

REMOVAL OF ELEVEN
UNDERGROUND STORAGE TANKS

03/08/90

PFIZER PIGMENTS PLANT
4650 Shellmound Street
Emeryville, California
Job No. 04733W

March 8, 1990

Prepared for:

Pfizer Pigments Inc.
4650 Shellmound Street
Emeryville, California

Prepared by:

ROUX ASSOCIATES WEST, INC.
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ROUX

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RELEASE (LEAK) CONTAMINATION SITE REPORT

1.0 INTRODUCTION

Eleven underground fuel tanks were removed from the Pfizer Pigments Inc. (Pfizer) facility at 4650 Shellmound Street, Emeryville, California on December 12 and 13, 1989 (Figures 1 and 2). The underground tanks were removed according to procedures and information described in an Underground Tank Closure/Modification Plan submitted by Pfizer to the Alameda County Department of Environmental Health Hazardous Materials Division (DEH) on November 20, 1989. Along with the tank closure plan, a site/area health and safety plan, insurance certificate, and deposit fee of \$1,875.00 were submitted by Pfizer. Based on the information provided in the Underground Tank Closure/Modification Plan, permit U55 2969 was issued by DEH for the tank removal. This report presents results from the tank removal including laboratory reports of soil and water analyses, chain-of-custody forms, and other pertinent material. Roux Associates West, Inc. (Roux) was retained by Pfizer to develop a work plan, and a health and safety plan for tank removal. Roux observed tank removal activities and performed soil and water sampling.

2.0 TANK REMOVAL

Eleven fuel tanks were removed by Diablo Tank and Equipment of Martinez, California on December 12 and 13, 1989.

Representatives of the Alameda County Department of Health Services and City of Emeryville Fire Department were present to observe the tank removals. Mr. Jerry Wickham of Roux Associates was also present on December 12 and 13, 1989 to observe tank removals.

Nine 10,000-gallon diesel fuel tanks, one 10,000-gallon Bunker C fuel oil tank, and one 1,000-gallon gasoline tank were removed. The gasoline tank was located in a tank pit adjacent to Maintenance Shop Bldg. No. 6 (Figure 2). The remaining ten tanks were within a single tank pit west of office Bldg. No. 7 (Figure 2). Prior to removal, 300 pounds of dry ice was placed in each tank to purge fuel vapors from the tanks. Vapor levels within the tanks, relative to the lower explosive limits, were monitored by the City of Emeryville fire inspector prior to removal. The empty tanks were transported by Erickson Trucking, Inc., Dillard Trucking, Inc., and Doug Koebel Trucking to the Erickson, Inc. facility in Richmond, California for cleaning and processing. Uniform Hazardous Waste Manifests for transport of the tanks (TSDf to Generator copies) are included in Appendix C.

During removal of a diesel tank from the northeastern corner of

the large diesel tank pit on December 13, 1989, several holes were observed in the lower half of the tank. The largest hole was along the center seam of the tank and was about one inch wide and four inches long. An Underground Storage Tank Unauthorized Release (Leak)/ Contamination Site Report was completed on December 18, 1989 and submitted to DEH by Pfizer (Appendix D). The volume of fuel lost is unknown but the tank was only filled once in its lifetime.

A total volume of approximately 550 cubic yards of soil was removed from the diesel fuel tank pit and stockpiled at the surface by Diablo Tank and Equipment. Based on the results of soil analyses, soil containing less than 100 mg/kg Total Petroleum Hydrocarbons as Diesel (TPH-D) was transported by Dillard Trucking, Inc. of Byron, CA to the Redwood Landfill in Novato, California and West Contra Costa County Landfill in Richmond, California. The remaining approximately 250 cubic yards of soil containing greater than 100 mg/kg TPH-D was transported by Dillard Trucking to Liquid Waste Management in McKittrick, California. Documentation for the soil removal activities is included in Appendix C.

The diesel tank pit was back-filled with fill that was imported to the site and compacted by Diablo Tank and Equipment. The gasoline tank pit was back-filled with the soil excavated during removal. Back-filling of both tank pits was verbally approved by

Mr. Gil Wistar of DEH. Cement slabs were poured over the back-filled pits under the direction of Diablo Tank and Equipment.

3.0 SAMPLING

Soil and water samples were collected by Roux to determine the extent, if any, of contamination related to the underground tanks. Twelve soil samples were collected from the sidewalls of the large diesel tank pit and analyzed for Total Petroleum Hydrocarbons as Diesel (TPH-D, Modified USEPA Method 8015), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX, USEPA Method 8020), and Oil & Grease (USEPA Method 503E). Two soil samples were collected from the gasoline tank pit and were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G, Modified USEPA Method 8015) and BTEX (USEPA Method 8020). Forty-four soil samples were collected from the stockpiled soil that was removed from the diesel tank pit. Four samples were taken from every 50 cubic yards of stockpiled soils. Each set of four samples was composited into one sample in the laboratory and analyzed for TPH-D. The locations of all soil samples are shown on Figure 3.

Two water samples were taken from the large diesel tank pit and analyzed for Total Petroleum Hydrocarbons (TPH). Water entered the bottom of the large diesel tank pit to a depth of approximately one to two feet within two separate areas of the tank pit. The water was pumped from the pit on December 13, 1989 and samples were collected 24 hours later on December 14, 1989 after water had re-entered the tank pit. No water entered the shallower gasoline tank pit. Water pumped from the diesel tank

pit was stored in a holding tank located on site. Water sample BT-1 was collected from the holding tank and analyzed for TPH and 28 volatile organic compounds. The water in the holding tank was subsequently used as irrigation water at the Pfizer Pigments plant with the permission of the East Bay Municipal Utility District (Deblock, 1990). The laboratory results are located in Appendix A of this report. Chain-of-Custody documentation is located in Appendix B.

Soil samples taken from the sidewalls of the tank pit excavations were collected using a stainless steel liner sampler with extensions and slide hammer or were collected from the bucket of a backhoe. Where possible, the samples were collected with the stainless steel sampler by driving the sampler into the sidewall at a selected discrete sampling location. The locations of sidewall samples were discussed in the field with Mr. Gil Wistar of DEH, who was present during the excavation and removal of the underground tanks.

The stainless steel sampler contained a two-inch diameter, six-inch long brass liner. After the sampler was driven into the excavation sidewall using a slide hammer and extensions, the brass liner was removed, capped with plastic end caps, sealed with electrical tape over the caps, and labelled. The liners were then placed in an ice chest with blue ice for delivery to the laboratory.

Samples were taken from the backhoe bucket where the stainless steel sampler could not be used. The bucket dug into the sidewall at a specified location and brought the material to the surface. A brass liner was forced into the soil to obtain a sample. The liners were then capped and handled as described above.

The three water samples were collected from the water that accumulated in the diesel tank pit and from the holding tank using disposable bailers. The water samples were transferred from the bailers to glass vials and bottles provided by Curtis & Tompkin Laboratories of Berkeley, California. The sample containers were placed in an ice chest with blue ice for delivery to the laboratory. Chain-of-Custody documentation was maintained for the water samples.

4.0 LABORATORY RESULTS

The laboratory results for the 58 soil samples are provided in Table 1. Analysis of soils were performed by Curtis & Tompkins Laboratories of Berkeley, CA, Superior Analytical Laboratory of San Francisco, CA, and Anametrix of San Jose, CA.

Soil samples taken from the walls of the diesel tank pit (samples S1-S4, and S17-S26; Figure 3) did not contain detectable levels of TPH and BTEX with the exceptions of samples S-3 and S-19 (Table 1). Sample S-3 contained 6.0 ug/kg toluene and 33 ug/kg total xylenes; sample S-19 contained 40 ug/kg total xylenes and 13 ug/kg ethyl benzene. TPH were not detected in either sample. Oil and grease analyses of the sidewall samples from the diesel tank pit ranged from not detected to 120 mg/kg. TPH-G and BTEX were not detected in all soil samples collected from the gasoline tank pit (Table 1).

Samples from the stockpiled soil removed from the diesel tank pit contained 16 to 190 ppm TPH-D (Table 1). The analytical results for each composite sample are shown on Figure 3.

Laboratory results for the two water samples and one water sample from the holding tank are presented in Table 2. Analysis of water samples was performed by Curtis and Tompkins Laboratories. Water in the holding tank did not contain detectable levels for

all analytes except for 10 mg/L Total Petroleum Hydrocarbons as Kerosene (TPH-K), 7.6 ug/L toluene, and 1.4 ug/L ethylbenzene. Sample GW-1 contained 3.0 mg/L TPH-D, 61 mg/L oil and grease, and not detectable levels for all other analytes. Sample GW-2 contained 0.10 mg/L TPH-K, 3.5 mg/L total xylenes, and not detectable levels for other analyzed compounds.

5.0 CONCLUSIONS

Eleven underground storage tanks were removed from two tank pits at the Pfizer Pigments plant in Emeryville, California on December 12 and 13, 1989. Results of soil and ground-water analyses and observations during tank removal indicate the following:

- 1) One 10,000-gallon diesel fuel storage tank removed from the northeastern corner of the diesel fuel tank pit had several holes in the lower half of the tank.
- 2) The soil excavated during tank removal from the diesel fuel tank pit contained TPH-D at average concentrations ranging from 15 to 190 mg/kg. The excavated soil was disposed off-site and the tank pit was backfilled with imported soil.
- 3) The soils at the perimeters of the former diesel tank pit did not contain detectable levels of TPH-D indicating that the diesel fuel contamination did not extend outside the former tank pit. Analyses of 12 soil samples collected from the sidewalls of the diesel fuel tank pit excavation did not detect TPH-D. Minor concentrations of toluene, xylenes, and ethylbenzene were detected in two of the sidewall samples. The excavation sidewalls were in fill material immediately outside the former tank pit. Oil and grease was detected in eight of the 12 sidewall soil samples at concentrations up to 120 mg/kg. These levels

are considered representative of ambient regional oil and grease concentrations in soil due to historic industrial activities in the area.

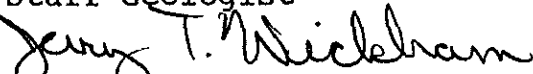
- 4) No TPH-G, BTEX, or oil & grease were detected in soil samples from the gasoline tank pit.
- 5) The concentration of TPH-D in ground water beneath the former tank pit is relatively low. Two water samples, GW-1 and GW-2, collected from the diesel tank pit contained 3.0 mg/L TPH-D and not detectable TPH-D, respectively. TPH-K was detected at 0.10 mg/L and xylenes at 3.5 ug/L in sample GW-2.

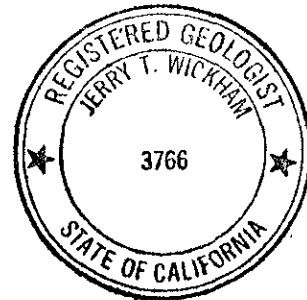
6.0 RECOMMENDATIONS

We recommend that this tank removal report be submitted to the Alameda County Department of Environmental Health and San Francisco Regional Water Quality Control Board. We do not recommend additional investigation or remediation of soil contamination within the diesel fuel tank pit area. Excavation and off-site disposal has removed soils contaminated with TPH-D from the site. We do not recommend ground-water monitoring wells in the vicinity of the diesel fuel tank pit because the concentration of TPH-D in ground-water samples from the tank pit was relatively low, ranging from not detectable to 3.0 mg/L.

Respectfully Submitted,
ROUX ASSOCIATES WEST, INC.


Gregory Murphy
Staff Geologist


Jerry T. Wickham
Principal Hydrogeologist
California Registered Geologist No. 3766



7.0 REFERENCES

DEBLOCK, J.N. 1990. Pfizer Pigments Inc. Personal Communication to Jerry Wickham, Roux Associates West, Inc. February 28, 1990.

