

# CROSBY & OVERTON, INC.

## Environmental Management

8430 Amelia Street  
Oakland, California 94621  
FAX (415) 633-0759  
(415) 633-0336 ■ (800) 821-0424

90 NOV 27 AM 11:01

### SUBSURFACE SOIL INVESTIGATION

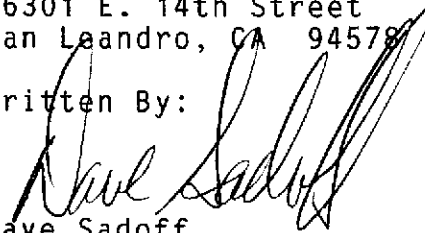
AT

JACK HOLLAND SR. OIL CORPORATION  
16301 E. 14TH STREET  
SAN LEANDRO, CALIFORNIA

Prepared for:

Ms. Ann Marie Holland  
16301 E. 14th Street  
San Leandro, CA 94578

Written By:

  
Dave Sadoff  
Environmental Geologist

Reviewed By:

  
Roger Nielson  
California Registered Geologist #1801

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## INTRODUCTION

On April 21, 1989, Mr. Larry Seto of the Alameda County Health Care Services Agency (ACHCSA) conducted an inspection of the Jack Holland Sr. Oil Corporation facility located at 16301 E. 14th Street in San Leandro, California. During the inspection, four split soil samples were collected from surface soils above two diesel underground fuel tanks (UFT). Laboratory analysis of the samples found diesel in concentrations of 20,600 parts per million (ppm) in one and 20,100 ppm another.

Ms. Ann Marie Holland contacted and authorized Crosby and Overton, Inc. (C & O) to conduct a subsurface soil investigation to determine the lateral and vertical extent of the diesel contamination, following the San Francisco Bay Regional Water Quality Control Board's (RWQCB) "Tri-Regional Recommendations" (2 June 1988, revised 18 May 1989) for the initial evaluation and investigation of underground fuel tanks.

A work plan for the reinvestigation was prepared by C & O and submitted to ACHCSA on September 29, 1989. Approval of the workplan was issued by ACHCSA on March 13, 1990.

## FIELD WORK

### EXPLORATORY BOREHOLES

On September 18, 1990, Crosby and Overton conducted the proposed project, directing Layne Environmental in the drilling of five exploratory boreholes proximal to the two UFTS (see figure 2) using a B-61 truck mounted drill rig and 6 inch outer diameter continuous flight hollow stem augers. A California split-spoon sampler, holding three clean 6 inch long by 2 inch diameter brass tubes was used to collect undisturbed soil-core samples. Samples were collected from each boring at five feet below ground surface (bgs), and 10 feet bgs. In addition, a soil sample was collected at 15 feet bgs in borehole number 1 (BH-1); at 13.5 feet bgs in BH-2; and at 12 feet bgs in BH-4.

Immediately after each sampling event, the middle brass tube was selected, its ends were covered by aluminum foil, capped with plastic caps, security taped labelled, and placed on blue ice in a closed ice chest. All samples were transported under chain of custody documentation to Anamatrix Laboratory (a California state

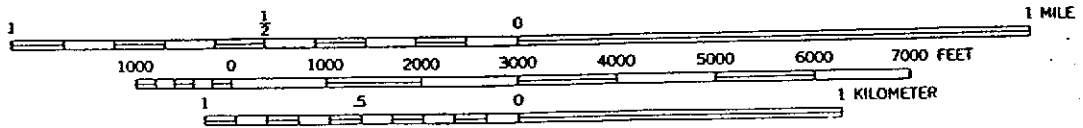
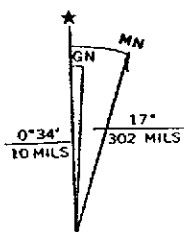
certified hazardous materials laboratory in San Jose) for chemical analysis. All samples were analyzed for total petroleum hydrocarbon as diesel (TPH-D) by EPA method 3510/3550; and for benzene, toluene, ethylbenzene, and xylenes (BTEX), by EPA method 8020.

#### GEOLOGY

In all borings site subsurface soils encountered a continuous gray and blueish/olive-green silty/sandy clay to total depth. In BH-1 and BH-2, the section included a coarse to very coarse-grained subrounded 6" sand strata at approximately 10 feet bgs.

All of the exploratory borehole soil cuttings and samples contained a moderate to strong diesel odor.

Groundwater was encountered at 14.5 feet bgs in BH-1 only. (All other borings were terminated at 13.5 bgs or less)



CONTOUR INTERVAL 20 FEET  
 DOTTED LINES REPRESENT 5-FOOT CONTOURS  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

