pal		SPK Ref Val	%REC	LowLimit	HighLimit		%RPD	RPDLimit	Qual
na-BHC (Lindane) 0.36 0.10 0.5 0 72.0 chlor 0.35 0.0080 0.5 0 70.0 chlor epoxide 0.44 0.0080 0.5 0 70.0 oxychlor 0.519 0.40 0.5 0 104 le ID LCS-3922 Batch ID: 3922 Test Code: SW1311/8150 Units: mg/L 104 ID: Run ID: ECD(17A)_030718A Recompany	ia-BHC (Lindane) 0.36 ichlor chlor epoxide 0.44 oxychlor le ID LCS-3922 Batch ID: 3922 ID: Result te Result		0.57	0.020	0.5	0	114	65	108	0.49	15.1	18	်တ
chlor 0.35 0.0080 0.5 0 70.0 chlor epoxide 0.44 0.0080 0.5 0 88.0 oxychlor 0.519 0.40 0.5 0 104 le ID LCS-3922 Batch ID: 3922 Test Code: SW1311/8150 Units: mg/L 104 Run ID: ECD(17A)_030718A lb: Result PQL SPK value SPK Ref Val %REC Lo TP (Silvex) 2.18 1.0 5 0 43.6 77.6	ichlor epoxide 0.35 chlor epoxide 0.44 oxychlor 0.519 le ID LCS-3922 Batch ID: 3922 ID: Result TP (Silvex) 2.18	a-BHC (Lindane)	0.36	0.10	0.5	0	72.0	65	108	0.33	8.70	18	
ichlor epoxide 0.44 0.0080 0.5 0 88.0 ixychlor 0.519 0.40 0.5 0 104 le ID LCS-3922 Batch ID: 3922 Test Code: SW1311/8150 Units: mg/L Roll Run ID: ECD(17A)_030718A le Result PQL SPK value SPK Ref Val %REC LO TP (Silvex) 2.18 1.0 5 0 43.6 A7.6	ichlor epoxide 0.44 oxychlor e ID LCS-3922 Batch ID: 3922 ID: Result TP (Silvex) 2.18	chlor	0.35	0.0080	0.5	0	70.0	65	108	0.33	5.88	18	
Name	be ID LCS-3922 Batch ID: 3922 ID: Result TP (Silvex) 2.18	chlor epoxide	0.44	0.0080	0.5	0	88.0	65	108	0.39	12.0	18	
le ID LCS-3922 Batch ID: 3922 Test Code: SW1311/8150 Units: mg/L ID: Run ID: ECD(17A)_030718A ie Result PQL SPK value SPK Ref Val %REC Lo TP (Silvex) 2.18 1.0 5 0 43.6	le ID LCS-3922 Batch ID: 3922 ID: Result TP (Silvex) 2.18	xychlor	0.519	0.40	0.5	0	104	65	108	0.5	3.73	18	
D: Run D: ECD(17A)_030718A SeqNo: 201512	ID: Run ID: ECD(17A)_03C te Result PQL SPK value TP (Silvex) 2.18 1.0 5	le ID LCS-3922	Batch ID: 3922	Test Code	SW1311/8150	Units: mg/L		Analysis	Date 7/19/	2003 7:42:50 AM	Prep Da	Prep Date 7/14/2003	_
te Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val TP (Silvex) 2.18 1.0 5 0 43.6 20.6 127 2.38 10 6 6 31.4 416	te Result PQL SPK value TP (Silvex) 2.18 1.0 5	ä		Run ID:	ECD(17A)_03(718A		SeqNo:		12			
TP (Silvex) 2.18 1.0 5 0 43.6 20.6 127	TP (Silvex) 2.18 1.0	Q	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
238 10 R 0 178 21 118	000	TP (Silvex)	2.18	1.0	5	0	43.6	20.6	127	0		-	
01 110 011 017	2		2.38	10	Ŋ	0	47.6	31.4	116	0			7

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

San Juan Refining 0307058 Work Order: CLIENT:

South Evap. Pond Sludge

Project:

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID LCSD-3922 Client ID:	Batch ID: 3922	Test Code: Run ID:	SW1311/8150 Units ECD(17A)_030718A	Test Code: SW1311/8150 Units: mg/L Run ID: ECD(17A)_030718A		Analysis SeqNo:	5 Date 7/19/20 201513	Analysis Date 7/19/2003 8:25:03 AM SeqNo: 201513	Prep D	Prep Date 7/14/2003	m
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-TP (Silvex) 2,4-D	2.28	1.0	5	0 0	45.6	20.6 31.4	127	2.18	4.48	23.6	7
Sample ID 100ng Ics-b	Batch ID: R8921	Test Code: SW8260B	SW8260B	Units: µg/L		Analysis	Analysis Date 7/19/2003	/2003	Prep Date	ate	
Client ID:	÷	Run ID:	THOR_030718B	8B) [SeqNo:	201456		9	:: :: :: ::	
Analyte	Kesuit	2	SEN value	SPN Ref Val	79X%	LOWLITH	חושורושונ	ארט הפו vai	טראא	ארטבווווון	Coa
Benzene	19.27	1.0	20	0	96.3	71.2	122	0			
Toluene	19.51	1.0	20	0	97.5	87.7	122	0			
Chlorobenzene	23.24	1.0	20	0	116	85.6	136	0			
1,1-Dichloroethene	19.95	1.0	20	0	99.7	70.7	117	0			
Trichloroethene (TCE)	19.11	1.0	20	0	95.5	76.9	130	0			
Sample ID 100ng ccv sat-b	Batch ID: R8921	Test Code:	SW8260B	Units: µg/L		Analysis	Analysis Date 7/19/2003	2003	Prep Date	ıte	
Client ID:		Run ID:	THOR_030718B	8B		SeqNo:	201499	66			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.81	1.0	20	0	104	78.7	122	19.27	7.71	1	:
Toluene	20.46	1.0	20	0	102	9/	128	19.51	4.74	12.2	
Chlorobenzene	20.91	1.0	20	0	105	85.6	136	23.24	10.6	12	
1,1-Dichloroethene	21.05	1.0	20	0	105	7.07	117	19.95	5.37	19.3	
Trichloroethene (TCE)	18.97	1.0	20	0	94.9	76.9	130	19.11	0.693	15.5	

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

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San Juan Refining 0307058 CLIENT:

Work Order:

South Evap. Pond Sludge

Project:

Laboratory Control Spike - generic

QC SUMMARY REPORT

Sample ID Ics-3931	Batch ID: 3931	Test Code:	Test Code: SW1311/8270 Units: mg/L	Units: mg/L		Analysis	Analysis Date 7/24/2003	72003	Prep Da	Prep Date 7/15/2003	~
Client ID;		Run ID:	ELMO_030724A	4A		SeqNo:	202872	72			
Analyte	Result	Pal	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	67.9	1.0	100	0	67.9	20	73.1	0			
2,4,6-Trichlorophenol	65.3	2.0	100	0	65.3	16.2	75.1	0			
2,4-Dinitrotoluene	9.99	0.13	100	0	9.99	23.3	89.2	0			
Cresols, Total	179.9	1.0	300	0	90.09	17.5	78.8	0			
Hexachlorobenzene	76.66	0.13	100	0	76.7	39.6	128	0			
Hexachlorobutadiene	40.1	0.50	100	0	40.1	12.9	9.89	0			
Hexachloroethane	45.4	3.0	100	0	45.4	16.8	73.1	0			
Nitrobenzene	69.2	2.0	100	0	69.2	31.8	84.3	0			
Pentachlorophenol	73.14	1.0	100	0	73.1	21.9	90.1	0			
Sample ID Icsd-3931	Batch ID: 3931	Test Code:	Test Code: SW1311/8270 Units: mg/L	Units: mg/L		Analysis	Analysis Date 7/24/2003	2003	Prep Da	Prep Date 7/15/2003	
Client ID:		Run ID:	ELMO_030724A	4A		SeqNo:	202875	5			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	60.42	1.0	100	0	60.4	20	73.1	67.9	11.7	99	
2,4,6-Trichlorophenol	59.32	2.0	100	0	59.3	16.2	75.1	65.3	9.60	30	
2,4-Dinitrotoluene	63.06	0.13	100	0	63.1	23.3	89.2	9.99	5.46	30	
Cresols, Total	166.6	1.0	300	0	55.5	17.5	78.8	179.9	7.70	30	
Hexachlorobenzene	76.92	0.13	100	0	6.97	39.6	128	76.66	0.339	30	
Hexachlorobutadiene	34.78	0.50	100	0	34.8	12.9	9.89	40.1	14.2	30	
Hexachloroethane	40.24	3.0	100	0	40.2	16.8	73.1	45.4	12.1	30	
Nitrobenzene	92.09	2.0	100	0	8.09	31.8	84.3	69.2	13.0	30	
Pentachlorophenol	71.86	1.0	100	0	71.9	21.9	90.1	73.14	1.77	30	

J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit

Qualifiers:

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits

San Juan Refining 0307058 Work Order: CLIENT:

South Evap. Pond Sludge

Project:

Laboratory Control Spike - generic QC SUMMARY REPORT

Sample ID LCS-3984	Batch ID: 3984	Test Code:	SW7470	Units: mg/L		Analysi	Analysis Date 7/23/2003	/2003	Prep Da	Prep Date 7/23/2003	
Client ID:		Run ID:	MI-LA254_030723A	0723A		SeqNo:	202443	43			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.00471	0.020	0.005	0	94.2	80	120	0			7
Sample ID LCSD-3984	Batch ID: 3984	Test Code:	SW7470	Units: mg/L		Analysis	Analysis Date 7/23/2003	/2003	Prep Dat	Prep Date 7/23/2003	l
Client ID:		Run ID:	MI-LA254_030723A	0723A		SeqNo:	202444	4			
Analyte	Result	PoL	SPK value	SPK value SPK Ref Val	%REC	LowLimit	HighLimit	LowLimit HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0054	0.020	0.005	0	108	80	120	0			7
Sample ID LCS-3989	Batch ID: 3989	Test Code:	SW1311/6010	SW1311/6010 Units: mg/L		Analysis	5 Date 7/24	Analysis Date 7/24/2003 11:33:41 AM	Prep Dat	Prep Date 7/23/2003	ĺ
Client ID:		Run ID:	ICP_030724D			SeqNo:	202730	30			
Analyte	Result	PoL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	HighLimit RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4685	0.30	0.5	0	93.7	88	120	0			
Barium	0.4748	0.30	0.5	0	95.0	80	120	0			
Cadmium	0.4444	0.30	0.5	0	88.9	88	120	0			
Chromium	0.4757	0.30	0.5	0	95.1	88	120	0			
Lead	0.467	0.30	0.5	0	93.4	80	120	0			
Selenium	0.4578	0:30	0.5	0.009431	89.7	80	120	0			
Sample ID LCS-3989	Batch ID: 3989	Test Code:	SW1311/6010 Units: mg/L	Units: mg/L		Analysis	Date 7/24	Analysis Date 7/24/2003 12:26:13 PM	Prep Dat	Prep Date 7/23/2003	ļ
Client ID:		Run ID:	ICP_030724E			SeqNo:	202741	#			
Analyte	Result	POL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.4695	0:30	0.5	0	93.9	80	120	0			

S - Spike Recovery outside accepted recovery limits R - RPD outside accepted recovery limits J - Analyte detected below quantitation limits ND - Not Detected at the Reporting Limit Qualifiers:

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name SJR			Date and Tim	e Receive	
Work Order Number 0307058			Received by	AMG	
Checklist completed by Skinature	els 7	9/53 Date			
Matrix:	Carrier name: <u>UF</u>	P <u>S</u>			
Shipping container/cooler in good condition?	Ye	es 🗹	No 🗌	Not Present	
Custody seals intact on shippping container/coole	r? Ye	es 🗌	No 🗌	Not Present	\checkmark
Custody seals intact on sample bottles?	Ye	es 🗌	No 🗆	Not Present	✓
Chain of custody present?	Ye	es 🗹	No 🗆		
Chain of custody signed when relinquished and re	ceived? Ye	es 🗸	No 🗆		
Chain of custody agrees with sample labels?	Υe	es 🗹	No 🗆		
Samples in proper container/bottle?	Υe	es 🗹	No 🗆		
Sample containers intact?	Υe	es 🗹	No 🗆		
Sufficient sample volume for indicated test?	Υє	es 🗹	No 🗆		
All samples received within holding time?	Υe	es 🗹	No 🗆		
Water - VOA vials have zero headspace?	No VOA vials submitte	ed 🗹	Yes 🗆	No 🗆	
Water - pH acceptable upon receipt?	Ye	es 🗆	No 🗆	N/A 🗹	
Container/Temp Blank temperature? •		7° 4'	° C ± 2 Accepta	ble	
COMMENTS:					
Client contacted	Date contacted:	·	Pers	on contacted	
Contacted by:	Regarding:				
Comments:					
· .				· · · · · · · · · · · · · · · · · · ·	
Corrective Action					

•			_ \	1					 Γ		 		 	 1	
HALL ENVIRONMENTAL ANALYSIS LABÖRATORY 1901 Hawkins NE, Suite D Albuquerque, New Mexico 87109 Fel. 505.345-3975 Fax 505.345.4107 www.hallenvironmental.com		(N)	O Y) 936	esdsbea	H 10 S	Air Bubble					 		 		
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SIS 19 4107						40V) 0528	ļ								
IALY 8710 345. m			(2808) s	N PCB3		itsa9 1808			 <u> </u>						
e D rico 505.	EST	(205				F) snoinA			 		 	-			
HALL ENVIRONMENTAL ANALYSIS L 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109 Tel. 505.345-3975 Fax 505.345.4107 www.hallenvironmental.com	ANALYSIS REQUEST					N) snoitsO									
HALL ENVIRONME 1901 Hawkins NE, Albuquerque, New 7el. 505.345-3975 www.hallenvironm	S				etals	M 8 ARJA									٤
VIRO kins pue, 45-39	YSI			(H)	49 10 A	AN9) 0188									
Haw uerg	I W			(12	08 bo	EDC (Meth									
#ALL 901 !buq el. 5	⋖			(1.4	05 bo	tteM) 803									
T 4 4 F 2			(1208)	tsiJ III	Volatiles Fr									
				(1.8	f4 bo	TPH (Meth			 				 		
	1					odiaM H9T					 		 	 : <i>i</i> :	
		(ylnO				FM + X3T8			 		 		 	 Remarks:	
		L	(1208)	ė'8MT	. + 38.	FTEX + MT					 			Rei	
CHAIN-OF-CUSTODY, RECORD Client: SAN JUAN REFINING Project Name: EVAP. Fond Studage	499() Project #:		JALA DAY	4161 Sampler (and Hustado	- 39 // Samples Cold?: / 🗆 Yes 🗆 No 🕇 . O	Sample I.D. No. Number/Volume Hack Hot HEAL No.	South EVAP Pond Studge 4-409 fars	-						de Received By:	Relinquished By: (Signature)
F-CUSTO	# 50 08		Cloomfield	Phone #: 505 - 632 - 4161	505635	Matrix	2 Solid								
IN-0F	1	177	2/2	1:505	Sos	Time	230m							Time: SISpm	
Client	Address:			Phone	Fax #:	Date	7-08-03	i						Date: 7-08.03	Date:

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

JUL 2 8 2003

RECEIVED

Revised March 17, 1999 Submit Original Plus 1 Copy to Appropriate District Office

Form C-138

Oil Conservation Division 1220 South St. Francis Dr. Environmental Bureau Oil Conservation Division Santa Fe, NM 87505

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: \(\overline{\text{Ver}} \) \(4. Generator Ciniza Pipeline
Verbal Approval Received: Yes No	5. Originating Site Ciniza Pipeline Apache Station
2. Management Facility Destination Giant Mid-Continent	6. Transporter Giant Transportation
3. Address of Facility Operator Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 25N 6W 33SE	
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste claapproved 	necessary chemical analysis to PROVE the assified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for trans	port.
Sump of pump packing and proving loops overfilled a one (1) barrel of Crude Oil onto the ground. Estimated Volume cy Known Volume (to be entered by the operation)	JUI 2003 RECEIVED OIL CONS. DIV. DIST. 3
CLOSULTIND COMMING TO THE COMMING THE COMM	D. A. The
SIGNATURE Waste Management Facility Authorized Agent TITLE: Operations	Manager DATE: 7/9/03
TYPE OR PRINT NAME: Barry Holman TELEP	PHONE NO. (505) 632-4061

(This space for State Use) TITLE: Environment | Geologis | DATE: 07/28/03 APPROVED BY:

1. Generator Name and Address:	2. Destination Name:
Giant Ciniza Pipeline	Giant Mid-Continent Landfarm
111 CR 4990	Glant Mid-Continent Landiarm
Bloomfield, NM 87413	
Broomfield, Nr 6/413	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Ciniza Pipeline Apache Station	25N 06W 33SE
•	
•	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
	ing loops overfilled and ran over about
one (1) barrel of Crude Oil ont	to the ground.
	•
	*
I,Roy Armenta	representative for:
Giant Cinica (Rint Name)	•
Giant Ciniza (Fire Name)	do hereby certify that
· · · · · · · · · · · · · · · · · · ·	do hereby certify that covery Act (RCRA) and Environmental Protection Agency's July
according to the Resource Conservation and Re	covery Act (RCRA) and Environmental Protection Agency's July
· · · · · · · · · · · · · · · · · · ·	covery Act (RCRA) and Environmental Protection Agency's July
according to the Resource Conservation and Re 1988, regulatory determination, the above descr	covery Act (RCRA) and Environmental Protection Agency's July
according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste	covery Act (RCRA) and Environmental Protection Agency's July, ibed waste is: (Check appropriate classification)
according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste yy NON- analys	covery Act (RCRA) and Environmental Protection Agency's July ibed waste is: (Check appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification
according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste yy NON- analys	covery Act (RCRA) and Environmental Protection Agency's July, ibed waste is: (Check appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic
according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste vy NON- analys and that nothing has been added to the exempt	covery Act (RCRA) and Environmental Protection Agency's July, ibed waste is: (Check appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above.
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according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analys and that nothing has been added to the exempt For NON-EXEMPT waste only the following of MSDS Information RCRA Hazardous Waste Analys	covery Act (RCRA) and Environmental Protection Agency's July, ibed waste is: (Check appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above. locumentation is attached (check appropriate items): XX. Other (description):
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July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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:

- The above representative analyses can be used in lieu of individual sampling of each spill event until further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District I 1625 N. French Dr., Hobbs, NM, 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

	
REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1 BCRA Francista II Non Francista M	4. Generator Giant Industries, Inc.
RCRA Exempt:	5. Originating Site Ciniza Pipe Line Company's West Line
2. Management Facility Destination Giant Mid-Continent, Inc.'s Land Farm	6. Transporter Giant Industries, Inc.
Address of Facility Operator 111 County Road 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Sec. 4 T22N R14W	
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by n material is not-hazardous and the Generator's certification of origin. No waste claapproved 	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transp	oort.
BRIEF DESCRIPTION OF MATERIAL:	
Petroleum-impacted soil from pipeline leak Estimated Volume 800 cy Known Volume (to be entered by the op	perator at the end of the haul) cy
SIGNATURE Waste Management Facility Authorized Agent TITLE: Safety & Environ	
TYPE OR PRINT NAME: Gary Winn TELEPHONE NO.	<u>(505) 632-4077</u>
	Gwinn@Giant.com
(This space for State Use)	
APPROVED BY: TENANT TOURT TITLE: FOLLYON	/ Fight DATE 9/10/2002

TITLE: Environmolal Godoust

DATE: 9/11/02

	, ,
1. Generator Name and Address:	2. Destination Name:
Giant Industries, Inc.	Giant Mid-Continent, Inc. Land Farm
111 County Road 4990	San Juan County, New Mexico
Bloomfield, NM 87413	•
3. Originating Site (Name):	Location of the Waste (Street address &/or ULSTR):
Ciniza Pipe Line Company's West Line	Sec. 4 T22N R14W
Ciniza Pipe Line Company's west Line	560. 4 122N K14 W
Attach list of originating sites as appropriate.	
4. Source and Description of Waste:	
Source: Pipeline Leak Waste: Per	troleum-impacted soil
I Tim Vinney a name antative for Ciant Inc	hystolog Too do houshy contify that according
· 	lustries, Inc. do hereby certify that according
•	Act (RCRA) and Environmental Protection
	tion, the above described waste is: (Check
appropriate classification)	
C EXEMPT 11 11 W MAIO	AT TEXTER ADATE : "10" . 1.1
	N-EXEMPT oilfield waste which is non-
	ous by characteristic analysis or by product
identific	cation.
and that nothing has been added to the ex	xempt or non-exempt non-hazardous waste
defined above.	F
defined above.	
For NON-EXEMPT waste only, the following	ng documentation is attached (check appropriate
items):	
MSDS Information	Other (description):
RCRA Hazardous Waste Analysi	
Chain of Custody	intowieuge of process letter
Chain of Custody	
	
	\mathcal{V}_{-}
Name (Original Signature):	Mun
Title: General Manager, Transportation	
Date: (:)	
Baic. — 8/28/02	
1100	



July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

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Mr. Barry G. Holman July 29, 1998 Page 2—

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Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District I v 1625 N. French Dr., Hobbs, NM 88240 Pistrict II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED

Submit Original Plus 1 Copy to Appropriate District Office

Form C-138 Revised March 17, 1999

MAY 1 4 2002

Environmental Bureau Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: ☐ Non-Exempt: ☑ ☐ Uerbal Approval Received: Yes ☑ No ☐ Steve Hayden	4. Generator Giant Industries, Inc. 5. Originating Site Ciniza Pipe Line Company's West Line at pipeline mile marker #24
2. Management Facility Destination Giant Mid-Continent, Inc.'s Land Farm	6. Transporter Giant Industries, Inc.
Address of Facility Operator 111 County Road 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) SW Sec. 33 T23N R14W	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste classical approved. All transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters must certify the wastes delivered are only those consigned for transporters are considered as a considered for transporters are considered for transporters are considered for transporters.	necessary chemical analysis to PROVE the assified hazardous by listing or testing will be
Estimated Volumecy Known Volume (to be entered by the ope	erator at the end of the haul)cy
SIGNATURE Waste Mayagement Facility Authorized Agent TITLE: Safety & Environment Facility Authorized Agent	mental Manager DATE:
TYPE OR PRINT NAME: Gary Winn TELEPHONE NO.	(505) 632-4077
APPROVED BY: Man My TITLE: Environmental TITLE: Env	Engr DATE: 5/13/02 Geograf DATE: 5/14/02

