Environmental Bio-Systems
30028 Industrial Parkway, Southwest
Hayward, California 94544-6904
(415) 429-9988

September 22, 1989

Gary Zaccor
Zaccor Corporation
791 Hamilton Avenue
Menlo Park, California 94025

Mr. Zaccor:

The following documentation concerns the initial tank removal sampling and assessment performed by Environmental Bio-Systems, for Zaccor Corporation, on September 11, 1989 at:

LEWIS BAY SERVICE STATION
1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

On this date, the following underground storage tanks were removed (from diagram):

A: 550 gallon waste oil
B: 4,000 gallon gasoline (NEAR REST ROOMS)
C: 4,000 gallon gasoline (WEST SIDE OF OFFICE
D: 1,000 gallon gasoline
E: 1,000 gallon gasoline

Mr. Lawrence Seto of the Alameda County Department of Environmental Health was present to approve sampling locations and protocols.

FIELD OBSERVATIONS

Visual inspection of tank A revealed a single walled steel structure with no significant rusting, scaling, or pitting observed. No holes were discovered. The tank was positioned horizontally in its' depression extending beneath the adjacent building (see site diagram). Dark staining was noted in the soil directly above the tank but no discoloration was detected in the underlying soils.

Due to its' positioning, tank A was difficult to remove. During excavation, the tank ripped apart and had to be removed in peices.

Visual inspection of tank B revealed a single walled, tar wrapped steel structure with some significant rusting, scaling, pitting. One hole was detected beneath the south (fill) end at the bottom of the tank. The tar wrap was mostly disintegrated. The tank was positioned horizontally in its' depression. A profound hydrocarbon odor was noted in the underlying soil.

Visual inspection of tank C revealed a single walled, tar wrapped steel structure with no significant rusting, scaling, or pitting. No holes were discovered. The tar wrap was mostly disintegrated. The tank was positioned horizontally in its' depression. A profound hydrocarbon odor was noted in the underlying soil.

Visual inspection of tank D revealed a single walled steel structure with no observed significant rusting, scaling, or pitting. No holes were discovered. A profound hydrocarbon odor was noted in the underlying soil.

Visual inspection of tank E revealed a single walled steel structure with significant rusting, scaling, and pitting. A large hole was discovered midway down the eastern side of the tank at the fill end. The tank was position vertically in its' depression. A profound hydrocarbon odor was noted in the underlying soil.

SAMPLING:

Soil sample #1 was collected from beneath the center of tank A from a depth below grade of 7.5 feet (see diagram and sampling methodology section). Due to innaccessibility of the location to excavating equipment, a hand auger was utilized to collect the sample.

Soil sample #2 was collected from below the north end of tank C at a depth below grade of 11.0 feet.

Soil sample #3 was collected from below the south (fill) end of tank C at a depth below grade of 11.0 feet.

Soil sample #4 was collected from below the north end of tank B at a depth below grade of 10.5 feet.

Soil sample #5 was collected from below the south (fill) end of tank B at a depth below grade of 10.5 feet.

Soil sample #6 was collected from below the west end of tank E at a depth below grade of 8.0 feet.

Soil sample #7 was collected from below the east (fill) end of tank E at a depth below grade of 8.0 feet.

Soil sample #8 was collected from below the west end of tank D at a depth below grade of 8.5 feet.

Soil sample #9 was collected from below the east (fill) end of tank D at a depth below grade of 8.5 feet.

SEND

With the consent of Mr. Seto, the samples were analyzed for the following constituents:

#1: TPH (gasoline), BTX&E, TPH (diesel), TOG, EPA8240, EPA8270, Cd, Cr, Pb, Zn
#2: TPH (gasoline), BTX&E
#3: TPH (gasoline), BTX&E
#4: TPH (gasoline), BTX&E
#5: TPH (gasoline), BTX&E
#6: TPH (gasoline), BTX&E
#7: TPH (gasoline), BTX&E
#8: TPH (gasoline), BTX&E
#9: TPH (gasoline), BTX&E

Analytical methods used were consistent with current guidelines set forth by the San Francisco Regional Water Quality Control Board (SFRWQCB).