TABLES

TABLE 1. SOIL QUALITY DATA
 PFIZER PIGMENTS INC., EMERYVILLE, CALIFORNIA

SAMPLE	EXTRACTABLE PETROLEUM HYDROCARBONS						
	DIESEL	GASOLINE	BENZENE	TOLUENE	XYLENE	ETHYL BENZENE	OIL & GREASE
	USEPA 8015 (mg/kg)	USEPA 8015 (mg/kg)	USEPA 8020 (ug/kg)	USEPA 8020 (ug/kg)	USPA 8020 (ug/kg)	USEPA 8020 (ug/kg)	USEPA SMWW 503E (mg/kg)
Soil Samples Taken From Tank Pits							
S-1	ND	NA	ND	ND	ND	ND	120
S-2	ND	NA	ND	ND	ND	ND	94
S-3	ND	NA	ND	6.0	33	ND	82
S-4	ND	NA	ND	ND	ND	ND	ND
S-17	ND	NA	ND	ND	ND	ND	70
S-18	ND	NA	ND	ND	ND	ND	63
S-19	ND	NA	ND	ND	40	13	50
S-20	ND	NA	ND	ND	ND	ND	ND
S-21	NA	ND	ND	ND	ND	ND	NA
S-22	NA	ND	ND	ND	ND	ND	NA
S-23	ND	NA	ND	ND	ND	ND	ND
S-24	ND	NA	ND	ND	ND	ND	160
S-25	ND	NA	ND	ND	ND	ND	ND
S-26	ND	NA	ND	ND	ND	ND	40

 Composite Samples Taken From Stockpiled Soil

S-5,S-6	
S-11,S-12	110
S-7,S-8	
S-13,S-14	130
S-9,S-10	
S-15,S-16	27
S-27,S-28	
S-29,S-30	39
S-31,S-32	
S-33,S-34	84
S-35,S-36	
S-37,S-38	15
S-39,S-40	
S-41,S-42	110
S-43,S-44	
S-45,S-46	190
S-47,S-46	
S-49,S-50	34
S-51,S-52	
S-53,S-54	36
S-55,S-56	
S-57,S-58	16

ND = not detected
 NA = not analyzed

TABLE 2. WATER ANALYSES
 PFIZER PIGMENTS INC., EMERYVILLE, CALIFORNIA

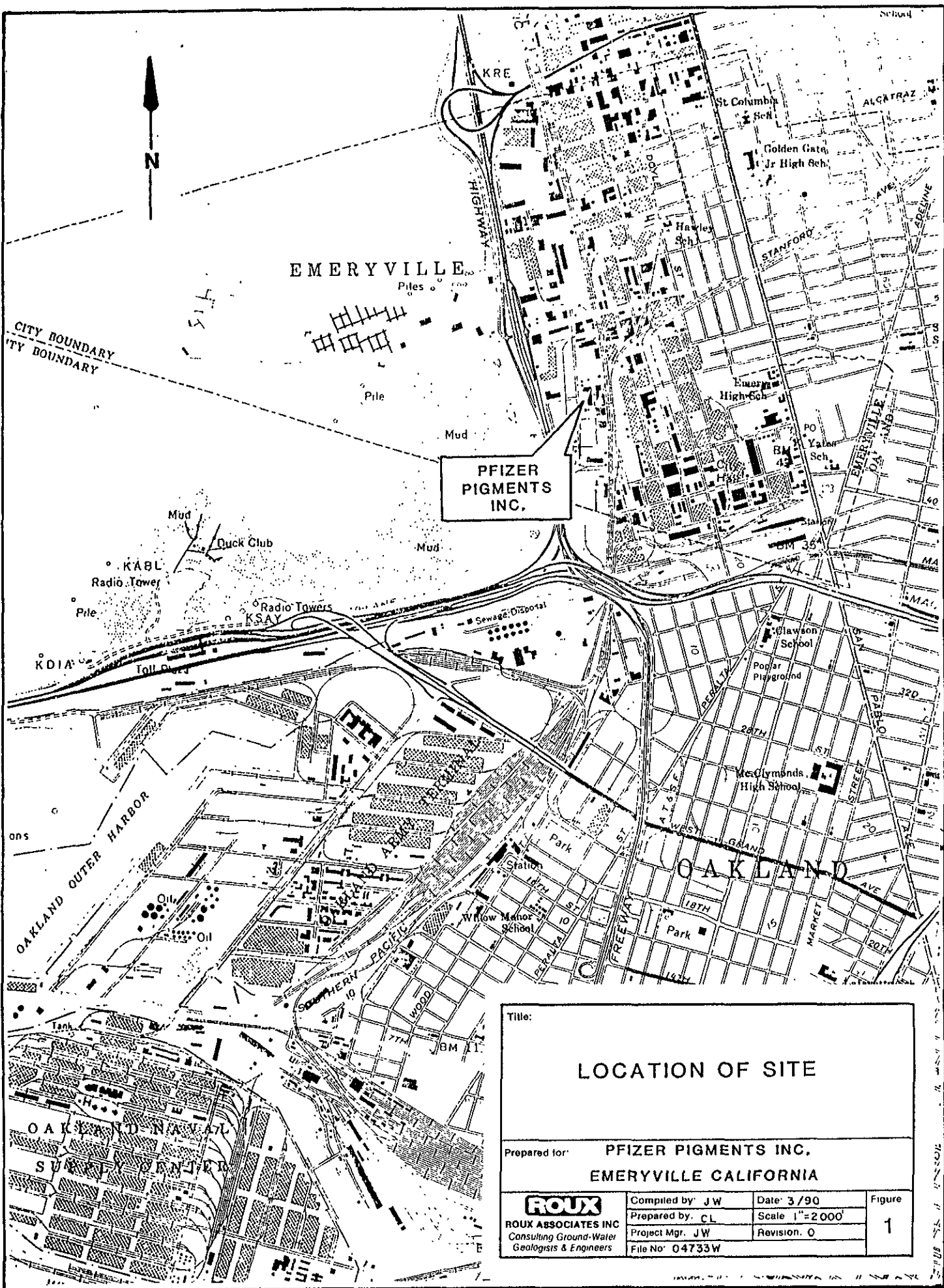
SAMPLE	EXTRACTABLE PETROLEUM HYDROCARBONS						OIL & GREASE USEPA SMW 503E
	KEROSENE USEPA 8015	DIESEL USEPA 8015	BENZENE USEPA 8020	TOLUENE USEPA 8020	XYLENES USEPA 8020	ETHYL BENZENE USEPA 8020	
	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)
Water Samples Taken From Tank Pits							
GW-1	ND	3.0	ND	ND	ND	ND	61
GW-2	.10	ND	ND	ND	3.5	ND	ND
Water Sample Taken From Holding Tank							
BT-1	10	ND	ND	ND	7.6	ND	NA

USEPA 624: VOLATILE ORGANICS IN WATER

BT-1 1.4 ug/L toluene, 1.4 ug/L ethyl benzene; ND for other 26 USEPA volatile organics.

ND = Not detected
 NA = Not analyzed

FIGURES



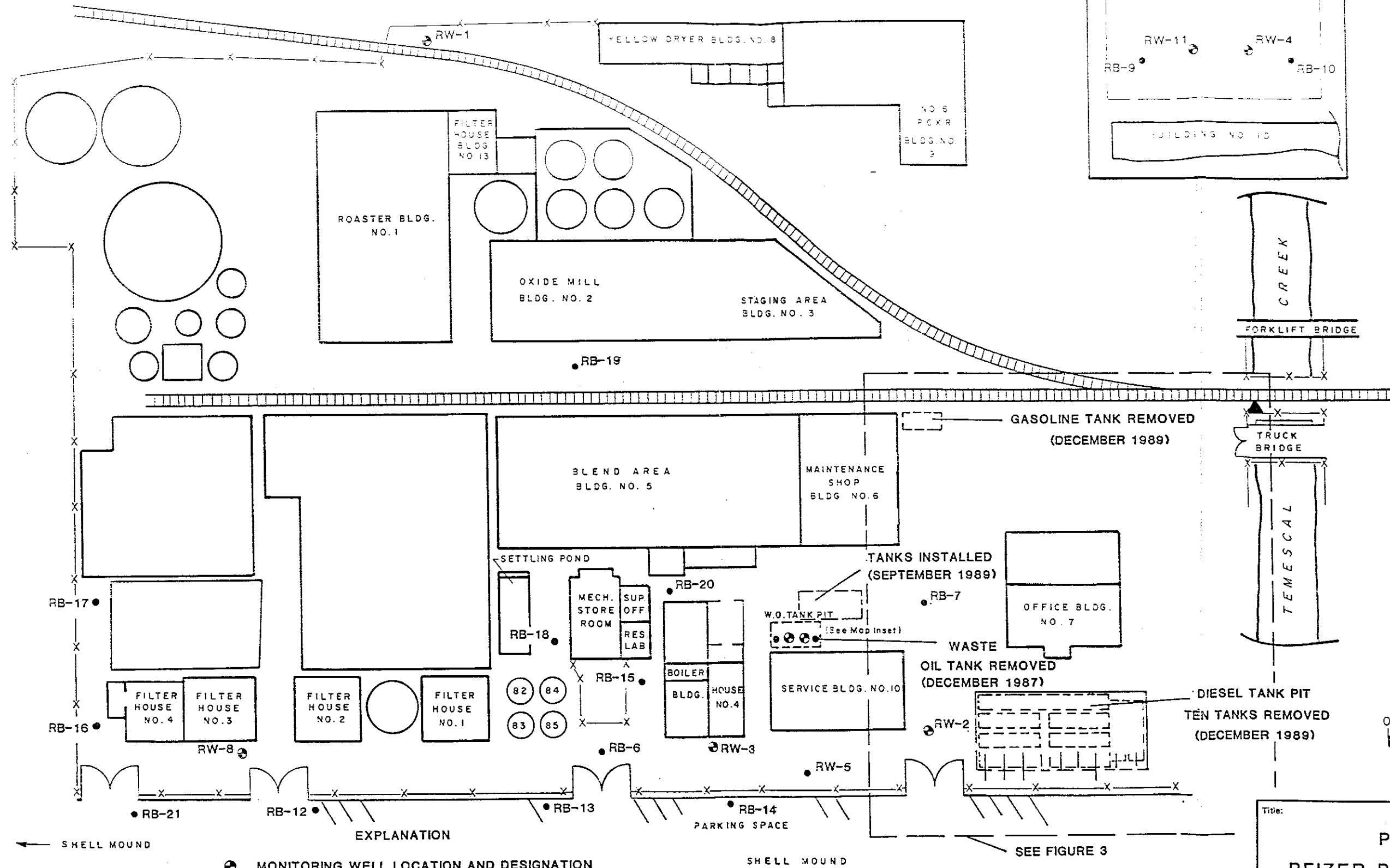
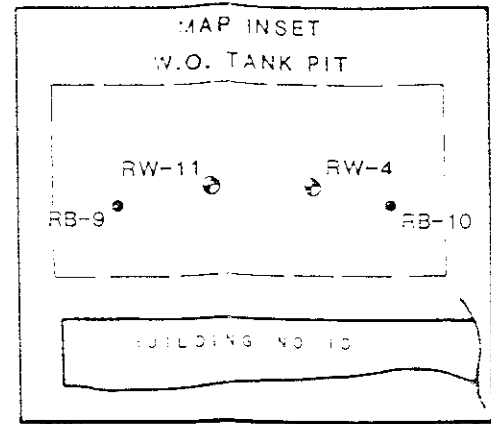
**PFIZER
PIGMENTS
INC.**

Title:

LOCATION OF SITE

Prepared for: **PFIZER PIGMENTS INC.
EMERYVILLE CALIFORNIA**

ROUX ROUX ASSOCIATES INC Consulting Ground-Water Geologists & Engineers	Compiled by: J.W.	Date: 3/90	Figure 1
	Prepared by: C.L.	Scale: 1"=2000'	
	Project Mgr. J.W.	Revision: 0	
File No: 04733W			