Figure 1

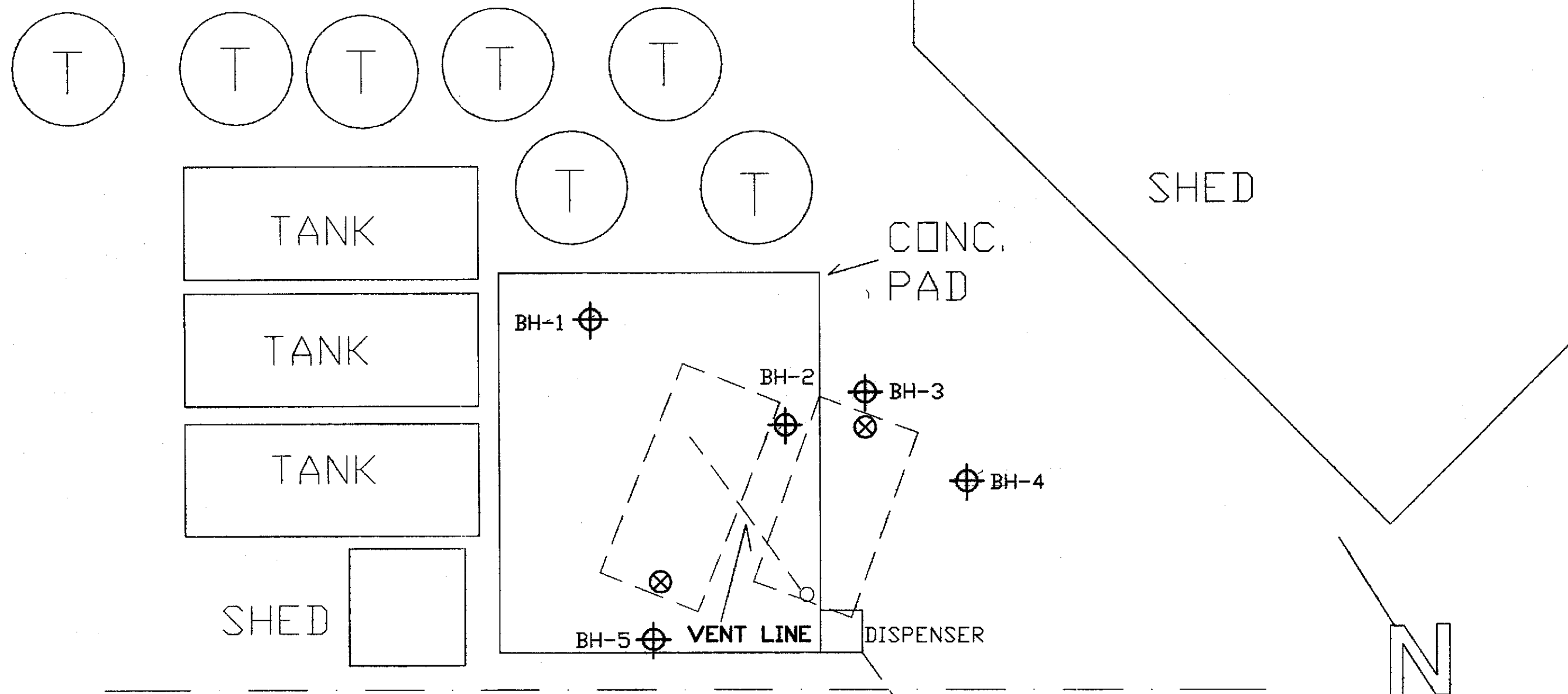


**CROSBY & OVERTON, INC.**  
 Environmental Management

After USGS 7.5' Hayward  
 & 7.5' San Leandro, 1959  
 quadrangles. Rev. 1980.

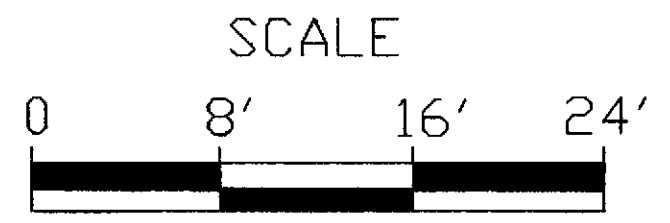
DATE: 10/31/90 JOB NUMBER: 7050-S

DRAWN BY: M. Walraven



LEGEND:

- ⊕ BORE HOLE
- ⊗ FILL CAP
- VENT PIPE
- T VERTICAL TANK



**SITE PLAN**

**HOLLAND OIL**  
 16301 E. 14th STREET  
 SAN LEANDRO CA,  
 DATE 11-1-90 JOB NUMBER 7050-S DRAWN BY M.S.A. CHECKED BY D.A.S.

## ANALYTICAL RESULTS

### EXPLORATORY BOREHOLES

All of the exploratory borehole soil samples had detectable diesel contamination, ranging from 310 ppm to 25,000 ppm (see Table 1). The highest levels of diesel contamination were detected in soil samples from BH-3, which had 17,000 ppm at 5 feet bgs, and 25,000 ppm at 10 feet bgs. The lowest levels of diesel were detected in soil samples from BH-4, which had 310 ppm at 5 feet bgs, 450 ppm at 10 feet bgs, and 740 ppm at 12 feet bgs.

Benzene was not detected in the core samples collected from BH-1 (5 feet bgs and 15 feet bgs), BH-2 (10 feet bgs and 13.5 feet bgs), and BH-4 at 12 feet bgs. All other soil samples had detectable benzene, ranging from 0.015 ppm (BH-4 at 10 feet bgs) to 2.5 ppm (BH-4 at 5 feet bgs).

Toluene was not detected in the soil sample collected from BH-4 at 12 feet bgs only. All other soil samples had detectable toluene, ranging from 0.053 ppm (BH-4 at 10 feet bgs) to 4.0 ppm (BH-1 at 10 feet bgs).



Ethylbenzene was not detected in the soil sample collected from BH-4 at 12 feet bgs; but was found in all other soil samples, ranging from 0.059 ppm in BH-4 at 10 feet bgs, to 16 ppm in BH-1 at 10 feet bgs.

Xylenes were detected in all of the soil samples, ranging from 0.058 ppm in BH-4 at 12 feet bgs to 74 ppm in BH-1 at 10 feet bgs.



Figure 3A. Delineation of tank 1, viewed to the SW. Also shown: BH-1, fill-pipe, BH-2, BH-5, BH-3, and fill-pipe tank 2.



Figure 3B. View North, N. side of tank 1, S. side of tank 2. BH-2 at extreme left, vent lines are dashed.



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Figure 4A. Delineation of tank 2, viewed to the NE. BH-3 center foreground, tank 2 fill top center.



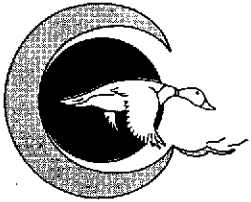
Figure 4B. Tank 2 viewed to the South. Fill pipe tank 2, BH-3 and BH-4, also shown.



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BA# 7050-S

### ANALYTICAL PARAMETERS & RESULTS

STATION	LOCATION	DIESEL	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES
S1	BH-1 5'	990	ND	0.650	0.920	6.100
S2	BH-1 10'	6800	1.100	4.000	16.000	74.000
S3	BH-1 15'	3500	ND	1.000	2.100	16.000
=====						
S4	BH-2 5'	11000	0.240	1.100	2.300	6.300
S5	BH-2 10'	3500	ND	0.350	0.580	2.300
S6	BH-2 13.5'	650	ND	0.310	0.230	1.600
=====						
S7	BH-3 5'	17000	0.360	1.000	2.200	11.000
S8	BH-3 10'	25000	0.110	0.720	0.960	4.100
=====						
S9	BH-4 5'	310	2.500	1.200	0.860	3.200
S10	BH-4 10'	450	0.015	0.053	0.059	0.350
S11	BH-4 12'	740	ND	ND	ND	0.058
=====						
S12	BH-5 5'	1100	0.300	0.400	0.880	3.200
S13	BH-5 10'	5600	ND	0.110	0.110	0.620

ND = NOT DETECTED  
ALL VALUES GIVEN IN PPM.


CHECKED BY: 

TABLE 1.

## CONCLUSIONS AND RECOMMENDATIONS

Based on field and analytical data generated during this investigation, Crosby and Overton draws the following conclusions and recommendations:

### EXPLORATORY BOREHOLES

Elevated levels of TPH as diesel and BTXE have been detected in all of the exploratory boreholes from the surface to total depth. The source of the contamination is most probably from repeated overfill and/or spillage. In addition, a tank system failure (e.g. a leaking tank or piping connection) may be contributing to the contamination found on site.

Soil sample S3, taken from 15 feet bgs in BH-1 (groundwater was observed at 14.5 feet bgs in BH-1) had significant contamination, indicating that groundwater has probably been impacted at the subject site.