SAMPLING METHODOLOGY

Soil was removed from the pit in a backhoe bucket. After removing the first 3 to 4 inches of soil, presumably slough, samples were contained by driving clean brass tubes (1.92" x 6") into the exposed layer just above the teeth of the bucket. Soil was packed into the tubes to exclude the existence of headspace. Thus prepared, the ends of the tubes were wrapped with aluminum foil and sealed with plastic caps. After removing excess foil, electrical tape was applied to the seems between cap and tube in an effort to reduce evaporative loss of volatile constituents.

Soil samples taken from a hand auger were promptly packed into clean brass tubes (1.92" x 6"). The exposed ends of the tubes are covered with aluminum foil beneath snug fitting plastic caps. The seams between cap and tube were covered with a non-contributing plastic tape in an effort to reduce evaporative loss of volatile compounds.

The samples were documented on an appropriate chain of custody and transported to Mobile Chem Labs Inc., the certified hazardous waste analytical laboratory present on site during excavation.

RESULTS

Copies of the sample analytical results are enclosed.

Soil sample #1 was found to contain 610 ppb acetone, 11 ppm Cr, 5 ppm Pb, and 22 ppm zinc.

Soil sample #2 was found to contain 5,100 ppm TPH as gasoline, 84 ppm benzene, 180 ppm toluene, 500 ppm xylenes, and 150 ppm ethylbenzene.

Soil sample #3 was found to contain 480 ppm TPH as gasoline, 2.0 ppm benzene, 23 ppm toluene, 43 ppm xylenes, and 11 ppm ethylbenzene.

Soil sample #4 was found to contain 61 ppm TPH as gasoline, .7 ppm benzene, 5.5 ppm toluene, 5.5 ppm xylenes, and 1.5 ppm ethylbenzene.

Soil sample #5 was found to contain 6.8 ppm TPH as gasoline, .3 ppm benzene, .5 ppm toluene, .8 ppm xylenes, and .3 ppm ethylbenzene.

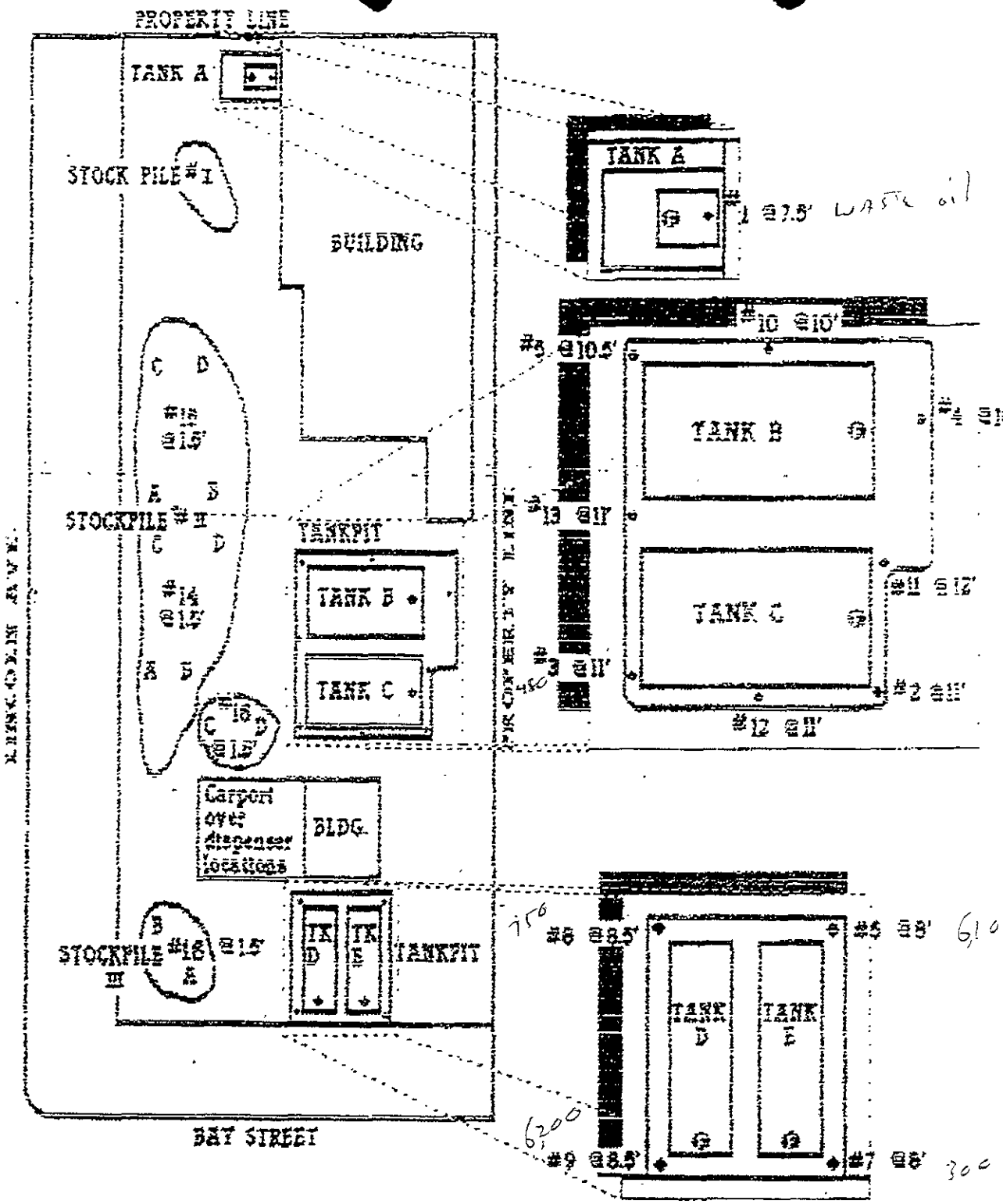
Soil sample #6 was found to contain 6,100 ppm TPH as gasoline, 93 ppm benzene, 450 ppm toluene, 610 ppm xylenes, and 140 ppm ethylbenzene.