Generator Name and Address:	2. Destination Name:
Giant Industries, Inc.	Giant Mid-Continent, Inc. Land Farm
111 County Road 4990	San Juan County, New Mexico
Bloomfield, NM 87413	
3. Originating Site (Name):	Location of the Waste (Street address &/or ULSTR):
Ciniza Pipe Line Company's West Line	SW Sec. 33 T23N R14W
at R-24 mile marker	
Attach list of originating sites as appropriate. 4. Source and Description of Waste:	
-	troleum-impacted soil
Source. Tipeline Leak waste. Te	doleum-impacted son
L	
I Time Winners a nonnegonatative for Ciont In	disatuing Inc. do howship contify that according
	dustries, Inc. do hereby certify that according
*	Act (RCRA) and Environmental Protection
Agency's July, 1988 regulatory determina	tion, the above described waste is: (Check
appropriate classification)	
☐ EXEMPT oilfield waste ☐ NO	N-EXEMPT oilfield waste which is non-
hazardo	ous by characteristic analysis or by product
identifi	• • •
and that nothing has been added to the e	xempt or non-exempt non-hazardous waste
defined above.	, accept
For NON-EVEMPT waste only the following	ing documentation is attached (check appropriate
items):	ing documentation is attached (check appropriate
MSDS Information	Other (description):
RCRA Hazardous Waste Analysi	
Chain of Custody	ixiowiedge of process tetter
Chain of Custody	
	,
Name (Original Signature):	Kunn
Trumo (Original Digitaturo).	Hames
Title: General Manager, Transportation	

Date: 4/30/02

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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:

- The above representative analyses can be used in lieu of individual sampling of each spill event until further notice.
- Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio E zos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR ATTROVAL TO ACCEST I	OLID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Ciniza Pipe Line
Verbal Approval Received: Yes No	5. Originating Site Star Lake Station
2. Management Facility Destination Giant Mid-Continent, Inc. Land Farm	6. Transporter Giant Transportation
3. Address of Facility Operator 111 CR 4990 Bloomfield, NM 87413	8. State NM
7. Location of Material (Street Address or ULSTR) Sec. 19 T21N R7W	
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by a one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessate in a not-hazardous and the Generator's certification of origin. No waste class approved 	essary chemical analysis to PROVE the sified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for transpo	rt.
BRIEF DESCRIPTION OF MATERIAL:	
Approximately 45 cubic yards of petroleum-impacted soi	1
	MAR 2002 RECEIVED OF CONTRACTOR OF CONTRACTO
Estimated Volume 45 cy Known Volume (to be entered by the operation)	tor at the end of the haul)cy
SIGNATURE And Management Facility Authorized Agent TITLE: Safety & En	v. Mgr. DATE: 2/27/02
TYPE OR PRINT NAME: Gary Winn TELEP	HONE NO. (505) 632-4077
(This space for State Use)	
APPROVED BY: Mater 9th TITLE: Environm	Engr DATE: 03/01/07
APPROVED BY: Math 974 TITLE: Snylvown	LIGEORY DATE: 03/05/02

1. Generator Name and Address:	2. Destination Name:
Ciniza Pipe Line	Giant Mid-Continent, Inc.
111 County Road 4990	Land Farm
Bloomfield, NM 87413	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Star Lake Station	Sec. 19 T21N R7W
Attach list of originating sites as appropriate	16 20 11 1 2 0 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4. Source and Description of Waste	
Petroleum leak from Star Lake St	ation tank MAR 2002
Petroleum-impacted soil from spi	
·	
	The state of the same
, Tim Kinney	representative for:
(Print Name)	
Giant Industries, Inc.	do hereby certify that
according to the Resource Conservation and Re 1988, regulatory determination, the above descr	covery Act (RCRA) and Environmental Protection Agency's July
according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON-	covery Act (RCRA) and Environmental Protection Agency's July
according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analys	covery Act (RCRA) and Environmental Protection Agency's July ibed waste is: (Check appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic
according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analys and that nothing has been added to the exempt MSDS Information RCRA Hazardous Waste Analys	covery Act (RCRA) and Environmental Protection Agency's July ibed waste is: (Check appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above. ocumentation is attached (check appropriate items): Other (description):
according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield wasteXX NON- analys and that nothing has been added to the exempt For NON-EXEMPT waste only the following d MSDS Information	covery Act (RCRA) and Environmental Protection Agency's July ibed waste is: (Check appropriate classification) EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above. locumentation is attached (check appropriate items): Other (description): XX Knowledge of process letter

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

CRUDE OIL PIPELINE SPILLS RE:

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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 These analyses are to be used in lieu of spill remediations. individual sampling of each spill event.

The above referenced request is approved with the following conditions:

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

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV 2040 South Pacheco, Santa Fe, NM 87505

. State of New Mexico Energy Minerals and Natural Resourc**RECEIVED**

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

Submit Original Plus 1 Copy to Appropriate District Office

Revised March 17, 1999

Form C-138

Environmental Bureau

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Giant Industries, Inc.
Verbal Approval Received: Yes 🔼 No 🗌 (Denny Foust)	5. Originating Site Star Lake Station
2. Management Facility Destination Giant Mid-Continent, Inc. Land Far	6. Transporter
3. Address of Facility Operator 111 County Road 4990 Bloomfield, NM 87413	8. State
7. Location of Material (Street Address or ULSTR) Sec. 19-T21N-R7W	
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by near material is not-hazardous and the Generator's certification of origin. No waste class approved	cessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transporters	ort.
A suction nipple failed due to metal fatigue on the suction Station, which resulted in a 20 barrel crude oil spill. Estimated Volume 58 cy Known Volume (to be entered by the operation)	JAN 2002 PRECIEIVED ONL CON DIV DIST. 3
SIGNATURE Waste Management Facility Authorized Agent TITLE: Safety & Env	7. Manager DATE: 12/17/01
TYPE OR PRINT NAME: Gary Winn TELEP	HONE NO. 505-632-4077
(This space for State Use)	
1 to the total	1.0

1	Generator Name and Address:	2. Destination Name:
\ ''	Constator Name and Address:	L. Description (faire:
	Giant Industries, Inc.	Giant Mid-Continent, Inc. Land Farm
-		
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
1	Star Lake Station	Coation 10 main par
1 .	Star Bake Station	Section 19-T21N-R7W
	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	:
	Fifty-eight total yards of crude oil-co Lake Station.	ontaminated soil from a spill at Star
<u> </u>		
I, _	Tim Kinney	representative for:
	(Print Name)	
	• • • • • • • • • • • • • • • • • • • •	de hereby andifu shas
	Giant Industries, Inc.	ry Act (RCRA) and Environmental Protection Agency's July,
	ording to the Resource Conservation and Recover 88, regulatory determination, the above described EXEMPT oilfield waste X NON-EXEMPT	ry Act (RCRA) and Environmental Protection Agency's July,
198	ording to the Resource Conservation and Recover 88, regulatory determination, the above described EXEMPT oilfield waste X NON-EXEMPT	waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification
198	ording to the Resource Conservation and Recover 88, regulatory determination, the above described of EXEMPT oilfield waste X NON-EXEMPT analysis or that nothing has been added to the exempt or not NON-EXEMPT waste only the following documents of the second control of the exempt or not	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):
198	Giant Industries, Inc. ording to the Resource Conservation and Recover 88, regulatory determination, the above described of the EXEMPT oilfield waste EXEMPT oilfield waste X NON-EXEMPT analysis or that nothing has been added to the exempt or not NON-EXEMPT waste only the following documents of the MSDS Information	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): Other (description):
198	ording to the Resource Conservation and Recover 88, regulatory determination, the above described of EXEMPT oilfield waste X NON-EXEMPT analysis or that nothing has been added to the exempt or not NON-EXEMPT waste only the following documents of the second control of the exempt or not	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. nentation is attached (check appropriate items):
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and For	Giant Industries, Inc. ording to the Resource Conservation and Recover 18, regulatory determination, the above described of the EXEMPT oilfield waste EXEMPT oilfield waste X NON-EXEMPT analysis or that nothing has been added to the exempt or not that nothing has been added to the exempt or not MSDS Information MSDS Information RCRA Hazardous Waste Analysis Chain of Custody The Coriginal Signature: General Manager	ry Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) IPT oilfield waste which is non-hazardous by characteristic by product identification n-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): Other (description):

τ

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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.

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- 1. The above representative analyses can be used in lieu of individual sampling of each spill event until further notice.
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Mr. Barry G. Holman July 29, 1998 Page 2—

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Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mex co Energy Minerals and Natur Resources Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Giant Pipeline Company
Verbal Approval Received: Yes 🔀 No 🗌 Denny Foust	5. Originating Site Aneth Gathering Station
2. Management Facility Destination Giant Mid-Continent, Inc. Land Farm	6. Transporter Giant Transportation
3. Address of Facility Operator 111 CR 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Sec. 32 T40S R23ESan Juan County, Utah	
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by ne material is not-hazardous and the Generator's certification of origin. No waste class approved All transporters must certify the wastes delivered are only those consigned for transporters.	cessary chemical analysis to PROVE the ssified hazardous by listing or testing will be
BRIEF DESCRIPTION OF MATERIAL:	`
100 cubic yards of petroleum-impacted soil from a safety which resulted in a crude oil spill	JAN 2002 JAN 2002 OHLOON. DIV DIST. 3
Estimated Volumecy Known Volume (to be entered by the oper	ator at the end of the haul)cy
SIGNATURE Waste Management Facility Authorized Agent TITLE: Safety & Env	vironmental MgrDATE: /-/7-02
TYPE OR PRINT NAME: Gary Winn TELEF	PHONE NO. (505) 632–4077
(This space for State Use)	,
	/ Engr DATE: 1/18/02
APPROVED BY: Mater Skh. TITLE: Environ men	W Godonst DATE: 02/11/02

1. Generator Name and Address:	2. Destination Name:
Giant Pipeline Company 111 CR 4990 Bloomfield, NM 87413	Giant Mid-Continent, Inc. Land Farm
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Aneth Gathering Station	Sec. 32 T40S R23E
Attach list of originating sites as appropriate	
4. Source and Description of Waste 100 cubic yards of petroleum-impact failure which resulted in a crude of	ted soil from a safety relief valve oil spill
(Print Name)	representative for:
Giant Industries, Inc. according to the Resource Conservation and	do hereby certify that Recovery Act (RCRA) and Environmental Protection Agency's July
Giant Industries, Inc. according to the Resource Conservation and Inc. 1988, regulatory determination, the above des EXEMPT oilfield waste	do hereby certify that Recovery Act (RCRA) and Environmental Protection Agency's July scribed waste is: (Check appropriate classification)
Giant Industries, Inc. according to the Resource Conservation and I 1988, regulatory determination, the above des EXEMPT oilfield waste NO ana	do hereby certify that Recovery Act (RCRA) and Environmental Protection Agency's July scribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic
Giant Industries, Inc. according to the Resource Conservation and Inc. 1988, regulatory determination, the above des EXEMPT oilfield waste	do hereby certify that Recovery Act (RCRA) and Environmental Protection Agency's July scribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic alysis or by product identification
Giant Industries, Inc. according to the Resource Conservation and I 1988, regulatory determination, the above des EXEMPT oilfield waste	do hereby certify tha Recovery Act (RCRA) and Environmental Protection Agency's July scribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic allysis or by product identification of or non-exempt non-hazardous waste defined above. J documentation is attached (check appropriate items): Other (description):
Giant Industries, Inc. according to the Resource Conservation and 1988, regulatory determination, the above des EXEMPT oilfield waste NO and that nothing has been added to the exempt of the MSDS Information MSDS Information RCRA Hazardous Waste Anala Chain of Custody	do hereby certify that Recovery Act (RCRA) and Environmental Protection Agency's July scribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic alysis or by product identification of or non-exempt non-hazardous waste defined above. Odocumentation is attached (check appropriate items): Other (description): Lysis XX Knowledge of process letter
Giant Industries, Inc. according to the Resource Conservation and Industries, Inc. according to the Resource Conservation and Industries, Inc. EXEMPT oilfield waste NO and and that nothing has been added to the exempter of NON-EXEMPT waste only the following MSDS Information RCRA Hazardous Waste Analysis.	do hereby certify that Recovery Act (RCRA) and Environmental Protection Agency's July scribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic alysis or by product identification of or non-exempt non-hazardous waste defined above. Odocumentation is attached (check appropriate items): Other (description): Lysis XX Knowledge of process letter



January 16, 2002

CERTIFIED MAIL #7001 0320 0001 1628 4669

Ms. Arlene Luther Navajo Nation Environmental Protection Agency P.O. Box 308 Window Rock, AZ 86515

Dear Ms. Luther:

On January 12, 2002 Giant experienced the accidental release of approximately 100 barrels of crude oil at the Giant Pipeline Station in Montezuma Creek, Utah (former ARCO facility). The oil was released from a tank into a containment area. Approximately 80 barrels of oil was recovered.

With this letter, Giant requests permission to proceed with remediation of impacted soil by removing it and transporting it to Giant's NMOCD approved landfarm located south of Bloomfield, New Mexico.

Please call me with any questions at (505) 632-4001.

Sincerely,

Tim Kinney

General Manager Pipeline

/dm

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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.

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

District I 1623 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III

1000 Rio Brazos Road, Aztec, NM 87410

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

RECEIVED Form C-138
Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

Environmental Bureau Oil Conservation Division

REOUEST FOR	APPROVAL	TO ACCEPT	SOLID	WASTE
KEOOFST LOK	ALLIOTAL	LUMCULL		

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE			
1. RCRA Exempt: Non-Exempt: X	4. Generator Giant Industries, Inc.		
Verbal Approval Received: Yes No	5. Originating Site Hospah Pump Station		
2. Management Facility Destination Giant Mid-Continent, Inc. Land Farm	6. Transporter Giant Transportation		
3. Address of Facility Operator 111 CR 4990 Bloomfield, NM. 87413	8. State New Mexico		
7. Location of Material (Street Address or ULSTR) Unit G, Sec. 1, T17N, R9W			
9. <u>Circle One</u> :			
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved 			
All transporters must certify the wastes delivered are only those consigned for transport.			
BRIEF DESCRIPTION OF MATERIAL: Petroleum- contaminated soil from Hospah Pump Station in McKinley County, NM.			



	CHECEIVED CH. CON. DIV DIST. 3
Estimated Volume 4 - 6 cy Known Volum	ne (to be entered by the operator at the end of the haul)cy
SIGNATURE Waste Management Facility Authorized Agent	TITLE: Safety/Environmental Mgr. DATE: 5/29/01
TYPE OR PRINT NAME: Gary Winn	TELEPHONE NO. (505) 632-4077
APPROVED BY: Mentyn 324.	TITLE: Geologist DATE: 6/19/01 TITLE: Environmental Geologist DATE: 7-2-01
• · · · · · · · · · · · · · · · · · · ·	

_	Comment Address:	2. Destination Name:
'	Generator Name and Address: Giant Industries, Inc.	Giant Mid-Continent, Inc.
i	111 CR 4990	Land Farm
	Bloomfield, NM. 87413	Hand Faim
	Discontinua, Mil. 0, 113	,
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Hospah Pump Station	Unit G, Sec.1, T17N, R9W
1	McKinley County, NM.	
<u></u>	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	ı
1	Petroleum- contaminated soil from Hosp	ah Pump Station in McKinley County, NM.
		·
	•	
l		
I,	Tim Kinney	representative for:
-	(Print Name)	
	Giant Industries, Inc.	do hereby certify that,
	-	ry Act (RCRA) and Environmental Protection Agency's July,
198	38, regulatory determination, the above described	Waste is: (Check appropriate classification)
		MPT oilfield waste which is non-hazardous by characteristic
	analysis or	by product identification
		to the second of the defense
and	that nothing has been added to the exempt or no	n-exempt non-nazardous waste defined above.
_	ALONE EXPERENT	
For	NON-EXEMPT waste only the following documents	
	MSDS Information	X Other (description):
	RCRA Hazardous Waste Analysis	
	Chain of Custody	
Nias	ma (Original Signatura)	_
IVAI	me (Original Signature):	
Titl	e:General Manager	
		TO THE POST OF THE PROPERTY OF THE POST OF
Dat	te: 5/29/0/	

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

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Mr. Barry G. Holman July 29, 1998 Page 2—

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Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

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Energy Marerals and Natural Resources

Oil tonservation Division 2-40 South Pacheco Stata Fe, NM 87505 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Giant Industries, Inc.
Verbal Approval Received: Yes X No	5. Originating Site Questar Cut Throat B
2. Management Facility Destination Giant Mid-Continent Land Farm	6. Transporter Giant Transportation
3. Address of Facility Operator Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Sec 26 T37N R19W	
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by material is not-hazardous and the Generator's certification of origin. No waste claapproved	ecessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for trans	port.
BRIEF DESCRIPTION OF MATERIAL: Petroleum contaminated soil from the Questar Cut Throat B B	
	MAY 2001 RECEIVED OILOON. DIV DIST. 3
Estimated Volume 4 cy Known Volume (to be entered by the ope	\mathcal{H}
SIGNATURE Waste Management Facility Authorized Agent TITLE: Safety/Envi	ronmental Mngr. DATE:
TYPE OR PRINT NAME: Gary Winn TELE	PHONE NO. <u>505–632–4077</u>
(This space for State Use)	,
APPROVED BY: Denny terry TITLE: Geolo	915 DATE: 5/21/00
ADDROVED BY MAY STATE STATE	11 Col of DATE 5/24/2

1	Generator Name and Address:	2. Destination Name:
''		1
	Giant Industries, Inc.	Giant Mid-Continent, Inc. Land Farm
·		·
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Questar Cut Throat B Tank Battery	Sec 26 T37N R19W
	Dolores County, Colorado	500 20 25/11 312511
'	. .	
L	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	Ł
		uestar Cut Throat B Battery in Dolores County,
	Colorado.	•
l		
L		
١, _	Tim Kinney	representative for:
	(Print Name)	•
G.	ant Industries, Inc.	do hereby certify that
ace		ry Act (RCRA) and Environmental Protection Agency's July
ace		ry Act (RCRA) and Environmental Protection Agency's July
ace	eording to the Resource Conservation and Recove 88, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE	ry Act (RCRA) and Environmental Protection Agency's July
acc 19	eording to the Resource Conservation and Recove 88, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE	waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification
acc 19	cording to the Resource Conservation and Recove 88, regulatory determination, the above described EXEMPT oilfield waste X NON-EXEMPT analysis of	waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above.
acc 19	eording to the Resource Conservation and Recover B8, regulatory determination, the above described EXEMPT oilfield waste X NON-EXEMPT analysis of that nothing has been added to the exempt or not NON-EXEMPT waste only the following document of MSDS Information RCRA Hazardous Waste Analysis	waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification nn-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
and For	EXEMPT oilfield waste I that nothing has been added to the exempt or note that makes a constrained waste analysis of the constraint of th	waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification nn-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
and For	eording to the Resource Conservation and Recover B8, regulatory determination, the above described EXEMPT oilfield waste X NON-EXEMPT analysis of that nothing has been added to the exempt or not NON-EXEMPT waste only the following document of MSDS Information RCRA Hazardous Waste Analysis	waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification nn-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
and For	EXEMPT oilfield waste I that nothing has been added to the exempt or note that makes a constrained waste analysis of the constraint of th	waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic r by product identification nn-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
and For	Exempt oilfield waste EXEMPT oilfield waste I that nothing has been added to the exempt or nothing MSDS Information MSDS Information RCRA Hazardous Waste Analysis Chain of Custody MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. 2-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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:

- The above representative analyses can be used in lieu of individual sampling of each spill event until further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 MAR 2001 Revised March 17, 1999

RECEIVED Submit Original Plus 1 Copy
to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: XX	4. Generator Giant Transportation
Verbal Approval Received: Yes No	5. Originating Site Colorado
2. Management Facility Destination Giant Mid-Continent Landfarm	6. Transporter Giant Transportation
3. Address of Facility Operator 111 CR 4990 Bloomfield,	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Giant Mid-Continent Landfarm	
 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. B) All requests for approval to accept non-exempt wastes must be accompanied by no material is not-hazardous and the Generator's certification of origin. No waste cla approved (Knowledge of Process Attached) All transporters must certify the wastes delivered are only those consigned for transporters 	ecessary chemical analysis to PROVE the ssified hazardous by listing or testing will be
BRIEF DESCRIPTION OF MATERIAL: 16 total yards of petroleum truck/trailer rollover. The product was light natural. The Colorado State Patrol Hazardous Material Section g the contaminated soil from Colorado to New Mexico. The number is listed below.	contaminated soil from ave us permission to remove
Blayne Smith Trooper (970) 564-1246	
Estimated Volumecy Known Volume (to be entered by the open	rator at the end of the haul)cy
Waste Management Facility Authorized Agent	al Manger DATE: 3/19/01
TYPE OR PRINT NAME: Barry Holman TELEI	PHONE NO. (505) 632-4168
APPROVED BY: Deny Tent TITLE: Geolog APPROVED BY TITLE: Spuits have	15 DATE: 3/20/0/



1. Generator Name and Address:	2. Destination Name: Giant Mid Continent Landfarm
Giant Transportation 111 CR 4990	Grant Mrd Continent Landrain .
Bloomfield, New Mexico 87413	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Colorado	Giant Mid Continent Landfarm
	·
Attach list of originating sites as appropriate	
4. Source and Description of Waste 16 Total yards of petroleum contami product was light natural. The rele Phone number is (970) 564-1246	nated soil from Truck/trailer rollover. The ase of soil was given by Trooper Blayne Smith,
I, Gary Winn (Print Name)	representative for:
Giant Transportation	do hereby certify that,
according to the Resource Conservation and Rec 1988, regulatory determination, the above descri	covery Act (RCRA) and Environmental Protection Agency's July, bed waste is: (Check appropriate classification)
	EXEMPT oilfield waste which is non-hazardous by characteristic is or by product identification
and that nothing has been added to the exempt o	or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following do MSDS Information	ocumentation is attached (check appropriate items): XX Other (description):
RCRA Hazardous Waste Analysi	e
Chain of Custody	Knowledge of Process Attached
Name (Original Signature):	
Title: Safety and Environmental Manager	

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413



RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

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- 3. Giant 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.