Soil contamination appears to be heaviest in the vicinity of BH-3; less concentrated in BH-1, BH-2, and BH-5; and lightest in the vicinity of BH-4. The high levels of

contamination at BH-3 may be attributable to 1) its' proximity to the tank #2 fill pipe (overfilling), and 2) the absence of a concrete pad for containment of spills proximal to BH-3. The presence of a concrete pad above BH-1, BH-2, and BH-5 probably has prevented the release to soils of most fuel spills and overfills generated at tank #1. The relatively low levels of contamination found in BH-4 may be attributed to its' distance from the two UFTs, and from several above ground fuel storage tanks (which may have had releases) located to the south of the concrete pad. BH-4 may represent a lateral fringe of the contamination plume.

Due to the limited nature of this investigation, coupled with the magnitude of contamination present at the subject site, the full lateral and vertical extent of contamination cannot be determined. Crosby and Overton recommends conducting sufficient additional investigative work at the subject site, including the drilling and sampling of additional exploratory boreholes and groundwater monitor wells to fully characterize the contamination plume.

**ANAMETRIX INC**

Environmental & Analytical Chemistry  
 1 Concourse Drive, Suite E, San Jose, CA 95131  
 (408) 432-8192 • Fax (408) 432-8198

REPORT

**REPORT**

MR. DAVE SADOFF  
 CROSBY & OVERTON ENVIRONMENTAL  
 8430 AMELIA STREET  
 OAKLAND, CA 94621

Workorder # : 9009208  
 Date Received : 09/21/90  
 Project ID : 7050-S  
 Purchase Order: 10004

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9009208- 1	S1
9009208- 2	S2
9009208- 3	S3
9009208- 4	S4
9009208- 5	S5
9009208- 6	S6
9009208- 7	S7
9009208- 8	S8
9009208- 9	S9
9009208-10	S10
9009208-11	S11
9009208-12	S12
9009208-13	S13

This report is paginated for your convenience and ease of review. It contains 7 pages excluding the cover letter. The report is organized into sections. Each section contains all analytical results and quality assurance data related to a specific group or section within Anametrix. The Report Summary that precedes each section will help you determine which group at Anametrix generated the data. The Report Summary will contain the signatures of the department supervisor and a chemist, both of whom reviewed the analytical data. Please refer all questions to the department supervisor that signed the form.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

*Burt Sutherland*

Burt Sutherland  
 Laboratory Director

*09-23-90*

Date

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

MR. DAVE SADOFF  
CROSBY & OVERTON ENVIRONMENTAL  
8430 AMELIA STREET  
OAKLAND, CA 94621

Workorder # : 9009208  
Date Received : 09/21/90  
Project ID : 7050-S  
Purchase Order: 10004  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9009208- 1	S1	SOIL	09/19/90	BTEX
9009208- 2	S2	SOIL	09/19/90	BTEX
9009208- 3	S3	SOIL	09/19/90	BTEX
9009208- 4	S4	SOIL	09/19/90	BTEX
9009208- 5	S5	SOIL	09/19/90	BTEX
9009208- 6	S6	SOIL	09/19/90	BTEX
9009208- 7	S7	SOIL	09/19/90	BTEX
9009208- 8	S8	SOIL	09/19/90	BTEX
9009208- 9	S9	SOIL	09/19/90	BTEX
9009208-10	S10	SOIL	09/19/90	BTEX
9009208-11	S11	SOIL	09/19/90	BTEX
9009208-12	S12	SOIL	09/19/90	BTEX
9009208-13	S13	SOIL	09/19/90	BTEX
9009208- 1	S1	SOIL	09/19/90	TPHd
9009208- 2	S2	SOIL	09/19/90	TPHd
9009208- 3	S3	SOIL	09/19/90	TPHd
9009208- 4	S4	SOIL	09/19/90	TPHd
9009208- 5	S5	SOIL	09/19/90	TPHd
9009208- 6	S6	SOIL	09/19/90	TPHd
9009208- 7	S7	SOIL	09/19/90	TPHd
9009208- 8	S8	SOIL	09/19/90	TPHd
9009208- 9	S9	SOIL	09/19/90	TPHd
9009208-10	S10	SOIL	09/19/90	TPHd



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Purchase Order: 10004  
Department : GC  
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9009208-11	S11	SOIL	09/19/90	TPHd
9009208-12	S12	SOIL	09/19/90	TPHd
9009208-13	S13	SOIL	09/19/90	TPHd

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Date Received : 09/21/90  
Project ID : 7050-S  
Purchase Order: 10004  
Department : GC  
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Cheryl Balmer                      9/28/90  
Department Supervisor                      Date

C. K.                                      9.28.90  
Chemist                                      Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS  
(GASOLINE WITH BTEX)  
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.#: 9009208  
Matrix : SOIL  
Date Sampled : 09/19/90

Project Number : 7050-S  
Date Released : 09/28/90

COMPOUNDS	Reporting Limit (mg/Kg)	Sample I.D.# S1	Sample I.D.# S2	Sample I.D.# S3	Sample I.D.# S4	Sample I.D.# S5
Benzene	0.005	ND	1.1	ND	0.24	ND
Toluene	0.005	0.65	4.0	1.0	1.1	0.35
Ethylbenzene	0.005	0.92	16	2.1	2.3	0.58
Total Xylenes	0.005	6.1	74	16	6.3	2.3
% Surrogate Rec.		105%	109%	122%	143%	90%
Instrument #		HP4	HP4	HP4	HP4	HP4
Date Analyzed		09/25/90	09/25/90	09/25/90	09/25/90	09/25/90
RLMF		25	100	50	25	25

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

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

RLMF - Reporting Limit Multiplication Factor.

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

*[Signature]* 9.28.90  
Analyst Date

*Cheryl Balmer* 9/28/90  
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS  
(GASOLINE WITH BTEX)  
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.#: 9009208  
Matrix : SOIL  
Date Sampled : 09/19/90

Project Number : 7050-S  
Date Released : 09/28/90

Reporting Limit	Sample I.D.# S6	Sample I.D.# S7	Sample I.D.# S8	Sample I.D.# S9	Sample I.D.# S10	
COMPOUNDS (mg/Kg)	-06	-07	-08	-09	-10	
Benzene	0.005	ND	0.36	0.11	2.5	0.015
Toluene	0.005	0.31	1.0	0.72	1.2	0.053
Ethylbenzene	0.005	0.23	2.2	0.96	0.86	0.059
Total Xylenes	0.005	1.6	11	4.1	3.2	0.35
% Surrogate Rec.		112%	121%	111%	100%	116%
Instrument #		HP4	HP4	HP4	HP4	HP4
Date Analyzed		09/25/90	09/25/90	09/25/90	09/25/90	09/26/90
RLMF		10	10	10	100	2

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

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

RLMF - Reporting Limit Multiplication Factor.