← SHELL MOUND

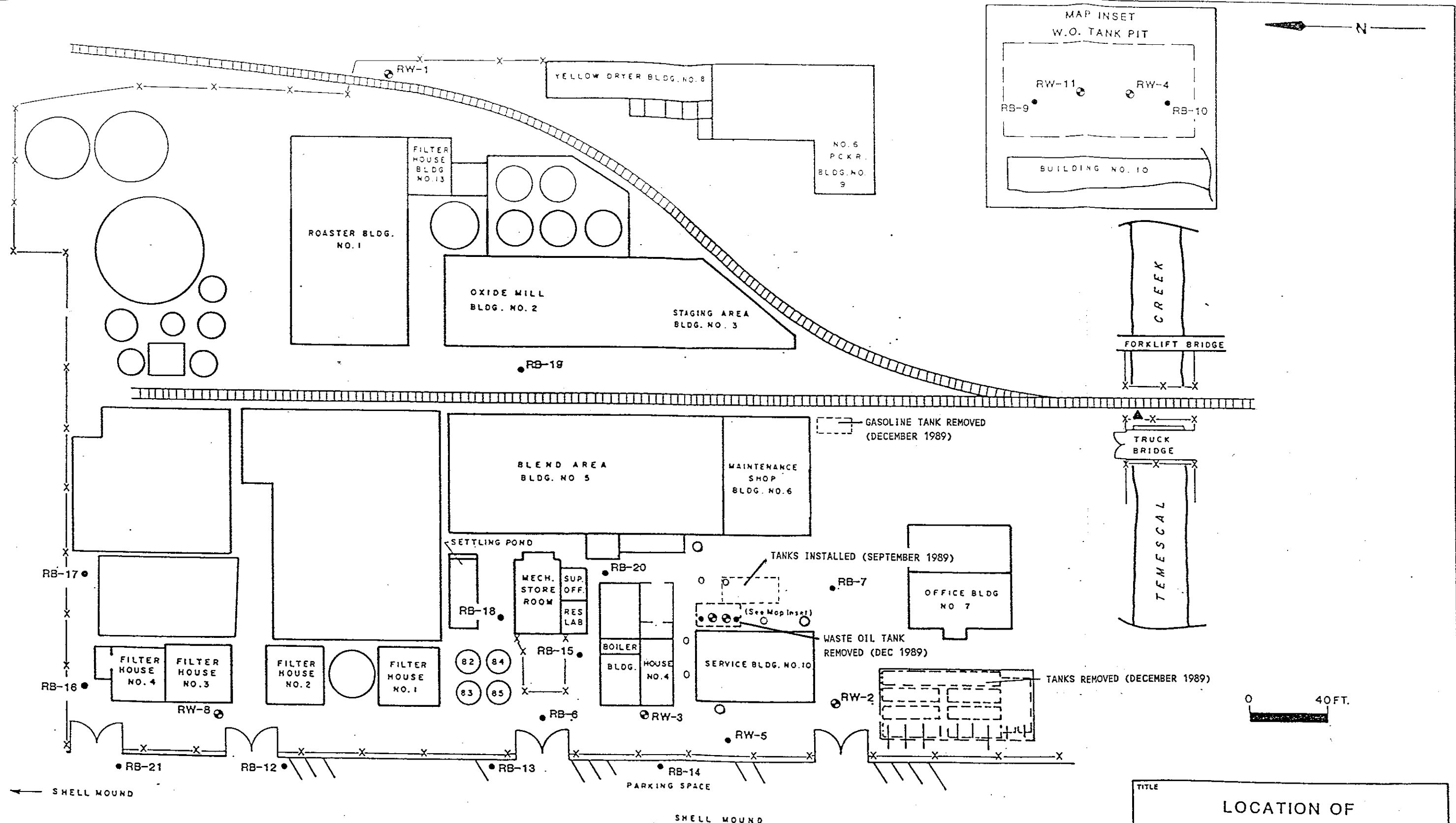
- EXPLANATION**
- ⊕ MONITORING WELL LOCATION AND DESIGNATION
 - SOIL BORING LOCATION AND DESIGNATION
 - ▲ SURFACE WATER MEASURING LOCATION



Title: **PLOT PLAN
PFIZER PIGMENTS PLANT**

Prepared for: **PFIZER PIGMENTS INC.
EMERYVILLE, CALIFORNIA**

ROUX ROUX ASSOCIATES INC. Consulting Ground Water Geologists & Engineers	Compiled by: J. W.	Date: 3/90	Figure 2
	Prepared by: C. L.	Scale: SHOWN	
	Project Mgr: J. W.	Revision: 0	
	File No: 04733W		

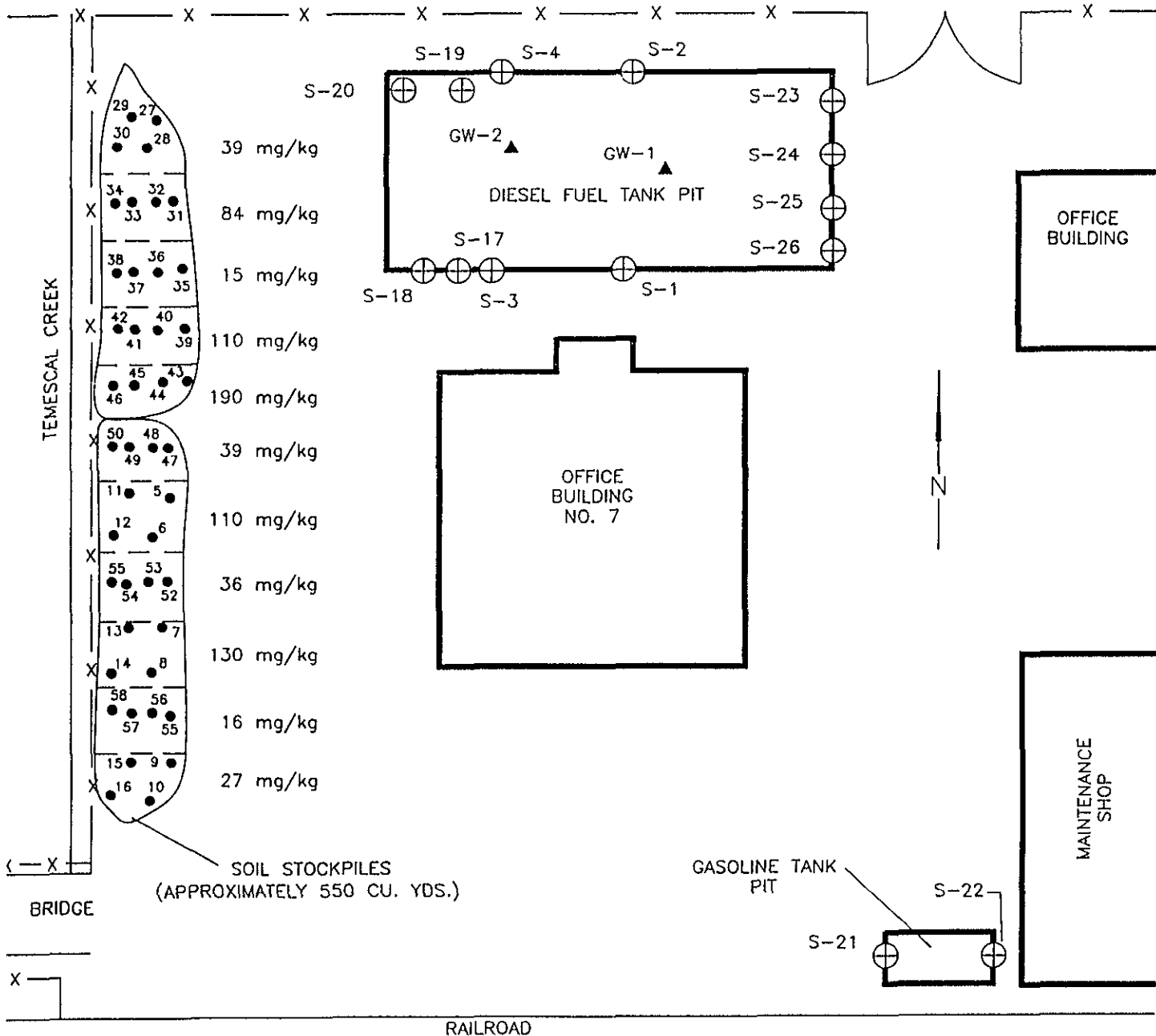


LEGEND

- ⊙ MONITORING WELL
- SOIL BORING
- ▲ SURFACE WATER MEASURING POINT
- PROPOSED MONITORING WELL
- PROPOSED SOIL BORING

TITLE		
LOCATION OF SOIL BORINGS AND MONITORING WELLS		
PREPARED FOR		
PFIZER PIGMENTS INC. EMERYVILLE, CALIFORNIA		
ROUX Consulting Groundwater Geologists ROUX ASSOCIATES INC.	SCALE SHOWN	FIGURE
	DATE 2/90	2

SHELLMOUND STREET



- EXPLANATION**
- S-20 ⊕ SIDEWALL SOIL SAMPLE LOCATION AND DESIGNATION
 - 9 ● STOCKPILE SOIL SAMPLE LOCATION AND DESIGNATION
 - GW-1 ▲ WATER SAMPLE LOCATION AND DESIGNATION
 - 110 mg/kg CONCENTRATION OF TOTAL PETROLEUM HYDROCARBONS (mg/kg) COMPOSITE OF FOUR SAMPLES
- STOCKPILED SOIL, VOLUME OF EACH DASHED UNIT APPROXIMATELY 50 CU. YDS.

Title:

SOIL AND WATER SAMPLING LOCATIONS

Prepared for **PFIZER PIGMENTS INC., EMERYVILLE, CALIFORNIA**

ROUX ROUX ASSOCIATES INC Consulting Ground Water Geologists & Engineers	Compiled by: JW	Date: 3/90	Figure 3
	Prepared by: SW	Scale: SHOWN	
	Project Mgr: JW	Revision: 0	
	File No: 04733W		

APPENDIX A
LABORATORY REPORTS



LABORATORY NUMBER: 18937
CLIENT: ROUX ASSOCIATES
JOB #: 04733W
LOCATION: EMERYVILLE TANK REMOVAL

DATE RECEIVED: 12/13/89
DATE ANALYZED: 12/13/89
DATE REPORTED: 12/14/89
PAGE 2 OF 4

Extractable Petroleum Hydrocarbons in Soils & Wastes
EPA 8015 (Modified)
Extraction Method: EPA 3550

LAB ID	CLIENT ID	KEROSENE (mg/Kg)	DIESEL (mg/Kg)	OTHER (mg/Kg)
18937-1	S - 1	ND(10)	ND(10)	ND(10)
18937-2	S - 2	ND(10)	ND(10)	ND(10)
18937-3	S - 3	ND(10)	ND(10)	ND(10)
18937-4	S - 4	ND(10)	ND(10)	ND(10)

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

Duplicate: Relative % Difference	<1
Spike: % Recovery	85



LABORATORY NUMBER: 18937
CLIENT: ROUX ASSOCIATES
JOB NUMBER: 04733W
JOB LOCATION: EMERYVILLE TANK REMOVAL

DATE RECEIVED: 12/13/89
DATE ANALYZED: 12/13/89
DATE REPORTED: 12/14/89
PAGE 3 OF 4

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/kg)	TOLUENE (ug/kg)	TOTAL XYLENES (ug/kg)	ETHYL BENZENE (ug/kg)	REPORTING LIMIT * (ug/kg)
18937-1	S - 1	ND	ND	ND	ND	5
18937-2	S - 2	ND	ND	ND	ND	5
18937-3	S - 3	ND	6.0	33	ND	5
18937-4	S - 4	ND	ND	ND	ND	5

ND = Not Detected.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

%RPD 2
%RECOVERY 89

LAB NUMBER: 18937
 CLIENT: ROUX ASSOCIATES
 PROJECT # : 04733W
 LOCATION: EMERYVILLE TANK REMOVAL

DATE RECEIVED: 12/13/89
 DATE ANALYZED: 12/14/89
 DATE REPORTED: 12/14/89
 PAGE 4 OF 4

ANALYSIS: OIL AND GREASE
 METHOD: SMMW 503E

LAB ID	SAMPLE ID	RESULT	UNITS	DETECTION LIMIT
18937-1	S - 1	120	mg /Kg	50
18937-2	S - 2	94	mg /Kg	50
18937-3	S - 3	82	mg /Kg	50
18937-4	S - 4	ND	mg /Kg	50

ND = NOT DETECTED

QA/QC SUMMARY

RPD, %	13
RECOVERY, %	85



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

LABORATORY NUMBER: 18936
 CLIENT: ROUX ASSOCIATES
 JOB #: 04733W
 LOCATION: EMERYVILLE TANK REMOVAL

DATE RECEIVED: 12/13/89
 DATE ANALYZED: 12/13/89
 DATE REPORTED: 12/13/89

Extractable Petroleum Hydrocarbons in Soils & Wastes
 EPA 8015 (Modified)
 Extraction Method: EPA 3550

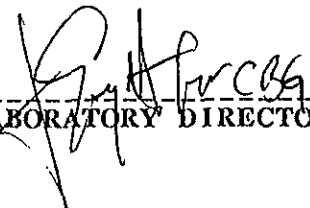
LAB ID	COMPOSITE ID	KEROSENE (mg /Kg)	DIESEL (mg /Kg)	OTHER (mg /Kg)
18936-13	S-5, S-6 S-11, S-12	ND(10)	110*	ND(10)
18936-14	S-7, S-8 S-13, S-14	ND(10)	130*	ND(10)
18936-15	S-9, S-10 S-15, S-16	ND(10)	27*	ND(10)

*HYDROCARBON FOUND IN SAMPLE DOES NOT MATCH STANDARDS. QUANTITATION IS BASED ON AREA SUM WITHIN C12-C26 RANGE OF STANDARDS.

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

Duplicate: Relative % Difference 2
 Spike: % Recovery 91


 LABORATORY DIRECTOR

SUPERIOR ANALYTICAL LABORATORY, INC.