Soil sample #7 was found to contain 300 ppm TPH as gasoline, 6.6 ppm benzene, 22 ppm toluene, 48 ppm xylenes, and 8.5 ppm ethylbenzene.

Soil sample #8 was found to contain 750 ppm TPH as gasoline, 15 ppm benzene, 56 ppm toluene, 120 ppm xylenes, and 21 ppm ethylbenzene.

Soil sample #9 was found to contain 6,200 ppm TPH as gasoline, 240 ppm benzene, 740 ppm toluene, 1,000 ppm xylenes, and 180 ppm ethylbenzene.

END



61

5,100 TPH

150

6,100

6,200

300

ZACCOR @
LEWIS BAY SERVICE STATION
1127 LINCOLN AVE.
ALAMEDA, CA.

0' 5' 10' 15'
0' 10' 20' 30'
N

RECOMMENDATIONS

The State Water Resources Control Board document, Leaking Underground Fuel Tank Field Manual (LUFT), supported by the San Francisco Regional Water Quality Control Board (SFRWQCB), defines acceptable limits and appropriate actions in dealing with tank removal and associated contamination.

To remain in compliance with SFRWQCB guidelines, we recommend the following: the installation of at least one groundwater monitoring well placed within ten feet of the previous location of tanks B and C and at least one groundwater monitoring well within ten feet of tanks D and E in verified downgradient positions, as approved by the appropriate regulatory agency assigned to oversee work done at this location. Subsequent sampling of the groundwater should be carried out quarterly for at least one hydrologic cycle (one year) to determine any impact on shallow water quality as effected by varying groundwater levels.

3 WELLS

The presence of soil contamination greater than 100 ppm mandates remedial action. Further examination into the extent of soil contamination in excess of the maximum allowable limits is necessary to determine the volume and area involved.

The presence of acetone in sample #1 (610 ppb) requires that the toxics division of the Regional Water Quality Control Board be notified.

Composite soil analysis for stockpiled soil should be carried out to determine the feasibility of aerating the soil. Should the contaminant levels found in the piles be such that aeration is possible in the amount of spaced and time available, the results of the composite sampling could be used to design a work schedule.

