PFIZER PIGMENTS INC.
A subsidiary of Pfizer Inc.
4650 SHELLMOUND ST., P.O. BOX 8215 • EMERYVILLE, CA 94662-0905
415 / 653-6151

May 8, 1989

Alameda County Health
Care Services Agency
Department of Environmental Health
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

Attention: Gilbert Wistar, Hazardous Materials Specialist

Tank Site Monitoring/Remediation

Enclosed is the first quarterly ground water monitoring report associated with the removed waste oil/solvent tank.

The results show no indication of migration of VOC's down gradient and a significant decrease of solvent in the former pit itself. In approximately one year M1BK level has dropped from 44,240 ppb to 4100 ppb.

We will collect samples again in mid-July for the second quarterly report. We would hope that if the VOC decrease continues we may be allowed to extend the monitoring frequency to semi-annual or annual.

Michael S. Herzog
Manager, Process Engineering

MSH/jm
\wp\m\msh275

CONSULTING GROUND-WATER
GEOLOGISTS AND ENGINEERS
ROUX ASSOCIATES
1430 WILLOW PASS ROAD
SUITE 140
CONCORD, CALIFORNIA 94520 415 685-8742

May 5, 1989

Mr. Michael Herzog
Pfizer Pigments, Inc.
P.O. Box 8215
4650 Shellmound Street
Emeryville, CA 94662-0905

QUARTERLY GROUND-WATER MONITORING
PFIZER PLANT, EMERYVILLE, CA

Dear Mike:

This letter report presents the results of the first quarterly ground-water monitoring at the Pfizer Plant, 4650 Shellmound Street, in Emeryville, California. A site investigation to assess soil and ground-water contamination from a removed underground waste oil tank was completed in August, 1988. The results of the site investigation are contained within a report prepared by Roux Associates on August 12, 1988 entitled "Underground Storage Tank Site Investigation". Based on the findings of the site investigation, ground-water monitoring of wells RW-2, RW-3, and RW-4 for solvents was recommended. The Alameda County Department of Environmental Health approved quarterly ground-water monitoring of these three wells for solvents and total oil and grease in correspondence dated April 3, 1989.

The first set of quarterly ground-water samples were collected from the three monitoring wells on April 18, 1989. Prior to sampling, five casing volumes of water were purged from each well to remove stagnant water from the well casing. Water samples were collected in a stainless steel bailer and transferred into 500 ml amber glass bottles and 40 ml VOA vials provided by the laboratory. The samples were immediately placed in an ice chest and transported to the laboratory. A chain-of-custody was maintained from sample collection through delivery to the laboratory. The chain-of-custody form is included in Attachment A.

Ground-water samples were analyzed by Curtis and Tompkins Laboratory for volatile organic compounds by EPA Method 624 and for total oil and grease by Method SWWM 503 E. Water Analyses from the previous sampling and the first quarter sampling are presented on Table 1 and laboratory reports are included in Attachment A.

TABLE 1 WATER ANALYSES

Boring	Date Sampled	TPH EPA 3550 /8015 (ppm)	Oil and Grease SWWM503E (ppm)	Base/ Neutral EPA625 (ppb)	Volatile Organic EPA624 (ppb)	Salinity
RW-2	3-9-88	ND	ND	-	-	ND
RW-2	3-28-88	-	-	-	ND	-
RW-2	4-18-89	-	ND	-	ND	-
RW-3	3-9-88	ND	ND	-	ND	ND
RW-3	3-28-88	-	-	-	ND	-
RW-3	6-6-88	-	ND	-	-	-
RW-3	4-18-89	-	ND	-	ND	-
RW-4	3-9-88	ND	ND	A=Trace B=5.2	C=6,800 D=8,220 E=44,240	-
RW-4	4-18-89	-	ND	-	E=4,100	-

- = Not Analyzed
ND = None Detected
A = Naphthalene
B = 2-methylnaphthalene
C = Acetone
D = 2-butanone, (MEK)
E = 4-methyl-2-pentanone, (MIBK)

DISCUSSION OF RESULTS

Solvents were not detected in ground-water samples collected from downgradient monitoring wells RW-2 and RW-3. One solvent, 4-methyl-2-pentanone (MIBK) was detected at 4,100 ppb in the ground-water sample collected from monitoring well RW-4. Monitoring well RW-4 is located within the former waste oil tank pit. Oil and grease was not detected in ground-water samples collected from monitoring wells RW-2, RW-3, or RW-4.