1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 51476
CLIENT: Roux Associates
CLIENT JOB NO.: 04733W

DATE RECEIVED: 12/14/89
DATE REPORTED: 12/16/89

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Diesel Range
1	S-27, S-28, S-29, S-30 COMP	39
2	S-31, S-32, S-33, S-34 COMP	84
3	S-35, S-36, S-37, S-38 COMP	15
4	S-39, S-40, S-41, S-42 COMP	110
5	S-43, S-44, S-45, S-46 COMP	190
6	S-47, S-48, S-49, S-50 COMP	39
7	S-51, S-52, S-53, S-54 COMP	36
8	S-55, S-56, S-57, S-58 COMP	16

Minimum Detection Limit for Gasoline and Diesel in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 2%
RPD Diesel = 9%

Richard Srna, Ph.D.

Richard Srna
Laboratory Director

REPORT SUMMARY
ANAMETRIX, INC. (408) 432-8192

Client : Roux Associates
 Address : 1320 Arnold Drive
 Suite 262
 City : Martinez, CA 94553
 Attn. : Jerry Wickham

Anamatrix W.O.#: 8912139
 Date Received : 12/13/89
 Purchase Order#: N/A
 Project No. : 04733W
 Date Released : 12/14/89

Anamatrix I.D.	Sample I.D.	Matrix	Date Sampled	Method	Date Extract	Date Analyzed	Inst I.D.
RESULTS							
8912139-01	S-17	SOIL	12/13/89	TPHd	12/13/89	12/13/89	N/A
8912139-02	S-18	SOIL	12/13/89	TPHd	12/13/89	12/14/89	N/A
8912139-03	S-19	SOIL	12/13/89	TPHd	12/13/89	12/14/89	N/A
8912139-04	S-20	SOIL	12/13/89	TPHd	12/13/89	12/13/89	N/A
8912139-05	S-21	SOIL	12/13/89	TPHg		12/14/89	N/A
8912139-06	S-22	SOIL	12/13/89	TPHg		12/14/89	N/A
8912139-07	S-23	SOIL	12/13/89	TPHd	12/13/89	12/13/89	N/A
8912139-08	S-24	SOIL	12/13/89	TPHd	12/13/89	12/13/89	N/A
8912139-09	S-25	SOIL	12/13/89	TPHd	12/13/89	12/14/89	N/A
8912139-10	S-26	SOIL	12/13/89	TPHd	12/13/89	12/14/89	N/A

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-17
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.BTEX: 12/14/89
 Date ext.TPHd: 12/13/89
 Date anl.TPHd: 12/13/89

Anamatrix I.D. : 8912139-01
 Analyst : *mk*
 Supervisor : *TC*
 Date released : 12/14/89
 Date ext. TOG : 12/13/89
 Date anl. TOG : 12/13/89

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	70000

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-18
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.BTEX: 12/14/89
 Date ext.TPHd: 12/13/89
 Date anl.TPHd: 12/14/89

Anamatrix I.D. : 8912139-02
 Analyst : *mh*
 Supervisor : *TC*
 Date released : 12/14/89
 Date ext. TOG : 12/13/89
 Date anl. TOG : 12/13/89

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	63000

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-19
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.BTEX: 12/14/89
 Date ext.TPHd: 12/13/89
 Date anl.TPHd: 12/14/89

Anamatrix I.D. : 8912139-03
 Analyst : *mh*
 Supervisor : *TC*
 Date released : 12/14/89
 Date ext. TOG : 12/13/89
 Date anl. TOG : 12/13/89

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	13
1330-20-7	Total Xylenes	5	40
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	50000

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-20
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.BTEX: 12/14/89
 Date ext.TPHd: 12/13/89
 Date anl.TPHd: 12/13/89

Anamatrix I.D. : 8912139-04
 Analyst : *mh*
 Supervisor : *TC*
 Date released : 12/14/89
 Date ext. TOG : 12/13/89
 Date anl. TOG : 12/13/89

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	ND

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-21
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.TPHg: 12/14/89
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anamatrix I.D. : 8912139-05
 Analyst : *ml*
 Supervisor : *rc*
 Date released : 12/14/89
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Gasoline	1000	ND

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-22
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.TPHg: 12/14/89
 Date ext.TPHd: N/A
 Date anl.TPHd: N/A

Anamatrix I.D. : 8912139-06
 Analyst : mj
 Supervisor : TC
 Date released : 12/14/89
 Date ext. TOG : N/A
 Date anl. TOG : N/A

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Gasoline	1000	ND

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-23
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.BTEX: 12/14/89
 Date ext.TPHd: 12/13/89
 Date anl.TPHd: 12/13/89

Anamatrix I.D. : 8912139-07
 Analyst : *mk*
 Supervisor : *TC*
 Date released : 12/14/89
 Date ext. TOG : 12/13/89
 Date anl. TOG : 12/13/89

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	ND

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-24
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.BTEX: 12/14/89
 Date ext.TPHd: 12/13/89
 Date anl.TPHd: 12/13/89

Anamatrix I.D. : 8912139-08
 Analyst : *mk*
 Supervisor : *TC*
 Date released : 12/14/89
 Date ext. TOG : 12/13/89
 Date anl. TOG : 12/13/89

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	160000

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-25
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.BTEX: 12/14/89
 Date ext.TPHd: 12/13/89
 Date anl.TPHd: 12/14/89

Anamatrix I.D. : 8912139-09
 Analyst : *mjh*
 Supervisor : *TC*
 Date released : 12/14/89
 Date ext. TOG : 12/13/89
 Date anl. TOG : 12/13/89

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	ND

- ND - Not detected at or above the practical quantitation limit for the method.
- PHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.
- TOG - Total Oil & Grease is determined by Standard Method 503E.
- TEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

ANALYSIS DATA SHEET - PETROLEUM HYDROCARBON COMPOUNDS
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 04733W S-26
 Matrix : SOIL
 Date sampled : 12/13/89
 Date anl.BTEX: 12/14/89
 Date ext.TPHd: 12/13/89
 Date anl.TPHd: 12/14/89

Anamatrix I.D. : 8912139-10
 Analyst : mh
 Supervisor : TC
 Date released : 12/14/89
 Date ext. TOG : 12/13/89
 Date anl. TOG : 12/13/89

CAS #	Compound Name	Reporting Limit (ug/kg)	Amount Found (ug/kg)
71-43-2	Benzene	5	ND
108-88-3	Toluene	5	ND
100-41-4	Ethylbenzene	5	ND
1330-20-7	Total Xylenes	5	ND
	TPH as Diesel	10000	ND
	Total Oil & Grease	30000	40000

ND - Not detected at or above the practical quantitation limit for the method.

PHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

TOG - Total Oil & Grease is determined by Standard Method 503E.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

LABORATORY NUMBER: 19007-1
 CLIENT: ROUX ASSOCIATES
 JOB #: 04733W
 SAMPLE ID: BT-1

DATE RECEIVED: 12/14/89
 DATE ANALYZED: 12/15/89
 DATE REPORTED: 12/22/89
 PAGE 2 OF 2

EPA METHOD 624: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Detection Limit ug/L
chloromethane	ND	2.0
bromomethane	ND	2.0
vinyl chloride	ND	2.0
chloroethane	ND	2.0
methylene chloride	ND	1.0
trichlorofluoromethane	ND	1.0
1,1-dichloroethene	ND	1.0
1,1-dichloroethane	ND	1.0
trans-1,2-dichloroethene	ND	1.0
chloroform	ND	1.0
1,2-dichloroethane	ND	1.0
1,1,1-trichloroethane	ND	1.0
carbon tetrachloride	ND	1.0
bromodichloromethane	ND	1.0
1,2-dichloropropane	ND	1.0
cis-1,3-dichloropropene	ND	1.0
trichloroethylene	ND	1.0
dibromochloromethane	ND	1.0
1,1,2-trichloroethane	ND	1.0
benzene	ND	1.0
trans-1,3-dichloropropene	ND	1.0
2-chloroethylvinyl ether	ND	2.0
bromoform	ND	1.0
1,1,2,2-tetrachloroethane	ND	1.0
tetrachloroethylene	ND	1.0
toluene	1.4	1.0
chlorobenzene	ND	1.0
ethyl benzene	1.4	1.0

Non-Priority Hazardous Pollutant Substances List Compounds

acetone	ND	2.0
carbon disulfide	ND	1.0
2-butanone	ND	2.0
vinyl acetate	ND	2.0
2-hexanone	ND	2.0
4-methyl-2-pentanone	ND	2.0
styrene	ND	1.0
total xylenes	7.6	1.0

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	94%
Toluene-d8	100%
Bromofluorobenzene	100%



LABORATORY NUMBER: 18948
CLIENT: ROUX ASSOCIATES
PROJECT #: 04733W
LOCATION: EMERYVILLE TANK REMOVAL

DATE RECEIVED: 12/14/89
DATE ANALYZED: 12/14/89
DATE REPORTED: 12/18/89
PAGE 2 OF 3

Extractable Petroleum Hydrocarbons in Aqueous Solutions
EPA 8015 (Modified)
Extraction Method: EPA 3510

LAB ID	CLIENT ID	KEROSENE (mg/L)	DIESEL (mg/L)	OTHER (mg/L)
18948-1	BT-1	10*	ND(0.5)	ND(0.5)

ND = Not Detected; Limit of detection in parentheses.

* = Fingerprint Pattern does not match Hydrocarbon Standards.
Quantitation based on area sum within C10 to C16 boiling range.

QA/QC SUMMARY

RPD, %	5
Spike: % Recovery	84

LABORATORY NUMBER: 18948
 CLIENT: ROUX ASSOCIATES
 JOB NUMBER: 04733W
 JOB LOCATION: EMERYVILLE TANK REMOVAL

DATE RECEIVED: 12/14/89
 DATE ANALYZED: 12/15/89
 DATE REPORTED: 12/18/89
 PAGE 3 OF 3

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
 Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)	REPORTING LIMIT * (ug/L)
18948-1	BT-1	ND	ND	7.6	ND	1.0

ND = Not Detected.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

%RPD	2
%RECOVERY	93

LAB NUMBER: 18950
 CLIENT: ROUX ASSOCIATES
 PROJECT # : 04733W

DATE RECEIVED: 12/14/89
 DATE ANALYZED: 12/20/89
 DATE REPORTED: 12/28/89
 PAGE 2 OF 4

ANALYSIS: OIL AND GREASE
 METHOD: SMWW 503E

LAB ID	SAMPLE ID	RESULT	UNITS	DETECTION LIMIT
18950-1	GW-1	61	mg/L	20
18950-2	GW-2	ND	mg/L	20

ND = NONE DETECTED

QA/QC SUMMARY

RPD, %	5
RECOVERY, %	88

LABORATORY NUMBER: 18950
 CLIENT: ROUX ASSOCIATES
 PROJECT #: 04733W
 LOCATION: EMERYVILLE TANK REMOVAL

DATE RECEIVED: 12/14/89
 DATE ANALYZED: 12/27/89
 DATE REPORTED: 12/28/89
 PAGE 3 OF 4

Extractable Petroleum Hydrocarbons in Aqueous Solutions
 EPA 8015 (Modified)
 Extraction Method: EPA 3510

LAB ID	CLIENT ID	KEROSENE (mg/L)	DIESEL (mg/L)	OTHER (mg/L)
18950-1	GW-1	ND(0.5)	3.0**	ND(0.5)
18950-2	GW-2	0.10*	ND(0.5)	ND(0.5)

*Fingerprint pattern does not match hydrocarbon standards. Quantitation based on area sum within C10-C16 boiling range.

**Fingerprint pattern does not match hydrocarbon standards. Quantitation based on area sum within C12-C26 boiling range.

ND = Not Detected; Limit of detection in parentheses.

QA/QC SUMMARY

RPD, %	2
Spike: % Recovery	93



LABORATORY NUMBER: 18950
CLIENT: ROUX ASSOCIATES
JOB NUMBER: 04733W

DATE RECEIVED: 12/14/89
DATE ANALYZED: 12/22/89
DATE REPORTED: 12/28/89
PAGE 4 OF 4

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	TOTAL XYLENES (ug/L)	ETHYL BENZENE (ug/L)	REPORTING LIMIT * (ug/L)
18950-1	GW-1	ND	ND	ND	ND	1.0
18950-2	GW-2	ND	ND	3.5	ND	1.0

ND = Not Detected.

* Reporting Limit applies to all analytes.