REPORTAGE

Copies of the sampling report, the chain of custody, and the certified analytical data sheets should be submitted to both the SFRWQCB fuel leaks division, toxics division, and the Alameda County Department of Health.

If you have any questions, or if I may be of further service please contact me at (415) 429-9988.

Sincerely,
ENVIRONMENTAL BIO-SYSTEMS

Timothy M. Babcock
Project Manager

MOBILE CHEM LABS INC.

1678 Reliez Valley Road
Lafayette, CA 94549 • (415) 945-1266

Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-11-89

Sample Number	Sample Description
099070	Job #003-066-254 1127 Lincoln Ave. Alameda #1 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1
Benzene	0.1	<0.1
Toluene	0.1	<0.1
Xylenes	0.1	<0.1
Ethylbenzene	0.1	<0.1

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

1678 Reliez Valley Road
Lafayette, CA 94549 • (415) 945-1266

Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-11-89

Sample Number	Sample Description	Detection Limit	Gravimetric Waste Oil as Petroleum Oil
		ppm	ppm
	Job # 003-066-254 1127 Lincoln Ave. - Alameda		
099070	# 1	50	<50

Note: Analysis was performed using EPA extraction method 3510 with Trichlorotrifluoroethane as solvent, and gravimetric determination by standard methods 503e

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Environmental Bio-Systems
30028 Industrial Pkway. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled:09-11-89
Date Received:09-11-89
Date Reported:09-19-89

Sample Number	Sample Description	Detection Limit	Total Petroleum Hydrocarbons as Diesel
		ppm	ppm
	Job # 003-066-254 - Alameda 1127 Lincoln Ave		
099070	# 1	5	<5

Note: Analysis was performed using EPA methods 3550 and TPH LUFT

MOBILE CHEM LABS

Ronald G. Evans

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See Below	Client:	MOBILE CHEM LABS
Sample Received:	09/11/89	Client Ref. No.:	003-066-254
Sample Analyzed:	09/12/89	Lab Client Code:	77442
Sample Matrix:	Soil	Lab No.:	8909077

Batch Sub. No.	Sample Identification	Cadmium (mg/kg)	Chromium (mg/kg)
01	099069	<0.1	11
02	Method Blank	<0.1	<1
Limit of Detection		0.1	1
Date Analyzed		09/12/89	09/12/89
Method Reference		EPA6010	EPA6010

< = less than, below limit of detection

INORGANIC LABORATORY ANALYSES

Sample I.D.:	See Below	Client:	MOBILE CHEM LABS
Sample Received:	09/11/89	Client Ref. No.:	003-066-254
Sample Analyzed:	09/12/89	Lab Client Code:	77442
Sample Matrix:	Soil	Lab No.:	8909077

Batch Sub. No.	Sample Identification	Lead (mg/kg)	Zinc (mg/kg)
01	099069	5	22
02	Method Blank	<1	<1
Limit of Detection		0.1	1
Date Analyzed		09/12/89	09/12/89
Method Reference		EPA6010	EPA6010

< = less than, below limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: METHOD BLANK Client: MOBILE CHEM LABS INC.

Compound	CAS #	Concentration ug/kg	Limit of Detecti ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: 099069

Client: MOBILE CHEM LABS INC.

Sample Received: 09/11/89
Sample Extracted: 09/12/89
Sample Analyzed: 09/12/89

Client Ref. No.: 003-066-254

Lab Client Code: 77442

Sample Matrix: SOIL

Lab No.: 8909077-01A

Compound	CAS #	Concentration ug/kg	Limit of Detecti ug/kg
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	200
4-nitrophenol	100-02-7	ND	200
2-methyl-4,6-dinitrophenol	534-52-1	ND	30
Pentachlorophenol	87-86-5	ND	30
BASE/NEUTRAL COMPOUNDS			
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES
(Cont'd)

Sample I.D.: 099069 Client: MOBILE CHEM LABS INC.