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Giant Industries, Inc
Verbal Approval Received: Yes 2/20/01 NG	5. Originating Site Apache Station
2. Management Facility Destination $J-16-25W-12W$ Giant Mid-Continent, Inc.	6. Transporter Giant Industries, Inc
3. Address of Facility Operator 111 CR 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Apache Station	
9. Circle One:	
one certificate per job. B) All requests for approval to accept non-exempt wastes must be accompanied by ne material is not-hazardous and the Generator's certification of origin. No waste class approved	ssified hazardous by listing or testing will be
All transporters must certify the wastes delivered are only those consigned for transporters	ort.
BRIEF DESCRIPTION OF MATERIAL:	
Crude oil-contaminated soil from seal pot spill at Apache S	FEB 3001 FEB
Estimated Volume 22 cy Known Volume (to be entered by the oper	
SIGNATURE Safety Win TITLE: Safety Ex	vironmental DATE: 2/20/01
TYPE OR PRINT NAME: GARY WINN TELEP	HONE NO. 505 632-4077
APPROVED BY: Deny Tour TITLE: Geolog	177/m
APPROVED BY: Mantage O'Mil TITLE: 500 Washing	DATE: $\frac{2/22/04}{2/36}$

<u> </u>	Generator Name and Address:	2. Destination Name:
Ι''	Opiniator Name and Address:	
1	Giant Industries, Inc.	Giant Mid-Continent, Inc. Landfaum
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
		,
	Apache Station	Apache Station
'		I-33-25N-6W
	Attach list of originating sites as appropriate	•
4.	Source and Description of Waste	:
		· ·
		·
	Crude oil-contaminated soil from seal	pot spill
	Tim Vinner	
1, _	Tim Kinney	representative for:
1, _	(Print Name)	
l, _	(Print Name) Giant Industries, Inc.	do hereby certify that,
	(Print Name) Giant Industries, Inc.	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July,
	(Print Name) Giant Industries, Inc. cording to the Resource Conservation and Recove 38, regulatory determination, the above described	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
	(Print Name) Giant Industries. Inc. cording to the Resource Conservation and Recover 38, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic
	(Print Name) Giant Industries. Inc. cording to the Resource Conservation and Recover 38, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
198	(Print Name) Giant Industries. Inc. cording to the Resource Conservation and Recover 38, regulatory determination, the above described EXEMPT oilfield waste X NON-EXE	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification
198	(Print Name) Giant Industries. Inc. cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield waste	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above.
198	(Print Name) Giant Industries, Inc. cording to the Resource Conservation and Recover 38, regulatory determination, the above described EXEMPT oilfield waste	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
198	(Print Name) Giant Industries, Inc. cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield waste	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above.
198	(Print Name) Giant Industries, Inc. cording to the Resource Conservation and Recover 38, regulatory determination, the above described EXEMPT oilfield waste	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
198	Giant Industries. Inc. cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield waste NON-EXE analysis o I that nothing has been added to the exempt or no NON-EXEMPT waste only the following documents MSDS Information RCRA Hazardous Waste Analysis	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
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and For	Giant Industries. Inc. cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield waste EXEMPT oilfield waste X NON-EXEMPT analysis of I that nothing has been added to the exempt or not NON-EXEMPT waste only the following document of the management of the control of the cont	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
and For	(Print Name) Giant Industries, Inc. Fording to the Resource Conservation and Recover 38, regulatory determination, the above described EXEMPT oilfield waste EXEMPT oilfield waste X NON-EXEMPT analysis of that nothing has been added to the exempt or not NON-EXEMPT waste only the following document of MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):
and For	Giant Industries. Inc. cording to the Resource Conservation and Recove 38, regulatory determination, the above described EXEMPT oilfield waste EXEMPT oilfield waste I that nothing has been added to the exempt or not NON-EXEMPT waste only the following document of the manager MSDS Information RCRA Hazardous Waste Analysis Chain of Custody The General Manager	do hereby certify that, ery Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic or by product identification on-exempt non-hazardous waste defined above. mentation is attached (check appropriate items):

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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.

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

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District 1
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87504

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87504

Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR	APPROVAL	TO ACCEPT	SOLID	WASTE
			T	

REQUEST FOR APPROVAL TO ACCEPT	SULID WASTE			
1. RCRA Exempt: Non-Exempt: XX	4. Generator Giant Refinery Ciniza			
Verbal Approval Received: Yes No XX	5. Originating Site Ciniza Refining			
2. Management Facility Destination Giant Mid-Continent Landfarm	6. Transporter Rinchem			
3. Address of Facility Operator #50 CR 4990 Bloomfield, NM 87413	8. State New Mexico			
7. Location of Material (Street Address or ULSTR) Giant Refinery 1-40 Exit 39	Jamestown New Mexico			
9. <u>Circle One</u> :				
 A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved 				
All transporters must certify the wastes delivered are only those consigned for transporters	ort.			
BRIEF DESCRIPTION OF MATERIAL:				
Vacuum Tower crude bottoms including contaminated soil the vacuum tower crude bottoms. JAN 2001 RECEIVED OL CON. DIV DIST. 3 Estimated Volume 120				
Estimated Volumecy Known Volume (to be entered by the oper	ator at the end of the haul)cy			
SIGNATURE SIGNATURE Waste Management Facility Authorized Agent	al Manager DATE: 1/24/01			
TYPE OR PRINT NAME: Barry Holman TELEP	HONE NO			
APPROVED BY: Months and TITLE: Environm				

	Bookleader Name
In Monetator Metro sum Additions:	2. Description Name: Continent Lexistern
Blast Refinery - White	2. Destination Name: Start Lartfaire
1. Generator Name and Address: Blast Refining - Ciniza R+3 Box 9	• 0
Gallup MM 87301	
	Location of the Waste (Street address &/or ULSTR):
Ciniza Referrery, Bla FITS BOX I 40 @ Ex	Location of the Waste (Street address &/or ULSTR): It Kapening Co + 39 emestour
Attach list of originating sites so appropriate	
4. Source and Description of Waste	LA RESTANCE LA RELIER
4. Source and Description of Waste Valuum fower crude Stil from spill clian in	b. hou one, preceding.
The grow spece care	<i>'</i> /
	1
ľ	
1. Dorinda Mancini	rapresentative for:
Beant Referring Co Cerusa	Pade 11/19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
party frenence co- cinio	do hereby certify that,
according to the Besource Conservation and Recove	
	ry Act (RCRA) and Environmental Protection Agency's July.
1988, regulatory determination, the above described	Maste is: (Check oppophere desellection)
1988, regulatory determination, the above described	waste is: (Check appropriate desalification)
1986, regulatory determination, the above described EXEMPT cilifield waste X NON-EXE	waste is: (Check eppophere describention) IPT cliffield waste which is non-hazardous by characteristic
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1988, regulatory determination, the above described EXEMPT cilifield waste analysis of analysis of that nothing has been added to the exempt or not analysis of the NON-EXEMPT waste only the following documents of the management of the exempt of the following documents of the exempt of the exem	waste is: (Check epropriete description) APT cliffield waste which is non-hazardous by characteristic by product identification



January 23, 2001

Client:

Giant Refining Company

Address:

Route 3, Box 7 Gallup, NM 87301

Date Collected:

1/12/01

Date Received:

1/15/01

Block Wax

Project #: Client ID #:

Laboratory ID #:

Block Wax 011201 010180-01

Matrix:

Solid

Extraction Method:

1311

Date of Analysis:

1/22/01

TCLP Metals

	Detection Limit	Results	Regulatory Level
<u>Parameter</u>	(me/l)	(mg/l)	<u>(mg/l)</u>
Arsenic	0.010	<0.01	5.0
Barium	1.0	1.7	100.0
Cadmium	0.0050	<0.005	1.0
Clyomium	0.050	<0.05	S.O
Lead	0.10	<0.1	5.0
Mercury	0.0020	<0.002	0.20
Scienium	0.020	<0.02	1.0
Silver	0,010	<0.01	5.0

Laboratory Manager, Bassam Youssef



2

January 23, 2001

Client:

Giant Refining Company

Address:

Route 3, Box 7

Gallup, NM 87301

Date Collected:

1/12/01

Date Received:

1/15/01

Project #:

Block Wax

Client ID #:

Block Wax 011201

Laboratory ID #:

010180-01

Matrix:

Solid

Extraction Method:

1311

Date of Analysis:

1/18/01

TCLP Volatiles

	Detection Limit	Results	Regulatory Level
Parameter	(mg/L)	(me/L)	(me/L)
1,1-Dichloroethene	0.10	<0.1	0.70
1,2-Dichloroethane	0.10	<0.1	0,50
2-Butanone (MEK)	2.0	<2.0	200.0
Ronzene	0.10	<0.1	0.50
Carbon tetrachloride	0.10	<0.1	0.50
Chlorobenzene	0.10	<0.1	100.0
Chloroform	0.10	<0.1	6.0
Tetrachloroethene	0.10	<0.1	0,70
Trichloroetheno	0.10	<0.1	0.50
Vinyl Chloride	0.20	<0.2	0.20

Laboratory Manager: Bassam Youssel

TOU 15 'PR 18:59AM GIAN TEFINING C



March 10, 1999

SPECIFICATION

BLACK WAX VTB (BW-VTB)

FROPERTY	TEST METROD	UNITE	TYPICAL
API GRAVITY	ASTM D-287		20.0
VISCOSITY AT 210 F	astn das	Cat.	190
Flash Point	ARTM D.93	Deg. F	570
POUR POINT	astm D-97	Deg. T	115
Conceal Point	AFTM D-936	Dog. P	(36
aniline podit	value d-eli	Deg. F	266
SULFUR	ASTM D-4394	W7.%	0.190
SCORIM	*	PPM	•
VANADIUM	44	FFM	2.5 ,
NITROGEN'	astim D-3762	wt.	0.3

DEMTED 1058 + CUT - VEO IS REMANDS

REC'S FROM BUL FOR 4/23/95

35 Bourn (100 West. P.O. Box 870288, Wrods Grass, LT A4087 • 801-208-3211 • Fax 801-208-1112

District.1
1625 N. French Dr., 11obbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87504

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87504 Form C-138 Revised March 17, 1999

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT S	SOLID WASTE		
1. RCRA Exempt: Non-Exempt: XX	4. Generator Giant Refinery Ciniza		
Verbal Approval Received: Yes No	5. Originating Site Ciniza Refining		
2. Management Facility Destination Giant Mid-Continent Landfarm	6. Transporter Rinchem		
3. Address of Facility Operator #50 CR 4990 Bloomfield, NM 87413	8. State New Mexico		
7. Location of Material (Street Address or ULSTR) Giant Refinery 1-40 Exit 39	Jamestown 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 transpo	ort.		
BRIEF DESCRIPTION OF MATERIAL:			
Vacuum Tower crude bottoms including contaminated soil from a spill involving the vacuum tower crude bottoms.			
E ALC	N 2001		
	эт. з		
in the second of	6.8 L 3.2		
Estimated Volume 120 cy Known Volume (to be entered by the operation)	ator at the end of the haul)cy		
Waste Management Facility Authorized Agent	al Manager DATE: 1/24/01		
TYPE OR PRINT NAME: Barry Holman TELEP	PHONE NO. 505-632-4168		
(This space for State Use) APPROVED BY: TITLE:			
APPROVED BY: Derry Fair TITLE: Geolog			
APPROVED BY: 1 1 CO 1206	715/ DATE CAPERALLY		

This material originated at a refinery in utah. I regard it is a product not a waste stream

1. Generator Name and Address:	2. Destination Name: Landfarm Landfarm
Glast Refining - Ciniza R+3 Box 7	the state of the s
Gallup, MM 87301	
3. Originating Site (name): Six Six	Location of the Waste (Street address &/or ULSTR):
Ciniza Referency, Bea	nt Kefining Co
THE BOX I 40 @ EX	t 39 bernestown
Attach list of originating sites as appropriate 4. Source and Description of Waste VALUUM FOWER CHICLE Still from spill clian in	earnes for the
4. Source and Description of Waste	e entrones including
Vacuum rower crime	to the state of th
god from spill clan	7
	'
1. Dorinda Mancini	
	representative for:
Beant Referring Co Ciniza	
1988, regulatory determination, the above described	y Act (RCRA) and Environmental Protection Agency's July, waste is: (Check appropriate classification)
EXEMPT cilfield waste X NON-EXEM	IPT cilfield waste which is non-hexardous by characteristic
	by product identification
and that nothing has been added to the exempt or no	
and that nothing has been added to the exempt or no	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following docum	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documents on the following documents of the following documents on the following documents of the following document	n-exampt non-hazardous waste defined above. nentation is attached (check appropriate items): X Other (description): Rusw-led ge
For NON-EXEMPT waste only the following documents of the contraction o	n-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following documents on the following documents of the following documents on the following documents on the following documents of the following document	n-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): X Other (description): Rusw-le light Affraces
For NON-EXEMPT waste only the following documents on the following documents of the following documents on the following documents of the following documents on the following documents of the following document	n-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): X Other (description): Rusw-le light Affraces
For NON-EXEMPT waste only the following documents on the following documents of the following documents on the following documents of the following documents on the following documents of the following document	n-exampt non-hazardous waste defined above. nentation is attached (check appropriate items): X Other (description): Rusw-led ge
For NON-EXEMPT waste only the following documents on the following documents of the following documents on the following documents on the following documents of the following document	n-exempt non-hazardous waste defined above. mentation is attached (check appropriate items): X Other (description): Rusw-le light Affraces



January 23, 2001

Client:

Giant Refining Company

Address:

Route 3, Box 7

Gallup, NM 87301

Date Collected:

1/12/01

Date Received:

1/15/01

Project #:

Block Wax

Client ID #:

Block Wax 011201

Laboratory ID #:

010180-01

Matrix:

Solid

Extraction Method:

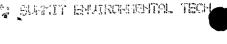
1311

Date of Analysis:

1/22/01

TCLP Mctals

<u>Parameter</u>	<u>Detection Limit</u> (mg/l)	Results (mg/l)	<u>Regulatory Level</u> (mg/l)
•			
Arsenic	0.010	<0.01	5.0
Barium	1.0	1.7	100.0
Cadmium	0.0050	<0.005	1.0
Chromium	0.050	<0.05	5.0
Lead	0.10	<0.1	5.0
Mercury	0.0020	<0.002	0.20
Scienium	0.020	<0.02	1.0
Silver	0.010	<0.01	5.0





January 23, 2001

Client:

Giant Refining Company

Address:

Route 3, Box 7

Gallup, NM 87301

Date Collected:

1/12/01

Date Réceived:

1/15/01

Project #:

Block Wax

Client ID #:

Block Wax 011201

Laboratory ID #:

010180-01

Matrix:

Solid

Extraction Method:

1311

Date of Analysis:

1/18/01

TCLP Volatiles

	Detection Limit	Results	Regulatory Level
<u>Parameter</u>	(mg/L)	(me/L)	(mg/L)
1,1-Dichloroethene	0.10	<0.1	9.70
1,2-Dichloroethane	0.10	<0.1	0.50
2-Butanone (MEK)	2.0	<2.0	200.0
Benzene	0.10	<0.1	0.50
Carbon tetrachloride	0.10	<0.1	0.50
Chlorobenzene	0.10	<0.1	100.0
Chloroform	0.10	<0.1	6.0
Tetrachloroethene	0.10	<0.1	0,70
Trichloroetheno	0.10	<0.1	0.50
Vinyl Chloride	0.20	<0.2	0.20

Laboratory Manager: Bassam Youssel



March 10, 1999

SPECIFICATION

BLACK WAX VTB (BW-VTB)

•		•	•
PROPERTY	TEST METROR	LINITS	TYPICAL
api grayity	ASTM D-287		20.0
VISCOSITY AT 210 F	astm d-441	Crt.	190
FLASH POINT	ASTM D-93	Deg F	570
POUR POINT	astm D-97	Deg. T	115
Congral Point	ARTM D-934	Deg. 2	(30
aniline point	ASTRE D-611	Dog. F	266
SULFUR	ASTM D-4294	W7.%	0.190
SCOUNG	*	PPM	•
VANADIUM	AA	PPM	2.5
NTROGEN	ASTM D-9762	w.	0.3

Dented 1058 + Cut - Veo is remained 500 B/D available

REC'D FROM BUL FINK 4/23/95

35 BOURT (100 West, P.O. BOX 870298, WOODS GROSS, LIT 84087 . SOI-398-3311 . FAX 601-398-1112

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: XX	4. Generator Giant Industries, Inc.
Verbal Approval Received: Yes XX No	5. Originating Site Giant Bloomfield Station
2. Management Facility Destination Giant Mid-Continent Landfarm	6. Transporter Phillip Environmental
111 CR 4990 3. Address of Facility Operator Bloomfield, NM 87413	8. State NM
7. Location of Material (Street Address or ULSTR) Southwest Corner of Blanco Boulevard & Fifth ST.	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by one certificate per job. All requests for approval to accept non-exempt wastes must be accompanied by ne material is not-hazardous and the Generator's certification of origin. No waste class approved	cessary chemical analysis to PROVE the
All transporters must certify the wastes delivered are only those consigned for transporters	ort.
Estimated Volume 2 - 4 to 2 cy Known Volume (to be entered by the oper	JUL 2000 RECEIVED ON
Waste Management Facility Authorized Agent	Unager DATE: 7/28/00
TYPE OR PRINT NAME: Tim Kinney TELER	PHONE NO
(This space for State Use) APPROVED BY: Deny Title: Oco/o	9 15 DATE: 7/28/00
APPROVED BY: Martin O Karl TITLE: Environment	1.1600051 DATE 8/2/00

1	Generator Name and Address:	2. Destination Name:
١''	- · · · · · · · · · · · · · · · · · · ·	Giant Mid-Continent Landfarm
	Giant Bloomfield Crude Station	Giant Mid-continent Landiarii
	111 CR 4990	
	Bloomfield, NM 87413	
3.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Bloomfield Crude Station	Southwest corner of Blanco Boulevard and
	Bloomfield NM 87413	Fifth ST.
1		Bloomfield, NM 87413
	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	
		site which contained a 55,000 BBL storage tank.
		will be removed to the Giant Mid-Continent
	Landfarm.	Will be removed to some drawns in a semicinent
	· ·	
1		
	Barry Holman	
ı.	Sair i garage	representative for:
۱, _	man Name	representative for:
', _	Giant Industries (Print Name)	do hereby certify that,
	Giant Industries (Print Name) ording to the Resource Conservation and Recov	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
	Giant Industries (Print Name)	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July,
	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic
	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
198	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above described EXEMPT oilfield waste XX NON-EXITATION	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic
198	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe EXEMPT oilfield waste XX NON-EXI analysis that nothing has been added to the exempt or a	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above.
198	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above described EXEMPT oilfield waste EXEMPT oilfield waste That nothing has been added to the exempt or a NON-EXEMPT waste only the following documents.	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification
198	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe EXEMPT oilfield waste XX NON-EXI analysis that nothing has been added to the exempt or a	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):
198	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above described EXEMPT oilfield waste EXEMPT oilfield waste That nothing has been added to the exempt or a NON-EXEMPT waste only the following documents.	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items):
198	Giant Industries (Print Name) ording to the Resource Conservation and Records, regulatory determination, the above describe EXEMPT oilfield waste XX NON-EXEMPT or analysis that nothing has been added to the exempt or a NON-EXEMPT waste only the following documents.	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):
198	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe EXEMPT oilfield waste XX NON-EXI analysis that nothing has been added to the exempt or a NON-EXEMPT waste only the following document of the RCRA Hazardous Waste Analysis	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):
198	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe EXEMPT oilfield waste XX NON-EXI analysis that nothing has been added to the exempt or a NON-EXEMPT waste only the following document of the RCRA Hazardous Waste Analysis	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):
and For	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above described EXEMPT oilfield waste EXEMPT oilfield waste ANON-EXEMPT waste only the following document of the exempt or a second control of the exempt of the exempt or a second control of the exempt or a second control of the exempt or a second control of the exempt of	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):
and For	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe EXEMPT oilfield waste XX NON-EXI analysis that nothing has been added to the exempt or a NON-EXEMPT waste only the following document of the RCRA Hazardous Waste Analysis	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):
and For	Giant Industries (Print Name) ording to the Resource Conservation and Records, regulatory determination, the above describe EXEMPT oilfield waste EXEMPT oilfield waste ANON-EXEMPT waste and the exempt or a second second waste analysis. NON-EXEMPT waste only the following document of the exempt or a second waste Analysis. Chain of Custody Original Signature):	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):
and For	Giant Industries (Print Name) ording to the Resource Conservation and Recovers, regulatory determination, the above describe EXEMPT oilfield waste EXEMPT oilfield waste XX NON-EXIMATE Analysis that nothing has been added to the exempt or a MSDS Information MSDS Information RCRA Hazardous Waste Analysis Chain of Custody The Coriginal Signature): Environmental Manager	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):
and For	Giant Industries (Print Name) ording to the Resource Conservation and Recove 18, regulatory determination, the above described EXEMPT oilfield waste XX NON-EXI analysis that nothing has been added to the exempt or a NON-EXEMPT waste only the following document of the RCRA Hazardous Waste Analysis Chain of Custody ne (Original Signature): XX NON-EXEMPT waste only the following document of the exempt or a new 19. The control of the exempt of the exempt or a new 20. The control of the exempt of the exempt or a new 20. The control of the exempt	do hereby certify that, very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. umentation is attached (check appropriate items): XX Other (description):

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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 further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSO Governor Jennifer A. Salisbury Cabinet Secretary Lori Wrotenbery
Director
Oil Conservation Division

May 19, 2000

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO: 5051-3112</u>

Mr. Timothy A. Kinney
Giant Industries Arizona, Inc.
111 County Rd. 4990
Bloomfield, New Mexico 87413

RE: BLOOMFIELD CRUDE STATION

Dear Mr. Kinney:

The New Mexico Oil Conservation Division (OCD) has reviewed Giant Industries Arizona, Inc.'s (Giant) January 2000 "COMPREHENSIVE REPORT FOR THE BLOOMFIELD CRUDE STATION, BLOOMFIELD, NEW MEXICO". This document contains the results of Giant's past and recent investigations of soil and ground water contamination related to the Bloomfield Crude Station in Bloomfield New Mexico. The document also contains Giant's proposed work plan for soil and ground water remediation and monitoring.

The above referenced work plan is **approved** with the following conditions:

- 1. Prior to commencement of the excavation activities, Giant shall submit to the OCD for approval a site health and safety plan for protection of the public from vapor emissions generated during excavation activities.
- 2. Giant shall take confirmation samples of soils from the base and walls of the excavated areas to show that the soils are remediated to the OCD's benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbon (TPH) guidance levels.

 Confirmation soil samples shall also be taken for analysis of chloride concentrations.
- 3. All soil and ground water samples shall be obtained and analyzed using EPA approved methods and quality assurance /quality control (QA/QC) procedures.
- 4. In addition to the proposed new monitoring well MW-6, Giant shall install a ground water monitoring well at the location show on Figure 4 (attached) in order to determine the lateral extent of ground water contamination.

Mr. Timothy A. Kinney May 19, 2000 Page 2

- 5. Giant shall complete all monitor wells as follows:
 - a. At least 15 feet of well screen shall be placed across the water table interface with at least 5 feet of the well screen placed above the water table and 10 feet of the well screen below the water table.
 - b. An appropriately sized gravel pack shall be set in the annulus around the well screen from the bottom of the hole to 2-3 feet above the top of the well screen.
 - c. A 2-3 foot bentonite plug shall be placed above the gravel pack.
 - d. The remainder of the hole shall be grouted to the surface with cement containing 3-5% bentonite.
 - e. A concrete pad and locking well cover shall be placed around the well at the surface.
 - f. The well shall be developed after construction using EPA approved procedures.
- 6. No less than 24 hours after the wells are developed, ground water from all monitor new wells shall be purged, sampled and analyzed for concentrations of benzene, toluene, ethylbenzene, xylene, total dissolved solids (TDS) and major cations and anions using EPA approved methods and quality assurance/quality control (QA/QC) procedures.
- 7. Semi-annual monitoring of ground water from the site monitoring wells shall include analysis for concentrations of major cations and anions and TDS.
- 8. Giant shall submit a comprehensive report on all site investigations to the OCD by August 31, 2000. The report shall be submitted to the OCD Santa Fe Office with a copy provided to the OCD Aztec District Office. The report shall contain the following information:
 - a. A comprehensive description of all investigation and remediation activities including conclusions and recommendations.
 - b. A site map showing the location of all spills, tanks, pipelines, excavations, monitor wells, soil borings and any other pertinent site features.
 - c. A ground water potentiometric map created using the water table elevation from each monitor well which shows the direction and magnitude of the hydraulic gradient.