QA/QC SUMMARY

%RPD	4
%RECOVERY	90

APPENDIX B
CHAIN-OF-CUSTODY FORMS

18948

ROUX ASSOCIATES

CHAIN OF CUSTODY RECORD

Project No. 04733W

Project Title Emeryville Tank Removal

Sample Source Diesel Tank & Gasoline Tank Excavations & Tank

Collectors Name Jerry T. Wickham / Jerry T. Wickham
print signature

Field Information _____

Method Of Shipping Hand Delivery

Relinquished By:

Received By:

sign Jerry T. Wickham
for Roux

sign [Signature]
for [Signature]

Date/Time 12/14/99 1403

Date/Time 12/14/99 2117

Sample Designation	Sample Location	Date	Time	Analyte	No. Of Containers
BT-1	Baker Tank	12/14/99	1235	TPH-Diesel RTEX	2 VOA 1 Amber L
GW-1	South End Tank Pit	12/14/99	1301	TPH-Diesel BTEX Oil & Grease	2 VOA 2 Amber L
GW-2	North End Tank Pit	12/14/99	1315	TPH-Diesel BTEX Oil & Grease	2 VOA 2 Amber L
BT-1	Baker Tank	12/14/99	1235	Hold	1 Amber L

Comments: Need BT-1 Results on Monday AM (415) 370-2275
GW-1 & GW-2 Normal Turnaround. Fax (415) 370-2235

ROUX ASSOCIATES

CHAIN OF CUSTODY RECORD

Project No. 13002W

Project Title Water Park in ...

Sample Source ...

Collectors Name [print] / [signature]

Field Information _____

Method Of Shipping ...

Relinquished By:
sign [signature]
for [name]
Date/Time [date]

Received By:
sign [signature]
for [name]
Date/Time [date]

Sample Designation	Sample Location	Date	Time	Analyte	No. Of Containers
<u>[handwritten]</u>	<u>[handwritten]</u>	<u>[handwritten]</u>	<u>[handwritten]</u>	<u>[handwritten]</u>	<u>[handwritten]</u>

Comments: [handwritten notes]

ROUX ASSOCIATES

CHAIN OF CUSTODY RECORD

Project No. 04733W

Project Title Emeryville Tank Removal

Sample Source Excavation Sidewalls

Collectors Name Jerry T. Wickham Jerry T. Wickham
print signature

Field Information _____

Method Of Shipping Hand Deliver

Relinquished By:
 sign Jerry T. Wickham
 for Roux
 Date/Time 12/13/89 1535

Received By:
 sign J. M. Mazzilli
 for Anamatrix
 Date/Time 12-13-89 1535

Sample Designation	Sample Location	Date	Time	Analyte	No. Of Containers
S-17		12/13/89	1400	TPH-Diesel BTEX Oil & Grease 503E	1
S-18		12/13/89	1407	↓	
S-19		12/13/89	1415		
S-20		12/13/89	1418		
S-21		12/13/89	1440		
S-22		12/13/89	1446	TPH-Gas BTEX	
S-23		12/13/89	1456	TPH-Diesel BTEX Oil & Grease 503E	
S-24		12/13/89	1502	↓	↓

Comments: 24-hr Rush

Roux
 (415) 370-2275
 (415) 270-2235 Fax

ROUX ASSOCIATES

CHAIN OF CUSTODY RECORD

Project No. 04733w

Project Title Emeryville Tank Removal

Sample Source Diesel Tank & Gasoline Tank Excavations & Tank

Collectors Name Jerry T. Wickham / Jerry T. Wickham
print signature

Field Information _____

Method Of Shipping Hand Delivery

Relinquished By:
sign Jerry T. Wickham
for Roux
Date/Time 12/14/89 1403

Received By:
sign Monaf Wilson
for CIT
Date/Time 12/14/89 2:00 pm

Sample Designation	Sample Location	Date	Time	Analyte	No. Of Containers
BT-1	Baker Tank	12/14/89	1235	TPH-Diesel BTEX	2 VOA 1 Amber L
GW-1	South End Tank Pit	12/14/89	1301	TPH-Diesel BTEX Oil & Grease	2 VOA 2 Amber L
GW-2	North End Tank Pit	12/14/89	1315	TPH-Diesel BTEX Oil & Grease	2 VOA 2 Amber L
BT-1	Baker Tank	12/14/89	1235	Hold	1 Amber L

Comments: Need BT-1 Results on Monday AM (415) 370-2275
GW-1 & GW-2 Normal Turnaround, Fax (415) 370-2235

ROUX ASSOCIATES

CHAIN OF CUSTODY RECORD

Project No. 04733W

Project Title Emeryville Tank Removal

Sample Source Excavation Sidewalls

Collectors Name Jerry P. Wickham Jerry T. Wickham
print signature

Field Information _____

Method Of Shipping Hand Deliver

Relinquished By:
sign Jerry T. Wickham
for Roux Associates
Date/Time 12/13/89 1535

Received By:
sign Jgh: Mennick
for Anamatrix
Date/Time 12-13-89 1535

Sample Designation	Sample Location	Date	Time	Analyte	No. Of Containers
S-25		12/13/89	1515	TPH, Diesel BTEX Oil & Grease 503E	1
S-26		12/13/89	1519	↓	↓

Comments: 24-hr Rush

ROUX ASSOCIATES

CHAIN OF CUSTODY RECORD

Project No. 04733W

Project Title Emeryville Tank Removal

Sample Source Stockpiles

Collectors Name Jerry T. Wickham / Jerry T. Wickham
print signature

Field Information 4650 Shellmound St. Pfizer

Method Of Shipping Hand Delivery - Courier

Relinquished By:

Received By:

sign Jerry T. Wickham
 for Roux Associates

sign Don Larson
 for _____

Date/Time 12/14/89 1040

Date/Time 1050 12/14/89

Sample Designation	Sample Location	Date	Time	Analyte	No. Of Containers
S-27 S-28	Composite	12/13/89	1605 1609	TPH - Diesel	4
S-29 S-30			1613 1617		
S-31 S-32	Composite	12/13/89	1621 1626	TPH - Diesel	4
S-33 S-34			1631 1635		
S-35 S-36	Composite	12/13/89	1634 1645	TPH - Diesel	4
S-37 S-38			1651 1656		
S-39 S-40	Composite	12/13/89	1701 1706	TPH - Diesel	4
S-41 S-42			1711 1716		
S-43 S-44	Composite	12/13/89	1721 1726	TPH - Diesel	4
S-45 S-46			1732 1737		
S-47 S-48	Composite	12/13/89	1743 1748	TPH - Diesel	4
S-49 S-50			1754 1759		
S-51 S-52	Composite	12/13/89	1802 1807	TPH - Diesel	4
S-53 S-54			1814 1819		
S-55 S-56	Composite	12/13/89	1825 1831	TPH - Diesel	4
S-57 S-58			1836 1840		

Comments: 24-hr Turnaround

Roux Associates
 (415) 370-2275
 (415) 370-2235

ROUX ASSOCIATES

CHAIN OF CUSTODY RECORD

Project No. 04733W

Project Title Emeryville Tank Removal

Sample Source Stockpiles and Sidewalls

Collectors Name Jerry T. Wickham / Jerry T. Wickham
print signature

Field Information 4650 Shellmound St. - Pfizer

Method Of Shipping Hand Delivery

Relinquished By:

Received By:

sign Jerry T. Wickham
 for Roux Associates

sign _____
 for _____

Date/Time 12/12/89 1020

Date/Time _____

Sample Designation	Sample Location	Date	Time	Analyte	No. Of Containers
S-5 S-6 S-11 S-12	West End Stockpile Composite			TPH-Diesel	4
S-7 S-8 S-13 S-14	Center of Stockpile Composite			TPH-Diesel	4
S-9 S-10 S-15 S-16	East End of Stockpile Composite			TPH-Diesel	4
S-1	N End TK 2			TPH-Diesel BTEX Oil & Grease 503E	1
S-2	N End TK 8			TPH-Diesel BTEX Oil & Grease 503E	1
S-3	S End TK 2			TPH-Diesel BTEX Oil & Grease 503E	1
S-4	S End TK 8			TPH-Diesel BTEX Oil & Grease 503E	1

Comments: Need TPH-Diesel Results by end of day 12/13.
 Need other results by 12 Noon
 12/14

Roux Associates
 1340 Anndd Dr. Ste 231
 Martinez, CA 94553
 (415) 370-2275
 (415) 370-2235 Fax

APPENDIX C
HAULING AND DISPOSAL DOCUMENTS



WEST CONTRA COSTA COUNTY
SANITARY LANDFILL

Office: 205 41st St., Richmond, CA 94805
Telephone (415) 236-8000

CHARGE SLIP

Scale Location: Foot of Parr Blvd., Richmond, California

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

West Contra Costa Sanitary Landfill

DRIVER SIGNATURE

[Signature]

01-LINDA MODIE

DEPUTY WEIGHMASTER

4650 Shellmound St.

TICKET NUMBER:	82	DATE:	2/15/90	TIME:	10:45:56	
ACCOUNT:	6806	DILLARD TRUCKING INC.		GROSS WT	65458	
VEHICLE:	21	<i>Don Baste</i>	PER UNIT	.00 FEE	TARE WT	31000
COMMODITY:	2	INDUSTRIAL TRASH <i>Con Suit.</i>		NET WT	34458	
UNITS	18	<i>yd</i>		PRICE/UNIT	.00	
				SUB-TOTAL	.00	
				ADDITIONAL	.00	
				TOTAL OR MIN.	25.00	

17.23

CUSTOMER COPY



WEST CONTRA COSTA COUNTY
SANITARY LANDFILL

Office: 205 41st St., Richmond, CA 94805
Telephone (415) 236-8000

CHARGE SLIP

Scale Location: Foot of Parr Blvd., Richmond, California

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

West Contra Costa Sanitary Landfill

DRIVER SIGNATURE

[Signature]

01-LINDA MODIE

DEPUTY WEIGHMASTER

4650 Shellmound St.

TICKET NUMBER:	83	DATE:	2/15/90	TIME:	10:49:16	
ACCOUNT:	6806	DILLARD TRUCKING INC.		GROSS WT	71980	
VEHICLE:	86	<i>Harp.</i>	PER UNIT	.00 FEE	TARE WT	30000
COMMODITY:	2	INDUSTRIAL TRASH <i>Con Suit</i>		NET WT	41980	
UNITS	18	<i>yd</i>		PRICE/UNIT	.00	
				SUB-TOTAL	.00	
				ADDITIONAL	.00	
				TOTAL OR MIN.	25.00	

20.99



WEST CONTRA COSTA COUNTY
SANITARY LANDFILL

Office: 205 41st St., Richmond, CA 94805
Telephone (415) 236-8000

CHARGE SLIP

Scale Location: Foot of Parr Blvd., Richmond, California

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

West Contra Costa Sanitary Landfill

DRIVER SIGNATURE

X *[Signature]*

01-LINDA MODIE

DEPUTY WEIGHMASTER

4650 Shellmound St.

TICKET NUMBER	DATE	TIME			GROSS WT	
93	2/15/90	10:59:57			69950	
ACCOUNT: 6806	DILLARD TRUCKING INC.				TARE WT	31600
VEHICLE: 13	PER UNIT		.00	FEE		
COMMODITY: 2	INDUSTRIAL TRASH <i>con sub</i>				NET WT	38350
UNITS 20 <i>yd</i>					PRICE/UNIT	.00
					SUB-TOTAL	.00
					ADDITIONAL	.00
					TOTAL DR MIN.	25.00

19.18

CUSTOMER COPY



WEST CONTRA COSTA COUNTY
SANITARY LANDFILL

Office: 205 41st St., Richmond, CA 94805
Telephone (415) 236-8000

CHARGE SLIP

Scale Location: Foot of Parr Blvd., Richmond, California

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture

West Contra Costa Sanitary Landfill

DRIVER SIGNATURE

X *[Signature]*

01-LINDA MODIE

DEPUTY WEIGHMASTER

4650 Shellmound St.

TICKET NUMBER	DATE	TIME			GROSS WT	
95	2/15/90	11:34:23			57548	
ACCOUNT: 6806	DILLARD TRUCKING INC.				TARE WT	28800
VEHICLE: 307L	PER UNIT		.00	FEE		
COMMODITY: 2	INDUSTRIAL TRASH <i>con sub</i>				NET WT	28748
UNITS 20 <i>yd</i>					PRICE/UNIT	.00
					SUB-TOTAL	.00
					ADDITIONAL	.00
					TOTAL DR MIN.	25.00

14.37

**WEST CONTRA COSTA COUNTY
SANITARY LANDFILL**

Office: 205 41ST Street, Richmond, CA 94805
Telephone: 236-8000 Office 233-4330 Landfill

FOR OFFICE USE ONLY:

TRUCK NO. 86749p JOB NO. 4650

CHARGE TO:

Dillard Trucking

DATE

2/15/90

HAULER:

Weight: Load in excess of 120,000 (if different from charge to) gross - tare = Net wt.