The absence of detectable levels of volatile organic compounds in the downgradient monitoring wells indicates that solvents are not migrating from the former tank pit at significant concentrations. As shown on Table 1, the concentrations of solvents in ground-water have decreased significantly in monitoring well RW-4, probably as a result of biodegradation of the acetone and ketones. Acetone and MEK have decreased below detection limits and MIBK has decreased from 44,240 to 4,100 ppb. Ground-water samples will be collected from the three wells for the second quarter monitoring in mid July.

Should you have any questions or comments on these results, please contact either Paul Supple or Jerry Wickham at (415) 685-8742.

Sincerely,
ROUX ASSOCIATES WEST, INC.

Paul V. Supple
Project Hydrogeologist

Jerry T. Wickham
CA REG Geologist No. 3766
CA Certified Engineering
Geologist EG 1177

ATTACHMENT A

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

LAB NUMBER: 17227
CLIENT: ROUX ASSOCIATES
JOB #: 04711
PROJECT: PFIZER, EMERYVILLE, CA

DATE RECEIVED: 04/18/89
DATE ANALYZED: 04/28/89
DATE REPORTED: 05/02/89
PAGE 1 OF 4

Method Reference: O&G: Oil and Grease, SMWW 503 E

LAB ID	CLIENT ID	OIL & GREASE	UNITS	DETECTION LIMIT
17227-1	RW-2	ND	mg/L	25
17227-2	RW-3	ND	mg/L	25
17227-3	RW-4	ND	mg/L	25

ND = Not Detected; Limit of detection indicated in parentheses.

Jon Wing for CBG
LABORATORY DIRECTOR

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 17227-1
CLIENT: ROUX ASSOCIATES
JOB #: 04711
SAMPLE ID: RW-2

DATE RECEIVED: 04/18/89
DATE ANALYZED: 04/28/89
DATE REPORTED: 05/02/88

EPA METHOD 624: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Detection Limit ug/L
chloromethane	ND	10
bromomethane	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5
trichlorofluoromethane	ND	5
1,1-dichloroethene	ND	5
1,1-dichloroethane	ND	5
trans-1,2-dichloroethene	ND	5
chloroform	ND	5
1,2-dichloroethane	ND	5
1,1,1-trichloroethane	ND	5
carbon tetrachloride	ND	5
bromodichloromethane	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trichloroethylene	ND	5
dibromochloromethane	ND	5
1,1,2-trichloroethane	ND	5
benzene	ND	5
trans-1,3-dichloropropene	ND	5
2-chloroethylvinyl ether	ND	10
bromoform	ND	5
1,1,2,2-tetrachloroethane	ND	5
tetrachloroethene	ND	5
toluene	ND	5
chlorobenzene	ND	5
ethyl benzene	ND	5

Non-Priority Hazardous Pollutant Substances List Compounds

acetone	ND	10
carbon disulfide	ND	5
2-butanone	ND	10
vinyl acetate	ND	10
2-hexanone	ND	10
4-methyl-2-pentanone	ND	10
styrene	ND	5
total xylenes	ND	5

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	103
Toluene-d8	104
Bromofluorobenzene	94

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 17227-2
CLIENT: ROUX ASSOCIATES
JOB #: 04711
SAMPLE ID: RW-3