Mr. Timothy A. Kinney May 19, 2000 Page 3

- d. Summary tables of all past and present soil and ground water quality sampling results and copies of all recent laboratory analytical data sheets and associated quality assurance/quality control (QA/QC) data.
- e. The disposition of all wastes generated.
- 9. Giant shall notify the OCD at least 48 hours in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not relieve Giant of liability if the work plan fails to adequately remediate contamination related to Giants activities or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve Giant of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson

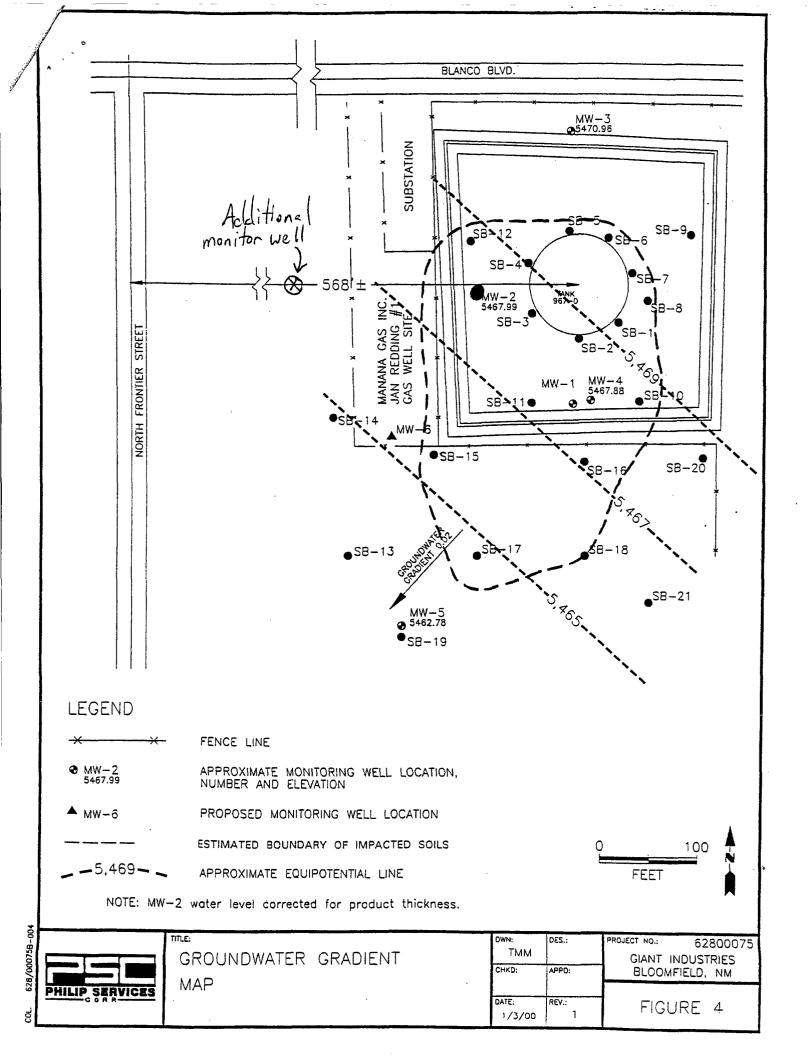
Hydrologist

Environmental Bureau

xc:

Denny Foust, OCD Aztec District Office

Martin J. Nee, Philip Services Corporation



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

APPROVED BY: ///

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 MAR 1 6 2000

RECEIVED

Form C-138 Revised March 17, 1999

Environmental Bureau
Oil Conservation Division

TITLE: Environment | Grologist DATE: 3/1/100

Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. RCRA Exempt: Non-Exempt: 文	4. Generator Giant Ciniza Pipeline	
Verbal Approval Received: Yes No	5. Originating SiteS22,T19N,R15W Standing Rock Station	
Giant Mid-Continent Landfarm 2. Management Facility Destination S16, T25N, R16W	6. Transporter Giant Transportation	
3. Address of Facility Operator 111 CR 4990 Bloomfield, NM	8. State New Mexico	
7. Location of Material (Street Address or ULSTR) Standing Rock Station S22, T19N, R15W	McKinley County New Mexico	
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved		
All transporters must certify the wastes delivered are only those consigned for transport	<u>.</u>	
Estimated Volume 75 to 100 cy Known Volume (to be entered by the operat	tor at the end of the haul) cy	
SIGNATURE Waste Management Facility Authorized Agent TITLE: Environmenta	1 Manager DATE: 3/15/00	
TYPE OR PRINT NAME: Barry Holman TELEPI	HONE NO. 505-632-4077	
(This space for State Use) APPROVED BY: Levy Four TITLE: CO 69	(5) DATE 3/15/02	

CERTIFICATE OF WASTE STATUS

	Generator Name and Address:	2. Destination Name:
	Ciniza Pipeline (Giant)	Giant Mid-Continent
	111 CR 4990	T25N,R16W,Sec.16
	Bloomfield, NM 87413	New Mexico
Э.	Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Standing Rock Station	Same as Originating
	S22,T19N,R15W	
	McKinley County New Mexico	
	Attach list of originating sites as appropriate	
4.	Source and Description of Waste	
	75 to 100 Yards of contaminated s	oil from spill that occured in 1995.
		•
	•	·
	Roy Armenta	
<i>,</i> _	tal a	representative for:
	Giant Ciniza Pipeline Name)	do hereby certify that
		Recovery Act (RCRA) and Environmental Protection Agency's July
	coong to the mesocice conservation and i	16COAGIA VCF (IICIA) GIVI FILLINIIGIIIGII FILLICUIII VAGIVA 2 CAI
	38, regulatory determination, the above des	•
	38, regulatory determination, the above des	cribed waste is: (Check appropriate classification)
	EXEMPT oilfield waste XX NOI	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic
	EXEMPT oilfield waste XX NOI	cribed waste is: (Check appropriate classification)
198	EXEMPT oilfield waste XX NOI ana	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification
198	EXEMPT oilfield waste XX NOI ana	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic
198 and	EXEMPT oilfield waste XX NOI ana that nothing has been added to the exemp	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. I documentation is attached (check appropriate items):
198 and	EXEMPT oilfield waste XX NOI ana that nothing has been added to the exempt NON-EXEMPT waste only the following MSDS Information	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. I documentation is attached (check appropriate items): Other (description):
198	that nothing has been added to the exemption NON-EXEMPT waste only the following MSDS Information XX RCRA Hazardous Waste Analysis	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. I documentation is attached (check appropriate items): Other (description):
198 and	EXEMPT oilfield waste XX NOI ana that nothing has been added to the exempt NON-EXEMPT waste only the following MSDS Information	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. I documentation is attached (check appropriate items): Other (description):
198 and	that nothing has been added to the exemption NON-EXEMPT waste only the following MSDS Information XX RCRA Hazardous Waste Analysis	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. I documentation is attached (check appropriate items): Other (description):
198 and	that nothing has been added to the exemption NON-EXEMPT waste only the following MSDS Information XX RCRA Hazardous Waste Analysis	N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. I documentation is attached (check appropriate items): Other (description):
198	that nothing has been added to the exempton NON-EXEMPT waste only the following MSDS Information XX RCRA Hazardous Waste Analychain of Custody	N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. I documentation is attached (check appropriate items): Other (description):
and For	that nothing has been added to the exemption NON-EXEMPT waste only the following MSDS Information XX RCRA Hazardous Waste Analysis	cribed waste is: (Check appropriate classification) N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. I documentation is attached (check appropriate items): Other (description):
and For	EXEMPT oilfield waste AND ana that nothing has been added to the exempt NON-EXEMPT waste only the following MSDS Information XX RCRA Hazardous Waste Anal Chain of Custody me (Original Signature):	N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. documentation is attached (check appropriate items): Other (description):
and For	that nothing has been added to the exempt NON-EXEMPT waste only the following MSDS Information XX RCRA Hazardous Waste Anal Chain of Custody me (Original Signature): e: Pipeline Manager March 15, 2000	N-EXEMPT oilfield waste which is non-hazardous by characteristic lysis or by product identification at or non-exempt non-hazardous waste defined above. documentation is attached (check appropriate items): Other (description):

Hoy s



Crude Gathering Operations

5764 US Highway 64 Farmington, New Mexico 87401

505 632-8024 632-8006

December 21, 1995

Ms. Michelle Morris Environmental Specialist Navajo Nation Environmental Protection Agency P. O. Box 339 Window Rock, AZ 86515

Dear Ms. Morris:

Enclosed is a copy of the lab analysis of the soil samples taken from Standing Rock Station on September 27, 1995.

Our plan is to transport soil from the site to Giant's Ciniza Refinery landfarm east of Gallup, New Mexico. Weather permitting, this will be finished in January, 1996.

If you have any questions or comments, please contact me at (505)632-4009.

Sincerely,

Roy Armenta

Pipeline Manager

/dm

Enclosure

cc Tim Kinney

Jacque Cumbie

Kim Bullerdick

Analytical**Technologies,**Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107 Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 509406

November 7, 1995

Giant Industries 5764 Highway 64 Farmington, NM 87401

Project Name/Number: GIANT-STANDING ROCK 15230

Attention: Tim Kinney

On 09/29/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

ATI-Pensacola's lab ID "01" represents a composite of all five samples listed in the client description. This is the equivalent of "509406-06."

EPA method 9010 and 9030 analyses were performed by Analytical Technologies, Inc., 11 East Olive Road, Pensacola, FL.

EPA method 418.1 analyses were performed by Analytical Technologies, Inc., Albuquerque, NM.

All other analyses were performed by Analytical Technologies, Inc., 225 Commerce Drive, Fort Collins, CO.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill Project Manager

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jt

Enclosure

AnalylicalTechnologies,Inc.

CLIENT

PROJECT #

: GIANT INDUSTRIES

: 15230

PROJECT NAME: GIANT-STANDING ROCK

DATE RECEIVED

:09/29/95

REPORT DATE

:11/07/95

ATI ID: 509406

	ATI PENSACOLA ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	COMPOSITE (01-05)	SE1	NON-AQ	09/27/95
02	•	SW1	NON-AQ	09/27/95
03		NW1	NON-AQ	09/27/95
04		NM1	NON-AQ	09/27/95
05		NE1	NON-AQ	09/27/95
06	•	COMPOSITE (01-05)	NON-AQ	АИ

---TOTALS---

MATRIX NON-AQ #SAMPLES

5 SAMPLES & 1 COMPOSITE

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



Lab Name: Analytical Technologies, Inc.

Date Collected: 09/27/95

Client Name: ATI-NM

Date Analyzed: 10/12/95

Client Project ID: Giant - Standing Rock -- 509406

Sample Matrix: Soil

Lab Workorder Number: 95-09-290

Sample ID	Lab Sample ID	РН
509406-Composite	95-09-290	8.9



IGNITABILITY Method 1010

Lab Name: Analytical Technologies, Inc.

Date Collected: 09/27/95

Client Name: ATI-NM

Date Analyzed: 11/02/95

Client Project ID: Giant - Standing Rock

Sample Matrix: Soil

Lab Workorder Number: 95-09-290

Sample ID	Lab Sample ID	Ignitable At (deg C)	Non-ignitable Below (deg C)
509406 Comp.	95-09-290-01		96,5

[0) Page 1 Date 12-Oct-95

"FINAL REPORT FORMAT - SINGLE"

Accession:

510046

Client:

ANALYTICAL TECHNOLOGIES, INC.

95-09-290

Project Number: 95-0 Project Name: ATI-Project Location: N/S

ATI-NM

Test:

Group of Single Wetchem

Matrix:

SOIL

QC Level:

II

Lab ID:

001 Client Sample Id: 95-09-290-01-05 (COMPOSITE) Sample Date/Time: 27-SEP-95 N/S 03-OCT-95

Received Date:

Parameters:

Units:

Results:

Rpt Lmts:

Q: Batch:

Analyst:

CYANIDE, REACTIVE (9010) MG/KG SULFIDE, REACTIVE (9030) MG/KG

ND ND 0.25 5

RCX048 RSX048

CD CD

Comments:

[0] Page 1 Date 12-Oct-95

"WetChem Quality Control Report"

		He certem
Parameter:	RE-CN	RE SULFIDE
Batch Id:	RCX048	RSX048
Blank Result:	<0.25	<5
Anal. Method:	9010	9030
Prep. Method:	N/A	N/A
Analysis Date:	12-OCT-95	10-OCT-95
Prep. Date:	09-OCT-95	09-OCT-95

Sample Duplication

Sample Dup:	510046-1	510046-1
Rept Limit:	<0.25	<5
Sample Result:	<0.25	<5
Dup Result:	<0.25	<5
Sample RPD:	N/C	N/C
Max RPD:	0.25	5
Dry Weight%	N/A	N/A

Matrix Spike

Sample Spiked:	N/A	N/A	
Rept Limit:	N/A	N/A	
Sample Result: Spiked Result: Spike Added: % Recovery: % Rec Limits: Dry Weight%			

ICV

ICV Result:	2.76	18 20 90
True Result:	2.50	20
<pre>% Recovery:</pre>	110	90
<pre>% Recovery: % Rec Limits:</pre>	90-110	90-110

LCS

S Result:	
Recovery: Rec Limits:	

[0] Page 2 Date 12-Oct-95

---- Common Footnotes Wet Chem ----

N/A = NOT APPLICABLE.

N/S = NOT SUBMITTED.

N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY

ND = NOT DETECTED ABOVE REPORTING LIMIT.

DISS. OR D = DISSOLVED

T & D = TOTAL AND DISSOLVED R = REACTIVE

T = TOTAL

- G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X ATT REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT OR BELOW ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
- Q = THE ANALYTICAL (POST-DIGESTION) SPIKE IS REPORTED DUE TO THE MATRIX (PRE-DIGESTION) SPIKE BEING OUTSIDE ACCEPTANCE LIMITS.

= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE.

@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO PREPARATION).

= ANALYTICAL (POST-DIGESTION) SPIKE

I = DUPLICATE INJECTION

& = AUTOMATED

F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION. N/C+ = NOT CALCULABLE

N/C* = NOT CALCULABLE; SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.

H = SAMPLE AND/OR DUPLICATE IS BELOW 5 X ATI REPORTING LIMIT AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".

A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".

- = THE SAMPLE RESULT FOR THE SPIKE IS BELOW REPORTING LIMIT. HOWEVER, THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
- NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X ATI REPORTING LIMIT AND THE RESULTS EXCEED THE ATI REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL" SAMPLE IS NON-HOMOGENOUS.
- (*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.

(CA) = SEE CORRECTIVE ACTIONS FORM.

SW-846, 3RD EDITION, SEPTEMBER 1986 AND REVISION 1, JULY 1992. EPA 600/4-79-020, REVISED MARCH 1983. STANDARD METHODS, 17TH ED., 1989 NIOSH MANUAL OF ANALYTICAL METHODS, 3RD EDITION. ANNUAL BOOK OF ASTM STANDARDS, VOLUME 11.01, 1991.

- COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
- PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE 2. PH. SAMPLE AND THE DUPLICATE ANALYSIS.
- 3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE ANALYSIS. IF FLASHPOINT IS LESS THAN 25 DEGREES CELSIUS, THE DETECTION LIMIT BECOMES THE INITIAL STARTING TEMPERATURE.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).

RPT LIMIT = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

SG = SCOTT GRESHAM
NSB = NANCY S. BUTLER DPH = DOLLY P. HWANG = REBECCA BROWN FB = FREDDIE BROWN TT = TONY TINEO MM = MARY MOLONEY CF = CHRISTINE FOSTER HN = HONG NGUYEN GJ **⇒** GARY JACOBS

Sample ID

Composite

Lab Name: Analytical Technologies, Inc.

Client Name: ATI-NM

Date Collected: 09/27/95

Client Project ID: Giant - Standing Rock

Prep Date: 10/06, 09/95

Lab Sample ID: 95-09-290-01

Date Analyzed: 10/09/95

Sample Matrix: TCLP Leachate

EPA HW	CAS		Modified	Concentration	Detection
Number	Number	Analyte	Method	mg/L	Limit (mg/L)
D004	7440-38-2	Arsenic	6010	ND	0.1
D005	7440-39-3	Barium	6010	ND	3
D006	7440-43-9	Cadmium	6010	ND	0.05
D007	7440-47-3	Chromium	6010	ND	0.1
D008	7439-92-1	Lead	6010	ND	0.03
D009	7439-97-6	Mercury	7470	ND	0.002
D010	7782-49-2	Selenium	6010	ND	0.05
D011	7440-22-4	Silver	6010	ND	0.1

ND= Not Detected

Analytical **Technologies,** Inc.

Sample ID

TCLP Blank

Lab Name: Analytical Technologies, Inc.

Client Name: ATI-NM

Date Collected: N/A

Client Project ID: Giant - Standing Rock

Prep Date: 10/06, 09/95

Lab Sample ID: RB 95-09-290

Date Analyzed: 10/09/95

Sample Matrix: TCLP Leachate

EPA HW	CAS		Modified	Concentration	Detection
Number	Number	Analyte	Method	mg/L	Limit (mg/L)
D004	7440-38-2	Arsenic	6010	ND	0.1
D005	7440-39-3	Barium	6010	ND	3
D006	7440-43-9	Cadmium	6010	ND	0.05
D007	7440-47-3	Chromium	6010	ND	0.1
D008	7439-92-1	Lead	6010	ND	0.03
D009	7439-97-6	Mercury	7470	ND	0.002
D010	7782-49-2	Selenium	6010	ND	0.05
D011	7440-22-4	Silver	6010	ND	0.1

ND= Not Detected

TCLP METALS MATRIX SPIKE



Sample ID

Composite

Lab Name: Analytical Technologies, Inc.

Client Name: ATI-NM

Lab Sample ID: 95-09-290-01

Prep Date: 10/06, 09/95

Sample Matrix: TCLP Leachate

Date Analyzed: 10/09/95

	Spike	Sample	MS	% Rec	
	Added	Conc.	Conc.	(limits	
Analyte	mg/L	mg/L	mg/L	80-120%)	Flags
Arsenic	20	< 0.1	22	110	
Barium	20	< 3	22	110	
Cadmium	0.50	< 0.05	0.55	110	
Chromium	2.0	< 0.1	2.0	100	
Lead	5.0	< 0.03	5.3	106	
Mercury	0.020	< 0.002	0.017	85	
Selenium	20	< 0.05	23	115	
Silver	2.0	. < 0.1	2.2	110	

	MSD	MSD	Relative	
	Conc.	% Rec	% Difference	
Analyte	mg/L	(limits 80-120 %)	(limits 0-20%)	Flags
Arsenic	22	110	0	
Barium	22	110	0	
Cadmium	0.55	110	0	
Chromium	2.0	100	0	
Lead	5.2	104	2	
Mercury	0.017	85	0	İ
Selenium	23	115	0	
Silver	2.2	110	0	



TCLP ANALYSIS Modified Method 8020

Lab Name: Analytical Technologies, Inc.

Date Collected: 09/27/95

Client Name: ATI-NM

Date Extracted: 10/05/95

Client Project ID: Giant - Standing Rock

Date Analyzed: 10/06/95

Lab Workorder Number: 95-09-290

Sample Matrix: TCLP Leachate

Sample ID	Lab Sample ID	Sample Volume (ml)	Conc. Benzene (mg/L)	Conc. Toluene (mg/L)	Conc. Ethyl Benzene (mg/L)	Conc. Xylenes (mg/L)	Surrogate Percent Recovery (TFT)
		()	(11.6/2)	(119.0)	(3 2)	(5, 6)	
Reagent Blank	WRB1 10/06/95	5.0	< 0.01	< 0.01	< 0.01	< 0.01	101
TCLP Reagent Blank	TCLPRB1 10/05/95	0.50	< 0.10	< 0.10	< 0.10	< 0.10	98
Composite	95-09-290-01	0.50	< 0.10	0.49	0.14	1.2	101

TCLP MATRIX SPIKE RESULTS Modified Method 8020

Analytical**Technologies,**Inc.

Sample ID

Lab Name: Analytical Technologies, Inc.

Composite

Client Name: ATI-NM

Date Analyzed: 10/06,07/95

Lab Sample ID: 95-09-290-01

Sample Matrix: TCLP Leachate

	Spike	Sample	MS	MS
	Added	Concentration	Concentration	Percent
Analyte	(mg/L)	(mg/L)	(mg/L)	Recovery
Benzene	0.500	ND	0.492	98
Toluene	0.500	0.49	0.801	63
Ethyl Benzene	0.500	0.14	0.587	89
Xylenes	1.50	1.2	2.47	85

	Spike	MSD	MSD	
	Added	Concentration	Percent	
Analyte	(mg/L)	(mg/L)	Recovery	RPD
Benzene	0.500	0.517	103	5
Toluene	0.500	0.805	64	0
Ethyl Benzene	0.500	0.594	91	I
Xylenes	1.50	2.45	83	1

ND = Not detected



GENERAL CHEMISTRY RESULTS

06

CLIENT

: GIANT INDUSTRIES

ATI I.D.

: 509406

PROJECT #

: 15230

DATE RECEIVED

: 09/29/95

PROJECT NAME

: GIANT-STANDING ROCK

DATE ANALYZED

: 10/03/95

PARAMETER

UNITS

PETROLEUM HYDROCARBONS, IR MG/KG 46000



GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT

: GIANT INDUSTRIES

ATI I.D.

: 509406

PROJECT #

: 15230

SAMPLE MATRIX

: NON-AQ

PROJECT NAME: GIANT-STANDING ROCK

UNITS

: MG/KG

		SAMPLE	DUP.		SPIKED	SPIKE	ક
PARAMETER	ATI I.D.	RESULT	RESULT	RPD	SAMPLE	CONC.	REC
PETROLEUM HYDROCARBONS	51030501	70	78	11	230	150	107

PA PA PA A C B AnalyticalTechnologies,inc.