Compound	CAS #	Concentration ug/kg	Limit of Detecti ug/kg
BASE/NEUTRAL COMPOUNDS			
4-chloroaniline	106-47-8	ND	200
2-nitroaniline	88-74-4	ND	200
3-nitroaniline	99-09-2	ND	200
4-nitroaniline	100-01-6	ND	200
Hexachlorocyclopentadiene	77-47-4	ND	30
Dimethyl phthalate	131-11-3	ND	300
Acenaphthylene	208-96-8	ND	30
Acenaphthene	83-32-9	ND	30
2,4-dinitrotoluene	121-14-2	ND	30
2,6-dinitrotoluene	606-20-2	ND	30
Diethyl phthalate	84-66-2	ND	30
4-chlorophenylphenylether	7005-72-3	ND	30
Fluorene	86-73-7	ND	30
N-nitrosodiphenylamine	86-30-6	ND	30
4-bromophenylphenylether	101-55-3	ND	30
Hexachlorobenzene	118-74-1	ND	30
Phenanthrene	85-01-8	ND	30
Anthracene	120-12-7	ND	30
Di-n-butylphthalate	84-74-2	ND	30
Fluoranthene	206-44-2	ND	30
Benzidine	92-87-5	ND	1000
Pyrene	129-00-0	ND	30
Benzylbutylphthalate	85-68-7	ND	30
3,3'-dichlorobenzidine	91-94-1	ND	1000
Benzo(a)anthracene	56-55-3	ND	30
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	300
Chrysene	218-01-9	ND	70
Di-n-octylphthalate	117-84-0	ND	30
Benzo(b)fluoranthene	205-99-2	ND	70
Benzo(k)fluoranthene	207-08-9	ND	30
Benzo(a)pyrene	50-32-8	ND	30
Indeno(1,2,3-cd)pyrene	193-39-5	ND	30
Dibenzo(a,h)anthracene	53-70-3	ND	30
Benzo(ghi)perylene	191-24-2	ND	30

ND = Not detected at or above limit of detection

EPA METHOD 8270
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: METHOD BLANK

Sample Received: 09/11/89
Sample Extracted: 09/12/89
Sample Analyzed: 09/12/89

Client: MOBILE CHEM LABS INC.

Client Ref. No.: 003-066-254

Sample Matrix: SOIL

Lab Client Code: 77442

Lab No.: 8909077-02A

Compound	CAS #	Concentration ug/kg	Limit of Det ug/k
ACID COMPOUNDS			
Phenol	108-95-2	ND	30
2-chlorophenol	95-57-8	ND	30
2-methyl phenol	95-48-7	ND	30
4-methyl phenol	106-44-5	ND	30
2-nitrophenol	88-75-5	ND	30
2,4-dimethylphenol	105-67-9	ND	30
2,4-dichlorophenol	120-83-2	ND	30
4-chloro-3-methylphenol	59-50-7	ND	30
2,4,5-trichlorophenol	95-95-4	ND	30
2,4,6-trichlorophenol	88-06-2	ND	30
2,4-dinitrophenol	51-28-5	ND	30
4-nitrophenol	100-02-7	ND	30
2-methyl-4,6-dinitrophenol	534-52-1	ND	200
Pentachlorophenol	87-86-5	ND	200
BASE/NEUTRAL COMPOUNDS		ND	30
			30
N-nitrosodimethylamine	62-75-9	ND	200
Bis(2-chloroethyl)ether	111-44-4	ND	30
1,3-dichlorobenzene	541-73-7	ND	30
1,4-dichlorobenzene	106-46-7	ND	30
1,2-dichlorobenzene	95-50-1	ND	30
Bis-(2-chloroisopropyl)ether	108-60-1	ND	30
N-nitrosodi-n-propylamine	621-64-7	ND	30
Hexachloroethane	67-72-1	ND	30
Nitrobenzene	98-95-3	ND	30
Isophorone	78-59-1	ND	30
Bis-(2-chloroethoxy)methane	111-91-1	ND	30
1,2,4-trichlorobenzene	120-82-1	ND	30
Naphthalene	91-20-3	ND	30
Hexachlorobutadiene	87-68-3	ND	30
2-chloronaphthalene	91-58-7	ND	30
2-methyl naphthalene	91-57-6	ND	30
		ND	30
			30