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

*Li Fan* 9.28.90  
Analyst Date

*Cheryl Palmer* 9/28/90  
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS  
 (GASOLINE WITH BTEX)  
 ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.#: 9009208  
 Matrix : SOIL  
 Date Sampled : 09/19/90

Project Number : 7050-S  
 Date Released : 09/28/90

Reporting Limit	Sample I.D.# S11	Sample I.D.# S12	Sample I.D.# S13	Sample I.D.# 04B0925A
COMPOUNDS (mg/Kg)	-11	-12	-13	BLANK
Benzene	0.005	ND	0.30	ND
Toluene	0.005	ND	0.40	0.11
Ethylbenzene	0.005	ND	0.88	0.11
Total Xylenes	0.005	0.058	3.2	0.62
% Surrogate Rec.		111%	141%	113%
Instrument #		HP4	HP4	HP4
Date Analyzed		09/26/90	09/26/90	09/26/90
RLMF		2	25	10

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

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

RLMF - Reporting Limit Multiplication Factor.

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

C. F. 9.28.90  
 Analyst Date

Cheryl Balmer 9/28/90  
 Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBON AS DIESEL  
ANAMETRIX, INC. (408) 432-8192

Anamatrix W.O.#: 9009208  
Matrix : SOIL  
Date Sampled : 09/19/90  
Date Extracted : 09/24/90

Client Project# : 7050-S  
Date released : 09/28/90  
Instrument I.D. : HP19

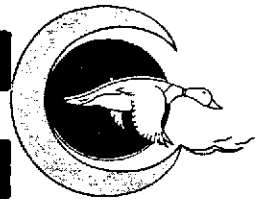
Anamatrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (mg/Kg)	Amount Found (mg/Kg)
9009208-01	S1	09/25/90	10	990
9009208-02	S2	09/25/90	10	6800
9009208-03	-S3	09/25/90	10	3800
9009208-04	S4	09/26/90	10	11000
9009208-05	S5	09/25/90	10	3500
9009208-06	-S6	09/25/90	10	650
9009208-07	S7	09/26/90	10	17000
9009208-08	-S8	09/26/90	10	25000
9009208-09	S9	09/25/90	10	310
9009208-10	S10	09/25/90	10	450
9009208-11	-S11	09/26/90	10	740
9009208-12	S12	09/26/90	10	1100
9009208-13	-S13	09/26/90	10	5600
DSBL092490	METHOD BLANK	09/25/90	10	ND

ND - Not detected at or above the practical quantitation limit for the method.  
TPHd - Total Petroleum Hydrocarbons as diesel is determined by GCFID following either EPA Method 3510 or 3550.

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

Aracé Luvion 09-28-90  
Analyst Date

Cheryl Balmer 9/28/90  
Supervisor Date



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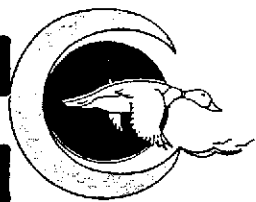
Environmental Management

8430 Amelia Street  
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 FAX (415) 633-0759  
 (415) 633-0336 • (800) 821-0424

## FIELD DRILL / LITHOLOGIC LOG

BORING/WELL NUMBER BOREHOLE - 1  
 PROJECT HOLLAND OIL PROJECT NUMBER 7050 - S  
 LOCATION 16301 E. 14TH STREET OWNER ANN MARIE HOLLAND  
 DATE DRILLED 9-18-90 TOTAL DEPTH OF HOLE 15 FEET  
 SURFACE ELEVATION 35-40 FEET DEPTH TO WATER 5 FEET  
 SCREEN: DIA. N/A SLOT SIZE N/A  
 CASING: DIA. N/A TYPE N/A  
 DRILLING COMPANY DATUM DRILL METHOD HSA  
 DRILLER MARK \_\_\_\_\_ LOG BY D. SADOFF

DEPTH (FEET)	WELL CONST.		PID (PPM)	SAMPLES			GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	TYPE	BLOW		
0								4 INCH CONCRETE PAD.
1								DARK GRAY TO BLACK SILTY/SANDY CLAY.
2								MEDIUM PLASTICITY, <del>W/HT. SODIUM SALINE ODOR.</del>
3								
4						6		
5				S1		9		PEBBLY SILTY CLAY. PEBBLES ARE SUBROUNDED AND RARE.
6						16		<del>W/HT. SODIUM SALINE ODOR.</del>
7								LIGHT GREY, MEDIUM PLASTIC CLAY.
8								<del>W/HT. SODIUM SALINE ODOR.</del>
9						4		
10				S2		6		CONTACT BETWEEN CLAYS AND A 6 INCH, COARSE TO VERY COARSE, SUBROUNDED, QUARTZ AND LITHICS SAND LENS.
11						9		LIGHT GRAY, MEDIUM PLASTIC SILTY/SANDY CLAY.
12								
13								
14						3	v	SATURATED ZONE.
15				S3		6		MEDIUM PLASTIC, GRAY/SILTY SANDY CLAY. BOREHOLE TERMINATED.
						7		



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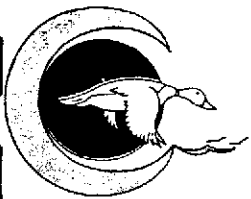
## FIELD DRILL / LITHOLOGIC LOG

BORING/WELL NUMBER BOREHOLE - 2 PROJECT NUMBER 7050 - S  
 PROJECT HOLLAND OIL OWNER ANN MARIE HOLLAND  
 LOCATION 16301 E. 14TH STREET TOTAL DEPTH OF HOLE 13.5 FEET  
 DATE DRILLED 9-18-90 DEPTH TO WATER NOT ENCOUNTERED  
 SURFACE ELEVATION 35-40 FEET SLOT SIZE N/A  
 SCREEN: DIA. N/A TYPE N/A  
 CASING: DIA. N/A DRILL METHOD HSA  
 DRILLING COMPANY DATUM LOG BY D. SADOFF  
 DRILLER MARK

DEPTH (FEET)	WELL CONST.		PID (PPM)	SAMPLES			GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	TYPE	BLOW		
0								4 INCH CONCRETE PAD.
1								<del>STRONG BROWN CLAY</del>
2								
3								
4								
5				S4		12		
6						15		GRAY, SILTY CLAY. <del>STRONG BROWN CLAY</del>
7						14		CLAY.
8								
9								
10				S5		4		
11						6		CONTACT WITH COARSE TO VERY COARSE SAND LENS
12						9		(C.F. BH-1). <del>VERY STRONG BROWN CLAY</del>
13								CLAY
14				S6		3		
15						5		CAPILLARY FRINGE. CLAYEY SANDY SILT.
						8		