45 Tons x \$ _____ per ton = \$ _____

30 yards³ x \$ _____ per yard = \$ _____

Other Con suits = \$ _____

Fee #1 _____ x \$ _____ per yd/ton/load/_____ = \$ _____

Fee #2 _____ x \$ _____ per yd/ton/load/_____ = \$ _____

Fee #3 _____ x \$ _____ per yd/ton/load/_____ = \$ _____

TOTAL TO BE CHARGED

\$ _____

Pricing and math subject to office verification. Minimum Charge = \$25

15145

Notes: _____

Dawn Ramsey
Driver's Signature

[Signature]
Caretaker's Signature


CHARGE SLIP

REDWOOD SANITARY LAND FILL, INC.

P.O. BOX 793 • 101 HIGHWAY NORTH
NOVATO, CALIFORNIA 94948
PHONE: (415) 892-2851

- PERSONS USING THESE PREMISES DO SO AT THEIR OWN RISK.
- CHILDREN AND PETS ARE NOT ALLOWED OUT OF VEHICLES.
- NO RUMMAGING IN DUMP AREA.
- NO SMOKING ON DUMP SITE.
- PLEASE NOTIFY OFFICE OF ANY COMPLAINT.

X 
DRIVER'S SIGNATURE

LZ, DP 
RECEIVED BY

ACCOUNT NUMBER: 2345 CUSTOMER: DILLARD TRUCKING
 JOB NUMBER: EMERYVILLE
 VEHICLE: NECKER
 TIME: 8:38:10 DATE: 2/15/90
 COMMODITY: PC DIRT/DEBRIS/PLAST. YARDS: 18.00 LOAD #: 98
 PER YARD 7.00 FEE 126.00

TOTAL 126.00
INVOICE: 39970

B2/82-2

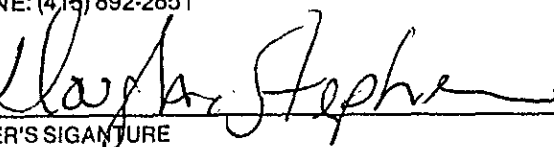
*** CHARGE ***


CUSTOMER COPY

REDWOOD SANITARY LAND FILL, INC.

P.O. BOX 793 • 101 HIGHWAY NORTH
NOVATO, CALIFORNIA 94948
PHONE: (415) 892-2851

- PERSONS USING THESE PREMISES DO SO AT THEIR OWN RISK.
- CHILDREN AND PETS ARE NOT ALLOWED OUT OF VEHICLES.
- NO RUMMAGING IN DUMP AREA.
- NO SMOKING ON DUMP SITE.
- PLEASE NOTIFY OFFICE OF ANY COMPLAINT.

X 
DRIVER'S SIGNATURE

LZ, DP 
RECEIVED BY

ACCOUNT NUMBER: 2345 CUSTOMER: DILLARD TRUCKING
 JOB NUMBER: EMERYVILLE
 VEHICLE: D.J
 TIME: 8:36:36 DATE: 2/15/90
 COMMODITY: PC DIRT/DEBRIS/PLAST YARDS: 18.00 LOAD #: 97
 PER YARD 7.00 FEE 126.00

TOTAL 126.00
INVOICE: 39969

B0/50-0

CUSTOMER COPY
*** CHARGE ***

REDWOOD SANITARY LAND FILL, INC.

P.O. BOX 793 • 101 HIGHWAY NORTH
NOVATO, CALIFORNIA 94948
PHONE: (415) 892-2851

- PERSONS USING THESE PREMISES DO SO AT THEIR OWN RISK.
- CHILDREN AND PETS ARE NOT ALLOWED OUT OF VEHICLES.
- NO RUMMAGING IN DUMP AREA.
- NO SMOKING ON DUMP SITE.
- PLEASE NOTIFY OFFICE OF ANY COMPLAINT.

Bill D

X
DRIVER'S SIGNATURE

LZ.DR. D
RECEIVED BY

ACCOUNT NUMBER: 2345 CUSTOMER: DILLARD TRUCKING
JOB NUMBER: EMERYVILLE
VEHICLE: BESTF TIME: 10:16:47 DATE: 2/15/90
COMMODITY: PC DIRT/DEBRIS/PLAST YARDS: 18.00 LOAD #: 202
PER YARD 7.00 FEE 126.00

132/52-2

*** CHARGE ***

TOTAL 126.00
INVOICE: 40041

CUSTOMER COPY

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA ID. NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street

CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151

CONTAINERS: No 100970 VOLUME 187 WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

Soil with diesel
190 ppm

GENERATING PROCESS Tank Removal

WASTE DESCRIPTION			GENERATING PROCESS		
COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1 <u>Soil</u>		<u>99.5</u>	5 _____		
2 <u>Diesel</u>		<u><.5</u>	6 _____		
3 _____			7 _____		
4 _____			8 _____		

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Don Dillard For Pfizer Pigments Don Dillard 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA ID. NO. CAD981692809

ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
Byron, California 94544

CITY, STATE, ZIP _____ PICK UP DATE _____

PHONE NO. (415) 634-0567

TRUCK, UNIT, I.D. NO. 13 Jr Rogers M Rogers 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA ID. NO. CAD980636831

ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____

CITY, STATE, ZIP McKittrick, Ca. 93251

PHONE NO. 805 762-7366

THELMA-VILLINES Thelma Villines 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	<u>21.50</u>
C/O		RT/CD	HWDF NONE	

DISCREPANCY

JH #6.0

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA ID NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street
 CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151

CONTAINERS: No. 100973 VOLUME 1840. WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

WASTE DESCRIPTION Soil with diesel 190 ppm GENERATING PROCESS Tank Removal

COMPONENTS OF WASTE			PPM	%	COMPONENTS OF WASTE			PPM	%
1	Soil			99.5	5				
2	Diesel			<.5	6				
3					7				
4					8				

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.
Don D. Harp (Signature) 2-15-90 (DATE)
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA ID NO. CAD981692809
 ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
 CITY, STATE, ZIP Byron, California 94544 PICK UP DATE _____

PHONE NO. (415) 634-0567
 TRUCK, UNIT, I.D. NO. 1648 Douglas Stephens Douglas Stephens (Signature) 2/15/90 (DATE)
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA ID NO. CAD980638831
 ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____
 CITY, STATE, ZIP McKittrick, Ca. 93251

PHONE NO. 805 762-7366
THE MA-VILLINES (Signature) 2-15-90 (DATE)
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	<u>22.23</u>
C/Q		RT/CD	HWDF NONE	

DISCREPANCY

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA I.D. NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street
 CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151

CONTAINERS: No 100972 VOLUME 227 WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____
 WASTE DESCRIPTION Soil with diesel GENERATING PROCESS Tank Removal
190 ppm

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1 <u>Soil</u>		<u>99.5</u>	5 _____		
2 <u>Diesel</u>		<u><.5</u>	6 _____		
3 _____			7 _____		
4 _____		<u>10.00</u>	8 _____		

PROPERTIES. pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Don Dillard *[Signature]* 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA I.D. NO. CAD981692809

ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
 CITY, STATE, ZIP Byron, California 94544 PICK UP DATE _____

PHONE NO. (415) 634-0567
 TRUCK UNIT I.D. NO. 1937 LELOY INECKER *[Signature]* 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA I.D. NO. CAD980636831

ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____
 CITY, STATE, ZIP McKittrick, Ca. 93251

PHONE NO. 805 762-7366
THELMA VILLINES *[Signature]* 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	<u>22.95</u>
C/O		RT/CD		HWDF NONE

DISCREPANCY

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA I.D. NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street

CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151

CONTAINERS: No. 002441 VOLUME 18yd WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

WASTE DESCRIPTION Soil with diesel GENERATING PROCESS Tank Removal
190 ppm

COMPONENTS OF WASTE			COMPONENTS OF WASTE		
	PPM	%		PPM	%
1	Soil	99.5	5		
2	Diesel	<.5	6		
3			7		
4			8		

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Don Dillard For Willard 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA I.D. NO. CAD981692809

ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
Byron, California 94544

CITY, STATE, ZIP _____ PICK UP DATE 2-15-90

PHONE NO. (415) 634-0567 Todd Acklam Todd Acklam 2-15-90
 TRUCK, UNIT, I.D. NO. 11A TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA I.D. NO. CAD980636831

ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____

CITY, STATE, ZIP McKittrick, Ca. 93251

PHONE NO. 805 762-7366 THE/MA-VILLINES The/ma Villines PH#6.0 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	<u>23.65</u>
C/O		RT/CD	HWDF NONE	

DISCREPANCY

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA I.D. NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street
 CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151

CONTAINERS: No. 100965 VOLUME 18 yds WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

WASTE DESCRIPTION Soil with diesel 190 ppm GENERATING PROCESS Tank Removal

COMPONENTS OF WASTE		PPM	%	COMPONENTS OF WASTE		PPM	%
1	Soil		99.5	5			
2	Diesel		<.5	6			
3				7			
4				8			

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Don Dillard 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA I.D. NO. CAD981692809
 ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
Byron, California 94544 PICK UP DATE 2-15-90

PHONE NO. (415) 634-0567
 TRUCK, UNIT, I.D. NO. #83 Tes Beasley 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA I.D. NO. CAD980636831
 ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____
McKittrick, Ca. 93251

PHONE NO. 805 762-7366
THE/MA-VILLINES Thelma Villines 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	<u>24.51</u>
C/Q		RT/CD		HWDF NONE

DISCREPANCY

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA I.D. NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street
 CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151

CONTAINERS: No. 100 966 VOLUME 18 Y WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

WASTE DESCRIPTION Soil with diesel 190 ppm GENERATING PROCESS Tank Removal

COMPONENTS OF WASTE			PPM	%	COMPONENTS OF WASTE			PPM
1	Soil			99.5	5			
2	Diesel			<.5	6			
3					7			
4					8			

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Don Dillard 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA I.D. NO. CAD981692809
 ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
 CITY, STATE, ZIP Byron, California 94544 PICK UP DATE _____

PHONE NO. 415, 634-0567
 TRUCK, UNIT, I.D. NO. 1918-80 Pat Meakin 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA I.D. NO. CAD980636831
 ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____
 CITY, STATE, ZIP McKittrick, Ca. 93251

PHONE NO. 805 762-7366
Thelma Villines 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	<u>23.37</u>
C/O		RT/CD	HWDF	NONE

DISCREPANCY

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA I.D. NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street
 CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. (415) 653-6151
 CONTAINERS: No 005139 VOLUME 18 Y WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____
 WASTE DESCRIPTION Soil with diesel GENERATING PROCESS Tank Removal
190 ppm

COMPONENTS OF WASTE			COMPONENTS OF WASTE		
	PPM	%		PPM	%
1 <u>Soil</u>		<u>99.5</u>	5 _____		
2 <u>Diesel</u>		<u><.5</u>	6 _____		
3 _____			7 _____		
4 _____			8 _____		

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____
 HANDLING INSTRUCTIONS Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Don Dillard 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA I.D. NO. CAD981692809
 ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
Byron, California 94544 PICK UP DATE _____
 CITY, STATE, ZIP _____
 PHONE NO. (415) 634-0567
 TRUCK, UNIT, I.D. NO. C5 Joe Hernandez 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA I.D. NO. CAD980636831
 ADDRESS Star Route Box 4 LANDFILL OTHER _____
McKittrick, Ca. 93251
 CITY, STATE, ZIP _____
 PHONE NO. 805 762-7366
THE LMA - VILLINE'S Thelma Villine 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS <u>25.27</u>
TRANS		S	B	
C/O		RT/CD	HWDF	NONE

DISCREPANCY

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA ID. NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street
 CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151
 CONTAINERS: No 100968 VOLUME 18 WEIGHT Y

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

WASTE DESCRIPTION Soil with diesel GENERATING PROCESS Tank Removal
190 ppm

COMPONENTS OF WASTE		PPM	%	COMPONENTS OF WASTE		PPM	%
1	Soil		99.5	5			
2	Diesel		<.5	6			
3				7			
4				8			

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

DON Dillard Don Dillard 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA ID. NO. CAD981692809
 ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
 CITY, STATE, ZIP Byron, California 94544 PICK UP DATE _____
 PHONE NO. (415) 634-0567 DICK PAUNE 2-15-90
Wick Payne DATE
 TRUCK, UNIT, I.D. NO. 305 TYPED OR PRINTED FULL NAME & SIGNATURE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA ID. NO. CAD980636831
 ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____
 CITY, STATE, ZIP McKittrick, Ca. 93251
 PHONE NO. 805 762-7366 THELMA VILLINE Thelma Villine 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	<u>23.72</u>
C/O		RT/CD		HWDF NONE