% 	Radium 226	Radium 226 Radium 228 Tritium Strontium
	##	Radium 226 Radium 228 Tritium Strontium Phinted Name Company: C

Chain of Custody

ACCESSION NUMBER: 510046

DATE 10-2 PAGE

1 OF /

Analytical Technologies, Inc. Albuquerque, NM

Chain of Custody

DATE 9-25-8 PAGE 1 OF

CLIENTADISCOUNT: "	RUSH SURCHARGE:			STANDARD) RUSHI	Ö,	₹ 	PROJECT NAME: Giant-Standard Road	PROJECT NUMBER: 509406	PROJECT INFORMATION		, const	JO-	-04		-02	509406-01 9.27.55	SAMPLE ID DATE	CLIENT PROJECT MANAGER:	COMPANY: Analytical Technologies, Inc. ADDRESS: 2709-D Pan American Freeway, NE Albuquerque, NM 87107	NETWORK PROJECT MANAGER: -LETITIA-KI
X	De Rol Hoole			LAB NUMBER 95-09-	RECEIVED GOOD COND.COLD	INTACT?	CHAIN OF CUSTODY SEALS	TOTAL NUMBER OF CONTAINERS	SAMPLE RECEIPT			111:10 1 02	10:55 64	10:40 03	10:05 01	St10:25 So:1 01	TIME MATRIX LABID	im McNeil	, Inc. eeway, NE	LETITIA KRAKOWSKI TOM VICILI
	017	FIBEROUANT	ì	- 2 90 PHOENIX	Y PORTLAND	PENSACOLA	HENTON Y.	ERS /S FT. COLLINS									SU SU 632	C IGANIC LI LFIDE	ITS (MBAS)	
Contract.	Printed Name: Date:			RECEIVED BY: (I AR)	င္		Printed Name: Date	X III	RELINOUISHED BY:			XXX	X	XXX	X	XXX	T (82' T Die Vo	CLP CLP 10 (TCLP - Mg., F- esel/Gasol	BTEX RCRA Medals 1311) ZHE Leact., Corr. line/BTXE/MTBE/ (MOD 8015/8020) nics GC/MS (624/8240)	ANALYSIS REQUEST
Company; 7.	Phone Rame: Date:	X/W/1/4 9:30	2	ED BY: (LAI	Company:	9.29.5	Printed Name: Date		1. RELINOUISHED BY: 2.								BC TC FE GF	DOD DTAL COL GCAL COL ROSS ALI ADIUM 22	IFORM PHA/BETA	1.81

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496-4400 • Scattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (503) 344-9777 PICTRIRI ITION WARE CARRY - ATI • BILL OFFICIALITY ATION

Chain of Custody Record

4000 Monroe Road Farmington, NM 87401

(505) 326-2288 FAX (505) 326-2388 FAX (505) 326-2388 FAX

Y for Water Samples) Y for Water Samples) Sodium hyroxide (NaOH) Analysis	Samples Iced: ⊠ Yes □ No □		All A Martine	Relinquished by:)			11771	11111	57,7	1 3446	Sample Number (and depth) Date Time	aboratory Name Autolytical Technologies	Samplers S. KOLLY & J. CHUSMAN	# 15Z30	Project Name (-) 211 - Standinch / Cc
and Lab Notes: Apple to be analyzed for the 1K7 (-i3/1+ Industries in Bleenfield, A Temort results to Mr. Kinne	Carrier: Find F. Airbill No.	Cold iced, intact, no seals	1 1	Received By:				50-	40-	1/	インファル	509		al Num	bero	1 Bott	Type of



P.O. Box 339

Window Rock, Arizona 86515

(520) 871-7692

TAYLOR McKENZIE, M.D.
VICE PRESIDENT

KELSEY A. BEGAYE PRESIDENT

January 31, 2000

Mr. Timothy A. Kinney General Manager Giant Industries, Inc. 111 County Road 4990 Bloomfield, New Mexico 87413 Certified Mail-Return Receipt Requested P 107-534 197

Reference: Standing Rock Pumping Station

Dear Mr. Kinney:

Thank you for your letter of January 17, 2000, and your consideration of our recommendations to address certain issues at the pumping station. Based on your letter and your subsequent discussion with my staff, Arlene Luther, Environmental Specialist, I understand you are committed to completing the following:

- 1. Giant will remove the pile of stained soil that is located on the south portion of the pumping station. The stained soil will be taken to Giant's permitted landfarm for remediation. The landfarm was permitted by the New Mexico Oil Conservation Division to accept the stained soil derived from Giant's processing operations. You will provide me with documentation that indicates the volume of stained soil that was removed, the volume of stained soil that was accepted, and the name and location of Giant's permitted landfarm.
- 2. Giant will remove the sump tank and remove any waste from the tank. The waste will be rerefined with raw material. The sump tank will be taken to Giant's salvage yard and will be reused.
- 3. A sound survey will be conducted by Blagg Engineering, and a report will be provided within 60 days of your letter dated January 17, 2000.
- 4. Giant will provide documentation that the container of mercaptan has secondary containment, and that the container was moved to suitable and controlled conditions.
- 5. Giant will consult with your staff, Mr. Barry Holman, regarding a previous request by the Navajo Nation Air Quality Program for a facility identification number, past emissions reports, estimated emissions from the engines located at the pumping station, and applicable operating permit requirements.

- 6-7. Giant will also consult with your staff, Mr. Roy Armieta, regarding his concerns of storm water run off from the east portion of the pumping station. For additional guidance, you may contact my staff, Patrick Antonio, Hydrologist III, at 520/871-7185.
- 8. On January 28, 2000, we received a copy of the Ciniza Pipe Line Facility Response Plan, Revision #2, June 7, 1999, for the pumping station.
- 9. Giant affirms that it does not [currently] generate hazardous waste.

On January 28, 2000, we also received a copy of a letter, dated June 3, 1998, that was prepared by Blagg Engineering requesting a closure standard of 5,000 parts per million for the area impacted by an old spill and fire located on the west end and outside of the pumping station. Navajo Nation EPA's clean up standard is 100 parts per million for petroleum or hydrocarbon contaminated soil. The tribal standard is lower than the federal standard because of the traditional Navajo land use practices and the desire of the Navajo land user to have this area returned to grazing. Giant agreed to contact Equiva Services and coordinate remedial actions that comply with the Navajo Nation EPA's standard.

Since this site issue is long standing, Navajo Nation EPA looks forward to completion of remedial efforts by the end of the summer 2000. Therefore, rapid responses and finalization of your plan are critical. Navajo Nation EPA agrees to provide comments within twenty days after receipt of the plan, as this effort is foremost for Navajo Nation EPA.

If you have any questions, please contact Ms. Luther at 520/871-7994.

Singerely,

Derrith Watchman Moore

Executive Director

xc: Larry Foster, Chief Executive Office, Office of the President and Vice President Levon Henry, Attorney General, Department of Justice, Navajo Nation Ernest Beleen, Post Office Box 494, Fruitland, New Mexico 87416
Navajo Nation EPA Programs

District I - (505) 393-6161 ? O. Box 1980 Hobbs, NM 88241-1980 <u>District II</u> - (505) 748-1283 311 S. First Irtesia, NM 88210 trict III - (505) 334-6178 Rio Brazos Road _.:c, NM 87410

<u>District IV</u> - (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-138 Originated 8/8/95

> Submit Original Plus 1 Čopy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEP	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	Giant Refining Company 4. Generator
Verbal Approval Received: Yes 🔲 No 🔲	5. Originating Site Bloomfield, NM
2. Management Facility Destination Giant Mid-Continent	6. Transporter Not Determined
3. Address of Facility Operator 111 CR 4990 Bloomfield	8. State New Mexico
7. Location of Material (Street Address or ULSTR)50 CR 4990 Bloomfi	eld, NM. 87413
 9. <u>Circle One</u>: A. All requests for approval to accept oilfield exempt wastes will be acceptance; one certificate per job. B. All requests for approval to accept non-exempt wastes must be acceptance. PROVE the material is not-hazardous and the Generator's certificate listing or testing will be approved. All transporters must certify the wastes delivered are only those consign. 	companied by necessary chemical analysis to tion of origin. No waste classified hazardous by
BRIEF DESCRIPTION OF MATERIAL: Oil contaminated soil from around crude oil stroage Refinery Tank farm. Wait For Metals myk 1-28-00 Ichedto Denny Ich For Metals came Back Hazandous Ich For Metals came Back Hazandous Ich For Metals came Back Hazandous Ich For Metals came Back Hazandous Not sure Possibly Lead Didnet go to Land form 3-10-00 Myk	tanks in the Bloomfield
Estimated Volume cy Known Volume (to be entered by the	operator at the end of the haul) ————— cy
SIGNATURE: Jim Kinney TITLE: General TYPE OR PRINT NAME: Tim Kinney	Manager DATE: 1/21/2000 ELEPHONE NO. 505-632-4001
APPROVED BY: DENIED APPROVED BY: TITLE:	09/5/ DATE: 1/24/2000

CERTIFICATE OF WASTE STATUS

	2. Destination Name:
1. Generator Name and Address: Giant Refining Company	Giant Mid-Continent
50 CR 4990	111 CR 4990
Bloomfield, NM. 87413	Bloomfield, NM. 87413
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Giant Refinery	50 CR 4990 Bloomfield, NM 87413
	Bloomileid, Mr 0/413
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
	om around the crude oil storage tanks in theBloomfield
refinery tank farm.	·
<u> </u>	
, Barry Holman	representative for:
(Print Nan	
Giant Refining Company	do hereby certify that, and Recovery Act (RCRA) and Environmental Protection Agency's July,
	described waste is: (Check appropriate classification)
, ooo, regulatory documentation, are above	A SOCIETY OF THE CONTRACT OF T
EXEMPT oilfield waste XX	NON-EXEMPT oilfield waste which is non-hazardous by characteristic
	analysis or by product identification
and that nothing has been added to the ex	xempt or non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the follo	wing documentation is attached (check appropriate items):
For NON-EXEMPT waste only the folio	wing documentation is attached (check appropriate items): XX Other (description):
For NON-EXEMPT waste only the follo MSDS Information RCRA Hazardous Waste	wing documentation is attached (check appropriate items): XX Other (description):
For NON-EXEMPT waste only the folio MSDS Information	wing documentation is attached (check appropriate items): XX Other (description):
For NON-EXEMPT waste only the follo MSDS Information RCRA Hazardous Waste	wing documentation is attached (check appropriate items): XX Other (description):
For NON-EXEMPT waste only the follo MSDS Information RCRA Hazardous Waste	wing documentation is attached (check appropriate items): XX Other (description):
For NON-EXEMPT waste only the folio MSDS Information RCRA Hazardous Waste Chain of Custody	wing documentation is attached (check appropriate items): XX Other (description):
For NON-EXEMPT waste only the follo MSDS Information RCRA Hazardous Waste	wing documentation is attached (check appropriate items): XX Other (description):
For NON-EXEMPT waste only the folio MSDS Information RCRA Hazardous Waste Chain of Custody	wing documentation is attached (check appropriate items): XX Other (description): Analysis Lab analysis attached
For NON-EXEMPT waste only the folio MSDS Information RCRA Hazardous Waste Chain of Custody Name (Original Signature):	wing documentation is attached (check appropriate items): XX Other (description): Analysis Lab analysis attached

Sent by: PINNAULE LABORATURIES,



2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8021 MODIFIED

CLIENT

: GIANT REFINING CO.-BLOOMFIELD

PINNACLE I.D.: 001032

PROJECT#

: (none)

PROJECT NAME

: TANK 28

PROJECTIVAME	, IAINN 20					
SAMPLE			DATE	DATE	DATE	DIL.
ID. # 🖟 CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01 (i 01-2000 TAN	K 28	NON-AQ	01/17/00	01/18/00	01/18/00	20
PARAMETER	DET. LIMIT		UNITS	01-2000 TANK 28		
BENZENE	0.025		MG/KG	< 0.50		
TOLUENE	0.025		MG/KG	0.90	•	
ETHYLBENZENE	0.025		MG/KG	0.89		
TOTAL XYLENES	0.025		MG/KG	12		
		•				
SURROGATE:						
BROMOFLUOROBENZEN SURROGATE LIMITS	IE (%) (65 - 120)			109		

CHEMIST NOTES:

N/A

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 311 5. First Artesia, NM 88210 Prict III - (505) 334-6178 Rio Brazos Road

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division RECEVED

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

SEP 2 1 1999

Submit Original Plus 1 Copy to appropriate District Office

Form C-138

Originated 8/8/95

Environmental Bureau
Oil Conservation Division

rict IV - (505) 827-7131	Oil Conservation Division
REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	Giant Refining Company 4. Generator
Verbal Approval Received: Yes ☑ No ☐	5. Originating Site
2. Management Facility Destination Giant Mid-Continent	Not Determined 6. Transporter
3. Address of Facility Operator 111 County Road 4990 Bloomfield, N.M. 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 50 County 4990 Bloomfield, N.M.	87413
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accepted acceptator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted accepted accepted and the Generator's certification listing or testing will be approved. 	companied by necessary chemical analysis to on of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned BRIEF DESCRIPTION OF MATERIAL:	a for transport.
Process waste water evaporation pond sludge. Analysis a	vailable. SEP 1 1999 OTH COMMON SEP 1 1999 OTH COMMON SEP 1 1999
Estimated Volume 1500 cy Known Volume (to be entered by the or SIGNATURE: TITLE: MCR.S. TYPE OR PRINT NAME: SARRY TO MAK TE	
APPROVED BY: July July TITLE: Engrow	



CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Refining Company - Bloomfield	Giant Mid-Continent
50 County Road 4990	111 County Road 4990
Bloomfield, N.M. 87413	Bloomfield, N.M. 87413
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Giant Refinery	50 County Road 4990
	·
Attach list of originating sites as appropriate 4. Source and Description of Waste	
•	ludes Cludes use semenad from lined
Process waste water evaporation pond slevaporation lagoon. Analytical data ava	
evaporation ragoon. Analytical data ava	illable.
·	
Lynn Shelton	na na namanaki na finan
(Print Name)	representative for:
Giant Refining Company	do hereby certify that,
according to the Resource Conservation and Recov	very Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above described	d waste is: (Check appropriate classification)
EXEMPT oilfield waste X NON-EXE	EMPT oilfield waste which is non-hazardous by characteristic
analysis o	or by product identification
and that nothing has been added to the exempt or n	and average and horardous wests defined above
and that find ling has been added to the exempt of the	ion-exempt non-nazardous waste denned above.
For NON-EXEMPT waste only the following docu	umentation is attached (check appropriate items):
MSDS Information	X Other (description):
X RCRA Hazardous Waste Analysis	WQCC Analysis
	·
Chain of Custody	
Chain of Custody	
Chain of Custody	7.
Chain of Custody Name (Original Signature):	to
	to

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A Lubbock, Texas 79424 El Paso, Texas 79922 800 • 378 • 1296 888 • 588 • 3443

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

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

GIANT REFINING CO.-BLOOMFIELD

Attention: Lynn Shelton 111 County Road Bloomfield, NM 87413

PAGE 1 of 2

July 7, 1999

Receiving Date: 6/3/99 Sample Type: Sludge Project No: N/A Project Location: N/A Prep Date: 7/1/99 Analysis Date: 7/1/99 Sampling Date: 6/2/99

Sample Condition: Intact & Cool Sample Received by: AD

Project Name: N/A

FIELD CODE: S. POND SLUDGE

TA #: T125841/992603	Reporting					
	Limit	Concentration	QC	RPD	EA	IA
8260 Compounds	(ug/kg)	(ug/kg)				
Dichlorodifluoromethane	25	ND				
Chloromethane	25	ND				
Vinyl chloride	50	ND	107			107
Bromomethane	125	ND				
Chloroethane	25	ND				
Trichlorofluoromethane	25	ND				
1,1-Dichloroethene	25	ND	104	6	90	104
Methylene chloride	125	ND .				
trans-1,2-Dichloroethene	25	ND				
1,1-Dichloroethane	25	ND				
cis-1,2-Dichloroethene	25	ND				
Chloroform	25	ND	102			10
2,2-Dichloropropane	25 .	ND				
Bromochloromethane	25	ND				
1,2-Dichloroethane	25	ND				
1,1,1-Trichloroethane	25	ND				
Carbon Tetrachloride	25	ND				
1,1-Dichloropropene	25	ND				
Benzene	25	54		1	112	
1,2-Dichloropropane	25	ND	100			10
Trichloroethene	25	ND		4	114	
Dibromomethane	25	ND				
Bromodichloromethane	25	ND				
cis-1,3-Dichloropropene	25	ND				
trans-1,3-Dichloropropene	25	ND				
Toluene	25	400	101	3	112	10
1,1,2-Trichloroethane	25	ND				
1,3-Dichloropropane	25	ND	,			
MTBE	25	ND				

GIANT REFINING CO.-BLOOMFIELD

Attention: Lynn Shelton FIELD CODE: S. POND SLUDGE

	Limit	Concentration				
8260 Compounds	(ug/kg)	(ug/kg)	QC	RPD	EA	IA
Dibromochloromethane	25	ND.	 			
1,2-Dibromoethane	25	ND				
Tetrachloroethene	25	ND				
Chlorobenzene	2 5	ND	100	1	109	100
1,1,1,2-Tertachloroethane	25	ND				
Ethylbenzene	25	110	102			102
m & p-Xylene	25	630				
Bromoform	25	ND				
Styrene	25	ND				
o-Xylene	25	260				
1,1,2,2-Tetrachloroethane	25	ND				
1,2,3-Trichloropropane	25	ND				
Isopropylbenzene	25	ND				
Bromobenzene	25	ND				
2-Chlorotoluene	25	ND				
n-Propylbenzene	25	ND				
4-Chlorotoluene	25	ND				
1,3,5-Trimethylbenzene	25	130				
tert-Butylbenzene	25	ND				
1,2,4-Trimethylbenzene	25	380				
1,4-Dichlorobenzene	50	ND				
sec-Butylbenzene	25	ND				
1,3-Dichlorobenzene	50	ND				
4-Isopropyltoluene	25	ND				
1,2-Dichlorobenzene	50	ND				
n-Butylbenzene	25	ND				
1,2-Dibromo-3-chloropropane	125	ND				
1,2,3-Trichlorobenzene	125	ND				
Naphthalene	25	180				
1,2,4-Trichlorobenzene	125	ND			:	
Hexachlorobutadiene	125	ND				

% Recovery

Dibromofluoromethane	103
Toluene-d8	100
4-Bromofluorobenzene	100

ND = Not Detected

Methods: EPA SW 846-5035, 8260B

CHEMIST: JG

7-7-99

Director, Dr. Blair Leftwich

Date

ILTRACEANALYSIS, INCAMBILLAND

6701 Aberdeen Avenue, Suite 9 GIANT REFINING & Bipley Avenue, Suite A

CLIENT

BLOOMFIELD, NM 87413 111 COUNTY RD 4990

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

915 • 585 • 3443 806 • 794 • 1296

FAX 806 • 794 • 1298 FAX 915 STATEME NO. :

REPORT DATE: INVOICE NO.:

REVIEWED BY:

S. POND SLUDGE CLIENT SAMPLE ID

sludge SAMPLE TYPE: SAMPLED BY

S. POND SLUDGE SUBMITTED BY: Lynn Shelton SAMPLE SOURCE ...:

L. Shelton CLIENT P.O. : AUTHORIZED BY

06-02-99 06-03-99

SUBMITTAL DATE: EXTRACTION DATE:

Matrix Spike Duplicate was out of acceptance criteria for Zinc and following parameters: Lead, Cadmium, Selenium, Silver, and Copper. criteria range possibly due non-homogeneity of the sample for the Matrix spike and matrix spike duplicate were out of acceptance

Manganese.

SOLID/ICP METALS

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	Analyst	N. Munir	N. Munir	N. Munir	N. Munir	N. Munir	N. Munir	N. Munir
Analysis						06-08-99 3111B		
Detection	Limit	1.30	5.00	5.00	5.00	5.00	5.00	2.00
	Unit	mg/Kg	/ mg/Kg	mg/Kg	mg/Kg	/ mg/Kg	mg/Kg	mg/Kg
	Result	<1.3	<5.00	7	<5.00	4.5	, o .v.	<5.00
	Parameter	Total Silver			Total Cadmilm	Total Chromitm	•	Total Selenium

(1) Copy to Client

MANAGING DIRECTOR

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INVOICE NO.: 22104219 806 • 794 • 1296 915 • 585 • 3443 Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79922 888•588•3443 E-Mail: lab@traceanalysis.com 6701 Aberdeen Avenue, Suite 9 CLIENT GIANT REFINING 675 Ripley Avenue, Suite A BLOOMFIELD, NM 87413 111 COUNTY RD 4990

FAX 806 • 794 • 1298 FAX 915-588-PLY NO. :

992603

06-29-99 REPORT DATE: REVIEWED BY:

2 OF PAGE

	Analyst	N. Munir	N. Munir	N. Munir	V. Munir	N. Munir	N. Munir					
(Continue)	Test Method	붎	6010B	6010B	60108	50108	50108	50108	50108	50108	50108	
	Analysis Date	06-10-99	06-21-99	06-18-99	06 - 18 - 99	06-18-99	06-21-99	06-17-99	06-18-99	06 - 18 - 99	06-17-99	
TABLE	Detection Limit	0.50	25.0	2.00	5.00	5.00	2.5	2.00	5.00	5.00	5.00	
DATA	Unit	mg/Kg	mg/Kg	mg-Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
	Result	6.8	790	<5.00	<5.00	<5.00	0089	48.	<5.00	<5.00	100	
	Parameter	Total Mercury	Total Aluminum	Total Boron	Total Cobalt:	Total Copper:	Total Iron:	Total Manganese	Total Molybdenum	Total Nickel	Total Zinc:	

,

JULIA JULIA JULIA JULIA JULIA JULIA TRACE ANALYSIS, INCAMBILIA DA

Lubbock, Texas 79424 800•378•1296 El Paso, Texas 79922 888•588•3443 E-Mail: lab@traceanalysis.com 6701 Aberdeen Avenue, Suite 9 CLIENT GAINT REFINING & 25. Hipley Avenue, Suite A 111 COUNTY ROAD 4990

BLOOMFIELD, NM 87413

806e794e1296 FAX 806e794e1298 915e585e3443 FAX 915**SXMP**944**£ NO.**

22104219 06-16-99 REPORT DATE: INVOICE NO.:

REVIEWED BY:

PAGE

S. POND SLUDGE CLIENT SAMPLE ID : SAMPLE TYPE

sludge SAMPLED BY

Lynn Shelton S. POND SLUDGE SAMPLE SOURCE ...:

: L. Shelton 06-02-99 SAMPLE DATE ...: AUTHORIZED BY CLIENT P.O.