# CROSBY & OVERTON, INC.

Environmental Management

8430 Amelia Street  
 Oakland, California 94621  
 FAX (415) 633-0759  
 (415) 633-0336 • (800) 821-0424

## FIELD DRILL / LITHOLOGIC LOG

BORING/WELL NUMBER BOREHOLE - 4  
 PROJECT HOLLAND OIL PROJECT NUMBER 7050 - S  
 LOCATION 16301 E. 14TH STREET OWNER ANN MARIE HOLLAND  
 DATE DRILLED 9-18-90 TOTAL DEPTH OF HOLE 12 FEET  
 SURFACE ELEVATION 35 - 40 FEET DEPTH TO WATER NOT ENCOUNTERED  
 SCREEN: DIA. N/A SLOT SIZE N/A  
 CASING: DIA. N/A TYPE N/A  
 DRILLING COMPANY DATIM DRILL METHOD HSA  
 DRILLER MARK LOG BY D. SADOFF

DEPTH (FEET)	WELL CONST.		PID (PPM)	SAMPLES			GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
	PIPE	FILL		NUMBER	TYPE	BLOW		
0								4 INCH CONCRETE PAD.
1								TURQUOISE/OLIVE-GREEN, PEBBLY, SANDY CLAY.
2								ABUNDANT PEBBLES, <del>WELLSIDE</del>
3								-----
4								COLOR CHANGE TO BROWN.
5				S9		4		
6						6		
7						8		70% SAMPLE RECOVERY. HETEROGENEOUS BROWN/TURQUOISE/OLIVE, SANDY/SILTY PEBBLY CLAY. <del>WELLSIDE</del>
8								CLAY BECOMES MORE HOMOGENEOUS (LESS COARSE SAND).
9								-----
10				S10		3		
11						4		SAME AS ABOVE.
12				S11		1		
13						6		
14						8		CAPILLARY FRINGE ENCOUNTERED.
15						14		CONTACT BETWEEN HETEROGENEOUS SANDY SILTY CLAY (STRUCTURALLY ABOVE), AND TURQUOISE, SILTY CLAY.



APPENDIX C  
CHAIN OF CUSTODY DOCUMENTATION

PROJ. NO. <b>70505</b>	PROJECT NAME <b>HOLLAND OIL</b>	P.O. NO. <b>10004</b>	NO OF CONTAINERS	REMARKS
SAMPLERS: Signature <i>Nav [Signature]</i>		Send report attention to;		

TPH-DIESEL  
 8020 BTEX

STA NO	DATE	TIME	COMP	GRAB	STATION LOCATION													
① S1	9/19/90	10:35		✓	BH-1 5'	1	X	X										
② S2	"	10:46		✓	BH-1 10'	1	X	X										
③ S3	"	11:10		✓	BH-1 15'	1	X	X										
④ S4	"	11:37		✓	BH-2 5'	1	X	X										
⑤ S5	"	11:47		✓	BH-2 10'	1	X	X										
⑥ S6	"	11:56		✓	BH-2 13.5'	1	X	X										
⑦ S7	"	13:03		✓	BH-3 5'	1	X	X										
⑧ S8	"	13:11		✓	BH-3 10'	1	X	X										
⑨ S9	"	13:56		✓	BH-4 5'	1	X	X										
⑩ S10	"	14:05		✓	BH-4 10'	1	X	X										
⑪ S11	"	14:13		✓	BH-4 12'	1	X	X										
⑫ S12	"	15:05		✓	BH-5 5'	1	X	X										
⑬ S13	"	15:12		✓	BH-5 10'	1	X	X										



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Relinquished by: Signature <i>Nav [Signature]</i>	Date/Time 10:50 9/21/90	Received by: Signature <i>Mark [Signature]</i>	Date/Time 10:50 9/21/90	REMARKS: PLEASE DISPOSE OF SAMPLES AFTER HOLDING TIMES ELAPSE. Company Name Address ANAMETRIX S.J.
Relinquished by: Signature <i>Mark [Signature]</i>	Date/Time 9/21/90 1300	Received by: Signature <i>Benny S. Carrigan</i>	Date/Time 9/21/90 1300	
Relinquished by: Signature <i>Benny S. Carrigan</i>	Date/Time 9/21/90 13:45	Received by: Signature <i>Calvin Robinson</i>	Date/Time 09-21-90 <del>09-21-90</del> 13:45	

3/9/8, 11, 13

CROSBY & OVERTON, INC.  
JOB SAFETY PLAN

Project Location: 16301 E. 14th Street, San Leandro  
C & O Job Number: 7050-S

The possible hazards on this job are expected to be:  
physical hazards associated with working a truck-mounted  
drill rig. Chemical hazards from elevated levels of diesel  
in the soil and groundwater.

Required personal protective equipment for this project:  
Level D Protection (steel toe neoprene boots, coveralls,  
work gloves, hard hat, safety glasses, high visibility vest,  
ear plugs), Level C Protection on standby (OV cartridges).

CROSBY AND OVERTON, INC.  
JOB SAFETY PLAN

1. Site: 16301 E. 14th Street, San Leandro
2. Location: San Leandro Street between 163rd and 164th.
3. Plan Prepared: Crosby and Overton, Inc. Date: 9/18/90  
Plan Approved: Dave Sadoff, PM Date: 9/18/90  
Ted Haavisto, HSO Date: 9/18/90
5. Facility Description: Holland Oil tank farm.
6. Status (active, inactive, unknown): active
7. Surroundings: Site is located in San Leandro and is bounded by; 163rd Street (north), 164th Street (south), and Edendale Park (southwest).
8. Site Map: Attached
9. Climate: Moderate dry summers, cool wet winters
10. Site history (origin of contamination and history of injuries exposure, chemical spills, complaints, etc.)  
Surface contamination reported May 24, 1989 by Alameda County Health Care Services Agency.
11. Description of work: Five exploratory boreholes will be installed and sampled. Drill cuttings, decon water, and well dewatering water will be drummed into DOT approved drums and remain on-site pending analytical results.
12. Chemical contaminants:

Chemical	Media	Minimum	Maximum
diesel	soil	N/A	N/A

13. Procedures to mitigate hazards:

A) Mechanical Hazards

- verify that all equipment is in good condition
- barricade area or otherwise restrict access
- exercise caution when working in close proximity to the drill rig

B) Electrical Hazards

- locate and mark buried utilities before drilling  
utilities located by: Spectrum Geophysical
- maintain at least 10 feet of clearance from overhead power lines
- properly ground all electrical equipment
- avoid standing in water when operating electrical equipment
- be familiar with specific operating instructions for each piece of equipment
- barricade area or otherwise restrict access
- deactivate any source of ignition within 25 feet of work area

C) Chemical Hazards

- use personal protective equipment listed above
- conduct direct reading air monitoring to evaluate respiratory and explosion hazards
- wash hands before eating or drinking
- avoid hand to mouth contact before washing hands
- keep dust to a minimum, avoid breathing dust

D) Temperature Hazards

- Heat: when temperature exceeds 70 F, take frequent breaks in shaded area. Unzip or remove coveralls during breaks. Have cool water or electrolyte replenishment solution available. Drink small amounts frequently to avoid dehydration. Count the pulse rate for 30 seconds, as early as possible in the rest period. If the pulse rate exceeds 110 beats per minute at the beginning of the rest period, shorten the work cycle by one-third.
- Cold: wear multilayer cold weather outfits the outer layer should be of wind-resistant fabric.