2476.0 2-15-90

DISCREPANCY

11400
385-00
39460

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA ID NO. EPA EXEMPT

ADDRESS 4650 Shellmound Street

CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151

CONTAINERS: No. 369E ¹⁰⁰⁰⁷⁴ VOLUME 18 yds WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____

WASTE DESCRIPTION Soil with diesel GENERATING PROCESS Tank Removal
190 ppm

COMPONENTS OF WASTE			COMPONENTS OF WASTE		
	PPM	%		PPM	%
1. <u>Soil</u>		<u>99.5</u>	5 _____		
2. <u>Diesel</u>		<u><.5</u>	6 _____		
3 _____			7 _____		
4 _____			8 _____		

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS

Don Dillard Don Dillard 2-15-90
TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA ID NO. CAD981692809

ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____

CITY, STATE, ZIP Byron, California 94544 PICK UP DATE _____

PHONE NO. (415) 634-0567

TRUCK, UNIT, I.D. NO. M-10.369E Don Metheny Don Metheny 2/15/90
TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA ID NO. CAD980636831

ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____

CITY, STATE, ZIP McKittrick, Ca. 93251

PHONE NO. 805 762-7366 THELMA-VILLINES Thelma Villines 2-15-90
TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	
G/Q		RT/CD		HWDF NONE

DISCREPANCY JH 10 2-15-90

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

NAME Pfizer Pigments, Inc. EPA ID NO. EPA EXEMPT
 ADDRESS 4650 Shellmound Street
 CITY, STATE, ZIP Emeryville, California 94608 PHONE NO. 415, 653-6151
 CONTAINERS: No 100068 VOLUME 18 Y WEIGHT _____

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER _____
 WASTE DESCRIPTION Soil with diesel GENERATING PROCESS Tank Removal
190 ppm

COMPONENTS OF WASTE			PPM	%	COMPONENTS OF WASTE			PPM	%
1.	Soil			99.5	5.				
2.	Diesel			<.5	6.				
3.					7.				
4.					8.				

PROPERTIES: pH _____ SOLID LIQUID SLUDGE SLURRY OTHER _____

HANDLING INSTRUCTIONS: Approval #122889-356

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Don D. Hayward 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Dillard Trucking, Inc. EPA ID NO. CAD981692809
 ADDRESS Route 1 Box 73 SERVICE ORDER NO. _____
Byron, California 94544
 CITY, STATE, ZIP _____ PICK UP DATE _____
 PHONE NO. (415) 634-0567
 TRUCK, UNIT, I.D. NO. T-46, 375E Ken Hostley 2-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSD FACILITY

NAME Liquid Waste Management, Inc. EPA ID NO. CAD980636831
 ADDRESS Star Route Box 4 DISPOSAL METHOD LANDFILL OTHER _____
McKittrick, Ca. 93251
 CITY, STATE, ZIP _____
 PHONE NO. 805 762-7366
THEINA-VILLINES 3-15-90
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

GEN	OLD/NEW	L	A	TONS
TRANS		S	B	<u>23.65</u>
C/O		RT/CD		HWDF NONE

DISCREPANCY _____

Instructions on the Back

70799

88549918
 USE JUNE EMERGENCY CALL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802 WITHIN 24 HOURS OF THE TIME OF THE EMERGENCY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M1A1D1C1K191K161171516161617		Manifest Document No. 2 of 2		2. Page 1 of 2		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address PRIZER PIGMENTS 450 SHELLMOUND EMERYVILLE				A. State Manifest Document Number 88549918		B. State Generator's ID					
4. Generator's Phone (415) 333-6151				5. Transporter 1 Company Name ERAKOCH TRUCKING INC		6. US EPA ID Number M1A1D1C1K191K1611715161617		C. State Transporter's ID 001332			
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone 415-235-1293		E. State Transporter's ID			
9. Designated Facility Name and Site Address ERAKOCH INC 255 LARK BLVD SUITE 1 EMERYVILLE, OHIO 44024				10. US EPA ID Number		F. Transporter's Phone		G. State Facility's ID			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol			
a. WASTE EMPTY STORAGE TANKS (MATERIALS RELATED WASTE ONLY)				11		11		State 512 EPA/Other NONE			
b.				11		11		State EPA/Other			
c.				11		11		State EPA/Other			
d.				11		11		State EPA/Other			
J. Additional Descriptions for Materials Listed Above EMPTY DIESEL TANK 2593 ICED WITH 300 LBS DRY ICE						K. Handling Codes for Wastes Listed Above a. 01 b. c. d.					
15. Special Handling Instructions and Additional Information											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name PUNGHARE FOR PRIZER				Signature <i>[Signature]</i>				Month Day Year 11/21/1989			
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name T. J. ...				Signature <i>[Signature]</i>		Month Day Year 11/21/1989	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space											
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name Shannon Lowry				Signature <i>[Signature]</i>				Month Day Year 11/21/1989			

Do Not Write Below This Line

Yellow: TSDf SENDS THIS COPY TO GENERATOR WITHIN 30 DA

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

Instructions on the Back

88549943
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-9602. WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAD00020617800011	Manifest Document No. 11	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address PFIZER PIGMENTS 4650 SHELLMOUND STREET., EMERYVILLE			A. State Manifest Document Number 88549943			
4. Generator's Phone (415) 653-6151			B. State Generator's ID			
5. Transporter 1 Company Name ERICKSON TRUCKING INC.		6. US EPA ID Number CAD009466390		C. State Transporter's ID 001391		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (415) 235-1393		
9. Designated Facility Name and Site Address ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801		10. US EPA ID Number CAD009466390		E. State Transporter's ID		
				F. Transporter's Phone		
				G. State Facility's ID		
				H. Facility's Phone (415) 235-1393		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE EMPTY STORAGE TANKS CALIFORNIA REGULATED WASTE ONLY			0101 TP	1000 P		State 512
b.						EPA/Other State None
c.						EPA/Other State
d.						EPA/Other State
J. Additional Descriptions for Materials Listed Above EMPTY GASOLINE TANK # <u>2603</u> ICED WITH 300 pounds DRY ICE.				K. Handling Codes for Wastes Listed Above		
				a. 01	b.	
				c.	d.	
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name P. MCSHANE FOR PFIZER			Signature <i>[Signature]</i>		Month Day Year 1 2 1 3 8 9	
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Kedney C Proulx			Signature <i>[Signature]</i>		Month Day Year 1 2 1 3 8 9	
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name			Signature		Month Day Year	
19. Discrepancy Indication Space #2 / 1 OF 1						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Shannon Lowrey			Signature <i>[Signature]</i>		Month Day Year 1 2 1 3 8 9	

GENERATOR

TRANSPORTER

FACILITY

Do Not Write Below This Line

Please print or type. (Form designed for use on elite (12-pitch typewriter).

Instructions on the Back

88549942

EMERGENCY WILL, THE ORIGINAL CONTAINER

EMERGENCY WILL, THE ORIGINAL CONTAINER

EMERGENCY WILL, THE ORIGINAL CONTAINER

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A D 0092061780001010	Manifest Document No. 10	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address PFIZER PIGMENTS 4650 SHELLMOUND STREET., EMERYVILLE 415-653-6151			A. State Manifest Document Number 88549942		B. State Generator's ID	
4. Generator's Phone		5. Transporter 1 Company Name ERICKSON TRUCKING INC.		6. US EPA ID Number		C. State Transporter's ID 001384
7. Transporter 2 Company Name		8. US EPA ID Number		9. State Transporter's ID		D. Transporter's Phone (415) 235-1393
9. Designated Facility Name and Site Address ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801			10. US EPA ID Number G A D 0109466390		G. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
a. WASTE EMPTY STORAGE TANKS CALIFORNIA REGULATED WASTE ONLY			001	T/P	12000	P
b.						State 512 EPA/Other None State
c.						State EPA/Other
d.						State EPA/Other
J. Additional Descriptions for Materials Listed Above EMPTY DIESEL TANK # 2602 ICED WITH 300 POUNDS DRY ICE.				K. Handling Codes for Wastes Listed Above a. 01 b. c. d.		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name P. MCSHANE FOR PFIZER			Signature <i>P. McShane</i>		Month Day Year 11/21/13/19	
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name Rodney A. Prower		Signature <i>Rodney A. Prower</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
19. Discrepancy Indication Space #2) 1 of 1						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name Shannon Lowry			Signature <i>Shannon Lowry</i>		Month Day Year 11/21/13/19	

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

88549940

GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA D00920617800008	Manifest Document No. 20799	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address PFIZER PIGMENTS 4650 SHELLMOUND STREET., EMERYVILLE			A. State Manifest Document Number 88549940		
4. Generator's Phone: 415-653-6151			B. State Generator's ID		
5. Transporter 1 Company Name ERICKSON TRUCKING INC.		6. US EPA ID Number CA D0094161390		C. State Transporter's ID 001383	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801			10. US EPA ID Number CA D0094161390		E. State Transporter's ID (415) 235-1393
					F. Transporter's Phone
					G. State Facility's ID
					H. Facility's Phone (415) 235-1393
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE EMPTY STORAGE TANKS CALIFORNIA REGULATED WASTE ONLY		30101TP121000	121000	P	State 512 EPA/Other None
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other
J. Additional Descriptions for Materials Listed Above EMPTY DIESEL TANK #21000 ICED WITH 300 POUNDS DRY ICE.			K. Handling Codes for Wastes Listed Above a. 01 b. c. d.		
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name P. MCSHANE FOR PFIZER		Signature <i>[Signature]</i>		Month Day Year 1 2 13 89	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 1 2 13 89	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space #21001					
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name <i>[Signature]</i>		Signature <i>[Signature]</i>		Month Day Year 1 2 13 89	

70799

Instructions on the Back

88549939
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550
 GENERATOR
 TRANSPORTER
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. C A D 0 0 9 2 0 6 1 7 8 0 0 6 0 7		Manifest Document No. 7 of		2. Page 1 of		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address PFIZER PIGMENTS 4650 SHELLMOUND STREET., EMERYVILLE						A. State Manifest Document Number 88549939									
4. Generator's Phone (415) 653-5151						B. State Generator's ID									
5. Transporter 1 Company Name ERICKSON TRUCKING INC.				6. US EPA ID Number C A D 0 0 9 4 6 6 3 9 0		C. State Transporter's ID									
7. Transporter 2 Company Name <i>Doug Koebel Trucking</i>						D. Transporter's Phone (415) 235-1393									
8. US EPA ID Number C A D 0 0 9 4 6 6 3 9 0						E. State Transporter's ID 69000									
9. Designated Facility Name and Site Address ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801						F. Transporter's Phone (916) 662-5402									
10. US EPA ID Number C A D 0 0 9 4 6 6 3 9 0						G. State Facility's ID									
H. Facility's Phone (415) 235-1393															
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
a. WASTE EMPTY STORAGE TANKS CALIFORNIA REGULATED WASTE ONLY						No. Type		Quantity		Wt/Vol		State			
						001 TP		12010		P		512			
b.												EPA/Other None			
c.												State			
d.												EPA/Other			
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above									
EMPTY DIESEL TANK # 2599 ICED WITH 300 POUNDS DRY ICE.						a. 01		b.		c.		d.			
15. Special Handling Instructions and Additional Information															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name P. MCSHANE FOR PFIZER						Signature <i>[Signature]</i>						Month Day Year 1 2 1 3 8 9			
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name <i>Doug Koebel Trucking</i>						Signature <i>[Signature]</i>		Month Day Year 1 1 2 1 8 9	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Month Day Year	
19. Discrepancy Indication Space #5, #7 No Transporter #2 Doug Koebel only Transporter															
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name <i>Shannon Lowry</i>						Signature <i>[Signature]</i>						Month Day Year 1 2 1 1 3 8 9			

Do Not Write Below This Line

Yellow: TSDf SENDS THIS COPY TO GENERATOR WITHIN 30 D.

