

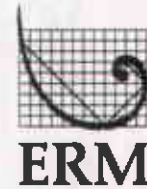
December 7, 1994

ALCO
HAZMAT

94 DEC 19 PM 12:10

Mr. Jon Amdur
Port of Oakland
530 Water Street
Oakland, CA 94607

Subject: UST Tank Removal
370 8th Avenue
(Keep On Trucking)
Oakland, California



Dear Mr. Amdur:

ERM-West, Inc. (ERM), on behalf of The Port of Oakland (Port) herein presents the findings of soil and ground water sampling related to an underground storage tank (UST) removal at Keep On Trucking, 370 8th Avenue, Oakland, California. The duties of ERM were: observe the removal of the UST; collect soil and ground water samples; determine the laboratory testing requirements for disposal of fuel-affected soils either at the Vasco Road Sanitary Landfill or the Forward, Inc., landfill; and prepare a letter reporting our findings.

UST REMOVAL

The UST was located adjacent to the southwest side of the building occupied by Keep On Trucking (Figure 1). On October 12, 1994, the UST was exposed by excavation of the soils around the tank. The east side of the excavation extended to the edge of the adjacent building and was shored to prevent collapse. The UST removal was accomplished by Environmental Investigations and Actions of Hayward, CA. The tank removed from the ground was found to be of steel construction with an approximate 1000-gallon capacity. The tank appeared to be intact.

Subsurface Conditions

Materials excavated consisted of fill soils and Bay mud. The fill soils exposed in the excavation were composed of dark, fine-grained sands to the depth of the UST bottom, approximately 4.5 feet below ground surface (bgs). Underlying the fill, Bay mud was encountered to the total depth of the excavation, approximately 7 feet bgs. The Bay mud consisted of dark gray-black, silty clay. Adjacent to the south end of the UST, discolored soils with a strong odor were observed. Measurements of the discolored/odorous soils

with a photoionization detector (PID) indicated that significant concentrations of organic vapors were emanating from the material. The discolored/odorous soil was excavated and added to the other soil removed from the excavation. Due to the dark/gray coloration of the soils surrounding the tank, the identification of potentially impacted soil was based primarily upon the soil's odor and PID readings. All of the soils excavated were stockpiled at the site.

Below the discolored soils, an abandoned terra cotta pipe was encountered. It was not possible to determine whether the pipe was originally located in this area or whether it had been placed as part of the backfill. PID measurement from inside the pipe indicated measurable concentrations of organic vapors.

After the UST was removed, a very minor amount of ground water was present in the western half of the excavation. The quantity of ground water was too small to allow sampling.

Sample Collection

Two soil samples were collected from the excavation immediately following the tank removal (October 12, 1994). Samples TE-1 and TE-2 were collected from east and west ends of the excavation, respectively, approximately 2 feet below the former tank bottom (approximately 7 feet below grade). Sample SP-1 was collected as a composite sample from the stockpiled soils. The samples were collected using a clean trowel and were placed into laboratory-supplied glass jars. After collection, the jars were sealed, labeled, then placed on ice in a cooler. The samples were transported under chain of custody to Sequoia Analytical Laboratory, Concord, California.

On October 15, 1994, three of the four excavation side walls were sampled (Figure 1). The side wall adjacent to the building was sampled on October 19 by Environmental Investigations and Actions during the removal of the shoring. The sidewall samples were collected by forcing clean 2-inch brass tubes into the soil. Following sample collection, the brass tubes were sealed with Teflon tape and tight-fitting plastic end caps, then labeled and placed on ice in a cooler. The samples were then transported under chain of custody to Clayton Environmental Laboratory, Pleasanton, California.

Also on October 15, a single water sample, GW-1, was collected from a small pool of water that had accumulated in the western half of the excavation. The water sample was collected using a disposable bailer then transferred to laboratory-provided, 40 ml glass vials. Each vial was labeled and placed in the same cooler containing the three soil samples. The volume of ground water collected was sufficient only for the volatile organic analysis.

Laboratory Analyses

The soil samples collected from below the UST and the excavation sidewalls were analyzed for total petroleum hydrocarbons characterized as gasoline and diesel fuels according to EPA Method 8015-Modified, and aromatic organic compounds according to EPA Method 8020. The analytical requirements for landfill disposal of the stockpiled soils included the following: TPH-gasoline and aromatic volatile compounds by EPA Method 8020; volatile organic compounds according to EPA Method 8240; semivolatile organic compounds according to EPA Method 8270; petroleum hydrocarbons characterized as diesel according to EPA Method 418.1; and CCR Title 26 soluble metals according to various methods; and for the hazardous waste criteria of reactivity, corrosivity, and ignitability. The additional analyses were conducted to characterize the stockpiled soils for disposal. The water sample was analyzed for volatile fuel hydrocarbons and aromatic organic compounds using EPA methods 8015-M and 8020, respectively. Analytical results are summarized in Tables 1 and 2.

RESULTS

Results of the laboratory analyses indicate that petroleum hydrocarbons were present in the subsurface soil samples and the ground water sample (Table 1). The data indicate that both gasoline and diesel fuels were detected. Trace concentrations of volatile organic compounds were detected in samples TE-3 and TE-6. The laboratory analyses of the sidewall soil samples (TE-3, TE-4, TE-5, and TE-6) were received by ERM subsequent to backfilling of the excavation.

Soil Impacts

The two samples collected from the bottom of the excavation had the lowest concentrations of TPH as diesel (120 mg/kg and 160 mg/kg, respectively, for TE-1 and TE-2), as well as relatively low concentrations of TPH as gasoline (21 mg/kg and 25 mg/kg, respectively). The concentrations of these compounds are slightly above the LUFT Manual cleanup level guidelines of 100 mg/kg for TPH-diesel fuel, and 10 mg/kg for TPH-gasoline for releases at sites with shallow ground water levels.

TPH-diesel concentrations in the sidewall samples ranged from 98 mg/kg to 44,000 mg/kg, while TPH as gasoline concentrations ranged from 5.6 mg/kg to 550 mg/kg. To determine whether naturally-occurring organic materials could have mistakenly been characterized as diesel fuel, ERM requested that the laboratory verify that the reported diesel fuel compounds matched the typical diesel fuel profile. Based on Clayton's statement that the pattern detected was typical of diesel fuel, ERM subsequently requested that the

laboratory reanalyze the soil samples for TPH as diesel. The subsamples collected by Clayton to fulfill this request were from the opposite ends of the brass tubes from the original subsamples. The findings from the second group of analyses confirmed the initial findings. The findings also indicated there is some inhomogeneity in the occurrence of TPH-diesel in the soils, as significantly lower concentrations were reported for two of the three reanalyzed samples, and a higher concentration was reported for one of the reanalyzed samples.

The highest concentrations of both gasoline and diesel constituents were detected in sample TE-3 from the south sidewall of the excavation, followed by sample TE-5 from the west sidewall of the excavation. Lower concentrations were detected in samples TE-4 and TE-6 from the north and east sidewalls, respectively. Concentrations of TPH diesel-fuel in all samples (with the exception of the reanalysis of TE-4) show concentrations of diesel fuel above the LUFT Manual cleanup guidelines of 100 mg/kg. The samples from the northern and eastern sidewalls, however, are well below 1000 mg/kg, and thus the regulatory agencies may allow those soils to remain in place. Gasoline concentrations for samples TE-3 and TE-5 also significantly exceed the regulatory guidelines. The gasoline concentration for sample TE-6 is considered to be within the acceptable range, while the concentration in sample TE-4 is above regulatory guidelines. It is uncertain whether the regulatory agencies are likely to allow the gasoline concentrations at the northern sidewall to remain in place. Finally, benzene was detected in sample TE-3 at a concentration of 0.32 mg/kg, which is at the regulatory threshold for this compound.

It should be noted that during the tank removal activities, the excavation sidewalls (with the exception of the small area of discolored/odorous soil previously discussed) did not appear to be impacted. Neither odor nor PID measurements suggested that impacted soils were present in the sidewalls. Based on all available field evidence, it appeared that the affected soils had been removed; however, the location of the discolored soils along the southern portion of the excavation correlates with the highest concentrations of diesel fuel detected in the soil sample from the southern sidewall. The presence of other discolored soil may have been masked by the natural dark colors of the fill and the Bay mud present in the excavation area.

Ground Water Impacts

The single sample of ground water was reported by the laboratory to contain a low concentration of gasoline (1,600 µg/l). The aromatic hydrocarbon compounds typically associated with gasoline were not detected. Because of insufficient sample volume (i.e., insufficient ground water in the excavation), the ground water samples could not be analyzed for diesel fuel constituents.