E) Acoustical Hazards

- use earplugs when noise level prevents conversation in normal voice at a distance of three feet.

F) Organic Vapors

- monitor organic vapors. If total hydrocarbons exceed 5 ppm above background, don Level C personal protective equipment
- if total hydrocarbons exceed 500 ppm, supply mechanical ventilation
- monitor lower explosive limit. If LEL exceeds 20%, leave area and call fire department
- no smoking within 25 feet of working area
- post no smoking signs

14. Decontamination procedures: Steam clean equipment before leaving work area. Wash boots and gloves. Launder coveralls. Wash hands and face as soon as possible after stopping work.
15. Materials generated on-site: Drum drill cuttings, decon water, and well water in DOT approved drums with proper labels and markings. Leave on-site pending analytical results.
16. Site resources: Currently unknown.
17. Emergency equipment: Fire extinguisher and first aid kit to be on-site at all times
18. Emergency telephone numbers:

Ambulance 911  
Police 911  
Fire Department 911  
Hospital: Fairmont Hospital 667-7800  
Poison Control Center 800-233-3360 or  
415-821-8324  
Project Manager: Office 633-0336 Home  
834-2691  
HSO: Office 633-0336 Home 537-7318

19. Emergency routes: Map attached. Fairmont Hospital, 15400 Foothill Blvd, San Leandro.

20. Project personnel list and safety plan distribution record: All project staff must sign, indicating they have read and understand the Safety Plan.

Employee Name	Date/Time	Signature
DAVE SPOFF	08:43 9/18/90	<i>[Signature]</i>
TERRY O'MALLEY	"	<i>[Signature]</i>
MARK AYAZA	"	<i>[Signature]</i>
Matt Walvareu	"	<i>[Signature]</i>
Mike Sloan	"	<i>[Signature]</i>
MICHAEL COLE		<i>[Signature]</i>

21. Health and safety meeting: All personnel participating in the project must receive initial health and safety orientation. Thereafter, a brief "tailgate" safety meeting is required as deemed necessary by the Health and Safety Officer.

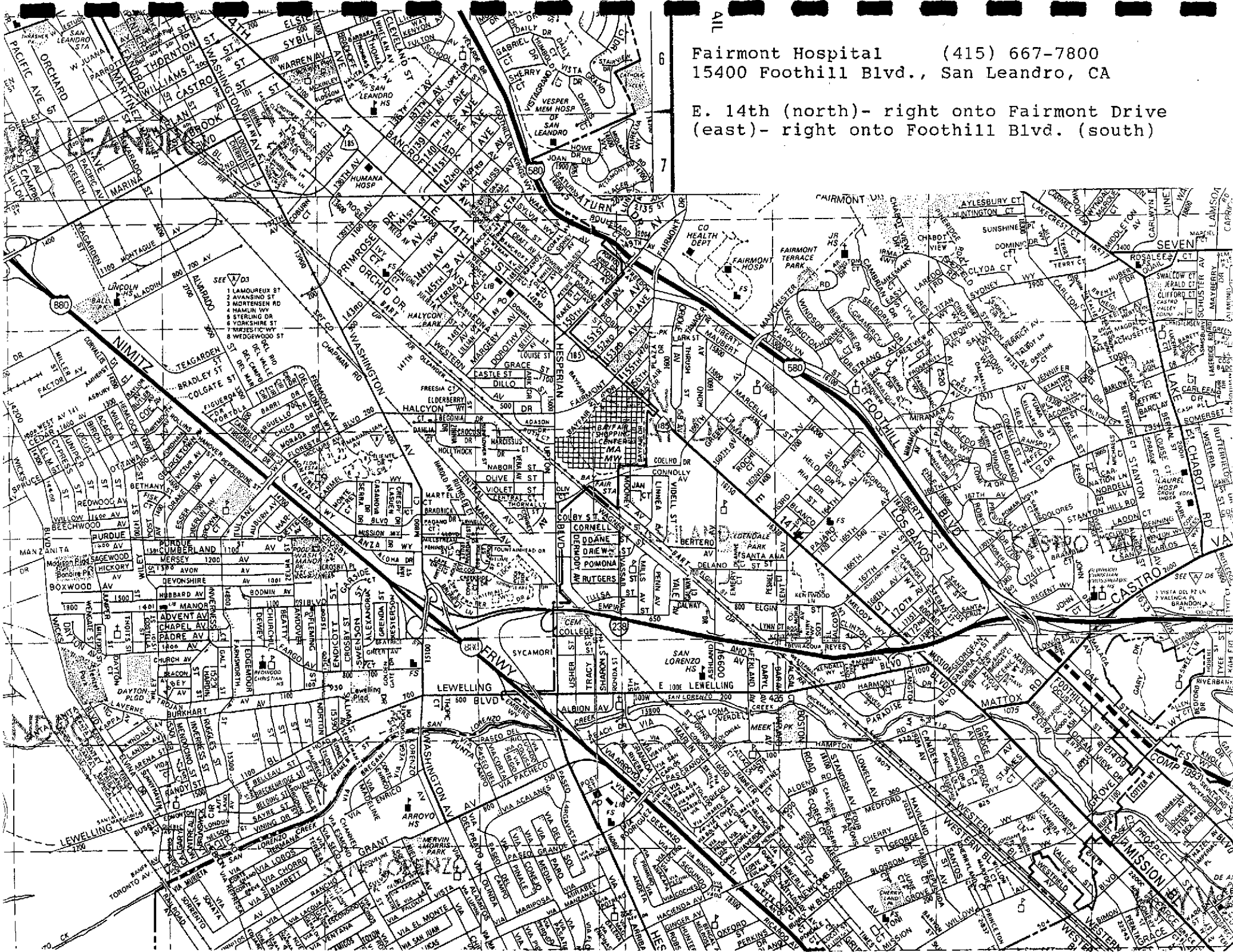
Date	Topics	Name	Employee Initial
------	--------	------	------------------

22. Visitors: It is Crosby & Overton policy that visitors must furnish his/her own personal protective equipment. All visitors are required to sign the visitor log and comply with the safety plan requirements.