ND = Not detected at or above limit of detec

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: 099069
Sample Received: 09/11/89
Sample Analyzed: 09/12/89
Sample Matrix: SOIL

Client: MOBILE CHEM LABS INC.
Client Ref. No.: 003-066-254
Lab Client Code: 77442
Lab No.: 8909077-01A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	610	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240
PURGEABLE ORGANICS
(LOW-LEVEL METHOD)

Sample I.D.: METHOD BLANK
Sample Received: 09/11/89
Sample Analyzed: 09/12/89
Sample Matrix: SOIL

Client: MOBILE CHEM LABS INC.
Client Ref. No.: 003-066-254
Lab Client Code: 77442
Lab No.: 8909077-02A

Compound	CAS #	Concentration ug/kg	Limit of Detection ug/kg
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

MOBILE CHEM LABS INC.

1678 Reliez Valley Road
Lafayette, CA 94549 • (415) 945-1266

Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-11-89

Sample Number	Sample Description
099061	Job #003-066-254 1127 Lincoln Ave. Alameda #2 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	5,100
Benzene	0.1	84
Toluene	0.1	180
Xylenes	0.1	500
Ethylbenzene	0.1	150

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

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Lafayette, CA 94549 • (415) 945-1266

Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-11-89

Sample Number	Sample Description
099062	Job #003-066-254 1127 Lincoln Ave. Alameda #3 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	460
Benzene	0.1	2.0
Toluene	0.1	23
Xylenes	0.1	43
Ethylbenzene	0.1	11

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

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Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6804
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-11-89

Sample Number	Sample Description
099063	Job #003-066-254 1127 Lincoln Ave. Alameda #4 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	61
Benzene	0.1	0.7
Toluene	0.1	1.0
Xylenes	0.1	5.5
Ethylbenzene	0.1	1.5

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

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Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-11-89

Sample Number	Sample Description
099064	Job #003-066-254 1127 Lincoln Ave. Alameda #5 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	6.8
Benzene	0.1	0.3
Toluene	0.1	0.5
Xylenes	0.1	0.8
Ethylbenzene	0.1	0.3

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

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Ronald G. Evans
Lab Director

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Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-11-89

Sample Number	Sample Description
099065	Job #003-066-254 1127 Lincoln Ave. Alameda #6 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	6,100
Benzene	0.1	93
Toluene	0.1	450
Xylenes	0.1	610
Ethylbenzene	0.1	140

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

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Ronald G. Evans
Lab Director

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Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-8904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-19-89

Sample Number	Sample Description
099086	Job #003-066-254 - Alemeda 1127 Lincoln Ave. # 7 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	300
Benzene	0.1	6.6
Toluene	0.1	22
Xylenes	0.1	48
Ethylbenzene	0.1	8.5

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

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Ronald G. Evans
Lab Director

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Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 09-19-89

Sample Number	Sample Description
099067	Job #003-068-254 - Alemeda 1127 Lincoln Ave. # 8 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	750
Benzene	0.1	15
Toluene	0.1	56
Xylenes	0.1	120
Ethylbenzene	0.1	21

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

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Lab Director

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Environmental Bio-Systems
30028 Industrial Pkwy. S.W.
Hayward, CA 94544-6904
Attn: Timothy Babcock
Environmental Scientist

Date Sampled: 09-11-89
Date Received: 09-11-89
Date Reported: 08-19-89

Sample Number	Sample Description
099068	Job #003-068-254 - Alemeda 1127 Lincoln Ave. # 9 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	6,200
Benzene	0.1	240
Toluene	0.1	740
Xylenes	0.1	1,000
Ethylbenzene	0.1	180

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for BTX distinction.

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

ENVIRONMENTAL BIO-SYSTEMS
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9988

CHAIN OF CUSTODY DOCUMENTATION

Site Address: Zaccor @ Lewis Bay
Str Service 1127 Lincoln Ave. Alameda, Cal
Job #: 603-066-254

Turn Around: on site

Lab Used: Mobile Chem (on site)

Sampler: Harry Hall Date Sampled: 9-11-89

	Sample:	Soil/ Water:	Analyses:	Single/ COMP.:
070*	1 [redacted]	S	TPH(gas), BTEX, TPH(d), TOG	S
061	2	S	TPH(gas) BTX;E	S
062	3	S		S
063	4	S		S
064	5	S		S
065	6	S		S

Released By:	Accepted By:	Date/Time
Harry Hall	Charles L. Morrow	9/11/89 1:15P
		/ /
		/ /

Signed: _____

ENVIRONMENTAL BIO-SYSTEMS
30028 INDUSTRIAL PKWY., S.W.
HAYWARD, CA. 94544
(415) 429-9288

CHAIN OF CUSTODY DOCUMENTATION

066 on site others 2 wks

Site Address: Zaccor @ Lewis Bay St Service 1127 Lincoln Ave. Alameda Cal.
Turn Around: On Site
Job #: 003-066-254

Lab Used: Mobile Chem (on site)

Sampler: Harry Hall
Date Sampled: 9-11-89

	Sample:	Soil/ Water:	Analyses:	Single/ COMP.:
066	#7	S	TPH (gas) BTXiE	S
067	#8	S		S
068	#9	S		S
069	X #1 split	S	8240, 8270, Cd, Cr, Pb, Zn	S

on site 2 wks

Released By:	Accepted By:	Date/Time
Harry Hall	Charles R. Marrow	1:15 P 9/11/89
		/ /
		/ /

Signed: _____

ENVIRONMENTAL SERVICES
(DIVISION OF H&H SHIP SERVICE CO., INC.)

220 CHINA BASIN, P.O. BOX 77363 • SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835

CERTIFICATE OF DISPOSAL

SEPTEMBER 13, 1989

H & H Ship Service Company hereby certifies to ZACCOR that:

1. The storage tank(s), size(s) 2-4,000, 2-1,000 & 1-250 removed from the LEWIS'S BAY STREET SERVICE facility at 1127 LINCOLN AVENUE ALAMEDA, CALIFORNIA were transported to H & H Ship Service Company, 220 China Basin Street, San Francisco, California 94107.

2. The following tank(s), H & H Job Number 1813 have been steamed cleaned, cut with approximately 2' x 2' holes, rendered harmless and disposed of as scrap metal.

3. Disposal site: LEVIN METALS CORPORATION, RICHMOND, CA.

4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.

5. Should you require further information, please call (415) 543-4836.

Very Truly Yours,

Cleveland Valrey
Operations Coordinator

ENVIRONMENTAL SERVICES
(DIVISION OF H&H SHIP SERVICE CO., INC.)

220 CHINA BASIN, P.O. BOX 77363 • SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835

LABORATORY REPORT

H & H Lab ID No.: 2714

Manifest/Log No.: 89495209

Client: Leo Pagano

Sample Description: Tank bottom residue.

Date Reported: 09/12/89
Date Analyzed: 09/11/89
Date Received: 09/11/89

ANALYSIS REPORT

PARAMETER	RESULT (mg/L)	DETECT. LIMIT (mg/L)	STLC LIMIT (mg/L)	TTLC LIMIT (mg/kg)
Arsenic	N.D.	1.0	5.0	500.0
Cadmium	N.D.	1.0	1.0	75.0
Total Chromium	N.D.	1.0	560.0	2500.0
Copper	N.D.	1.0	25.0	2500.0
Lead	N.D.	1.0	5.0	1000.0
Nickel	N.D.	1.0	20.0	2000.0
Zinc	N.D.	1.0	250.0	5000.0
PCB's*	N.D.			
Solids**	100.0%			

Determination by HMs Test Kit, LaMotte Chemical Products Co., Chestertown, Maryland.
*Determination by PCBs Screening Kit, Dexsil Corp., Hamden, Connecticut
**Centrifugation

Jeff Gunn FOR Peter O. Yimbo

Peter O. Yimbo, Ph.D
Chemist/Laboratory Director