Stockpiled Soils

The stockpiled soil was analyzed consistent with the requirements provided by the two landfills contacted. The stockpiled soil showed elevated concentrations of TPH as diesel (6,700 mg/kg) and as gasoline (590 mg/kg). Ethylbenzene and xylene were detected at 4.6 mg/kg and 8.6 mg/kg, respectively. Volatile organic compounds were not detected. The semivolatile organic compounds fluorene (2 mg/kg), 2-methylnaphthalene (6.9 mg/kg), and phenanthrene (2.9 mg/kg) were also detected. The concentrations of the aromatic volatiles and semivolatile compounds are well below the industrial Preliminary Remediation Goals (PRGs) for these compounds. No halogenated volatile organic compounds were detected. Soluble metals concentrations in the stockpiled soils were all well below the soluble threshold limit concentration.

CONCLUSIONS AND RECOMMENDATIONS

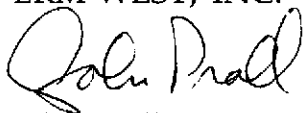
- The soils underlying the site of the former UST consist of fill material and Bay mud. The fill consists of dark, fine-grained sands to an approximate depth of 4.5 feet bgs. Bay mud was encountered below the fill material and consists of dark, gray-black, silty clay to the maximum depth explored (7 feet bgs).
- A very limited volume of ground water was encountered in the excavation. The actual depth to ground water and flow direction are unknown.
- Visual, instrumental, and laboratory findings indicate that significant concentrations of gasoline and diesel fuels were detected in the soils to the south and west of the former tank. Lower concentrations were detected to the east and north of the former tank.
- The concentrations of the fuels below the tank slightly exceed the 100 mg/kg regulatory guideline for diesel and the 10 mg/kg regulatory guideline for gasoline.
- The concentrations of individual aromatic hydrocarbons detected in the soils surrounding the tank are below the industrial PRGs.
- Laboratory results indicate that minor concentrations (1,600 µg/l) of gasoline were detected in the ground water; aromatic hydrocarbons typically associated with gasoline were not detected.

- The semivolatile organic compounds fluorene, 2-methylnaphthalene, and phenanthrene were detected in the stockpiled soil, but are present below industrial PRGs.
- The data indicate that impacted soils extend beyond the perimeter of the excavation. The lateral extent away from the excavation is unknown. The data also suggest there is a limit to the depth extent of the fuel-affected soils. It is possible that the limiting factor may have been the silty clay material of the Bay mud.
- The data indicate the presence of gasoline in ground water. The lateral extent of the affected ground water is unknown.
- Further site activities are recommended to characterize the extent of fuel-affected soils and ground water; these activities should include exploratory soil borings as well as HydroPunch sampling or ground water monitoring well construction and sampling.
- ERM recommends negotiations between the Port and regulatory agencies to allow the compounds of concern present at the bottom of the excavation and along the northern and eastern sidewalls to remain in place.

ERM appreciates the opportunity to provide technical assistance to the Port of Oakland. Please do not hesitate to call if you have any questions regarding this letter report.

Sincerely,

ERM-WEST, INC.



John Prall, R.G.
Senior Geologist

JRP/jrp/2162.26

Enclosures

Table 1

*Summary of Laboratory Analyses for Samples Collected From the UST Excavation
370 8th Avenue, Oakland, California
Port of Oakland*

Sample Number	Depth (feet, bgs)	Date Sampled	Total Petroleum Hydrocarbons		Aromatic Hydrocarbons			
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Xylenes
Samples Analyzed by Sequoia Analytical								
Soils (mg/kg)								
TE-1	7	10/12/94	21	160	<0.005	<0.005	<0.005	<0.005
TE-2	7	10/12/94	25	120	<0.005	<0.005	<0.005	<0.005
Samples Analyzed by Clayton Environmental Laboratory								
Soils (mg/kg)								
TE-3	5.5	10/15/94	550	*44,000/18,000	0.32	<0.06	<0.06	<0.08
TE-4	5	10/15/94	43	*550/98	<0.04	<0.03	<0.03	<0.04
TE-5	5.5	10/15/94	110	*3,300/6,900	<0.06	<0.06	<0.06	<0.08
TE-6	≈5	10/17/94	5.6a	320	<0.01	<0.01	0.01	0.02
Ground Water (µg/l)								
GW-1	--	10/15/94	1,600	--	<0.4	<0.3	<0.3	<0.4

Notes: * Asterix denotes that samples were reanalyzed to confirm previous analyses.

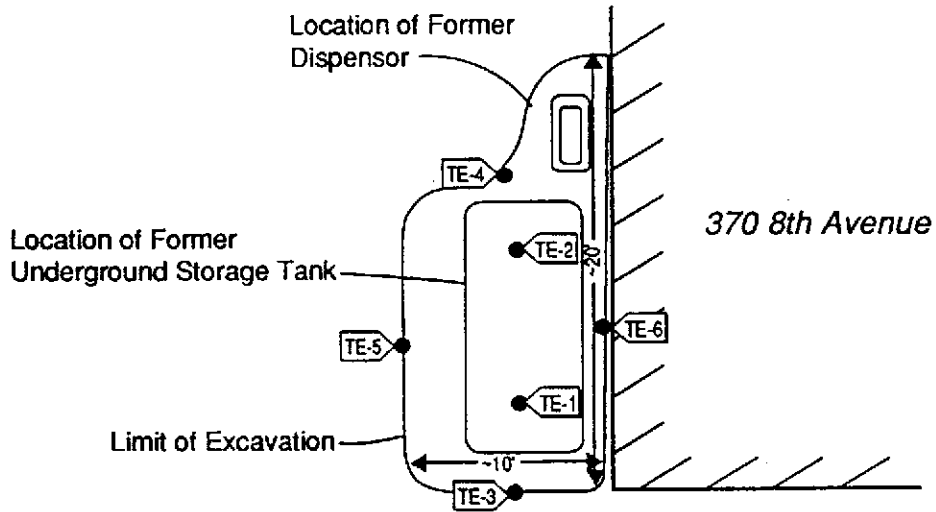
Table 2
Summary of Laboratory Analyses of Stockpiled Soil (Sample SP-2)
370 8th Street, Oakland, California
Port of Oakland

Soluble Metals		Total Petroleum Hydrocarbons		Aromatic Hydrocarbons		Petroleum Oil as Diesel	Volatile Organic Compounds	Semivolatile Organic Compounds		Other Tests	
Sb	<0.10	Gasoline	590	Benzene	<0.005	6,700	all ND	Fluorene	2.0 (28)	Corrosivity	7.4 pH
As	0.23			Toluene	<0.005			2-methyl-naphthalene	6.9	Ignitability	>100 C
Ba	3.4			Ethylbenzene	4.6			Phenanthrene	2.9 (-)	Sulfide	<13
Be	<0.75			Xylenes	8.6					Cyanide	<0.010
Cd	<0.010									Water	Negative
Cr	0.19										
Co	0.3										
Cu	0.11										
Pb	3.1										
Hg	0.014										
Mo	<0.010										
Ni	0.44										
Se	<0.10										
Ag	<0.010										
Tl	<0.10										
V	<0.010										
Zn	9.7										

Notes: Units are in mg/kg unless as otherwise noted.
 NA = Not Analyzed
 Analyses were performed by Sequoia Analytical Laboratory.



No Scale



8th Avenue

370 8th Avenue

Legend

- TE -1 Sample Locality

Figure 1
Location of Former Underground Storage Tank
and Sampling Locations
Keep On Trucking
370 8th Avenue
Oakland, California

LABORATORY ANALYSES



ERM-West	Client Project ID: 370 8th Ave., Port of Oakland	Sampled: Oct 12, 1994
1777 Botelho Dr., Ste. 260	Sample Matrix: Soil	Received: Oct 12, 1994
Walnut Creek, CA 94596	Analysis Method: EPA 5030/8015/8020	Reported: Oct 14, 1994
Attention: John Prall	First Sample #: 410-0681	

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

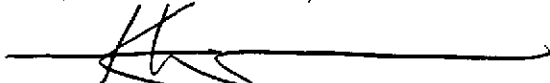
Analyte	Reporting Limit mg/kg	Sample I.D. 410-0681 TE-1	Sample I.D. 410-0682 TE-2	Sample I.D. 410-0683 SP-1
Purgeable Hydrocarbons	1.0	21	25	590
Benzene	0.0050	N.D.	N.D.	N.D.
Toluene	0.0050	N.D.	N.D.	N.D.
Ethyl Benzene	0.0050	0.14	N.D.	4.6
Total Xylenes	0.0050	N.D.	N.D.	8.6
Chromatogram Pattern:		Unidentified Hydrocarbon > C10	Unidentified Hydrocarbon > C8	Unidentified Hydrocarbon > C10

Quality Control Data

Report Limit Multiplication Factor:	20	25	100
Date Analyzed:	10/13/94	10/13/94	10/13/94
Instrument Identification:	HP-2	HP-4	HP-2
Surrogate Recovery, %: (QC Limits = 70-130%)	98	95	105

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271


Kenneth K.F. Lee
Laboratory Director





ERM-West	Client Project ID: 370 8th Ave., Port of Oakland	Sampled: Oct 12, 1994
1777 Botelho Dr., Ste. 260	Sample Matrix: Soil	Received: Oct 12, 1994
Walnut Creek, CA 94596	Analysis Method: EPA 3550/8015	Reported: Oct 14, 1994
Attention: John Prall	First Sample #: 410-0681	

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit mg/kg	Sample I.D. 410-0681 TE-1	Sample I.D. 410-0682 TE-2
Extractable Hydrocarbons	1.0	160	120
Chromatogram Pattern:		Diesel	Diesel

Quality Control Data

Report Limit Multiplication Factor:	10	10
Date Extracted:	10/13/94	10/13/94
Date Analyzed:	10/13/94	10/13/94
Instrument Identification:	HP-3A	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
 Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271



Kenneth K.F. Lee
 Laboratory Director





ERM-West
1777 Botelho Dr., Ste. 260
Walnut Creek, CA 94596
Attention: John Prall

Client Project ID: 370 8th Ave., Port of Oakland
Sample Descript: Soil, SP-1
Analysis Method: EPA 8240
Lab Number: 410-0683

Sampled: Oct 12, 1994
Received: Oct 12, 1994
Extracted: Oct 13, 1994
Analyzed: Oct 13, 1994
Reported: Oct 14, 1994

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acetone.....	10,000	N.D.
Benzene.....	2,000	N.D.
Bromodichloromethane.....	2,000	N.D.
Bromoform.....	2,000	N.D.
Bromomethane.....	2,000	N.D.
2-Butanone.....	10,000	N.D.
Carbon disulfide.....	2,000	N.D.
Carbon tetrachloride.....	2,000	N.D.
Chlorobenzene.....	2,000	N.D.
Chloroethane.....	2,000	N.D.
2-Chloroethyl vinyl ether.....	10,000	N.D.
Chloroform.....	2,000	N.D.
Chloromethane.....	2,000	N.D.
Dibromochloromethane.....	2,000	N.D.
1,1-Dichloroethane.....	2,000	N.D.
1,2-Dichloroethane.....	2,000	N.D.
1,1-Dichloroethene.....	2,000	N.D.
cis-1,2-Dichloroethene.....	2,000	N.D.
trans-1,2-Dichloroethene.....	2,000	N.D.
1,2-Dichloropropane.....	2,000	N.D.
cis-1,3-Dichloropropene.....	2,000	N.D.
trans-1,3-Dichloropropene.....	2,000	N.D.
Ethylbenzene.....	2,000	N.D.
2-Hexanone.....	10,000	N.D.
Methylene chloride.....	5,000	N.D.
4-Methyl-2-pentanone.....	10,000	N.D.
Styrene.....	2,000	N.D.
1,1,2,2-Tetrachloroethane.....	2,000	N.D.
Tetrachloroethene.....	2,000	N.D.
Toluene.....	2,000	N.D.
1,1,1-Trichloroethane.....	2,000	N.D.
1,1,2-Trichloroethane.....	2,000	N.D.
Trichloroethene.....	2,000	N.D.
Trichlorofluoromethane.....	2,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.





ERM-West	Client Project ID: 370 8th Ave., Port of Oakland	Sampled: Oct 12, 1994
1777 Botelho Dr., Ste. 260	Sample Descript: Soil, SP-1	Received: Oct 12, 1994
Walnut Creek, CA 94596	Analysis Method: EPA 8240	Extracted: Oct 13, 1994
Attention: John Prall	Lab Number: 410-0683	Analyzed: Oct 13, 1994
		Reported: Oct 14, 1994

VOLATILE ORGANICS by GC/MS (EPA 8240)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Vinyl acetate.....	2,000	N.D.
Vinyl chloride.....	2,000	N.D.
Total Xylenes	2,000	N.D.

Surrogates	Control Limit %	% Recovery	
1,2-Dichloroethane-d4.....	50	150.....	80
Toluene-d8.....	50	150.....	102
4-Bromofluorobenzene.....	50	150.....	119

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Kenneth K.F. Lee
Laboratory Director





ERM-West
1777 Botelho Dr., Ste. 260
Walnut Creek, CA 94596
Attention: John Prall

Client Project ID: 370 8th Ave., Port of Oakland
Sample Descript: Soil, SP-1
Analysis Method: EPA 8270
Lab Number: 410-0683

Sampled: Oct 12, 1994
Received: Oct 12, 1994
Extracted: Oct 13, 1994
Analyzed: Oct 13, 1994
Reported: Oct 14, 1994

SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Acenaphthene.....	2,000	N.D.
Acenaphthylene.....	2,000	N.D.
Aniline.....	2,000	N.D.
Anthracene.....	2,000	N.D.
Benzidine.....	50,000	N.D.
Benzoic Acid.....	10,000	N.D.
Benzo(a)anthracene.....	2,000	N.D.
Benzo(b)fluoranthene.....	2,000	N.D.
Benzo(k)fluoranthene.....	2,000	N.D.
Benzo(g,h,i)perylene.....	2,000	N.D.
Benzo(a)pyrene.....	2,000	N.D.
Benzyl alcohol.....	2,000	N.D.
Bis(2-chloroethoxy)methane.....	2,000	N.D.
Bis(2-chloroethyl)ether.....	2,000	N.D.
Bis(2-chloroisopropyl)ether.....	2,000	N.D.
Bis(2-ethylhexyl)phthalate.....	10,000	N.D.
4-Bromophenyl phenyl ether.....	2,000	N.D.
Butyl benzyl phthalate.....	2,000	N.D.
4-Chloroaniline.....	2,000	N.D.
2-Chloronaphthalene.....	2,000	N.D.
4-Chloro-3-methylphenol.....	2,000	N.D.
2-Chlorophenol.....	2,000	N.D.
4-Chlorophenyl phenyl ether.....	2,000	N.D.
Chrysene.....	2,000	N.D.
Dibenz(a,h)anthracene.....	2,000	N.D.
Dibenzofuran.....	2,000	N.D.
Di-N-butyl phthalate.....	10,000	N.D.
1,3-Dichlorobenzene.....	2,000	N.D.
1,4-Dichlorobenzene.....	2,000	N.D.
1,2-Dichlorobenzene.....	2,000	N.D.
3,3-Dichlorobenzidine.....	10,000	N.D.
2,4-Dichlorophenol.....	2,000	N.D.
Diethyl phthalate.....	2,000	N.D.
2,4-Dimethylphenol.....	2,000	N.D.
Dimethyl phthalate.....	2,000	N.D.
4,6-Dinitro-2-methylphenol.....	10,000	N.D.
2,4-Dinitrophenol.....	10,000	N.D.
2,4-Dinitrotoluene.....	2,000	N.D.
2,6-Dinitrotoluene.....	2,000	N.D.
Di-N-octyl phthalate.....	2,000	N.D.





ERM-West 1777 Botelho Dr., Ste. 260 Walnut Creek, CA 94596 Attention: John Prall	Client Project ID: 370 8th Ave., Port of Oakland Sample Descript: Soil, SP-1 Analysis Method: EPA 8270 Lab Number: 410-0683	Sampled: Oct 12, 1994 Received: Oct 12, 1994 Extracted: Oct 13, 1994 Analyzed: Oct 13, 1994 Reported: Oct 14, 1994
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SEMI-VOLATILE ORGANICS by GC/MS (EPA 8270)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Fluoranthene.....	2,000	N.D.
Fluorene.....	2,000	2,000
Hexachlorobenzene.....	2,000	N.D.
Hexachlorobutadiene.....	2,000	N.D.
Hexachlorocyclopentadiene.....	2,000	N.D.
Hexachloroethane.....	2,000	N.D.
Indeno(1,2,3-cd)pyrene.....	2,000	N.D.
Isophorone.....	2,000	N.D.
2-Methylnaphthalene.....	2,000	6,900
2-Methylphenol.....	2,000	N.D.
4-Methylphenol.....	2,000	N.D.
Naphthalene.....	2,000	N.D.
2-Nitroaniline.....	10,000	N.D.
3-Nitroaniline.....	10,000	N.D.
4-Nitroaniline.....	10,000	N.D.
Nitrobenzene.....	2,000	N.D.
2-Nitrophenol.....	2,000	N.D.
4-Nitrophenol.....	10,000	N.D.
N-Nitrosodiphenylamine.....	2,000	N.D.
N-Nitroso-di-N-propylamine.....	2,000	N.D.
Pentachlorophenol.....	10,000	N.D.
Phenanthrene.....	2,000	2,900
Phenol.....	2,000	N.D.
Pyrene.....	2,000	N.D.
1,2,4-Trichlorobenzene.....	2,000	N.D.
2,4,5-Trichlorophenol.....	10,000	N.D.
2,4,6-Trichlorophenol.....	2,000	N.D.

Surrogates	Control Limit %	% Recovery	
2-Fluorophenol.....	10	120.....	2.0
Phenol-d6.....	0.0	120.....	1.0
Nitrobenzene-d5.....	24	130.....	19
2-Fluorobiphenyl.....	33	170.....	64
2,4,6-Tribromophenol.....	0.0	160.....	24
4-Terphenyl-d14.....	45	149.....	45

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL, #1271

Please Note: Low surrogate recovery due to matrix interference and dilution.

Kenneth K.F. Lee
Laboratory Director





ERM-West	Client Project ID: 370 8th Ave., Port of Oakland	Sampled: Oct 12, 1994
1777 Botelho Dr., Ste. 260	Matrix Descript: Soil	Received: Oct 12, 1994
Walnut Creek, CA 94596	Analysis Method: EPA 418.1 (I.R. with clean-up)	Extracted: Oct 13, 1994
Attention: John Prall	First Sample #: 410-0683	Analyzed: Oct 13, 1994
		Reported: Oct 14, 1994

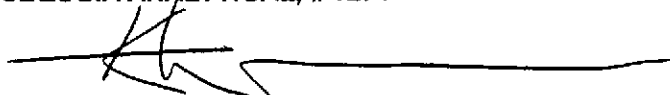
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)	Detection Limit Multiplication Factor
410-0683	SP-1	6,700	50

Detection Limits:	1.0
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Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271


Kenneth K.F. Lee
Laboratory Director





ERM-West Client Project ID: 370 8th Ave., Port of Oakland Sampled: Oct 12, 1994
 1777 Botelho Dr., Ste. 260 Sample Descript: Soil, SP-1 Received: Oct 12, 1994
 Walnut Creek, CA 94596 Extracted: Oct 13, 1994
 Attention: John Prall Lab Number: 410-0683 Reported: Oct 17, 1994

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration

Total Threshold Limit Concentration

Waste Extraction Test

Analyte	STLC	Detection	Analysis	TTL	Detection	Analysis
	Max. Limit (mg/L)	Limit (mg/L)	Result (mg/L)	Max. Limit (mg/kg)	Limit (mg/kg)	Result (mg/kg)
Antimony	15	0.10	N.D.	500	5.0	-
Arsenic	5.0	0.10	0.23	500	5.0	-
Barium	100	0.010	3.4	10,000	5.0	-
Beryllium	0.75	0.010	N.D.	75	0.50	-
Cadmium	1.0	0.010	N.D.	100	0.50	-
Chromium (VI)	-	-	-	-	-	-
Chromium (III)	560	0.010	0.19	2,500	0.50	-
Cobalt	80	0.010	0.30	8,000	2.5	-
Copper	25	0.010	0.11	2,500	0.50	-
Lead	5.0	0.020	3.1	1,000	5.0	-
Mercury	0.20	0.0010	0.014	20	0.010	-
Molybdenum	350	0.010	N.D.	3,500	2.5	-
Nickel	20	0.020	0.44	2,000	2.5	-
Selenium	1.0	0.10	N.D.	100	5.0	-
Silver	5.0	0.010	N.D.	500	0.50	-
Thallium	7.0	0.10	N.D.	700	5.0	-
Vanadium	24	0.010	0.53	2,400	2.5	-
Zinc	250	0.020	9.7	5,000	0.50	-
Asbestos	-	10	-	10,000	100	-
Fluoride	180	0.10	-	18,000	1.0	-

TTL results are reported as mg/kg of wet weight. Asbestos results are reported as fibers/g.
 Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kenneth K.F. Lee
 Laboratory Director





ERM-West	Client Project ID: 370 8th Ave., Port of Oakland	Sampled: Oct 12, 1994
1777 Botelho Dr., Ste. 260	Sample Descript: Soil, SP-1	Received: Oct 12, 1994
Walnut Creek, CA 94596		Analyzed: Oct 13-14, 1994
Attention: John Prall	Lab Number: 410-0683	Reported: Oct 14, 1994

CORROSIVITY AND IGNITABILITY

Analyte	Detection Limit	Sample Results
Corrosivity:		
pH.....	N.A.	7.4
Ignitability:		
Flashpoint (Pensky-Martens), °C.....	N.A.	> 100 °C

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

Kenneth K.F. Lee
Laboratory Director





ERM-West	Client Project ID: 370 8th Ave., Port of Oakland	Sampled: Oct 12, 1994
1777 Botelho Dr., Ste. 260	Sample Descript: Soil, SP-1	Received: Oct 12, 1994
Walnut Creek, CA 94596		Analyzed: Oct 13, 1994
Attention: John Prall	Lab Number: 410-0683	Reported: Oct 14, 1994

REACTIVITY

Analyte	Detection Limit	Sample Results
Reactivity:		
Sulfide, mg/kg.....	13	N.D.
Cyanide, mg/kg.....	0.010	N.D.
Reaction with water.....	N.A.	Negative

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1210

Kenneth K.F. Lee
Laboratory Director





- 680 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600 FAX (415) 364-9233
- 819 West Striker Ave. • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 1900 Bates Ave., Suite LM • Concord, CA 94520 • (510) 686-9600 FAX (510) 686-9689

Company Name: <u>ERIN WEST, INC</u>		Project Name: <u>370 8th AVE, PORT OF OAKLAND</u>	
Address: <u>1777 BOTEHO SUITE 260</u>		Billing Address (if different): <u>SAME</u>	
City: <u>WARMANT CREEK</u> State: <u>CA</u>	Zip Code: <u>94576</u>		
Telephone: <u>570-940-0453</u> FAX#: <u>570-940-7468</u>		P.O. #: <u>2162-25</u>	
Report To: <u>JOHN PRALL</u>	Sampler: <u>ANTHONY SIMONETTI</u>	QC Data: <input checked="" type="checkbox"/> Level A (Standard) <input type="checkbox"/> Level B <input type="checkbox"/> Level C <input type="checkbox"/> Level D	

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours

Time: 7 Working Days 2 Working Days

5 Working Days 24 Hours

Analyses Requested

Drinking Water

Waste Water

Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments				
1. TE - 1	10/12/04 3:30 p.m.	SOIL	2	AMBATA DR	100681	X	X	X												
2. TE - 2	10/12/04 3:30 p.m.	SOIL	2	"	1100682	X	X	X												
3. SP - 1	10/12/04 3:30 p.m.	SOIL	4	"	4100683 AD				X	X	X	X	X	X	X					
4.																				
5.																				
6.																				
7.																				
8.																				
9.																				
10.																				

Relinquished By: <u>[Signature]</u>	Date: <u>10/12/04</u>	Time: <u>6:10 p.m.</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>[Signature]</u>	Date: <u>10/12/04</u>	Time: <u>6:10 p.m.</u>

Pink - Client
Yellow - Sequoia
White - Sequoia



ERM-West
 1777 Botelho Dr., Ste. 260
 Walnut Creek, CA 94596
 Attention: John Prall

Client Project ID: 370 8th Ave., Port of Oakland
 Matrix: Solid

QC Sample Group: 4100681-3

Reported: Oct 14, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	TRPH
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015 Mod	EPA 418.1
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	K.V.S.	Son Le

MS/MSD Batch#:	4100220	4100220	4100220	4100220	4100230	BLK101394
Date Prepared:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Date Analyzed:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	Miran 1FF
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	10 mg/Kg	125 mg/Kg
Matrix Spike % Recovery:	105	105	108	108	85	88
Matrix Spike Duplicate % Recovery:	108	108	110	113	71	92
Relative % Difference:	2.8	2.8	1.8	4.5	18	4.4

LCS Batch#:	LCS101094	LCS101094	LCS101094	LCS101094	BLK101394	LCS101394
Date Prepared:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Date Analyzed:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	HP-3A	Miran 1FF
LCS % Recovery:	111	110	115	115	89	88

% Recovery Control Limits:	55-145	47-149	47-155	56-140	38-122	70-130
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Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1271


 Kenneth K.F. Lee
 Laboratory Director





ERM-West
 1777 Botelho Dr., Ste. 260
 Walnut Creek, CA 94596
 Attention: John Prall

Client Project ID: 370 8th Ave., Port of Oakland
 Matrix: Solid

QC Sample Group: 4100681-3

Reported: Oct 14, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Phenol	2-Chlorophenol	1,4-Dichloro-benzene	N-Nitroso-Di-N-propylamine	1,2,4-Trichloro-benzene	4-Chloro-3-Methylphenol
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	Son Le	Son Le	Son Le	Son Le	Son Le	Son Le

MS/MSD						
Batch#:	4100410	4100410	4100410	4100410	4100410	4100410
Date Prepared:	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94
Date Analyzed:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	5000 µg/Kg	5000 µg/Kg	2500 µg/Kg	2500 µg/Kg	2500 µg/Kg	5000 µg/Kg
Matrix Spike						
% Recovery:	75	81	82	82	88	77
Matrix Spike Duplicate						
% Recovery:	66	70	70	72	78	66
Relative % Difference:	13	15	16	13	12	15

LCS Batch#:	BLK101294	BLK101294	BLK101294	BLK101294	BLK101294	BLK101294
Date Prepared:	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94
Date Analyzed:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS % Recovery:	70	75	74	74	80	71

% Recovery Control Limits:	46-130	23-134	20-124	DL-230	44-142	22-147
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SEQUOIA ANALYTICAL, #1271

Please Note:

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Kenneth K.F. Lee
 Laboratory Director





ERM-West Client Project ID: 370 8th Ave., Port of Oakland
 1777 Botelho Dr., Ste. 260 Matrix: Solid
 Walnut Creek, CA 94596 QC Sample Group: 4100681-3
 Attention: John Prall Reported: Oct 14, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Acenaphthene	4-Nitrophenol	2,4-Dinitro-toluene	Pentachloro-phenol	Pyrene
Method:	EPA 8270	EPA 8270	EPA 8270	EPA 8270	EPA 8270
Analyst:	Son Le	Son Le	Son Le	Son Le	Son Le

MS/MSD					
Batch#:	4100410	4100410	4100410	4100410	4100410
Date Prepared:	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94
Date Analyzed:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
Conc. Spiked:	2500 µg/Kg	5000 µg/Kg	2500 µg/Kg	5000 µg/Kg	2500 µg/Kg
Matrix Spike					
% Recovery:	90	48	70	86	82
Matrix Spike Duplicate %					
Recovery:	82	33	58	70	78
Relative %					
Difference:	9.3	37	19	21	5.0

LCS Batch#:	BLK101294	BLK101294	BLK101294	BLK101294	BLK101294
Date Prepared:	10/12/94	10/12/94	10/12/94	10/12/94	10/12/94
Date Analyzed:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Instrument I.D.#:	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1	GC/MS 1
LCS %					
Recovery:	78	58	52	66	74

% Recovery Control Limits:	47-145	DL-132	39-139	14-176	52-115
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Please Note:

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SEQUOIA ANALYTICAL, #1271

Kenneth K.F. Lee
 Laboratory Director





ERM-West
1777 Botelho Dr., Ste. 260
Walnut Creek, CA 94596
Attention: John Prall

Client Project ID: 370 8th Ave., Port of Oakland
Matrix: Soil

QC Sample Group: 4100681-3

Reported: Oct 14, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Corrosivity	Ignitability
Method:	EPA 9045	EPA 1010
Analyst:	M. Nguyen	K. Anderson

Date Analyzed: Oct 13, 1994 Oct 14, 1994

Instrument I.D.#: Accumet pH 910 Pensky-Martens

Sample #: 4100776 4100693


Sample Concentration: 7.3 > 100°C

Sample Duplicate Concentration: 7.3 > 100°C

% RPD: 0.0 0.0

% RPD Control Limits: 0-30 0-30

SEQUOIA ANALYTICAL, #1271



Kenneth K.F. Lee
Laboratory Director





ERM-West
1777 Botelho Dr., Ste. 260
Walnut Creek, CA 94596
Attention: John Prall

Client Project ID: 370 8th Ave., Port of Oakland
Matrix: Soil

QC Sample Group: 4100681-3

Reported: Oct 14, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Reactive Sulfide	Reactive Cyanide
Method:	SW-846	SW-846
Analyst:	K. Newberry	J. Heider

MS/MSD		
Batch#:	IN101394 084600A	IN101394 084600A
Date Prepared:	-	-
Date Analyzed:	-	-
Instrument I.D.#:	-	-
Conc. Spiked:	-	-
Matrix Spike % Recovery:	-	-
Matrix Spike Duplicate % Recovery:	-	-
Relative % Difference:	-	-

LCS Batch#:	LCS101394	LCS101394
Date Prepared:	10/13/94	10/13/94
Date Analyzed:	10/13/94	10/13/94
Instrument I.D.#:	Manual	Manual
LCS % Recovery:	78	14

% Recovery Control Limits:	80-120	6.5-40
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Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL, #1210

Kenneth K.F. Lee
Laboratory Director





Sequoia Analytical

680 Chesapeake Drive Redwood City, CA 94063 (415) 364-9600 FAX (415) 364-9233
 1900 Bates Avenue, Suite L Concord, CA 94520 (510) 686-9600 FAX (510) 686-9689
 819 Striker Avenue, Suite 8 Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100

ERM-West
 1777 Botelho Dr., Ste. 260
 Walnut Creek, CA 94596
 Attention: John Prall

Client Project ID: 370 8th Ave., Port of Oakland
 Matrix: STLC Extract of Soil

QC Sample Group: 4100681-3

Reported: Oct 17, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Cadmium	Chromium	Lead	Nickel	Zinc	Mercury
Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 7471
Analyst:	K. Anderson	K. Anderson	K. Anderson	K. Anderson	K. Anderson	K. Wimer

MS/MSD						
Batch#:	4100683	4100683	4100683	4100683	4100683	4100683
Date Prepared:	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/13/94
Date Analyzed:	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94
Instrument I.D.#:	Liberty 100	Liberty 100	Liberty 100	Liberty 100	Liberty 100	SpectrAA
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L	0.010 mg/L
Matrix Spike						
% Recovery:	105	94	102	81	113	105
Matrix Spike Duplicate %						
Recovery:	105	92	101	81	110	103
Relative % Difference:	0.0	2.2	0.99	0.0	2.7	1.9

LCS Batch#:	BLK101394	BLK101394	BLK101394	BLK101394	BLK101394	BLK101394
Date Prepared:	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94	10/13/94
Date Analyzed:	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94	10/17/94
Instrument I.D.#:	Liberty 100	Liberty 100	Liberty 100	Liberty 100	Liberty 100	SpectrAA
LCS % Recovery:	94	89	91	85	100	113

% Recovery Control Limits:	75-125	75-125	75-125	75-125	75-125	75-125
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SEQUOIA ANALYTICAL, #1271


 Kenneth K.F. Lee
 Laboratory Director

Please Note:
 The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.



Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

November 1, 1994

Mr. John Prall
ERM-WEST
1777 Botelho
Walnut Creek, CA 94566

Client Ref.: 2162.25
Clayton Project No.: 94101.89

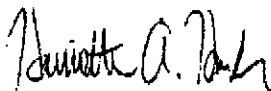
Dear Mr. Prall:

Attached is our analytical laboratory report for the samples received on October 15, 1994. Please note the low level contamination detected in the method blank for the TPH diesel analysis. This contamination did not appear to effect the sample results. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of after December 1, 1994, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Harriette A. Hurley, CIH
Director, Laboratory Services
Western Operations

HAH/caa

Attachments

Analytical Results
for
ERM-West
Client Reference: 2162.25
Clayton Project No. 94101.89

Sample Identification: GW-1	Date Sampled: 10/15/94
Lab Number: 9410189-04A	Date Received: 10/15/94
Sample Matrix/Media: WATER	Date Analyzed: 10/27/94
Method Reference: EPA 602	Analyst: NAN

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>Purgeable Aromatics</u>			
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-Dichlorobenzene	95-50-1	ND	0.3
1,3-Dichlorobenzene	541-73-1	ND	0.3
1,4-Dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-5	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	93	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Analytical Results
for
ERM-West
Client Reference: 2162.25
Clayton Project No. 94101.89

Sample Identification: METHOD BLANK Date Sampled: --
 Lab Number: 9410189-06A Date Received: --
 Sample Matrix/Media: WATER Date Analyzed: 10/27/94
 Method Reference: EPA 602 Analyst: NAN

Analyte	CAS #	Concentration (ug/L)	Method Detection Limit (ug/L)
<u>Purgeable Aromatics</u>			
Benzene	71-43-2	ND	0.4
Chlorobenzene	108-90-7	ND	0.3
1,2-Dichlorobenzene	95-50-1	ND	0.5
1,3-Dichlorobenzene	541-73-1	ND	0.3
1,4-Dichlorobenzene	106-46-7	ND	0.5
Ethylbenzene	100-41-4	ND	0.3
Toluene	108-88-3	ND	0.3
o-Xylene	95-47-6	ND	0.4
p,m-Xylenes	--	ND	0.4
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	99	50 - 150

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

Analytical Results
for
ERM-West
Client Reference: 2162.25
Clayton Project No. 94101.89

Sample Identification:	TE-3	Date Sampled:	10/15/94
Lab Number:	9410189 01A	Date Received:	10/15/94
Sample Matrix/Media:	SOIL	Date Prepared:	10/28/94
Preparation Method:	EPA 5030	Date Analyzed:	10/28/94
Method Reference:	EPA 8020	Analyst:	NAN

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
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Purgeable Aromatics

Benzene	71-43-2	C.32	0.08
Chlorobenzene	108-90-7	ND	0.06
1,2-Dichlorobenzene	95-50-1	ND	0.1
1,3-Dichlorobenzene	541-73-1	ND	0.06
1,4-Dichlorobenzene	106-46-7	ND	0.1
Ethylbenzene	100-41-4	ND	0.06
Toluene	108-88-3	ND	0.06
o-Xylene	95-47-6	ND	0.08
p,m-Xylenes	--	ND	0.08

Surrogates

		<u>Recovery (%)</u>	<u>GC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	55	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.
Note: Detection limits increased due to matrix interference.

Analytical Results
for
ERM-West
Client Reference: 2162.2b
Clayton Project No. 94101.89

Sample Identification: TE-4	Date Sampled: 10/15/94
Lab Number: 9410189-02A	Date Received: 10/15/94
Sample Matrix/Media: SOIL	Date Prepared: 10/28/94
Preparation Method: EPA 5030	Date Analyzed: 10/28/94
Method Reference: EPA 8020	Analyst: NAN

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
<u>Purgeable Aromatics</u>			
Benzene	71-43-2	ND	0.04
Chlorobenzene	108-90-7	ND	0.03
1,2-Dichlorobenzene	95-50-1	ND	0.05
1,3-Dichlorobenzene	541-73-1	ND	0.03
1,4-Dichlorobenzene	106-46-7	ND	0.05
Ethylbenzene	100-41-4	ND	0.03
Toluene	108-88-3	ND	0.03
m-Xylene	95-47-6	ND	0.04
p,m-Xylenes	--	ND	0.04
<u>Surrogates</u>			
		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	89	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
ERM-West
Client Reference: 2162.25
Clayton Project No. 94101.69

Sample Identification:	TE-5	Date Sampled:	10/15/94
Lab Number:	9410169-03A	Date Received:	10/15/94
Sample Matrix/Media:	SOIL	Date Prepared:	10/28/94
Preparation Method:	EPA 5030	Date Analyzed:	10/28/94
Method Reference:	EPA 8020	Analyst:	NAN

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
<u>Purgeable Aromatics</u>			
Benzene	71-43-2	ND	0.06
Chlorobenzene	108-90-7	ND	0.06
1,2-Dichlorobenzene	95-50-1	ND	0.1
1,3-Dichlorobenzene	541-73-1	ND	0.06
1,4-Dichlorobenzene	106-46-7	ND	0.1
Ethylbenzene	100-41-4	ND	0.06
Toluene	108-88-3	ND	0.06
o-Xylene	95-47-6	ND	0.08
p,m-Xylenes	--	ND	0.08
<u>Surrogates</u>		<u>Recovery (%)</u>	<u>QC Limits (%)</u>
1,4-Difluorobenzene	540-36-3	84	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.
Note: Detection limits increased due to matrix interference.

Analytical Results
for
ERM-West
Client Reference: 2162.25
Clayton Project No. 94101.89

Sample Identification: METHOD BLANK	Date Sampled: --
Lab Number: 9410169-05A	Date Received: --
Sample Matrix/Media: SOIL	Date Prepared: 10/28/94
Preparation Method: EPA 8030	Date Analyzed: 10/28/94
Method Reference: EPA 8020	Analyst: NAN

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
---------	-------	--------------------------	---

Purgeable Aromatics

Benzene	71-43-2	ND	0.04
Chlorobenzene	108-90-7	ND	0.03
1,2-Dichlorobenzene	95-50-1	ND	0.05
1,3-Dichlorobenzene	541-73-1	ND	0.03
1,4-Dichlorobenzene	106-46-7	ND	0.05
Ethylbenzene	100-41-4	ND	0.03
Toluene	108-88-3	ND	0.03
o-Xylene	95-47-6	ND	0.04
p,m-Xylenes	--	ND	0.04

Surrogates

Recovery (%) QC Limits (%)

1,4-Difluorobenzene	540-36-3	104	50 - 150
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ND: Not detected at or above limit of detection

--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
ERM-West
Client Reference: 2162.25
Clayton Project No. 94101.89

Sample Identification: See Below
 Lab Number: 9410189
 Sample Matrix/Media: SOIL
 Extraction Method: EPA 3550
 Method Reference: EPA 8015 (Modified)

Date Received: 10/15/94
 Date Extracted: 10/21/94
 Date Analyzed: 10/25/94

Lab Number	Sample Identification	Date Sampled	TPH-D (mg/kg)	Method Detection Limit (mg/kg)
-01	TE-3	10/15/94	44000	1
-02	TE-4	10/15/94	550	1
-03	TE-5	10/15/94	3300	1
-05	METHOD BLANK	--	2 a	1

ND: Not detected at or above limit of detection.
 --: Information not available or not applicable

Results are reported on a wet-weight basis, as received.
 TPH-D = Extractable petroleum hydrocarbons from C10 to C12 quantitated as diesel.
 a Actual method blank value, sample results have not been blank corrected.

Analytical Results
for
ERM-West
Client Reference: 2162.25
Clayton Project No. 94101.89

Sample Identification: See Below
 Lab Number: 9410189
 Sample Matrix/Media: SOIL
 Preparation Method: EPA 5030
 Method Reference: EPA 8015 (Modified)

Date Received: 10/15/94
 Date Prepared: 10/18/94
 Date Analyzed: 10/24/94

Lab Number	Sample Identification	Date Sampled	TPH-C (mg/kg)	Method Detection Limit (mg/kg)
-01	TE-3	10/15/94	550	0.3
-02	TE-4	10/15/94	43	0.3
-03	TE-5	10/15/94	110	0.3
-05	METHOD BLANK	--	ND	0.3

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

Results are reported on a wet-weight basis, as received.
 TPH-C = Volatile petroleum hydrocarbons from C6 to C10 quantitated as gasoline.

Analytical Results
 for
 ERM-West
 Client Reference: 2162.25
 Clayton Project No. 94101.89

Sample Identification: See Below
 Lab Number: 9410189
 Sample Matrix/Media: WATER
 Preparation Method: EPA 5030
 Method Reference: EPA 8015 (Modified)

Date Received: 10/15/94
 Date Prepared: 10/21/94
 Date Analyzed: 10/21/94

Lab Number	Sample Identification	Date Sampled	TPH-G (ug/L)	Method Detection Limit (ug/L)
-04	GW-1	10/15/94	1600	50
-06	METHOD BLANK	--	ND	50

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

TPH-G = Volatile petroleum hydrocarbons from C6 to C10 quantitated as gasoline.

ERM-West

1777 Bolefno Drive • Suite 250 • Walnut Creek, CA • 94596 • (415) 946 0455

Chain of Custody Record

Job # 2162-25					Collection			GC				GC/MS		Inorg	Other	Remarks								
Job Location: Part of OAKLAND, 370 8th AVE					Container type	ICED	Preservative	Sampling method	TPH-Extraction	STEX Total Fuel HCs	801 / 8010 Halocarbons	802 / 8020 Aromatics	804 / 8040 Phenols	808 / 8080 Pest/PCBs	THMs & MGLHs 8010, 8020	THMs & MGLHs 8010, 8020	624-8240 Pesticides	625-8270 BNA's & Pest (SVs)	Dioxins	THMs & MGLHs 8010, 8020	Metals	Wet Chemistry	Number of Containers	9410189
Sample (signature): AS																								
Printed name: ANTHONY S. APONALA																								
Lab Report Recipient: JOHN PRALL																								
Telephone No.: 510 946 0455																								
Receiving Lab: CLAYTON ENVIRONMENTAL																								
Address: CLAYTON, CALIF.																								
Sample ID#	Time	W. water Soil	C. comp Organic	Volume																				
TE-3	8:30a	S	G	2 BAAS	2 BAAS	✓	N/A	DRIVE															1	-01A
TE-4	8:45a	S	G	↓	↓	✓	N/A	DRIVE															1	-02A
TE-5	9:00a	S	G	↓	↓	✓	N/A	DRIVE															1	-03A
GW-1	8:15a	W	G	400L VON	400L	✓	HCL	BALLER															6	UNABCD, E, F NO CAL TRAPS

Precautions: Conc: I M H Ship Via: HAND CARRY Total Number of Containers: 9

Sample Relinquished By	Date	Time	Received By	Date	Time	Reason for Transfer (List Shipping Bill Number)
AS Company: ERM WEST	10/15/94	11:30a	Jenna Black Company: Clayton Env. Consultants	10/15/94	11:30a	
Company:			Company:			

LABORATORY - Please Complete Lab sample custody

Samples intact
 Samples at 4°C
 Samples not leaking
 # of containers matches C of C
 Container tags match C of C
 Cooler seals intact

Signature: _____ Date: _____ Time: _____ Sample Disposition: Return to Site Discard Hold _____ days

Quality Assurance Results Summary
Matrix Spike/Matrix Spike Duplicate Results
for
Clayton Project No. 94101.69

Quality Assurance Results Summary
for
Clayton Project No. 94101.89

Clayton Lab Number: 9410345-MB
Ext./Prep. Method: EPA 5030
Date: 10/26/94
Analyst: NAW
Std. Source: V940927-02A
Sample Matrix/Media: WATER

Analytical Method: EPA601_2/801020
Instrument ID: 02857
Date: 10/26/94
Time: 21:08
Analyst: NAW
Units: ug/l

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCI (% R)	UCI (% R)	RPD (%)	UCL (%RPD)
1,1 DICHLORoETHENE	(HALL) ND	20.0	20.4	102	19.3	97	99	65	131	5.5	22
BENZENE	(PID) ND	20.0	22.1	111	20.9	105	108	76	134	5.6	20
CHLORO BENZENE	(PID) ND	20.0	21.9	110	20.9	105	107	75	127	4.7	20
CHLORO BENZENE	(HALL) ND	20.0	22.1	111	22.0	110	110	79	132	6.5	20
TOLUENE	(PID) ND	20.0	22.9	115	21.6	108	111	71	125	5.8	20
TRICHLOROETHENE	(HALL) ND	20.0	21.9	110	20.9	105	107	69	133	4.7	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCI = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 94101.89

Clayton Lab Number: 9410189-02A
Ext./Prep. Method: EPA 5050
Date: 10/18/94
Analyst: WAS
Std. Source: V940927-02H
Sample Matrix/Media: SO:L

Analytical Method: EPA8010 B020
Instrument ID: 02857
Date: 10/28/94
Time: 01:51
Analyst: NAK
Units: mg/kg

Analyte	Sample Result	Spike Level	Matrix		MS Recovery (%)	Matrix Spike		MSD Recovery (%)	Average Recovery (% R)	LCI (% R)	UCL (% R)	RPD (%)	UCI (%RPD)
			Spike	Result		Duplicate	Result						
BENZENE	(PID) ND	2.00		2.50	125		2.18	105	117	62	145	14	30
CHLOROBENZENE	(PID) ND	2.00		2.47	124		2.15	108	116	73	131	14	30
TOLUENE	(PID) ND	2.00		2.52	126		2.18	109	118	59	142	15	30

LCS - Laboratory Control Sample
ND = Not detected at or above limit of detection

LCI = Lower Control Limit

UCI = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
 for
 Clayton Project No. 94101.89

Clayton Lab Number: 9410186 MB
 Ext./Prep. Method: EPA 8550
 Date: 10/13/94
 Analyst: LCK
 Std. Source: 6941010-10W
 Sample Matrix/Media: SOIL

Analytical Method: EPA8015
 Instrument ID: 02003
 Date: 10/19/94
 Time: 18:59
 Analyst: AMH
 Units: MG/KG

Analyte	Sample Result	Spike level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCI (% R)	RPD (%)	UCL (%RPD)
DIESE.	2.00	20.0	19.9	90	19.6	88	89	57	147	1.5	30

LCS = Laboratory Control Sample
 ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCI = Upper Control Limit
 SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 94101.89

Clayton Lab Number: 9410165-01A
Ext./Prep. Method: EPA5080
Date: 10/18/94
Analyst: WAS
Std. Source: V941007-02W
Sample Matrix/Media: SOIL

Analytical Method: EPA8015 HQ20
Instrument ID: 05587
Date: 10/19/94
Time: 21:33
Analyst: WAS
Units: MG/KG

Analyte	Sample Result	Spike level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	MSD Recovery (%)	Average Recovery (% R)	LCL (% R)	UCL (% R)	RPD (%)	UCL (%RPD)
BENZENE	(PID) ND	0.0520	0.0540	104	0.0560	108	106	53	140	3.6	28
ETHYLBENZENE	(PID) ND	0.0320	0.0350	109	0.0380	119	114	56	134	8.2	25
GASOLINE	(FID) ND	2.50	2.90	116	2.80	112	114	61	164	3.5	57
TOLUENE	(PID) ND	0.203	0.200	100	0.200	110	105	60	139	9.5	22
TOTAL XYLENE	(PID) ND	0.210	0.220	105	0.240	114	110	61	129	8.7	26

ICS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCL = Lower Control Limit

UCL = Upper Control Limit
SOR = Spike out of range due to high sample concentration.

Quality Assurance Results Summary
for
Clayton Project No. 94101.89

Clayton Lab Number: 9410778-01A
Ext./Prep. Method: EPA5030
Date: 10/21/94
Analyst: WAS
Std. Source: V941007-D2V
Sample Matrix/Mode: WATER

Analytical Method: EPA8015.8020
Instrument ID: 05587
Date: 10/21/94
Time: 13:32
Analyst: WAS
Units: UF/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery (%)	Matrix Spike Duplicate Result	KSD Recovery (%)	Average Recovery (% R)	LCI (% R)	UCI (% R)	RPD (%)	JCI (%RHD)
BENZENE	(PID) ND	8.70	10.1	115	10.0	115	116	81	118	1.0	20
ETHYLBENZENE	(PID) ND	5.10	4.96	97	5.70	100	99	81	114	2.8	20
GASOLINE	(FID) ND	500	525	105	529	106	105	80	150	0.8	25
TOLUENE	(PID) ND	32.7	30.7	94	31.5	96	95	84	118	1.9	20
TOTAL XYLENE	(PID) ND	32.1	30.5	95	31.5	98	97	85	115	3.2	20

LCS = Laboratory Control Sample
ND = Not detected at or above limit of detection

LCI = Lower Control Limit

UCL = Upper Control Limit
SOK = Spike out of range due to high sample concentration.

OXFORD

FACSIMILE TRANSMITTAL

TO ERM West

ATTENTION John Prall

FROM Jon Amdur

DATE & TIME 11/4/94 2:30

FAX NUMBER 946 9968

NO. OF PAGES 6

PORT OF OAKLAND
ENVIRONMENTAL
DEPARTMENT
530 WATER STREET,
8TH FLOOR
OAKLAND, CA 94607
FAX (510) 465-3755
PHONE (510) 272-1174



PORT OF OAKLAND

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

November 2, 1994

Mr. John Amdur
PORT OF OAKLAND
530 Water Street
Oakland, CA 94604-2064

Client Ref.: 93510
Clayton Project No.: 94102.46

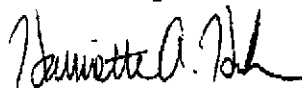
Dear Mr. Amdur:

Attached is our analytical laboratory report for the samples received on October 19, 1994. A copy of the Chain-of-Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be disposed of after December 2, 1994, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Harriotte A. Hurley, CIH
Director, Laboratory Services
Western Operations

HAH/caa

Attachments

Analytical Results
for
Port of Oakland
Client Reference: 93510
Clayton Project No. 94102.46

Sample Identification: TE-6
Lab Number: 9410246-01A
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Method Reference: EPA 8015/8020

Date Sampled: 10/17/94
Date Received: 10/19/94
Date Prepared: 10/21/94
Date Analyzed: 10/26/94
Analyst: WAS

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
<u>STEX/Gasoline</u>			
Benzene	71-43-2	ND	0.01
Ethylbenzene	100-41-4	0.01	0.01
Toluene	108-88-3	ND	0.01
o-Xylene	95-47-6	ND	0.01
p,m-Xylenes	--	0.02	0.01
Gasoline	--	5.6a	0.6
		<u>Recovery (%)</u>	<u>OC Limits (%)</u>
<u>Surrogates</u>			
a,a,a-Trifluorotoluene	98-08-8	83	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

a Purgeable hydrocarbons quantitated as gasoline may be due to heavier petroleum product.

Analytical Results
for
Port of Oakland
Client Reference: 93510
Clayton Project No. 94102.46

Sample Identification: METHOD BLANK
Lab Number: 9410246-02A
Sample Matrix/Media: SOIL
Preparation Method: EPA 5030
Method Reference: EPA 8015/8020

Date Sampled: --
Date Received: --
Date Prepared: 10/21/94
Date Analyzed: 10/25/94
Analyst: WAS

Analyte	CAS #	Concentration (mg/kg)	Method Detection Limit (mg/kg)
<u>BTEX/Gasoline</u>			
Benzene	71-43-2	ND	0.005
Ethylbenzene	100-41-4	ND	0.005
Toluene	108-88-3	ND	0.005
o-Xylene	95-47-6	ND	0.005
p,m-Xylenes	--	ND	0.005
Gasoline	--	ND	0.3
		<u>Recovery (%)</u>	<u>OC Limits (%)</u>
<u>Surrogates</u>			
a,a,a-Trifluorotoluene	98-08-8	89	50 - 150

ND: Not detected at or above limit of detection
--: Information not available or not applicable

Results are reported on a wet-weight basis, as received.

Analytical Results
for
Port of Oakland
Client Reference: 93510
Clayton Project No. 94102.46

Sample Identification: See Below
 Lab Number: 9410246
 Sample Matrix/Media: SOIL
 Extraction Method: EPA 3550
 Method Reference: EPA 8015 (Modified)

Date Received: 10/19/94
 Date Extracted: 10/21/94
 Date Analyzed: 10/25/94

Lab Number	Sample Identification	Date Sampled	TPH-D (mg/kg)	Method Detection Limit (mg/kg)
01	TE-6	10/17/94	320 a	1
02	METHOD BLANK	--	2 b	1

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

Results are reported on a wet-weight basis, as received.
 TPH-D = Extractable petroleum hydrocarbons from C10 to C42 quantitated as diesel.
 a Sample does not match the typical diesel pattern.
 Sample appears to be a mixture of diesel and oil.
 b Actual method blank value; sample results have not been blank corrected.

Clayton

ENVIRONMENTAL
CONSULTANTS

REQUEST FOR LABORATORY ANALYTICAL SERVICES

Project No. _____
 Batch No. **9410246**
 Ind. Code _____ W.P. _____
 Date Logged In **10/21/94** By **[Signature]**

REPORT RESULTS TO
 Name **Jon Andrus** Title **Associate Scientist**
 Company **Pest of Oakland** Dept. **Environmental**
 Mailing Address **530 WATER ST. 5th Floor**
 City, State, Zip **Oakland, CA 94607**
 Telephone No. **(510) 272-1184** Teletax No. _____

Purchase Order No. _____ Client Job No. _____
 Name _____
 Company _____ Dept. _____
 Address _____
 City, State, Zip _____

Date Results Req. Rush Charges Authorized? Phone / Fax Results
 Yes No
 Special Instructions: (method, limit of detection, etc.) _____
 Explanation of Preservative: _____

Samples are: (check if applicable)
 Drinking Water
 Collected in the State of New York

ANALYSIS REQUESTED
 (Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added.)

Number of Containers	ANALYSIS REQUESTED							FOR LAB USE ONLY
	BTX 8020	TPHD 8015	TPHG 8015					
1	X	X	X					OK

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MATRIX/MEDIA	AIR VOLUME (specify units)
TE-6	10/17/94	Soil	1X 2x10 Bags

Collected by: **Jon Andrus** (print) Collector's Signature: **[Signature]**
 Requisitioned by: **[Signature]** Date/Time **10/18/94 3:11** Received by: **[Signature]** Date/Time **10/19 3:09**
 Requisitioned by: **[Signature]** Date/Time **10/19 3:52** Received at Lab by: **[Signature]** Date/Time **10/19 9:55**
 Method of Shipment: _____ Sample Condition Upon Receipt: Acceptable Other (explain) _____
 Authorized by: **[Signature]** Date **10/19/94**
 (Client Signature Must Accompany Request)

Please return completed form and samples to one of the Clayton Environmental Consultants, Inc. labs listed below:

22345 Roseth Drive Novi, MI 48975 (313) 344-1770	Raritan Center 160 Fieldcrest Ave. Edison, NJ 08837 (908) 225-6040	400 Chastain Center Blvd., N.W. Suite 490 Kennesaw, GA 30144 (404) 499-7500	1252 Quarry Lane Pleasanton, CA 94566 (510) 426-2657
--	---	--	--

DISTRIBUTION:
 WHITE - Clayton Laboratory
 YELLOW - Clayton Accounting
 PINK - Client Retains

2/92

Western Operations

1252 Quarry Lane
P.O. Box 9019
Pleasanton, CA 94566
(510) 426-2600
Fax (510) 426-0106

Clayton
ENVIRONMENTAL
CONSULTANTS

November 18, 1994

RECEIVED
NOV 22 1994

Mr. John Prall
ERM-WEST
1777 Botelho
Walnut Creek, CA 94566

ERM-WEST FILE #
WALNUT CREEK CA

Client Ref.: 2162.25
Clayton Project No.: 94101.89

Dear Mr. Prall:

Attached is our additional analytical laboratory report for the samples received on October 15, 1994 and originally reported on November 1, 1994. As requested on November 4, 1994, Samples TE-3, TE-4, and TE-5 were reextracted and reanalyzed for TPH as Diesel. Please note that the portion of the sample used for the reextraction and reanalysis was taken from the opposite end of the brass core than the original sample.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Suzanne Haus, Client Services Supervisor, at (510) 426-2657.

Sincerely,



Harriotte A. Hurley, CIH
Director, Laboratory Services
Western Operations

HAH/caa

Attachments

Analytical Results
 for
 ERM-West
 Client Reference: 2162.25
 Clayton Project No. 94101.89

Sample Identification: See Below
 Lab Number: 9410189
 Sample Matrix/Media: SOIL
 Extraction Method: EPA 3550
 Method Reference: EPA 8015 (Modified)

Date Received: 10/15/94
 Date Extracted: 11/08/94
 Date Analyzed: 11/16/94

Lab Number	Sample Identification	Date Sampled	TPH-D (mg/kg)	Method Detection Limit (mg/kg)
-01	TE-3	10/15/94	18000	1
-02	TE-4	10/15/94	98	1
-03	TE-5	10/15/94	6900	1
-07	METHOD BLANK	--	ND	1

ND: Not detected at or above limit of detection
 --: Information not available or not applicable

Results are reported on a wet-weight basis, as received.
 TPH-D = Extractable petroleum hydrocarbons from C10 to C42 quantitated as diesel.

ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION
DEPOSIT / REFUND ACCOUNT SHEET

SITE INFORMATION

Keep On Trucking Co. Inc.
370 8th Ave
Oakland 94606
Site Contact:
Site Phone :

StID: 3335 Site#: 2140
PROJECT#: 2140C
PROJECT TYPE: R
INSP: Barney Chan
ACCT. SHEET PG #: _____

PROPERTY OWNER INFORMATION

Owner Contact:
Owner Phone :

PAYOR INFORMATION

Environmental Investigati
22390 Thunderbird Place
Hayward CA 94545 #811
Payor Contact:
Payor Phone : 264-9081

Date	Action Taken	Time In	Time Out	Hours Spent/Depstd	Hour Balnce	Money Spent/Depositd	Money Balance
	Balance from Prev. Page	
09/12/94	Rcpt# 740508 Deposit of \$603.00 @ \$90/hour			+6.69			
8/31/94	Tank R plan renew			0.25	6.44		
9/8/94	Spoke w/ k Soto of EIA			0.2	6.24		
9/12/94	Tank R Plan review			0.6	5.64		
10/11/94	NO Pull / NO one on site (BFO)			1.0	4.64		
10-12-94	ONSITE FOR REMOVAL	10:30	11:50	1.0	3.64		
10-12-94	ONSITE FOR TANK Pull	2:00	4:00	2.0	1.64		
10/14/94	Conv. w/ B Mercado + D. Schoenholz			0.5	1.14		
10/19/94	Site visit, hole backfilled + resurfaced			0.5	0.64		
11/4/94	Conversation w/ J. Anderson			0.3	0.34		
12/30/94	Close mts - transferred to LOR PROJ COMPLETED BY: B. Chan			0.34			
DATE OF COMPLETION : 12/30/94				DATE SENT TO BILLING: _____			
TOTAL COST OF PROJECT: 603.00				REFUND AMOUNT: 0 Rev. 1/93			

* Billing adjustment forms needed when site is in our UST program.