Name of Visitor	Firm Name	Date/Time	Signature
STEVE HAWCOCK	Crosby & Overton	9:18 10:20	<i>[Signature]</i>

6 Fairmont Hospital (415) 667-7800  
15400 Foothill Blvd., San Leandro, CA

E. 14th (north)- right onto Fairmont Drive  
(east)- right onto Foothill Blvd. (south)



## HAZARDOUS PROPERTY INFORMATION (continued)

CHECK IF PRESENT	MATERIAL	WATER SOLUBILITY (a)	SPECIFIC GRAVITY	VAPOR DENSITY	FLASH POINT OF	VAPOR PRESSURE (e)	LEL UEL	LD 50 mg/kg	TLV-TWA (g)	IDLH LEVEL	ODOR THRESHOLD OR WARNING CONCENTRATION	HAZARD (j) PROPERTY	DERMAL (k) TOXICITY	ACUTE (l) EXPOSURE SYMPTOMS
	Phenol	0.4%	1.0576	3.2	175	0.36mm	1.8% 8.6%	414	5ppm	100ppm	0.47-5 (48)	C		ABC DGI OMOR
	Xylene	0.00003%	0.8642	3.7	84	9mm	1.1% 7%	5000	100ppm	10,000ppm	0.5-200 (200)	BCD		A B F H I L M P Q
	Acetone	soluble	0.8	2.0	-4	400mm	2.6% 12.8%	9750	750ppm	10,000ppm	100	BCD	D I	X
	Chronic Acid	soluble	1.67-2.82	n/a	none	n/a	non flam		none established	none specified		ACEG		G I X
	Diesel Fuel	insoluble	0.81-0.90	--	130	--	0.6-1.3 6-7.5		none established	none specified	0.06	BC	ABC	I X
	Gasoline	insoluble	0.72-0.76	3-4	-45	variable	1.4% 7.6%		300ppm	none specified	0.005-10 x 0.25	CD	AB	I X
	Kerosene	insoluble	0.83-1.0	--	100-165	5	0.7%		none	none	1.0	BCD	AB	I X

HAZARDOUS PROPERTY INFORMATION

CHECK IF PRESENT	MATERIAL	WATER SOLUBILITY(%)	SPECIFIC GRAVITY	VAPOR DENSITY	FLASH POINT OF	VAPOR PRESSURE(+)	LEL LEL	LD 50 mg/kg	TLV-TWA(g)	IDLH LEVEL	ODOR THRESHOLD OR WARNING CONCENTRATION	HAZARD (j) PROPERTY	DERMAL (k) TOXICITY	ACUTE (l) EXPOSURE SYMPTOMS	
	VOLATILE ORGANIC PRIORITY POLLUTANTS														
	Acrolein	22%	0.8410	1.9	-15	214mm	2.8% 31%	46	0.1ppm	5ppm	0.1-16.6 (0.21-0.5)	BCED	IJ	ABDFGHKLMNO PQR	
	Acrylonitrile	7.1%	0.8060	1.8	30	83mm	3% 17%	82	2ppm	4,000ppm	19-100	BCEGD	DIG	FGIKLMNOR	
	Benzene	820ppm	0.8765	2.8	12	75mm	0.339% 7.1%	3800	11ppm	2,000ppm	4.68	BCCD	CIG	BCDFHIKLMNO R	
	Bromomethane	0.1g	1.732	3.3	none	1.88atm	13.5% 14.5%		5ppm	2,000ppm	no odor	CD		BCDEIJKLMNO R	
	Bromodichloromethane	insoluble	1.980	..	none	n/a	non flam	916	none established	none specified		CCD		BIMN	
	Bromoform	0.01g	2.887	..	none	5mm	non flam	1147	0.5ppm	n/a	530	CCD		BCDQW	
	Carbon Tetrachloride	0.06%	1.5967	5.3	none	91mm	non flam	2800	5ppm	300ppm	21.4-200	CD	JGH	ABCFGHNO	
	Chlorobenzene	0.01g	1.1058	3.9	84	8.8mm	1.3% 9.6%	2910	75ppm	2,400ppm	0.21-60	BCD	CIF	BCFIKLMNOPOR	
	Chloroethane	0.6g	0.8978	2.2	-58	1.36atm	3.8% 15.4%		1000ppm	20,000ppm		BCD		BFIKQWP	
	2-Chloroethylvinyl Ether	insoluble	1.0475	3.7	80	30mm	..	250	none established	none specified		BCD		KIM	
	Chloroform	0.8g	1.4832	4.12	none	160mm	non flam	800	10ppm	1,000ppm	50-307 fatigue (>4096)	CD		BCEGIELMN	
	Chloromethane	0.7%	0.9159	1.8	32	50atm	7.6% 19%		50ppm	10,000ppm	10-100 no odor (500-1000)	BCD	DHJ	ABCEFGIKJL OR	
	Dibromochloromethane	insoluble	2.451	..	..	..	..	848	none established	none specified		BCD		BFIKQWPO	
	1,1-Dichloroethane (DCE)	0.1g	1.1757	8.4	22	162mm	6% 16%	725	100ppm	4,000ppm	5ppm	BCD		ABHIKNO	

HAZARDOUS PROPERTY INFORMATION (continued)