2099
Instructions on the Back

88549938
 CALL 852
 WITH CALIF
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 TER
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 BILL,
 EMERGENCY
 ASE
 R
 FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA D 10109121061173		Manifest Document No. 00006		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address PFIZER PIGMENTS 4650 SHELLMOUND STREET., EMERYVILLE						A. State Manifest Document Number 88549938							
4. Generator's Phone (415 653-6151						B. State Generator's ID							
5. Transporter 1 Company Name ERICKSON TRUCKING INC.			8. US EPA ID Number CA D 0009456390			C. State Transporter's ID							
7. Transporter 2 Company Name						D. Transporter's Phone 601 384							
9. Designated Facility Name and Site Address ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801						E. State Transporter's ID (415) 235-1393							
10. US EPA ID Number CA D 0009456390						F. Transporter's Phone							
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.	
a. WASTE EMPTY STORAGE TANKS CALIFORNIA REGULATED WASTE ONLY						No. 001		Type TP		Quantity 12000		State 512	
b.										EPA/Other None		State	
c.										EPA/Other		State	
d.										EPA/Other		State	
J. Additional Descriptions for Materials Listed Above EMPTY DIESEL TANK # 2598 ICED WITH 300 POUNDS DRY ICE.						K. Handling Codes for Wastes Listed Above a. 01							
15. Special Handling Instructions and Additional Information													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name P. MCSHANE FOR PFIZER				Signature <i>P. McShane</i>				Month Day Year 11 21 89					
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Redway S. Bennett</i>				Month Day Year 11 21 8 19					
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature <i>Redway S. Bennett</i>				Month Day Year 11 21 8 19					
19. Discrepancy Indication Space													
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.													
Printed/Typed Name Shannan Lowry				Signature <i>Shannan Lowry</i>				Month Day Year 11 21 8 19					

Do Not Write Below This Line

70799

88549937
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-9602. WITHIN CALIFORNIA CALL 1-800-852-7850

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA1D101092016117180010105		Manifest Document No. 5 of 5		2. Page 1 of 5		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address PFIZER PIGMENTS 4650 SHELLMOUND STREET. EMERYVILLE						A. State Manifest Document Number 38549937											
4. Generator's Phone (415) 653-6151						B. State Generator's ID											
5. Transporter 1 Company Name ERICKSON TRUCKING INC.			6. US EPA ID Number CA610019456390			C. State Transporter's ID											
7. Transporter 2 Company Name Olland Trucking						D. Transporter's Phone (415) 235-1393											
8. US EPA ID Number CA09731692801						E. State Transporter's ID 13601											
9. Designated Facility Name and Site Address ERICKSON INC. 255 PARR BLVD RICHMOND, CA 94801						F. Transporter's Phone											
10. US EPA ID Number CA1D101094465390						G. State Facility's ID											
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		1. Waste No.					
a. WASTE EMPTY STORAGE TANKS CALIFORNIA REGULATED WASTE ONLY b. c. d.						No.		Type				State					
						001		TP		12010		P		512		EPA/Other	
														None		State	
																EPA/Other	
																State	
J. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above											
EMPTY DIESEL TANK # <u>2597</u> ICED WITH 300 POUNDS DRY ICE.						a. 01		b.		c.		d.					
15. Special Handling Instructions and Additional Information																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name						Signature			Month Day Year								
P. MCSHANE FOR PFIZER						<i>P. McShane</i>			11 12 13 19								
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature			Month Day Year								
<i>Richard D. Basilio</i>						<i>Richard D. Basilio</i>			11 14 13 89								
18. Transporter 2 Acknowledgement of Receipt of Materials						Signature			Month Day Year								
19. Discrepancy Indication Space																	
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.																	
Printed/Typed Name						Signature			Month Day Year								
<i>Shannon Lowry</i>						<i>Shannon Lowry</i>			11 12 13 89								

GENERATOR

TRANSPORTER

FACILITY

70799 Instructions on the Back

88549920

EMERGENCY CALL, USE THE NATIONAL HAZARDOUS WASTE CENTER 1-800-424-8802 WITHIN CALIFORNIA CALL 1-800-852-7030

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CNDKCRK121K11DEKRRK1K	Manifest Document No.	2. Page 1 4 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address PFIZER PICMENTS 455 SHELLAVILLE ENERGYVILLE			A. State Manifest Document Number 88549920		B. State Generator's ID	
4. Generator's Phone (415) 235-1393		5. Transporter 1 Company Name FRICKSCH INC		6. US EPA ID Number 1A1DKCRK121K121K		C. State Transporter's ID 001543
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 415-235-1393		E. State Transporter's ID
9. Designated Facility Name and Site Address FRICKSCH INC 355 PARK BLVD RICHMOND CA 94801		10. US EPA ID Number 1A1DKCRK121K121K		F. Transporter's Phone		G. State Facility's ID
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. 11 CASE EMPTY STORAGE TANKS "AIRCRAFT RELATED WASTE ONLY"						State 512 EPA/Other None
b.						State EPA/Other
c.						State EPA/Other
d.						State EPA/Other
J. Additional Descriptions for Materials Listed Above EMPTY DIESEL TANK #2596 KE D WITH 300 LBS DRY ICE				K. Handling Codes for Wastes Listed Above a. 01 b. c. d.		
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name Shannon Lowry		Signature Shannon Lowry		Month Day Year 11/21/89		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Thomas J. Heston		Signature Thomas J. Heston		Month Day Year 11/21/89		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
19. Discrepancy Indication Space #2) 1 OF 1						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Shannon Lowry		Signature Shannon Lowry		Month Day Year 11/21/89		

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

70799
Instructions on the Back

88549919
 EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-6802, WITHIN CALIFORNIA CALL 1-800-852-7650

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CAIDCC92C6117S CRRP13		Manifest Document No. 3 of 3		2. Page 1 of 3		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address FRIZER, PIGMENTS 4650 SHELLMOUND, EMERYVILLE						A. State Manifest Document Number 88549919									
4. Generator's Phone (415) 653-6151						B. State Generator's ID									
5. Transporter 1 Company Name ERIKSSON TRUCKING INC			6. US EPA ID Number CAIDCC9416E39C			C. State Transporter's ID 601384									
7. Transporter 2 Company Name			8. US EPA ID Number			D. Transporter's Phone 415-235-1393									
9. Designated Facility Name and Site Address ERIKSSON INC 255 FAIR BLVD. RICHMOND, CA 94801						10. US EPA ID Number CAIDCC9416E39C									
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity		14. Unit		1. Waste No.			
a. WASTE EMPTY STORAGE TANKS (CALIFORNIA RELATED WASTE ONLY)						No. Type		Quantity		Wt/Vol		State 512			
b.												EPA/Other NONE			
c.												State			
d.												EPA/Other			
J. Additional Descriptions for Materials Listed Above EMPTY DIESEL TANK #2595 WITH 300 LBS DRY ICE						K. Handling Codes for Wastes Listed Above		a. 01		b.		c.		d.	
15. Special Handling Instructions and Additional Information															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name Y McSHANE FRIZ FRIZER						Signature <i>Y McShane</i>						Month Day Year 11 21 89			
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name Richard G Prouett						Signature <i>Richard G Prouett</i>		Month Day Year 12 2 89	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Month Day Year	
19. Discrepancy Indication Space #2) 1 of 1															
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.															
Printed/Typed Name Shannan Lowry						Signature <i>Shannan Lowry</i>						Month Day Year 11 21 89			

GENERATOR

TRANSPORTER

FACILITY

Do Not Write Below This Line

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 D.

Please print or type. (Form designed for use on elite (12-pitch typewriter).)

70799
Instructions on the Back

88549917
 IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CA1D0101912161171E	Manifest Document No. E1C1C11	2. Page 1 1 of	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address PFIZER PIGMENTS 4150 SHELL MOUND, EMERYVILLE, CA				A. State Manifest Document Number 88549917		
4. Generator's Phone (415) 653-6151				B. State Generator's ID		
5. Transporter 1 Company Name ERIKSON TRUCKING INC		6. US EPA ID Number CA1D0101912161171E		C. State Transporter's ID 001374		
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone 415-235-1373		
9. Designated Facility Name and Site Address ERIKSON INC 255 PARKER RD RICHMOND CA 94801				E. State Transporter's ID		
10. US EPA ID Number CA1D0101912161171E				F. Transporter's Phone		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers	13. Total Quantity	14. Unit
a. WASTE EMPTY STORAGE TANKS UNIFORM RELATED WASTE ONLY				No.	Type	Wt/Vol
						I. Waste No.
						State 512
						EPA/Other NONE
						State
						EPA/Other
						State
						EPA/Other
J. Additional Descriptions for Materials Listed Above EMPTY Diesel tank 2594 ICD WITH 300 LBS DRY ICE				K. Handling Codes for Wastes Listed Above		
				a.	b.	
				c.	d.	
15. Special Handling Instructions and Additional Information						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name P. MISHANE FOR PFIZER				Signature <i>P. Mishane</i>		Month Day Year 11/21/12/89
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <i>Rodney G Prowett</i>		Month Day Year 11/21/12/89
Printed/Typed Name Rodney G Prowett				Signature		Month Day Year
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month Day Year
Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name Shannon Lowry				Signature <i>Shannon Lowry</i>		Month Day Year 11/21/12/89

Do Not Write Below This Line

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 D

APPENDIX D
UNDERGROUND STORAGE TANK UNAUTHORIZED
RELEASE (LEAK) CONTAMINATION SITE REPORT

12/27 Am

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY YES NO
 HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES NO

FOR LOCAL AGENCY USE ONLY
 I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE

REPORT DATE: 1 m 2 w 1 d 5 o 8 y 9 v
 CASE #

SIGNED: _____ DATE: **RECEIVED** JAN 05 1989

REPORTED BY: NAME OF INDIVIDUAL FILING REPORT: _____ PHONE: (415) 653-6151 SIGNATURE: **Ans'd.....**
 REPRESENTING: OWNER/OPERATOR REGIONAL BOARD COMPANY OR AGENCY NAME: **Pfizer**
 LOCAL AGENCY OTHER

ADDRESS: 4650 Shellmound Street Emeryville CA 94662-0905
STREET CITY STATE ZIP

RESPONSIBLE PARTY: NAME: Pfizer CONTACT PERSON: _____ PHONE: ()
 UNKNOWN

ADDRESS: 4650 Shellmound Street Emeryville CA 94662-0905
STREET CITY STATE ZIP

SITE LOCATION: FACILITY NAME (IF APPLICABLE): Pfizer Pigments Plant OPERATOR: _____ PHONE: (415) 653-6151

ADDRESS: 4650 Shellmound Street Emeryville Alameda (CA) 94662-1905
STREET CITY COUNTY ZIP

CROSS STREET: Christie TYPE OF AREA: COMMERCIAL INDUSTRIAL RURAL TYPE OF BUSINESS: RETAIL FUEL STATION
 RESIDENTIAL OTHER FARM OTHER Plant

IMPLEMENTING AGENCIES: LOCAL AGENCY: Alameda County Environmental Health AGENCY NAME: CONTACT PERSON: Mr. Gil Wistar PHONE: (415) 271-4320

REGIONAL BOARD: S. F. Bay Area PHONE: ()

SUBSTANCES INVOLVED: (1) NAME: Diesel Fuel QUANTITY LOST (GALLONS): UNKNOWN

(2) QUANTITY LOST (GALLONS): UNKNOWN

DISCOVERY/ABATEMENT: DATE DISCOVERED: 1 m 2 w 1 d 3 o 8 y 9 v HOW DISCOVERED: INVENTORY CONTROL SUBSURFACE MONITORING NUISANCE CONDITIONS
 TANK TEST TANK REMOVAL OTHER

DATE DISCHARGE BEGAN: _____ UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY):
 REMOVE CONTENTS REPLACE TANK CLOSE TANK
 REPAIR TANK REPAIR PIPING CHANGE PROCEDURE
 OTHER

HAS DISCHARGE BEEN STOPPED? YES NO IF YES, DATE: _____

SOURCE/CAUSE: SOURCE OF DISCHARGE: TANK LEAK UNKNOWN PIPING LEAK OTHER
 TANKS ONLY/CAPACITY: 10,000 GAL. MATERIAL: FIBERGLASS STEEL OTHER
 AGE: _____ YRS. CAUSE(S): OVERFILL RUPTURE/FAILURE
 CORROSION UNKNOWN
 SPILL OTHER

CASE TYPE: CHECK ONE ONLY
 UNDETERMINED SOIL ONLY GROUNDWATER DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS: CHECK ONE ONLY
 SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) CLEANUP IN PROGRESS SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY)
 NO ACTION TAKEN POST CLEANUP MONITORING IN PROGRESS NO FUNDS AVAILABLE TO PROCEED EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION: CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
 CAP SITE (CD) EXCAVATE & DISPOSE (ED) REMOVE FREE PRODUCT (FP) ENHANCED BIO DEGRADATION (IT)
 CONTAINMENT BARRIER (CB) EXCAVATE & TREAT (ET) PUMP & TREAT GROUNDWATER (GT) REPLACE SUPPLY (RS)
 TREATMENT AT HOOKUP (HU) NO ACTION REQUIRED (NA) OTHER (OT)

COMMENTS: This tank filled only once in its lifetime. Tank gauges were made routinely with the least inventory reading before tank removal logged at 32 inches (or 2878 gallons, No. 2 diesel)