SUBMITTAL DATE : EXTRACTION DATE:

TCLP Metals

	Analyst N. Munir N. Munir N. Munir N. Munir N. Munir N. Munir N. Munir	
	Test Method SW 7060A SW 3010A/7080A SW 3010A/7130 SW 3010A/7190 SW 7470A SW 7760A	
	Analysis Date 06-15-99 06-15-99 06-08-99 06-15-99 06-10-99 06-15-99 06-15-99 06-10-99	
TABLE	Detection Limit 0.50 0.50 0.50 0.50 0.50 0.50 0.50	
DATA	Unit mg/L mg/L mg/L mg/L mg/L mg/L mg/L	
	Result <0.50 <0.50 <0.50 <0.50 <0.50 <0.010 <0.50 <0.50	
	Arsenic (TCLP) Barium (TCLP) Cadmium (TCLP) Chromium (TCLP) Lead (TCLP) Mercury (TCLP) Selenium (TCLP)	

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR GIANT REFINING CO. BLOOMFIELD

Attention: Lynn Shelton 111 County Road 4990 Bloomfield, NM 87413

June 14, 1999

ICV

CCV

Receiving Date: 06/03/99 Sample Type: Sludge Project No: N/A Project Location: N/A

Sampling Date: 06/02/99 Sample Condition: I & C Sample Received by: VW Project Name: N/A

TCLP Cr TA# FIELD CODE (mg/L) EPA LIMIT = 5.0 < 0.50 T125841/992603 S. Pond Sludge

		•
REPORTING LIMIT		0.50
RPD	Inc	2
% Extraction Accuracy	NO	99

	•	
EXTRACTION DATE		06/04/99
ANIAL MOIO DATE		00/07/00
ANALYSIS DATE		06/07/99

METHODS: EPA 846-1311, 6010B

CHEMIST: RR

TCLP Cr SPIKE: 10 mg/L TCLP Cr CV: 1.0 mg/L

% Instrument Accuracy

Director, Dr. Blair Leftwich

1.03

0.99

101



6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A Lubbock, Texas 79424 El Paso, Texas 79922

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR GIANT REFINING CO. BLOOMFIELD

Attention: Lynn Shelton 111 County Road 4990 Bloomfield, NM 87413

June 16, 1999

Receiving Date: 06/03/99 Sample Type: Sludge

Project No:

Project Location:

Extraction Date: 06/07/99 Analysis Date: 06/15/99 Sampling Date: 06/02/99 Sample Condition: I & C Sample Received by: VW

Project Name:

TCLP VOLATILES (mg/L)	EPA Limit	Reporting Limit	T126322/992603 S. Pond Sludge	QC	RPD	%EA	%IA
Vinyl chloride	0.20	0.05	ND	112	6	116	112
1,1-Dichloroethene	0.70	0.05	ND	112	9	116 ·	112
Methyl Ethyl Ketone	200.0	0.5	ND	85	12	86	85
Chloroform	6.00	0.05	ND	86	10	103	86
1,2-Dichloroethane	0.50	0.05	ND	81	12	93	81
Benzene	0.50	0.05	ND	96	9	112	96
Carbon Tetrachloride	0.50	0.05	ND	104	6	119	104
Trichloroethene	0.50	0.05	ND	96	7	114	96
Tetrachloroethene	0.70	0.05	ND	99	8	124	99
Chlorobenzene	100.00	0.05	ND	98	8	108	98
1,4-Dichlorobenzene	7.50	0.05	ND	94	8	108	94

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

ND = Not Detected

METHODS: EPA SW 846-1311, 8260.

CHEMIST: DG

Director, Dr. Blair Leftwich

06/16/99 Date 6701 Aberdeen Avenue, Suite 9

Lubbock, Texas 79424

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CLIENT GIANT PREFINING ACOMPANY Texas 79922 888 • 588 • 3443 111 COUNTY ROAD 4990

E-Mail: lab@traceanalysis.com

BLOOMFIELD, NM 87413

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915 • 585 • 3443 SAMP 1 = 585 04944: 992603

> INVOICE NO.: 22104219 REPORT DATE: 06-22-99

REVIEWED BY:

PAGE : 1 OF

CLIENT SAMPLE ID : S. POND SLUDGE

SAMPLE TYPE: sludge

SAMPLED BY: L.S.

SUBMITTED BY: Lynn Shelton SAMPLE SOURCE ...: S. POND SLUDGE

ANALYST S. Ortiz

AUTHORIZED BY : L. Shelton

CLIENT P.O.

SAMPLE DATE ...: 06-02-99

SUBMITTAL DATE: 06-03-99

EXTRACTION DATE: 06-15-99

ANALYSIS DATE .: 06-16-99

REMARKS -

Pyridine is out of acceptance criteria in laboratory control sample. Results are acceptable in the laboratory control sample duplicate and the matrix spikes.

Hexachorobenzene Relative Percent Difference between Laboratory Control Samples is out of acceptance criteria.

Detection limits raised due to interference.

TCLP Semi - Volatiles by EPA 8270C

DATA TABLE			
Parameter	Result	Unit	Detection Limit
Pyridine:	<0.25	mg/L	0.25
1,4-Dichlorobenzene:	<0.25	mg/L	0.25
2-Methylphenol:	<0.25	mg/L	0.25
4-Methylphenol:	<0.25	mg/L	0.25
Hexachloroethane:	<0.25	mg/L	0.25
Nitrobenzene:	<0.25	mg/L	0.25
Hexachlorobutadiene:	<0.25	mg/L	0.25
2,4,6-Trichlorophenol:	<0.25	mg/L	0.25
2,4,5-Trichlorophenol:	<0.25	mg/L	0.25
2,4-Dinitrotoluene:	<0.25	mg/L	0.25
Hexachlorobenzene:	<0.25	mg/L	0.25
Pentachlorophenol:	<0.25	mg/L	0.25

(1) Copy to Client

6701 Aberdeen Avenue, Suite 9

Lubbock, Texas 79424

CLIENT GIANT REFINING COMPANY Texas 79922 888 • 588 • 3443

CLIENT GIANT REFINING COMPANY E-Mail: lab@traceanalysis.com

915.585.3443 FAY 915.585.4944 :

992603

111 COUNTY ROAD 4990

REPORT DATE: 06-22-99

INVOICE NO.: 22104219

BLOOMFIELD, NM 87413

REVIEWED BY:

PAGE

DATA TABI	LE	(Cont.)
Surrogate Information -	Percent	
	Recovery	<u>Range</u>
2-Flourophenol:	33.1	11-114
Phenol-D6	25.6	13-130
Nitrobenzene-d5		1-198
2-Flurobiphenyl		19-152
2,4,6-Tribromophenol		1-179
Terphenyl-d14		15-195

6701 Aberdeen Avenue, Suite 9

BLOOMFIELD, NM 87413

Lubbock, Texas 79424

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CLIENT GATATION SHIP ACO. El Paso, Texas 79922 888 • 588 • 3443 111 COUNTY RD. 4990

E-Mail: lab@traceanalysis.com

915 • 585 • 3443 SAMPLE NO. :

PAGE

INVOICE NO.: 22104219

REPORT DATE: 06-22-99

REVIEWED BY:

CLIENT SAMPLE ID : S. POND SLUDGE

SAMPLE TYPE: sludge

SAMPLED BY: L.S. SUBMITTED BY: Lynn Shelton SAMPLE SOURCE ...: S. POND SLUDGE

ANALYST s. ortiz

AUTHORIZED BY : L. Shelton

CLIENT P.O.

SAMPLE DATE ...: 06-02-99 SUBMITTAL DATE: 06-03-99

EXTRACTION DATE: 06-14-99 ANALYSIS DATE .: 06-15-99

REMARKS -

Detection limits raised due to sample dilution.

PAH - Soil by 8270C

DATA	TABLE	r a b l e		
Parameter	Result	Unit	Detection Limit	
Naphthalene	<6.0	mg/Kg	6.0	
Acenaphthylene	<6.0	mg/Kg	6.0	
Acenaphthene	<6.0	mg/Kg	6.0	
Fluorene:	<6.0	mg/Kg	6.0	
Anthracene:	<6.0	mg/Kg	6.0	
Phenanthrene:	<6.0	mg/Kg	6.0	
Fluoranthene:	<6.0	mg/Kg	6.0	
Pyrene:	<6.0	mg/Kg	6.0	
Benz[a]anthracene:	<6.0	mg/Kg	6.0	
Chrysene:	<6.0	mg/Kg	6.0	
Benzo[b&k]fluoranthene:	<6.0	mg/Kg	6.0	
Benzo[a]pyrene:	<6.0	mg/Kg	6.0	
Indeno[1,2,3-cd]pyrene:	<6.0	mg/Kg	6.0	
Dibenz[a,h]anthracene:	<6.0	mg/Kg	6.0	
Benzo[g,h,i]perylene:	<6.0	mg/Kg	6.0	

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424

800 • 378 • 1296

806 • 794 • 1296 915 • 585 • 3443 SAMPLE 585 04944:

FAX 806 • 794 • 1298

CLIENT GATNTIPREFINENGACO. El Paso, Texas 79922 888 • 588 • 3443

E-Mail: lab@traceanalysis.com

992603

111 COUNTY RD. 4990 BLOOMFIELD, NM 87413

REPORT DATE: 06-22-99

INVOICE NO.: 22104219

REVIEWED BY:

PAGE

: 2 OF

DATA TAB	L E	(Cont.)
Surrogate Information -	Percent	
	Recovery	Range
Phenol-d5:	61.4	13-130
2-Fluorobiphenyl:	88.1	19-152
2,4,6 Tribromophenol	90.3	1-179
2-Fluorophenol:		11-114
Terphenyl-d14		15-195
Nitrobenzene-d5		1-198

TRACEANALYSIS, INCAMILI

6701 Aberdeen Avenue, Suite 9 #205 Ripley Avenue, Suite A GIANT REFINING

111 COUNTY ROAD 4990 BLOOMFIELD, NM 87413

CLIENT

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

FAX 915 SANDERE NO. FAX 806 • 794 • 1298 806 • 794 • 1296 915 • 585 • 3443

INVOICE NO.: REPORT DATE: REVIEWED BY:

22104219

PAGE

S. POND SLUDGE CLIENT SAMPLE ID :

sludge SAMPLED BY: SAMPLE TYPE:

S. POND SLUDGE SUBMITTED BY ...: Lynn Shelton SAMPLE SOURCE ...:

: D. Overhoff AUTHORIZED BY CLIENT P.O.

06-02-99 EXTRACTION DATE:

SAMPLE DATE ...: SUBMITTAL DATE :

> Detection limit raised for Sulfate due to interference. Fluoride Matrix Spike level below reporting limit. data not valid.

Matrix Spike

Modified Methods Based on Water Extracts Inorganic Non-Metals-Solids

	Analyst A. Myers A. Myers A. Myers A. Myers A. Myers A. Myers
	lysis Test Method ate 04-99 EPA-300.0 04-99 EPA-300.0 04-99 EPA-300.0 04-99 EPA-300.0 07-99 SW-9045C
	Ana 06-106-106-106-106-106-106-106-106-106-1
TABLE	Detection Limit 10. 110 50. 20.
рата	Unit mg/Kg mg/Kg mg/Kg mg/Kg S.U.
	Result 800 520 1100 <20.
	Nitrate Nitrogen Súlfate Chloride Fluoride pH Temp, C: at time of pH

(1) Copy to Client

6701 Aberdeen Avenue, Suite 9 4725 Ripley Avenue, Suite A Lubbock, Texas 79424 El Paso, Texas 79922

800 • 378 • 1296 888 • 588 • 3443 806 • 794 • 1296 915 • 585 • 3443 FAX 806 • 794 • 1298 FAX 915 • 585 • 4944

E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR

GIANT REFINING CO. BLOOMFIELD Attention: Lynn Shelton 111 County Road 4990 Bloomfield, NM 87413

June 14, 1999

Receiving Date: 06/03/99 Sample Type: Sludge Project No: N/A

Project Location: N/A

Sampling Date: 06/02/99 Sample Condition: I & C Sample Received by: VW

Project Name: N/A

TA#	FIELD CODE	CYANIDE (mg/L)	PHENOLICS (mg/L)	
T125841/992603	S. Pond Sludge	<0.025	0.549	····
ICV	.•	0.126	0.835	
CCV		0.121	0.850	
REPORTING LIMIT		0.025	0.002	
RPD % Extraction Accuracy % Instrument Accuracy	Mac	1*	8	٠
% Extraction Accuracy	KLI	103*	116	
% Instrument Accuracy		105	104	

*Matrix spikes failed so blank spikes were used for RPD & %EA.

PREP DATE
ANALYSIS DATE

06/09/99 06/09/99 06/10/99 06/10/99

METHODS: EPA SM 4500 CN-C,E,

CHEMIST: MD

CYANIDE SPIKE: 3.0 mg/L CYANIDE PHENOLICS SPIKE: 0.8 mg/L PHENOLICS

CYANIDE CV: 0.120 mg/L CYANIDE

PHENOLICS CV: 0.8 mg/L PHENOLICS

Director, Dr. Blair Leftwich

Date

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

Lubbock, Texas 79424 El Paso, Texas 79922 800 • 378 • 1296 888 • 588 • 3443

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

E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR GIANT REFINING CO. BLOOMFIELD

Attention: Lynn Shelton 111 County Road 4990 Bloomfield, NM 87413

June 14, 1999

Receiving Date: 06/03/99 Sample Type: Sludge

Project No: N/A

Project Location: N/A

Sampling Date: 06/02/99 Sample Condition: I & C

Sample Received by: VW

Project Name: N/A

TA#

FIELD CODE

TOTAL Cr (mg/kg)

T125841/992603

S. Pond Sludge

4.8

ICV

CCV

1.04

1.04

REPORTING LIMIT

2.0

RPD

% Extraction Accuracy

1 103

% Instrument Accuracy

104

EXTRACTION DATE

ANALYSIS DATE

06/09/99 06/10/99

METHODS: EPA 846-1311, 6010B

CHEMIST: RR

TOTAL Cr SPIKE: 200 mg/kg

TOTAL Cr CV: 1.0 mg/L

Director, Dr. Blair Leftwich

DATE

60			•	•			47% El Pas	25 Riple so, Texa	4725 Ripley Dr., Ste A El Paso, Texas 79922-1028	A 1028		H H	AIN-(DF-C	USTC	YOY A	CHAIN-OF-CUSTODY AND ANALYSIS	NAL	YSIS		REQUEST	5 -	
Tel (300) 794-1296	na	J)	SIS	,	ĬĮ.	•	⊢ <u>π</u> ,_	ol (915) ax (915) 1 (888) \$	Tol (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443	- -			4B Or	LAB Order ID #									4
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Contact Person: Lynn SHELTON													10B/S00							10		p.	
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992675 5. POND SLUDGE	# 1/1	1				+		2	2	202	+			X	X	X	N.		/	~			:
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Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side	Condition	ns listed	d on re	/erse		of C.O.C.					Carrier #	1 (1	18	3 44	12	8	~ ~	150	7.	00	77.9) Ø (

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

District IV - (505) 827-7131

New Mexico Energy Minerals and Natural Resources Department CEIVED Oil Conservation Division

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

APR 0 3 1999

Submit Original Plus 1 Copy to appropriate District Office

Form C-138

Originated 8/8/95

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt:	4. Generator Giant Transportation
Verbal Approval Received: Yes 🔲 No 🛄	5. Originating Site $\frac{1}{4}$ Mile North of CR7800
2. Management Facility Destination Giant Mid-Continent Landfarm Sec 16 T25N R12W	and CR7825 on CR7825 6. Transporter_{Giant} Transportation
3. Address of Facility Operator Bloomfield, NM. 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Giant Mid-Continent Landtarm Sec16 T25N R12W
9. Circle One:	
 A. All requests for approval to accept oilfield exempt wastes will be acc Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be acc PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. All transporters must certify the wastes delivered are only those consigner. 	companied by necessary chemical analysis to on of origin. No waste classified hazardous by
Crude Oil contaminated soil from a pup rollover accid Intersection CR7800 and CR7825 on CR7825. 140 yards o at the Giant Mid-Continent Landfarm, Sec.16 T25N R12w	f contaminated soil that is located
	DECEIVED APR - 6 1999 OIL CON. DIV. DIST. 3
Estimated Volume 166 cy Known Volume (to be entered by the operation of the Signature: TitleSafety/Environment FacilityAuthorized Agent TYPE OR PRINT NAME: Barry Holman TE	
(This space for State Use) APPROVED BY: Demy 2. Found TITLE: Geold	9913 DATE: 4/7/99

TITLE: Enu. Gedlass L

CERTIFICATE OF WASTE STATUS

	2 Decelerates Name
1. Generator Name and Address:	2. Destination Name:
Giant Transportation	Giant Mid-Continent Landfarm
111 CR 4990	Sec16 T25N R12W
Bloomfield, NM 87413	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
1/4 mile North Of intersection	Giant Mid-Continent Landfarm
CR7800 and CR7825 on CR7825	Sec16 T25N R12W
- Sky 500 and Sky 523 on Sky 523	55616 1257 11211
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
•	nt that involved the Pup Trailer only, this
•	over caused the pup trailer to fail causing a
	crude oil contaminated 140 yards of sandy soil
that was picked up and transported to	
that was present up and pransported to	
I, Joe Stevens	representative for:
I, <u>Ioe Stevens</u> (Print Name)	
Giant Transportation	do hereby certify that,
	ary Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recove 1988, regulatory determination, the above described	ary Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste XX NON-EXE	waste is: (Check appropriate classification) MPT oilfield waste which is non-hazardous by characteristic
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according to the Resource Conservation and Recover 1988, regulatory determination, the above described EXEMPT oilfield waste	MPT oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. MET oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. MET oilfield waste which is non-hazardous by characteristic r by product identification on-exempt non-hazardous waste defined above. MET oilfield waste which is non-hazardous by characteristic r by product identification

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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 further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

strict I - (505) 393-6161

D. Box 1980

ibbs, NM 88241-1980

strict II - (505) 748-1283

1 S. First

tesia, NM 88210

"trict III - (505) 334-6178

Rio Brazos Road

acc, NM 87410

strict IV - (505) 827-7131

New Mexico Energy Mir als and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Giant Refining Co.
Verbal Approval Received: Yes No No	5. Originating Site Same
2. Management Facility Destination Giant mid-Continent, Inc.	6. Transporter Same
3. Address of Facility Operator 111 CR 4990	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 50 CR 4990	
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accepted accept; one certificate per job. (B.) All requests for approval to accept non-exempt wastes must be accepted acce	companied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	ed for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Crude oil contaminated soil. Approximately 5 yd^3 soil of crude oil.	containing approximately 2 BBL
	ECEIVED JAN 1 1 1999
Holdwy For Lynn's signature 0	IL CON. DIV. dist. 3
Estimated Volume5 cy Known Volume (to be entered by the o	perator at the end of the haul) ————————————————————————————————————
SIGNATURE: Wasie Management Facility Authorized Agent TITLE: Safety/F.	nvironmental Mana@AFE: 10/8/98
	ELEPHONE NO. <u>(505)</u> 632-4077
(This space for State Use)	
APPROVED BY: Demy B. Tent TITLE: Geolo	9/5/ DATE: 1/11/99
APPROVED BY: Martyme of The Ling TITLE: Env. Ge	ologist DATE: 1/12/99

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Refining Company-Bloomfield	Giant Mid Continent, Inc.
50 Road 4990	111 Road 4990
Bloomfield, NM 87413	Bloomfield, NM 87413
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Giant Refining Company-Bloomfield	Same
50 Road 4990	(Stored on impermeable pad)
Bloomfield, NM 87413	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Crude oil contaminated soil from tank	
approximately 2 BBL of crude oil. Truc	ck driver overfilled tank causing release.
l, Lynn Shelton	representative for:
(Print Name)	,
Giant Refining Company-Bloomfield	
according to the Resource Conservation and Recov	very Act (RCRA) and Environmental Protection Agency's July,
according to the Resource Conservation and Recovened 1988, regulatory determination, the above describe	very Act (RCRA) and Environmental Protection Agency's July, d waste is: (Check appropriate classification)
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July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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 further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District I 4 (505) 393-6161 P.O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First Artesia, NM 88210 Pirtict III - (505) 334-6178 Rio Brazos Road

District IV - (505) 827-7131

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

> > δ.

REQUEST FOR APPROVAL TO ACCEPT	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: 🔯	4. Generator Giant Transportation
Verbal Approval Received: Yes No No	5. Originating Site 3.7 miles from intersection US5
2. Management Facility Destination	6. Transporter NM 574
3. Address of Facility Operator	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	111 CR 4990 Bloomfield, NM 87413
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be ac Generator; one certificate per job. (B.) All requests for approval to accept non-exempt wastes must be ac PROVE the material is not-hazardous and the Generator's certificat listing or testing will be approved. 	companied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consign	ed for transport.
Crude oil contaminated soil from truck roll over 3.7 m US 550 and NM 574. Knowledge of process attack	OUL CORP
Waste Management Facility Authorized Agent	cy Convironmental Mgr DATE: 10/5/98 ELEPHONE NO. (505) 632-4077
APPROVED BY: Marting Olds TITLE: Ew. G.	9913T DATE: 10/7/98
APPROVED BY: Marking () TITLE: Em. G	cologist DATE: 10-8-98



CERTIFICATE OF WASTE STATUS

	2 Dectination Name:
1. Generator Name and Address:	2. Destination Name: Giant Mid-Continent Land Farm
Giant Transportation	i
111 CR 4990	Sec. 16 T25N R12W
Bloomfield, NM 87413	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
	Giant Transportation
3.7 miles from intersetion of US550	
and NM 574. Truck roll over	111 CR 4990
	Bloomfield, NM 87413
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
	ent that occured on 10-4-98. Waste is soil
ricked up from a small look that occu	ared as a result of the roll over accident.
	ited as a result of the foll over decidence.
Six yards of contaminated soil.	
· ·	
l. Roy Armenta	representative for:
(Print Name)	ropresentative for:
Giant Transportation	do hereby certify that,
according to the Resource Conservation and Reco	
	very Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above describe	very Act (RCRA) and Environmental Protection Agency's July, and waste is: (Check appropriate classification)
1988, regulatory determination, the above describe EXEMPT oilfield waste XX NON-EX	very Act (RCRA) and Environmental Protection Agency's July, and waste is: (Check appropriate classification) EMPT oilfield waste which is non-hazardous by characteristic
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NEW MEXICO LAERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. 2-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413 PECEIVED AUG 1 1 1998 OIL GOM. DIV.

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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:

- The above representative analyses can be used in lieu of individual sampling of each spill event until further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
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Mr. Barry G. Holman July 29, 1998 Page 2—

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Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

Pistrict I - (505) 393-6161 O. Box 1980 [obb), NM 88241-1980 Pistrict II - (505) 748-1283 11 S. First rtesia, NM 88210

7 Rio Brazos Road

istrict IV - (505) 827-7131

_.c, NM 87410

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

MEQUEST FOR APPROVAL TO ACCEPT	JOEID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Giant Refining Co.
Verbal Approval Received: Yes No No	5. Originating Site Same
2. Management Facility Destination Giant mid-Continent, Inc.	6. Transporter Same
3. Address of Facility Operator 111 CR 4990	8. State New Mexico
7. Location of Material (Street Address or ULSTR) 50 CR 4990	
9. Circle One:	
A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job. (B.) All requests for approval to accept non-exempt wastes must be accepted. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved.	companied by necessary chemical analysis to on of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigned	ed for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Crude oil contaminated soil. Approximately 5 yd ³ soil of crude oil.	containing approximately 2 BBL
NOV I 8 1998	NOV 1 6 1998
OIL CONSERVATION DIV.	OIL COM. DIV.
Estimated Volume 5 cy Known Volume (to be entered by the o	perator at the end of the haul) ————————————————————————————————————
SIGNATURE: Waste Management Facility Authorized Agent TITLE: Safety/F:	nvironmental Mana gATE : 10/8/98
TYPE OR PRINT NAME: Barry Holman TE	ELEPHONE NO(505)_ 632-4077
(This space for State Use)	
APPROVED BY: TITLE:	DATE:
APPROVED BY:	DATE

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Refining CoBloomfield	Giant Mid-Continent, Inc.
50 CR 4990	111 CR 4990
Bloomfield, NM 87413	Bloomfield, NM 87413
2. Odelevska v Oka (zama)	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Giant Refining CoBloomfield	Same (Stored on impermeable pad)
50 CR 4990 Bloomfield, NM 87413	(Stored on impermeable pad)
broomrierd, Nr 8/413	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	2
Crude oil contaminated soil. Approx	ximately 5 yd ³ . Containing approximately 2
BBL of crude oil.	
, Roy Armenta	representative for:
(Print Name)	
Giant Transportation Company-Bloomfie	
according to the Resource Conservation and Reco 1988, regulatory determination, the above describe	very Act (RCRA) and Environmental Protection Agency's July,
I YAA TAUUSTON NATANTUNSSOO TOA IIYOVA OASCIUS	
1000/10galatory dotallimization, and above dosonial	O Waste Is: (Check appropriate classification)
EVENDT US II	
EXEMPT oilfield waste NON-EX	EMPT oilfield waste which is non-hazardous by characteristic
EXEMPT oilfield waste NON-EX	
EXEMPT oilfield waste XX NON-EX analysis	EMPT oilfield waste which is non-hazardous by characteristic or by product identification
EXEMPT oilfield waste XX NON-EX analysis	EMPT oilfield waste which is non-hazardous by characteristic or by product identification
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EXEMPT cilfield waste analysis and that nothing has been added to the exempt or For NON-EXEMPT waste only the following doc MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	EMPT oilfield waste which is non-hazardous by characteristic or by product identification non-exempt non-hazardous waste defined above. sumentation is attached (check appropriate items): XX Other (description):

NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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 further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

District I - (5%5) 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

7 Rio Brazos Road

District IV - (505) 827-7131

_..c, NM 87410

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTL
1. RCRA Exempt: Non-Exempt: XX	4. Generator Ciniza Pipe Line
Verbal Approval Received: Yes 🔲 No 🔲	5. Originating Site Apache-Lybrook Sta
2. Management Facility Destination Giant Mid-Continent, Inc. Land Farm T25NR12WS16	6. Transporter Giant Transportation
3. Address of Facility Operator	8. State New Mexico
7. Location of Material (Street Address or ULSTR)Lybrook Station Sec	. 15 T23N R7W
9. Circle One:	
 All requests for approval to accept oilfield exempt wastes will be accepted. All requests for approval to accept non-exempt wastes must be accepted. PROVE the material is not-hazardous and the Generator's certification listing or testing will be approved. 	companied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	ed for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Soil is contaminated with crude oil from a leak on leask was on $11-2-97$.	the Apache-Lybrook line. This
A copy of the knowledge of process is attached.	
Estimated Volume 45 cy Known Volume (to be entered by the o	perator at the end of the haul) cy
SIGNATURE: Waste Management Facility Authorized Agent TITLE: Manager S	afety/Environmen DATE: 9/3/98
TYPE OR PRINT NAME: Barry Holman TE	ELEPHONE NO. (505) 632-4077
(This space for State Use)	
APPROVED BY: Deny S. Four TITLE: Geo!	OS 15 T DATE: 9/4/98
APPROVED BY: TITLE: Pare	Chal DATE: 9/9/98

CERTIFICATE OF WASTE STATUS

Generator Name and Address:	2. Destination Name:
Ciniza Pipe Line	Giant Mid-Continent, Inc.
111 CR 4990	Land Farm
Bloomfield, NM 87413	T25N R12W Sec. 16
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Apache-Lybrook Line	Lybrook Station
Sec. 1 T23N R7W	Sec. 15 T23N R7W
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Waste is soil stained with crude dated 11/2/97.	oil from a leak on the Apache-Lybrook line
, Roy Armenta	representative for:
(Print Name)	•
Giant Transportation	
Giant Transportation according to the Resource Conservation and R	lecovery Act (RCRA) and Environmental Protection Agency's July
Giant Transportation according to the Resource Conservation and R 1988, regulatory determination, the above desc EXEMPT oilfield waste X NON	lecovery Act (RCRA) and Environmental Protection Agency's July
Giant Transportation according to the Resource Conservation and R 1988, regulatory determination, the above desc EXEMPT oilfield waste X NON analy	I-EXEMPT oilfield waste which is non-hazardous by characteristic
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OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman
Safety and Environmental Manager
Giant Transportation
111 CR 4990
Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

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District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 BII S. First Artesia, NM 88210 P: -trict III - (505) 334-6178 7 Rio Brazos Road c, NM 87410.

District IV - (505) 827-7131

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

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

Form C-138 Originated 8/8/95

> Submit Original Plus 1 Copy to appropriate District Office

HEQUEST FOR APPROVAL TO ACCEPT	SOLID WAS IE
1. RCRA Exempt: Non-Exempt: X	4. Generator Giant Transportation 5. Giant Station
Verbal Approval Received: Yes No X	5. Originating Site Lybrook Station Reater Treater
2. Management Facility Destination Giant Mid-Continent, Inc. Land Farm T25NR12WS16	6. Transporter Giant Transportation
3. Address of Facility Operator	8. State _{New Mexico}
7. Location of Material (Street Address or ULSTR) Lybrook Station	Sec 15 T23N R7W
9. <u>Circle One</u> :	
A. All requests for approval to accept oilfield exempt wastes will be accept approval to accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes will be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes must be accept non-exempt wastes accept non-exempt wastes will be accept non-exempt wastes accept non-exempt wastes accept non-exempt non-e	companied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigned	ed for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Clean out residue, sand, and gravel fro	
Estimated Volume 2.5 cy Known Volume (to be entered by the operation of the Signature: Safety/En	perator at the end of the haul) ————————————————————————————————————
TYPE OR PRINT NAME: Barry Holman TE	ELEPHONE NO. (505) 632-4077
(This space for State Use)	
APPROVED BY: Demy 2, Found TITLE: Geolo	0915T DATE: 9/4/98
IIILE:	DATE: 7/7/

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Transportation	Giant Mid Continent, Inc.
111 CR 4990	Land Farm
Bloomfield, NM 87413	T25NR12WSec.16
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Lybrook Heater Treater	Lybrook Station
Sec. 15 T23NR7W	Sec. 15 T23NR7W
Association of additional and a second of	
Attach list of originating sites as appropriate 4. Source and Description of Waste	
Clean out residue, sand, and grave:	1 from Lybrook Heater Treater.
Clean out residue, sand, and grave.	1 Hom Lybrook heater Heater.
•	
·	
. Roy Armenta	representative for:
(Print Name)	
(Print Name) Giant Transportation	do hereby certify that,
Giant Transportation according to the Resource Conservation and Re	ecovery Act (RCRA) and Environmental Protection Agency's July,
Giant Transportation	ecovery Act (RCRA) and Environmental Protection Agency's July,
Giant Transportation according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON-	ecovery Act (RCRA) and Environmental Protection Agency's July,
Giant Transportation according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analy	ecovery Act (RCRA) and Environmental Protection Agency's July, ribed waste is: (Check appropriate classification) -EXEMPT oilfield waste which is non-hazardous by characteristic
Giant Transportation according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analy and that nothing has been added to the exempt	ecovery Act (RCRA) and Environmental Protection Agency's July, ribed waste is: (Check appropriate classification) -EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above. documentation is attached (check appropriate items): XX Other (description):
Giant Transportation according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analy and that nothing has been added to the exempt For NON-EXEMPT waste only the following of MSDS Information RCRA Hazardous Waste Analys	ecovery Act (RCRA) and Environmental Protection Agency's July, ribed waste is: (Check appropriate classification) -EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above. documentation is attached (check appropriate items): XX Other (description):
Giant Transportation according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analy and that nothing has been added to the exempt For NON-EXEMPT waste only the following of MSDS Information RCRA Hazardous Waste Analyst Chain of Custody	ecovery Act (RCRA) and Environmental Protection Agency's July, ribed waste is: (Check appropriate classification) -EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above. documentation is attached (check appropriate items): XX Other (description):
Giant Transportation according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analy and that nothing has been added to the exempt For NON-EXEMPT waste only the following of MSDS Information RCRA Hazardous Waste Analys	ecovery Act (RCRA) and Environmental Protection Agency's July, ribed waste is: (Check appropriate classification) -EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above. documentation is attached (check appropriate items): XX Other (description):
Giant Transportation according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analy and that nothing has been added to the exempt For NON-EXEMPT waste only the following of MSDS Information RCRA Hazardous Waste Analyst Chain of Custody Name (Original Signature):	ecovery Act (RCRA) and Environmental Protection Agency's July, ribed waste is: (Check appropriate classification) -EXEMPT oilfield waste which is non-hazardous by characteristic sis or by product identification or non-exempt non-hazardous waste defined above. documentation is attached (check appropriate items): XX Other (description):
Giant Transportation according to the Resource Conservation and Re 1988, regulatory determination, the above descr EXEMPT oilfield waste XX NON- analy and that nothing has been added to the exempt For NON-EXEMPT waste only the following of MSDS Information RCRA Hazardous Waste Analyst Chain of Custody	EXEMPT oilfield waste which is non-hazardous by characteristic riss or by product identification or non-exempt non-hazardous waste defined above. documentation is attached (check appropriate items): XX Other (description):

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

July 29, 1998

CERTIFIED MAIL RETURN RECEIPT NO. Z-357-869-974

Mr. Barry G. Holman Safety and Environmental Manager Giant Transportation 111 CR 4990 Bloomfield, New Mexico 87413

RE: CRUDE OIL PIPELINE SPILLS

Dear Mr. Townsend:

The New Mexico Oil Conservation Division (OCD) has reviewed the Giant Transportation (Giant) July 20, 1998, correspondence which presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from pipeline related spills of crude oil. Giant 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:

- The above representative analyses can be used in lieu of individual sampling of each spill event until further notice.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.
- 3. Giant 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.

Mr. Barry G. Holman July 29, 1998 Page 2—

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

Sincerely,

Roger C. Anderson

Environmental Bureau Chief

xc: OCD Aztec District Office

NMED Hazardous and Radioactive Waste Bureau

District I - (505) 393-6161 P. O. Box 1980 Hobbs, NM 88241-1980 District II - (505) 748-1283 811 S. First

New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

I Resources Department
Originated 8/8/95
On Division
Submit Original

Artesia, NM 88210

Princt III - (505) 334-6178

Rio Brazos Road

Ct, NM 87410

District IV - (505) 827-7131

2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 Submit Original Plus 1 Copy to appropriate District Office

DATE: 2/29/9

Form C-138

REQUEST FOR APPROVAL TO ACCEPT	T SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Ciniza Pipe Line'
Verbal Approval Received: Yes No No	5. Originating Site Sec. 33 T15N R15W
2. Management Facility Destination Giant Mid-Continent Sec. 16 T25N R12W	6. Transporter Giant Transportation
3. Address of Facility Operator 111 County Road 4990 Bloomfield, NM 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Ciniza Refinery Sec. 33 T15N R15W
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be ac Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be ac PROVE the material is not-hazardous and the Generator's certificat listing or testing will be approved. 	companied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consign	ed for transport.
BRIEF DESCRIPTION OF MATERIAL:	
Crude oil-contaminated soil from Ciniza Refinery meter	station
RECEIVI JUL 2 7 199 Environmental Bur Oil Conservation Div	
Estimated Volume cy Known Volume (to be entered by the company)	operator at the end of the haul)cy
Waste Management FacilityAuthorized Agent	1 Manager DATE: 6/30/98
TYPE OR PRINT NAME: Tim Kinney Ti	ELEPHONE NO. (505) 632-4001
(This space for State Use) APPROVED BY: Jamy S. Torn TITLE: George	10 U15 DATE: 7/21/98
	770

ada TITLE: Barea



OIL GON. DIVICE CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Ciniza Pipe Line	Giant Mid-Continent Land Farm
111 County Road 4990	Sec. 16 T25N R12W
Bloomfield, NM 87413	
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Ciniza Refinery	Sec. 33 T15N R15W
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
valve on a sump pump discharge line	ned dirt which was contaminated when a check failed and ran the sump over. Approximately ked area. Approximately one barrel was recovered
I,Roy Armenta	representative for:
(Print Name) Giant Transportation	
according to the Resource Conservation and Reco 1988, regulatory determination, the above describe EXEMPT oilfield waste	do hereby certify that, overy Act (RCRA) and Environmental Protection Agency's July, ed waste is: (Check appropriate classification) (EMPT oilfield waste which is non-hazardous by characteristic or by product identification
and that nothing has been added to the exempt or	non-exempt non-hazardous waste defined above.
For NON-EXEMPT waste only the following doc MSDS Information RCRA Hazardous Waste Analysis Chain of Custody	Other (description):
Name (Original Signature):	mark
Title: Pipeline Manager	
6/20/08	



July 13, 1998

Mr. Barry Holman Transportation Department Giant Industries, Inc. 5764 Bloomfield Highway Farmington, New Mexico 87401

Dear Mr. Holman,

Enclosed are the analytical results for the sample collected from the location designated as "Cineza Plant - Cineza P.L. Receiving". One soil sample was collected by Giant Industries designated personnel on 07/02/98, and received by the Envirotech laboratory on 07/06/98 for Hazardous Waste Characterization analysis (TCLP Volatiles, Semi-volatiles, Trace Metals analysis, and Reactivity,

The sample was documented on Envirotech Chain of Custody No. 6156 and assigned Laboratory No. D587 for tracking purposes. The sample was extracted on 07/07/98 and analyzed 07/07/98 - 07/10/98 using USEPA or equivalent methods.

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

Respectfully submitted, Envirotech, Inc.

Stacy W. Sendler

Environmental Scientist/Laboratory Manager

Corrosivity, and Ignitability characterization).

enc.

SWS\sws

97059-03.lb2/wpd

Project No.: 97059-03



SUSPECTED HAZARDOUS **WASTE ANALYSIS**

Client: Giant Transportation Project #: 97059-03 Sample ID: Cineza P.L. Receiving Date Reported: 07-09-98 Lab ID#: D587 Date Sampled: 07-02-98 07-06-98 Sample Matrix: Soil Date Received: 07-07-98 Date Analyzed: Preservative: Cool Chain of Custody: 6156 Condition: Cool & Intact

Parameter Result

IGNITABILITY: Negative

CORROSIVITY: Negative pH = 6.79

REACTIVITY: **Negative**

RCRA Hazardous Waste Criteria

Parameter Hazardous Waste Criterion

IGNITABILITY: Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY: Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. REACTIVITY:

(i.e. Violent reaction with water, strong base, strong acid, or the generation

of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Stacy W Sendler

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: Cineza Plant.

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



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Giant Transportation	Project #:	97059-03
Sample ID:	Cineza P.L. Receiving	Date Reported:	07-09-98
Laboratory Number:	D587	Date Sampled:	07-02-98
Chain of Custody:	6156	Date Received:	07-06-98
Sample Matrix:	Soil	Date Extracted:	07-07-98
Preservative:	Cool	Date Analyzed:	07-09-98
Condition:	Cool & Intact	Analysis Requested:	TCLP

	Concentration	Detection Limit	Regulatory Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0074	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0125	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

Cineza Plant.

Den L. Opiece

Stacy W Sendler
Review



EPA METHOD 8040 PHENOLS

Giant Transportation	Project #:	97059-03
Cineza P.L. Receiving	Date Reported:	07-10-98
D587	Date Sampled:	07-02-98
6156	Date Received:	07-06-98
Soil	Date Extracted:	07-07-98
Cool	Date Analyzed:	07-09-98
Cool & Intact	Analysis Requested:	TCLP
	Cineza P.L. Receiving D587 6156 Soil Cool	Cineza P.L. Receiving Date Reported: D587 Date Sampled: Date Received: Date Extracted: Cool Date Analyzed:

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 19

Note:

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

Comments:

Cineza Plant.

Spill @ Receiving Unit.

Analyst

Review

Stacy W Sendler



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

Client:	Giant Transportation	Project #:	97059-03
Sample ID:	Cineza P.L. Receiving	Date Reported:	07-10-98
Laboratory Number:	D587	Date Sampled:	07-02-98
Chain of Custody:	6156	Date Received:	07-06-98
Sample Matrix:	Soil	Date Extracted:	07-07-98
Preservative:	Cool	Date Analyzed:	07-09-98
Condition:	Cool and Intact	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

100%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

Cineza Plant. Spill @ Receiving Unit.

Stacy W Sendler



EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Giant Transportation	Project #:	97059-03
Sample ID:	Cineza P.L. Receiving	Date Reported:	07-10-98
Laboratory Number:	D587	Date Sampled:	07-02-98
Chain of Custody:	6156	Date Received:	07-06-98
Sample Matrix:	Soil	Date Analyzed:	07-10-98
Preservative:	Cool	Date Extracted:	07-07-98
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
	and the control of th	•	
Arsenic	ND	0.0001	5.00
Barium	2.12	0.001	100
Cadmium	0.0424	0.0001	1.00
Chromium	0.0223	0.0001	5.00
Lead	0.0254	0.0001	5.00
Mercury	ND	0.0001	0.200
Selenium	ND	0.0001	1.00
Silver	ND	0.0001	5.0

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by

GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, July 1, 1992.

Comments:

Cineza Plant. Spill @ Receiving Unit.

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Review

Stacy W Sendler



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-09-98
Laboratory Number:	07-09-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-09-98
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for sample D587.

Analyst Queen

Stacy W Sendler Review



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

The second control of the second control of

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-09-98
Laboratory Number:	07-07-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-09-98
Condition:	N/A	Date Extracted:	07-07-98
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance	Criteria	Parameter	Percent Recovery	
•		Trifluorotoluene	99%	

Bromofluorobenzene 98%

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

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

Comments: QA/QC for sample D587.

Meur L. Ojeun Stary W Sendler Review



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

Stacy W Sendler

· Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-09-98
Laboratory Number:	D587	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-09-98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0074	0.0076	0.0001	1.6%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0125	0.0123	0.0001	1.1%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample D587.

Review



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

Client:	QA/QC	Project #.	N/A
Sample ID:	Matrix Spike	Date Reported:	07-09-98
Laboratory Number:	D587	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-09 - 98
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0074	0.050	0.0569	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0125	0.050	0.0622	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0495	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0489	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0485	0.0002	97%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for sample D587.

Analyst

Stacy W Sendler Review



EPA METHOD 8040 PHENOLS

Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-10-98
Laboratory Number:	07-09-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-09-98
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenois, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 19

Note:

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

Comments:

QA/QC for sample D587.

Analyst Paleis



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-10-98
Laboratory Number:	07-07-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-07-98
Condition:	Cool & Intact	Date Analyzed:	07-09-98
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 19

Note:

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

Comments:

QA/QC for sample D587.

Alexan R. Galeries. Analyst

Review



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	. Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-10-98
Laboratory Number:	D587	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	07-09-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 198

Note:

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

Comments:

QA/QC for sample D587.

Analyst P. Queen

Stacy W Sendler.
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	07-10-98
Laboratory Number:	07-09-TBN Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-09-98
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

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

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for sample D587.

Decen L. Queen



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	07-10-98
Laboratory Number:	07-07-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-07-98
Condition:	Cool and Intact	Date Analyzed:	07-09-98
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acce	otance Criteria	Parameter	Percent Recovery
		2-fluorobiphenyl	100%
References:	Method 1311, Toxicity	Characteristic Leaching Procedure	e, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

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

Comments: QA/QC for sample D587.

Den P. Queen

Stacy W Sendler
Review



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

Client:	QA/QC	. Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-10-98
Laboratory Number:	D587	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-09-98
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
· · · · · · · · · · · · · · · · · · ·		The second secon

8090 Compounds

30%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for sample D587.

Analyst Cheen

Stacy W Sendler
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	07-10-TCM QA/QC	Date Reported:	07-10-98
Laboratory Number:	D587	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	07-10-98
Condition:	N/A	Date Extracted:	07-07-98

Blank & Duplicate	oficial series (Chair or Arrows at Managalles Chile	Method	Detection	Sample	Duplicate	%	Acceptance
Conc. (mg/L) Arsenic	Blank ND	Blank ND	Limit 0.0001	ND	ND	Diff. 0.0%	Range 0% - 30%
Barium	ND	ND	0.001	2.12	2.13	0.5%	0% - 30%
Cadmium	ND	ND	0.0001	0.0424	0.0432	1.9%	0% - 30%
Chromium	ND	ND	0.0001	0.0223	0.0227	1.8%	0% - 30%
Lead	ND	ND	0.0001	0.0254	0.0248	2.4%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Spike	Spike	Sample	Spiked	Percent	Acceptance
Conc. (mg/L)	Added		Sample	Recovery	Range
Arsenic	0.1000	ND	0.0999	100%	80% - 120%
Barium	1.000	2.12	3.12	100%	80% - 120%
Cadmium	0.0500	0.0424	0.0929	101%	80% - 120%
Chromium	0.0500	0.0223	0.0720	100%	80% - 120%
Lead	0.1000	0.0254	0.1252	100%	80% - 120%
Mercury	0.0250	ND	0.0249	100%	80% - 120%
Selenium	0.1000	ND	0.0997	100%	80% - 120%
Silver	0.0500	ND	0.0498	100%	80% - 120%

ND -- Parameter not detected at the stated detection limit.

References:

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

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals,

SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by

GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments:

QA/QC for sample D587.

Analyst

Review

CHAIN OF CUSTODY RECORD

6156

Z Time 7:17	Date Paceipt	Sample Receipt Received Intact Cool - Ice/Blue Ice	Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date Time Received by: (Signatur Received by: (Signatur Received by: (Signatur Received by: (Signatur Received by: (Signatur Received by: (Signatur Received by: (Signatur Received by: (Signatur S796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615		7:38	ture)	
Receiving	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	50160	No. Contai	S	Lab Number	1 1	Sample Date	Sample No./ Identification
	; Remarks		ners		Project Location Client No.	Relieu	12 And Spactages on	Client / Project Name Grand IRA Sampler:



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

December 11, 1995

CERTIFIED MAIL RETURN RECEIPT NO. Z-765-962-523

Mr. Tim Kinney
General Manager
Crude Gathering Operations
Giant Industries, Inc.
5764 US Highway 64
Farmington, New Mexico 87401

RE: CRUDE OIL TRANSPORTATION AND PIPELINE SPILLS

Dear Mr. Kinney:

The New Mexico Oil Conservation Division (OCD) has reviewed Giant Industries, Inc. (Giant) November 9, 1995 "HANDLING OF SOILS CONTAMINATED WITH CRUDE OIL". This document presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from transportation related spills of crude oil. Giant requests that they be allowed to use these analyses and a statement of process knowledge for determining the soils to be RCRA non-hazardous. 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:

- The above representative analyses can be used in lieu of individual sampling of each spill event until December 31, 1997.
- 2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.

Mr. Tim Kinney December 11, 1995 Page2

Please be advised that OCD approval does not relieve Giant 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 Giant of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have questions please contact me at (505) 827-5885.

Sincerely,

William C. Olson

Hydrogeologist Environmental Bureau

xc: OCD Aztec District Office

Benito Garcia, NMED Hazardous and Radioactive Waste Bureau

District - (505) 393-6161 **ਊ**C. Box ₹980 Hobbs, NM 88241-1980 Discrict II - (505) 748-1283 811 S. First Artesia, NM 88210 Pirtrict III - (505) 334-6178 7 Rio Brazos Road

District IV - (505) 827-7131

__.c, NM 87410

New Mexico Energy Merels and Natural Resources Department Oil Conservation Division

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

RECEIVED

Submit Original Plus I Čopy to appropriate District Office

Form C-138

Originated 8/8/95

JUN 01 1998

Environmental Bureau

REQUEST FOR APPROVAL TO ACCEPT	Oil Conservation Division SOLID WASTE
1. RCRA Exempt: Non-Exempt: X	4. Generator Ciniza Pipeline
Verbal Approval Received: Yes No No	Bisti Station 5. Originating Site T26N,R12W,S17
Grant Mid-Continent 2. Management Facility DestinationT25N,R16W, Sec16	6. Transporter Giant Transportation
3. Address of Facility Operator 111CR 4990 Bloomfield, NM. 87410	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	T26N,R12W, S17
 9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accepted of the control	ompanied by necessary chemical analysis to
All transporters must certify the wastes delivered are only those consigne	ed for transport.
onto Arco's Bisti Station property and was contained in a asphalt bottom with sand and gravel on top of the asphalt. berm. Giant Transportation used a transport truck to remov	All crude oil was contained within th
Thoused e of process. por	OIL CON. DIV.
Estimated Volume cy Known Volume (to be entered by the o	perator at the end of the haul) ————————————————————————————————————
Waste Management Facility Authorized Agent	vironment ManagerDATE: 5/29/98
TYPE OR PRINT NAME: Barry G. Holman TE	ELEPHONE NO. 505-632-4077
(This space for State Use)	
APPROVED BY: Mortyn J. Tout TITLE: Geolo	09 ist DATE: 5/29/98
APPROVED BY: Mortyn 2kh. TITLE: Enc.	Geologist DATE: 5/1/98



OIL COM. DIV.

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Ciniza Pipeline	Giant Mid-Continent Landfarm
111 CR 4990 Bloomfield, NM. 87410	T25N, R12W, Sec 16
produited, NM. 8/410	125N, KIZW, 5eC 10
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Arco Bisti Station	T26N, R12W, S-17
Attach list of addingting sites as appropriet	
Attach list of originating sites as appropriate 4. Source and Description of Wests Material	is sand and gravel contaminated soil from pipeline
leak taht developed in the bottom of	a 10" transfer pipe from Arco's Bisti Station. The
	tion Property. The leaking crude oil traveled on a
	ation property.and was contained in a bermed area.
The bermed area has a asphalt bottom	with sand and gravel on top of the asphalt. All
Crude oil was contained within the be	erm. Giant Transportation used a transport truck
to remove the standing oil and recove	ered 92 BBL's.
I, Roy Armenta	representative for:
(Print Name)	
Giant Transportation	overy Act (RCRA) and Environmental Protection Agency's July,
1988, regulatory determination, the above describ	
XXDUD-	,,,,,
EXEMPT oilfield waste NON-E	XEMPT oilfield waste which is non-hazardous by characteristic
analysi	s or by product identification
and that nothing has been added to the exempt of	r non-exempt non-hazardous waste defined above.
	ocumentation is attached (check appropriate items):
MSDS Information	Other (description):
RCRA Hazardous Waste Analysis	
Chain of Custody	Form C-141
Name (Original Signature)	
Name (Original Signature):	
Title: Pipeline Manager	

#1

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

District IV - (505) 827-7131

APPROVED BY: Martyn

New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

Fe, New Mexico 87505 (505) 827-7131 MAY 05 1998

Form C-138
Originated 8/8/95

DECFIVED
Submit Original

Submit Original Plus 1 Copy to appropriate District Office

Environmental Bureau

REQUEST FOR APPROVAL TO ACCEPT	SOLID WASTE
1. RCRA Exempt: Non-Exempt: XX	4. Generator Ciniza Pipeline
Verbal Approval Received: Yes 🔲 No 🙀	5. Originating Site Verda Gallup
2. Management Facility Destination Giant Industries, Inc.	6. Transporter Giant Transpotation
3. Address of Facility Operator 111 CR 4990 Bloomfield NM. 87413	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	E30N, R16W, Sec. 9 Verda Gallup Station
9. <u>Circle One</u> :	
 A. All requests for approval to accept oilfield exempt wastes will be accepted acceptance; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accepted ac	companied by necessary chemical analysis to on of origin. No waste classified hazardous by
All transporters must certify the wastes delivered are only those consigne	d for transport.
Close out of Verda Gallup Staion, removel of the Including 60 Yards of Iron Sulfide on Tank Both 460 Yards. TCLP and Re-Affirmation Statement Attached	toms. Total volume is estimated at
Estimated Volume — 460 cy Known Volume (to be entered by the op	MAPR 2 8 1998 OIL COMO DIVA DISTA SE
SIGNATURE: Waste Management FacilityAuthorized Agent TYPE OR PRINT NAME: BArry C. Holman TE	LEPHONE NO. JOJ-1.32-4077
(This space for State Use) APPROVED BY: Demy 2. Fam TITLE: G-CO!	0919T DATE: 4/29/98

CERTIFICATE OF WASTE STATUS

1 Consister Name and Address	2. Destination Name:
1. Generator Name and Address:	
inCiniza Ripedine	Giant Industries, Inc.
111 CR 4990	Landfarm
Bloomfield, NM. 87413	T 25N, R112W, Sec. 16
3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Verda Gallup Station	T 30N, R16 W, Sec. 9
teraa aarrap oodoron	·
,	
Attach list of originating sites as appropriate	
4. Source and Description of Waste	
Class out of Vanda Callum Station	n, removel of tanks and all contaminated soil includin
Close out of verda dallup station	1, remover of carks and arr concaminated sort merasing
60 yards of tanksbottoms.	
Pay Ammonta	representative for
Roy Armenta (Print Name)	representative for:
Giant Transportation	
	Recovery Act (RCRA) and Environmental Protection Agency's July,
	escribed waste is: (Check appropriate classification)
EXEMPT oilfield waste XX NO	ON-EXEMPT oilfield waste which is non-hazardous by characteristic
an	nalysis or by product identification
and that nothing has been added to the exen	npt or non-exempt non-hazardous waste defined above.
•	ng documentation is attached (check appropriate items):
MSDS Information	Other (description):
XX. RCRA Hazardous Waste An	alysis
XX Chain of Custody	
Name (Original Cinnetural)	
Name (Original Signature):	



RADIATION & CONTAMINATION SURVEY LOG

PAGE 1 OF

Battery check performed satisfactory?: Background Reading: 10-15 µR/hr Date: 4/38/98 Time: Phase. Task: lies Site Location Harback Site Address Project No.:_ Calibration check/response reading: 380 µR/hr: (SN410254) Mode 44-2 (SN-PR) 10346 Project Name Signt Transportation Verde-Gally Station Calibration due date: 8/1/98Client Company Client Exposure rate instrument: Survey performed by: Project Manager_

Battery check performed satisfactory?:

µR/hr:

Calibration check/response reading:

TYPE, PROBE TYPE, SERIAL NUMBER

Count rate instrument:

Calibration due date:

			 	 	 		 	-
INITIALS and EMPLOEE NUMBER	Com 6794							
BACKGROUND READING µR/hr or DPM/100 cm²								
LOOSE CONTAMINATION (DPM/100cm²)		l				•		
EXPOSURE READING (µR/hr)	Backaround	12 xR/1/1.						
ITEM SURVEYED	Tank Bottom Moterial	(Verde-Gallup)						M = CPM
DATE	1/28/98	7						= MACI

DPM =

% Detector Efficiency

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

Reviewed by:



REAFFIRMATION OF WASTE STATUS/NON-EXEMPT WASTE

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

Date of TCLP

Printed Name

5-1-97 BARRY HOLMAN

Title/Agency

MANAGER SARTY + ENVIRONT

Address

111 CR 4990 DIDONATION.

Signature

Boy UAJ 4/28/98

Date



SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:

Freemyer

Project #:

96070-3

Sample ID:

#1 Composite Tank Bottoms

Date Reported:

04-28-97

Lab ID#:

B177

Date Sampled:

04-26-97

Sample Matrix:

Solid

Date Received:

04-28-97

Preservative:

Cool

Date Analyzed:

04-28-97

Condition:

Cool & Intact

Chain of Custody:

5194

Parameter

Result

IGNITABILITY:

Negative

CORROSIVITY:

Negative

 $pH \approx 4.57$

REACTIVITY:

Negative

RCRA Hazardous Waste Criteria

Parameter

Hazardous Waste Criterion

IGNITABILITY:

Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21.

(i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)

CORROSIVITY:

Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.

(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

REACTIVITY:

Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation

of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference:

40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments:

Station #9 / Ciniza, Gallup Horse Shoe Field.



EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	04-30-97
Laboratory Number:	B177	Date Sampled:	04-26-97
Chain of Custody:	5194	Date Received:	04-28-97
Sample Matrix:	Solid	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	04-30-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

		Detection	Regulatory
	Concentration	Limit	Limits
Parameter	(mg/L)	(mg/L)	(mg/L)
Vinyl Chloride	ND	0,0001	0.2
1,1-Dichloroethene	ND	0.0001	. 0.7
2-Butanone (MEK)	0.0214	0.0001	200
Chloroform `	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0144	0.0001	0.5
1,2-Dichioroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria		Parameter	Percent Recovery	
		Trifluorotoluene	97%	
		Bromofluorobenzene	100%	
References:	nces: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1			
	Method 5030, Purge-an	d-Trap, SW-846, USEPA, July 1992	2.	
	Method 8010, Halogena	ated Volatile Organic, SW-846, USE	PA, Sept. 1994.	
	Method 8020, Aromatic	Volatile Organics, SW-846, USEPA	, Sept. 1994.	
Note:	Regulatory Limits based	on 40 CFR part 261 Subpart C sec	etion 261.24, July 1, 1992.	
Comments:	Station #9 / Ciniza,	, Gallup Horse Shoe Field.		

Analyst Geleven



EPA METHOD 8040 PHENOLS

Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	05-02-97
Laboratory Number:	B177	Date Sampled:	04-26-97
Chain of Custody:	5194	Date Received:	04-28-97
Sample Matrix:	Solid	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	05-02-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.276	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	102%	
	2,4,6-Tribromophenol	102%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 198

Note:

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

Comments:

Station #9 / Ciniza, Gallup Horse Shoe Field.



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

Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	05-02-97
Laboratory Number:	B177	Date Sampled:	04-26-97
Chain of Custody:	5194	Date Received:	04-28-97
Sample Matrix:	Solid	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	05-02-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.021	0.020	5.0
Hexachloroethane	0.098	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	0.065	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery

2-fluorobiphenyl

100%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

Station #9 / Ciniza, Gallup Horse Shoe Field.

Analyst L. Callier

Stacy W Sendler
Review



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Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	05-01-97
Laboratory Number:	B177	Date Sampled:	04-26-97
Chain of Custody:	5194	Date Received:	04-28-97
Sample Matrix:	Solid	Date Analyzed:	04-30-97
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals
		Det.	Regulatory
	Concentration	Limit	Level
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	ND	0.001	5.00
Barium	ND	0.01	100
Cadmium	ND	0.001	1.00 .
Chromium	ND	0.001	5.00
Lead	0.014	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00

ND - Parameter not detected at the stated detection limit.

References:

Silver

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

0.001

July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, July 1992.

ND

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by

GFAA and Cold Vapor Techniques, SW-846, USEPA.

Note:

Regulatory Limits based on 40 CFR part 261 subpart C

section 261.24, July 1, 1992.

Comments:

Station #9 / Ciniza Gallup Horse Shoe Field.

Analyst



QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



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

Client:	QA/QC	Project#:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-30-97
Laboratory Number:	04-30-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-97
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	97%
	Bromofluorobenzene	101%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for samples B176 - B177.

Stacy W Sendler.
Review



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-30-97
Laboratory Number:	04-28-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	101%

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note:

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

Comments:

QA/QC for samples B176 - B177.

Analyst Levencer

Review Stacy W Sandler



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-30-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

		Duplicate		
	Sample	Sample	Detection	
	Result	Result	Limits	Percent
Parameter	(mg/L)	(mg/L)	(mg/L)	Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0085	0.0085	0.0001	0.0%
Chloroform .	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0057	0.0060	0.0001	5.3%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples B176 - B177.

Analyst R. Ogence



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

Client: Sample ID:

QA/QC Matrix Spike Project #: Date Reported: N/A 04-30-97

Laboratory Number: Sample Matrix:

B176 Soil Date Sampled: N/A
Date Received: N/A

Analysis Requested:

TCLP

Date Analyzed:

04-30-97

Condition:

N/A

Date Extracted: 04-28-97

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0502	0.0001	100%	28-163
1,1-Dichloroethene	ND	0.050	0.0490	0.0001	98%	43-143
2-Butanone (MEK)	0.0085	0.050	0.0584	0.0001	100%	47-132
Chloroform	ND	0.050	0.0499	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0502	0.0001	100%	43-143
Benzene	0.0057	0.050	0.0549	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0493	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0500	0.0003	100%	35-146
Tetrachloroethene	ND	0.050	0.0488	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0507	0.0003	101%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0499	0.0002	100%	42-143

ND - Parameter not detected at the stated detection limit.

References:

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

Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.

Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994. Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments:

QA/QC for samples B176 - B177.

Analyst

Review



EPA METHOD 8040 PHENOLS

Quality Assurance Report <u>Laboratory Blank</u>

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	05-02-97
Laboratory Number:	05-02-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-02-97
Condition:	N/A	Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	97 %

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solic

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solii

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenois, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1

Note:

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

Comments:

QA/QC for samples B176 - B177.

Alexand. Oferen

Stacy W Sendler
Review



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	05-02-97
Laboratory Number:	04-28-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool & Intact	Date Analyzed:	05-02-97
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery	
	2-Fluorophenol	102%	
	2,4,6-Tribromophenol	98%	

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solic

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solic

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1

Note:

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

Comments:

QA/QC for samples B176 - B177.

Secu L. Cejesco.
Analyst

Review Stacy W Sendler



EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:

QA/QC

Project #:

N/A

Sample ID:

Matrix Duplicate

Date Reported:

05-02-97

Laboratory Number: Sample Matrix:

B176

Date Sampled: Date Received:

N/A N/A

Preservative:

Soil Cool

Date Extracted:

04-28-97

Condition:

Cool & Intact

Date Analyzed:

05-02-97

Analysis Requested:

TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	0.094	0.092	0.020	2.5%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:

Parameter

Maximum Difference

8040 Compounds

30.0%

References:

Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid

Waste, SW-846, USEPA, July 1992.

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 19

Note:

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

Comments:

QA/QC for samples B176 - B177.

Stacy W Sendler.
Review



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

Client: Sample ID: QA/QC Laboratory Blank Project #:
Date Reported:

N/A 05-02-97

Laboratory Number:

05-02-TBN.BLANK

Date Sampled: N/A
Date Received: N/A

Sample Matrix:
Preservative:

Hexane N/A

Date Extracted:
Date Analyzed:

N/A

Condition:

N/A

Analysis Requested:

05-02-97 TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Crit	eria

Parameter

Percent Recovery

2-fluorobiphenyl

102%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for samples B176 - B177.

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	05-02-97
Laboratory Number:	04-28-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool and Intact	Date Analyzed:	05-02-97
		Analysis Requested:	TCLP

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

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for samples B176 - B177.

Dem L. Green
Analyst

Review Lacy W Sendler



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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-02-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-28-97
Condition:	N/A	Date Analyzed:	05-02-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.022	0.022	0.0%	0.020
Hexachioroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	0.095	0.094	1.0%	0.020
HexachloroBenzene	0.026	0.025	5.3%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References:

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

Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.

Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note:

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

Comments:

QA/QC for samples B176 - B177.

Ahalyst Quesan



Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	05-01-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	N/A

	Instrument	Method	Det.
	Blank	Blank	Limit
Parameter	(mg/L)	(mg/L)	(mg/L)
Arsenic	ND .	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND ⁻	0.001

ND - Parameter not detected at the stated detection limit.

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by

GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments:

QA/QC for samples B176, B177 and B183.

Analyst

Stacy W Sendler Review



Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-01-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

	Sample	Duplicate	Percent
Parameter	Result (mg/L)	Result (mg/L)	Difference
Arsenic	ND	ND	0.0%
Barium	0.43	0.42	2.4%
Cadmium	0.094	0.092	2.2%
Chromium	ND	ND	0.0%
Lead	0.168	0.164	2.4%
Mercury	ND	ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	<u> </u>	Difference
ILIA/ILI. ACCENTANCE I INTERA:	Parameter	Maximum Difference
AND ACCEPTANCE CITERIA.	raiailietei	Maximum Direction

Trace Metals

30 %

tacy W Sendler

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by

GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments:

QA/QC for samples B176, B177 and B183.

Analyst

Review



Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	05-01-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	0.100	ND	0.099	99%
Barium	1.00	0.43	1.42	99%
Cadmium	0.050	0.094	0.142	99%
Chromium	0.050	ND	0.049	98%
Lead	0.100	0.168	0.263	98%
Mercury	0.025	ND	0.024	96%
Selenium	0.100	ND	0.099	99%
Silver	0.050	ND	0.051	102%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
		

TCLP Metals

80 - 120 %

References:

Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA,

July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total

Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by

GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments:

QA/QC for samples B176, B177 and B183.

Analyst Queen

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RADIATION & CONTAMINATION SURVEY LOG

PAGE 1 OF

		Date: 4/d8/48 Time:
Project Name Signt Transportation Verde-Coally Station	Project No.:	Phase Task:
Project Manager	Site Location Hay	Site Location Hay book Ales Med
Client Company (DIANT	Site Address	
Survey performed by: Exposure rate instrument: Calibration due date: 8/1/98 Calibration due date: 8/1/98 Calibration check/response reading: 38D µR/hr:	V-PR:10346 380 µR/hr:	Background Reading: 10-15 µR/hr Battery check performed satisfactory?:
Count rate instrument:		Battery check performed satisfactory?:

µR/hr:

TYPE, PROBE TYPE, SERAL NUMBER

Calibration check/response reading:

Calibration due date:

INITIALS	and and and	EMPLOEE NUMBER	Cmy 6794		-				
BACKGROUND	READING	µK/hr or DPM/100 cm							
LOOSE	CONTAMINATION CONTAMINATION	(DPM/100cm ⁻)						•	
EXPOSURE	READING	(µK/nr)	Backaround	12 uR/hr. 1	/				
ITEM SURVEYED			/	(Verde-Gallup)					
DATE			4/28/98						

CPM % Detector Efficiency

DPM=

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

Reviewed by:

	ANALYSIS/PARAMETERS	Remarks							eined del s'intack	Durk)). Dete Time	-K. (4249) 8:38			
CHAIN OF CUSTODY RECORD	N#9/CINIZA HORSE SHOE FIELD			Sample Zonia Matrix	Solib 2 /				A chus	-		Date Time Received by (S)gnature)	4/28/5 9:38 1 Ken	Received by: (Signature)	Received by: (Signature)	ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615
	-3 STATION STATION	Chain of Custody Tape No.	,	Sample Lab Number Time	1236 5177		!	·								
	YER 96070-3	(i	: O. Hours	Sample Date	Composite 4/26/21	3sttory						ignature)	DAVID. United	Signature)	Signature)	
	Clien/Project Name FREE MYER	Sampler: (Signature)	moni O.	Sample No./ Identification	#1 con	TANK Betterns					!	Relinquished by: (Signature)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Relinquished by: (Signature)	Relinquished by: (Signature)	

Submit 5 copies to Appropriate District Office DISTRICT-

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

Ener

OR MISCELLANEOUS HYDROCARBONS AT THE TREATING PLANT TO WHICH IT IS DELIVERED.

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-117 A Revised 4-1-91

Transporter (2)

ICT II

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

1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 S Pacheco Santa Fc, New Mexico 8/504-2088

PERMIT NO. 3-590

Operator or Owner_	Ciniza Pipeline	
ease or Facility Nar	me Verde Callup Station	Location Sec 9 T30N, RIGW
OPED ATION T	O BE PERFORMED:	U.L Sec Twp Rge.
JERATION I		Transportation of Miscellaneous Hydrocarbons
	Operator or Owner Representative authorizing work	2A Pipeline
	Date Work to be Performed	
	TANK CLEANING DATA Tank Number / + 2	Volume 1=10,000661 2= 15,000661
	Tank TypeSEDIMENT OIL OR MISCELLANEOUS HYDROCAI	Volume Below Load Line
	Sediment Oil from: Pit Cellar Other	r
	MISCELLANEOUS OIL Tank Bottoms From: Pipeline Station Crude Ten	ninal Refinery Dther*
	Catchings From: Gasoline Plant Gathering Lines	Salt Water Disposal System Other*
	Pipeline Break Oil or Spill	
	*Other (Explain) Residual Trobe Sulfile wit	4 minimum Hylnocarbon After recovering
	good oil.	
YOLUME AN		Bbls. Field test volume of good oilBbls. (Not required prior to Division approval)
	Destination (Name and Location of treating plant or other facility)	GIANT Industries, The
	T25W, R12W, Sec	16
DESTRUCTIO	ON OF SEDIMENT OIL BY: Burning (Explain)	Pit Disposal Use on Roads or firewalls Other
•	Location of Destruction Will be land Farmal	It postion state Above
	Justification of Destruction	
	TON: (APPLICATION MAY BE MADE BY EITHER OF THE F certify that the infomation above is true and complete to the best of m	
	Owner GIANT INJUSTICE INC	Transporter GigaT Transportation
	By BArry 6 Holman	Address III CRUGGO Bloom A. 12 Nm. 874
	Tille MANAgar of SAFAY & BLUTTOLA	Signature Kay I Am
	Date 4/28/98	Tille MALAgnot SALAHA ELVION Bale 4/28/98
OIL CONSER	<u>VATION DIVISION</u>	
Approved Du	Tite &	Did Same 4/28/28
Approved By	Title_/	Distribution by OCD
	FORM MUST BE ON LOCATION DURING TANK CLEANING, I	Santa Po