DATE RECEIVED: 04/18/89
DATE ANALYZED: 04/28/89
DATE REPORTED: 05/02/88

EPA METHOD 624: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Detection Limit ug/L
chloromethane	ND	10
bromomethane	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5
trichlorofluoromethane	ND	5
1,1-dichloroethene	ND	5
1,1-dichloroethane	ND	5
trans-1,2-dichloroethene	ND	5
chloroform	ND	5
1,2-dichloroethane	ND	5
1,1,1-trichloroethane	ND	5
carbon tetrachloride	ND	5
bromodichloromethane	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trichloroethylene	ND	5
dibromochloromethane	ND	5
1,1,2-trichloroethane	ND	5
benzene	ND	5
trans-1,3-dichloropropene	ND	5
2-chloroethylvinyl ether	ND	10
bromoform	ND	5
1,1,2,2-tetrachloroethane	ND	5
tetrachloroethene	ND	5
toluene	ND	5
chlorobenzene	ND	5
ethyl benzene	ND	5

Non-Priority Hazardous Pollutant Substances List Compounds

acetone	ND	10
carbon disulfide	ND	5
2-butanone	ND	10
vinyl acetate	ND	10
2-hexanone	ND	10
4-methyl-2-pentanone	ND	10
styrene	ND	5
total xylenes	ND	5

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	109
Toluene-d8	107
Bromofluorobenzene	104

Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 17227-3
CLIENT: ROUX ASSOCIATES
JOB #: 04711
SAMPLE ID: RW-4

DATE RECEIVED: 04/18/89
DATE ANALYZED: 04/28/89
DATE REPORTED: 05/02/88

EPA METHOD 624: VOLATILE ORGANICS IN WATER

COMPOUND	Result ug/L	Detection Limit ug/L
chloromethane	ND	10
bromomethane	ND	10
vinyl chloride	ND	10
chloroethane	ND	10
methylene chloride	ND	5
trichlorofluoromethane	ND	5
1,1-dichloroethene	ND	5
1,1-dichloroethane	ND	5
trans-1,2-dichloroethene	ND	5
chloroform	ND	5
1,2-dichloroethane	ND	5
1,1,1-trichloroethane	ND	5
carbon tetrachloride	ND	5
bromodichloromethane	ND	5
1,2-dichloropropane	ND	5
cis-1,3-dichloropropene	ND	5
trichloroethylene	ND	5
dibromochloromethane	ND	5
1,1,2-trichloroethane	ND	5
benzene	ND	5
trans-1,3-dichloropropene	ND	5
2-chloroethylvinyl ether	ND	10
bromoform	ND	5
1,1,2,2-tetrachloroethane	ND	5
tetrachloroethene	ND	5
toluene	ND	5
chlorobenzene	ND	5
ethyl benzene	ND	5

Non-Priority Hazardous Pollutant Substances List Compounds

acetone	ND	10
carbon disulfide	ND	5
2-butanone	ND	10
vinyl acetate	ND	10
2-hexanone	ND	10
4-methyl-2-pentanone	4,100	10
styrene	ND	5
total xylenes	ND	5

QA/QC SUMMARY: SURROGATE RECOVERIES

1,2-Dichloroethane-d4	106
Toluene-d8	106
Bromofluorobenzene	102

ROUX ASSOCIATES

CHAIN OF CUSTODY RECORD

Project No. 04711

Project Title Pfizer, Emeryville, Ca.

Sample Source Groundwater From Monitoring Wells

Collectors Name PAUL Supple / [signature]
print signature

Field Information _____

Method Of Shipping _____

Relinquished By:

sign [signature]

for Roux Associates

Date/Time 4-18-89 14.43

Received By:

sign [signature]

for Curtis Hampkins

Date/Time 4/18/89 2:30

Sample Designation	Sample Location	Date	Time	Analyte	No. Of Containers
RW-2		4-18	11.30	EPA 624 + Oil and Grease	3
RW-3		4-18	1245	EPA 624 + Oil and Grease	3
RW-4		4-18	13.50	EPA 624 + Oil and Grease	3

Comments: