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ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL HEALTH LABORATORY

HAZARDOUS WASTES/
WASTE PROGRAM

ANALYTICAL REQUEST

Laboratory No. 88-040

Sample Identification Samples from Market Place, Emeryville

Analyses Requested by: L. Miller

Date Collected: 3-24-88

Collected by: L. Miller

Date Received: 3-25-88

Received by: B. Chan

Analyses Requested Volatile Organics Analysis at 80° C

Background Information Samples were taken from and near a monitoring well on this property.

ANALYTICAL RESULTS

Parameter Observation or Result

Volatile Organic Analysis-
Headspace Analysis on samples heated
at 80° C. and analyzed by Gas Chrom-
atography-FID.

LJM 032388-1 Water

0.85 ug/ml (ppm) methane was found

LJM 032388-2 Soil

N.D. , no volatiles detected

Detection Limit= 0.1 ug/g (ppm)

Conclusions: _____

Date Analyses Completed: 4-11-88

Chemist: B. Chan

Approved: bc

Distribution: R. Shahid, T. Shirasawa, G. Winn

BC/cdb
7/85

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL HEALTH LABORATORY

ANALYTICAL REQUEST

Laboratory No. 88-037

Sample Identification Oily Sample from Martin Co.-Marketplace/Nielsen, 58000 Shell-
Analyses Requested by: L. Miller mound, Emeryville
Date Collected: 2-22-88 Collected by: L. Miller
Date Received: 2-22-88 Received by: B. Chan
Analyses Requested Sulfide, Headspace and acid value.

Background Information This material was found in a monitoring well on this
site and is suspected to have come from an asphalt plant previous to current
construction.

ANALYTICAL RESULTS

Parameter	Observation or Result
General Appearance-	The material is a black and highly odorous oil, asphaltic in nature.
Sulfide- Iodometric Titration Method	None Detected, less than 20ppm
Acid Value-	3.8 meq of KOH/ g. sample
Headspace Gas Chromatographic Analysis- 85°C Headspace in a VOA Vial for 20 minutes, 1 ml injection on SP2100 column.	The material contains approximately 2% volatiles in the kerosine boiling range, 180-300°C.

Conclusions: _____

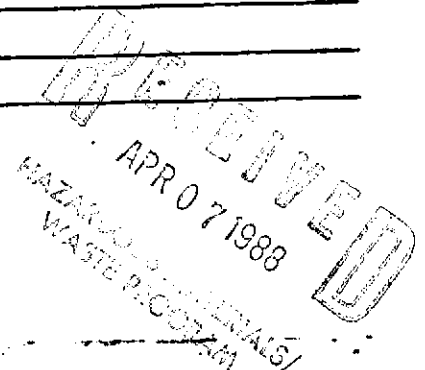
Date Analyses Completed: 4-4-88

Chemist: B. Chan/S. Hugo

Approved: bc

Distribution: R. Shahid, T. Shirasawa, G. Winn

BC/cdb
7/85



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Conclusions: _____

Date Analyses Completed: 4-4-88

Chemist: B. Chan/S. Hugo

Approved: bc

Distribution: R. Shahid, T. Shirasawa, G. Winn

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HAZARDOUS WASTE CONTROL
APR 07 1988

TABLE 1. DIESEL FUEL ANALYSIS RESULTS IN SOIL AND GROUNDWATER AT THE FORMER NIELSEN FREIGHT LINES SITE IN EMERYVILLE, CALIFORNIA (PPM)

SAMPLE I.D. NO.	DESCRIPTION (SEE FIGURE 1)	DEPTH (a) (FEET)	PETROLEUM HYDROCARBONS (b)	
			DIESEL IN SOIL	DIESEL IN WATER
DM1-1	Diesel Manifold	2	2.2	NA
DM1-2	Diesel Manifold	2	230	NA
DP1-1	Diesel Tank Pit Bottom Soil	5 to 6	96	7.7
DP1-2	Diesel Tank Pit Bottom Soil	5 to 6	16	(c)
Stock- pile A	On Site Stockpile	Composite	310	NA
Stock- pile B	On Site Stockpile	Composite	330	NA
Stock- pile C	On Site Stockpile	Composite	920	NA
Stock- pile E	On Site Stockpile	Composite	Detected (less than 18 ppm)	NA
Stock- pile F	On Site Stockpile	Composite	<1.0	NA

EPA Methods 3510/8015 Modified Diesel.
(a) Relative to existing grade.
(b) All samples were collected and analyzed in April, 1988.
(c) One water sample was analyzed from the diesel pit.

NA: Not Applicable.

Source: Earth Metrics Incorporated, 1988.

TABLE 2. GASOLINE FUEL ANALYSIS RESULTS IN SOIL AND GROUNDWATER AT THE FORMER NIELSEN FREIGHT LINES SITE IN EMERYVILLE, CALIFORNIA (PPM)

SAMPLE I.D. NO.	DESCRIPTION (SEE FIGURE 1)	DEPTH (a) (FEET)	GASOLINE IN SOIL (b)
GM1-3	Gasoline Manifold	2	5.3
GM1-4	Gasoline Manifold	2	4.7
GM1-6	Gasoline Manifold	2	17
GM1-10	Gasoline Manifold	1	2.9
GMC	Gasoline Manifold	Composite (c) 5	
Stockpile C	On Site Stockpile	Composite	160
Stockpile D	On Site Stockpile	Composite	8
Stockpile F	On Site Stockpile	Composite	4.5
	Native Soil Under Stockpile F	Composite (6 inches)	<2.2
P-1	Backhoe Test Pit	5 1/2	<0.1
P-7	Backhoe Test Pit	6	<0.1

EPA Method 8015 Gasoline
(a) Relative to existing grade.
(b) All samples were collected and analyzed in April 1988.
(c) Composite of samples from GM1-2, GM1-8, GM1-12, GM1-13, P-3 and P-4.

Source: Earth Metrics Incorporated, 1988

TABLE 3. POLYCHLORINATED BIPHENYLS IN SOIL AND GROUNDWATER SAMPLES FROM MARKETPLACE TOWER CONSTRUCTION SITE (PPM)

SAMPLE I.D. NO. (SEE FIGURE 1)	DESCRIPTION	CONCENTRATION (PPM)
S-1	Soil sample in excavation area (Marketplace Tower)	ND (<0.1)
W-1A	Groundwater sample in excavation area (Marketplace Tower)	ND (<0.1)
Modified EPA SW-846 Method 8080 ND - Not Detected Source: Earth Metrics Incorporated, 1988.		
TABLE 4. TOTAL PETROLEUM HYDROCARBONS IN GROUNDWATER SAMPLE FROM MARKETPLACE TOWER CONSTRUCTION SITE (PPM)		
SAMPLE I.D. NO. (SEE FIGURE 1)	DESCRIPTION	CONCENTRATIONS (PPM)
¹ W-1C	Groundwater sampled from excavation area at proposed eight-story tower site	Gasoline: ND <1 Kerosene: ND <1 Diesel: ND <1
Modified EPA SW-846 Method 8015 ND = Not Detected Source: Earth Metrics Incorporated, 1988.		

TABLE 5. PURGEABLE HALOCARBONS IN GROUNDWATER SAMPLE (I.D. NO. W-1B) FROM MARKETPLACE TOWER CONSTRUCTION SITE (PPB)

COMPOUND	DETECTION LIMIT	CONCENTRATION (PPB)
Chloromethane	5	ND < 5
Bromomethane	5	ND < 5
Vinyl chloride	10	ND < 10
Dichlorodifluoromethane	5	ND < 5
Chloroethane	5	ND < 5
Methylene chloride	40	ND < 40
Trichlorofluoromethane	5	ND < 5
1,1-Dichloroethene	2	ND < 2
1,1-Dichloroethane	5	ND < 5
trans-1, 2-Dichloroethene	5	ND < 5
Chloroform	5	ND < 5
1,2-Dichloroethane	5	ND < 5
1,1,1-Trichloroethane	5	ND < 5
Carbon tetrachloride	5	ND < 5
Bromodichloromethane	5	ND < 5
1,2-Dichloropropane	5	ND < 5
cis-1,3-Dichloropropene	5	ND < 5
Trichloroethylene	5	ND < 5
1,1,2-Trichloroethane	5	ND < 5
trans-1,3-Dichloropropene	5	ND < 5
Dibromochloromethane	5	ND < 5
2-Chloroethylvinyl ether	10	ND < 10
Bromoform	5	ND < 5
Tetrachloroethene	5	ND < 5
1,1,2,2-Tetrachloroethane	5	ND < 5
Chlorobenzene	5	ND < 5
1,3-Dichlorobenzene	5	ND < 5
1,2-Dichlorobenzene	5	ND < 5
1,4-Dichlorobenzene	5	ND < 5

MDL = Method Detection Limit

ND = Not Detected

Note: Sample foamed. Diluted factor of 10 for analysis.

EPA Method 601

Source: Earth Metrics Incorporated, 1988.