CHECK IF PRESENT	MATERIAL	WATER SOLUBILITY (a)	SPECIFIC GRAVITY	VAPOR DENSITY	FLASH POINT OF	VAPOR PRESSURE (e)	LEL UEL	LD 50 mg/kg	TLV-TWA (g)	IDLH LEVEL	COOR THRESHOLD OR WARNING CONCENTRATION	HAZARD (j)	DERMAL (k) TOXICITY	ACQJIE (l) EXPOSURE SYMPTOMS
	1,2-Dichloroethane	0.8%	1.2554	3.4	55	87mm	6.2% 16%	670	10ppm	1,000ppm	6ppm	BCDG		BCFGX MWG
	1,1-Dichloroethylene (DCE)	2250mg/l 877of	--	3.4	3	591mm	7.3% 16.0%	200	5ppm	none specified		BCD		BTM
	Trans-1,2-Dichloroethylene	slightly soluble	1.2565	--	36	400mm	9.7% 12.8%		none established	none specified	.0043mg/L	BCD		ABFILOO
	1,2-Dichloropropane	0.26%	1.1583	3.9	60	40mm	3.4% 14.5%	1900	75ppm	2,000ppm	50	BCD		ABGKIMWG
	Cis-1,3-Dichloropropane	insoluble	1.2	3.8	63	28mm	5% 14.5%		1ppm	none specified		BCD		ABGKLMWP
	Trans-1,3-Dichloropropane	insoluble	1.2	3.8	63	28mm	5% 14.5%		1ppm	none specified		BCD		ABGKLMWP
	Ethylbenzene	0.015g	0.867	3.7	59	7.1mm	1.0% 6.7%	3500	100ppm	2,000ppm		BCD	CIF	ABFKILMWPOR
	Methylene Chloride	slightly soluble	1.335	2.9	none	350mm	12% unavailable	167	100ppm	5,000ppm	25-320 (200)	GED	CIF	BCIKLMPR
	1,1,2,2-Tetrachloroethane	0.19%	1.5953	5.8	none	5mm	non flam		1ppm	150ppm	3-5	CD		ABCFKILMWO
	Tetrachloroethylene	0.15g/ml	1.6227	5.8	none	15.8mm	non flam	8850	50ppm	500ppm	4.68% 50 (160-690)	CD		ACFKILMP
	1,1,1-Trichloroethane (TCA)	0.7g	1.3390	4.6	none	100mm	8.0% 10.5%	10300	350ppm	1,000ppm	20-400 (500-1000)	BCED		ABEFKILMOP
	1,1,2-Trichloroethane	0.45	1.4397	4.6	none	19mm	6% 15.5%	1140	10ppm	500ppm	-0-	C		BEFGHILMOP Q
	Trichloroethylene (TCE)	0.1%	1.4642	4.5	90d	58mm	12.5% 90%	4920	50ppm	1,000ppm	21.4-400	BC		BEKLMOPQ
	Trichlorofluoromethane	0.11g	1.494	--	none	0.91atm	non flam		1000ppm	10,000ppm	135-209	CD		BFKLO
	Toluene	0.05g	0.866	3.2	40	22mm	1.3% 7.1%	5000	100ppm	2,000ppm	0.17-40 fatigue (300-400)	BC	BHE	BEFKILMOPQ

## HAZARDOUS PROPERTY INFORMATION

### EXPLANATIONS AND FOOTNOTES

Water solubility is expressed in different terms in different references. Many references use the term "insoluble" for materials that will not readily mix with water, such as gasoline. However, most of these materials are water soluble at the part per million or part per billion level. Gasoline, for example, is insoluble in the gross sense, and will be found as a discreet layer on top of the ground water. But certain gasoline constituents, such as benzene, toluene, and xylene will also be found in solution in the ground water at the part per million or part per billion level.

- a. Water solubility expressed as 0.2g means 0.2 grams per 100 grams water at 20°C.
- b. Solubility of metals depends on the compound in which they are present.
- c. Several chlorinated hydrocarbons exhibit no flash point in conventional sense, but will burn in presence of high energy ignition source or will form explosive mixtures at temperatures above 200°F.
- d. Practically non-flammable under standard conditions.
- e. Expressed as mm Hg under standard conditions.
- f. Explosive concentrations of airborne dust can occur in confined areas.
- g. Values for Threshold Limit Value-Time Weighted Average (TLV-TWA) are OSHA Permissible Exposure Limits except where noted in h and i.
- h. TLV-TWA adopted by the American Conference of Governmental Industrial Hygienists, which is lower than the OSHA PEL.
- i. TLV-TWA recommended by the national Institute for Occupational Safety and Health (NIOSH). A TLV or PEL has not been adopted by ACGIH or OSHA.
- j.
  - A - corrosive
  - B - flammable
  - C - toxic
  - D - volatile
  - E - reactive
  - F - radioactive
  - G - carcinogen
  - H - infectious

Dermal Toxicity data is summarized in the following three categories:

#### Skin Penetration

- A - negligible penetration (solid-polar)
- + B - slight penetration (solid-nonpolar)
- ++ C - moderate penetration (liquid/solid-nonpolar)
- +++ D - high penetration (gas/liquid-nonpolar)

#### Systemic Potency

- E - slight hazard - LD<sub>50</sub> = 500-15,000 mg/kg  
lethal dose for 70 kg man = 1 pint-1 quart
- F - moderate hazard - LD<sub>50</sub> = 50-500 mg/kg  
lethal dose for 70 kg man = 1 ounce-1 pint
- G - extreme hazard - LD<sub>50</sub> = 10-50 mg/kg  
lethal dose for 70 kg/man = drops to 20 ml

#### Local Potency

- H - slight - reddening of skin
- I - moderate - irritation/inflammation of skin
- J - extreme - tissue destruction/necrosis

#### Acute Exposure Symptoms

- A - abdominal pain
- B - central nervous system depression
- C - comatose
- D - convulsions
- E - confusion
- F - dizziness
- G - diarrhea
- H - drowsiness
- I - eye irritation
- J - fever
- K - headache
- L - nausea
- M - respiratory system irritation
- N - skin irritation
- O - tremors
- P - unconsciousness
- Q - vomiting
- R - weakness



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

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		<b>FOR LOCAL AGENCY USE ONLY</b> I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE.		
REPORT DATE 1st 01 30 1 09 10		CASE #		SIGNED _____ DATE _____		
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <b>DAVE SADOFF</b>		PHONE (415) 633-0336		SIGNATURE _____	
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER _____		COMPANY OR AGENCY NAME <b>CROSBY &amp; OVERTON, INC.</b>			
ADDRESS <b>8430 AMELIA STREET OAKLAND CITY CA STATE 94621 ZIP</b>						
RESPONSIBLE PARTY	NAME <b>MS. ANN MARIE HOLLAND</b>		CONTACT PERSON <b>SAME</b>		PHONE (415) 481-2288	
	ADDRESS <b>16301 E. 14TH STREET SAN LEANDRO CITY CA STATE 94578 ZIP</b>					
SITE LOCATION	FACILITY NAME (IF APPLICABLE) <b>JACK HOLLAND SR., OIL CORP.</b>		OPERATOR _____		PHONE (415) 481-2288	
	ADDRESS <b>16301 E. 14TH STREET SAN LEANDRO CITY CA COUNTY 94578 ZIP</b> CROSS STREET <b>163 RD</b>					
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME <b>ALAMEDA COUNTY HEALTH</b>		CONTACT PERSON <b>LARRY SETO</b>		PHONE (415) 271-4320	
	REGIONAL BOARD _____				PHONE ( )	
SUBSTANCES INVOLVED	(1) NAME <b>DIESEL</b>				QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN	
	(2) _____				<input type="checkbox"/> UNKNOWN	
DISCOVERY/ABATEMENT	DATE DISCOVERED 01 14 20 1 18 10		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input checked="" type="checkbox"/> OTHER <b>SITE INSPECTION</b>			
	DATE DISCHARGE BEGAN _____		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> OTHER _____			
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, DATE _____					
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER _____		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER _____			
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)					
CURRENT STATUS	CHECK ONE ONLY <input checked="" type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY					
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input type="checkbox"/> OTHER (OT) _____					
COMMENTS						