



# PORT OF OAKLAND

MAR 22 2002

March 19, 2002

Barney Chan  
Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502

**Re: Preliminary Site Characterization Results  
2225 and 2277 Seventh Street, Port of Oakland,  
Oakland, California**

Dear Mr. Chan,

As a follow up to our telephone discussion with you on March 8, 2002, and to address Alameda County Health Care Services Agency (County) requirements regarding the 2225 and 2277 Seventh Street sites (the Sites) in Oakland, we are transmitting preliminary results from recent site characterization activities performed by Innovative Technical Solutions, Inc. (ITSI). ITSI performed this investigation on behalf of the Port of Oakland (Port) in accordance with the County-approved Workplan for Additional Site Characterization dated November 8, 2001.

We understand that you need these preliminary results to evaluate the upcoming investigation by Iris Environmental (Iris) that will support the design of the future Facilities Support Services Center (FFSSC).

If we do not hear from you during the week, we will assume that the County concurs with the investigation approach. If you have any questions concerning these preliminary data, please contact me at (510) 627-1134.

Sincerely,

Jeffrey L. Rubin, CPSS, REA  
Associate Port Environmental Scientist

cc: Chris Alger, Iris Environmental  
Rachel Hess, ITSI

Table 1

**Analytical Results for Soil Samples  
2225 and 2277 Seventh Street, Oakland**

Sample ID	Date	Soil Results (in mg/kg)							
		Gasoline <sup>(1)</sup>	Diesel <sup>(2)</sup>	Motor Oil <sup>(2)</sup>	Benzene	Toluene	Ethylbenzene	Xylene(s)	MTBE
PZ-A 1.0-1.5'	2/11/02	< 1.0	4.9	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-A 3.0-3.5'	2/11/02	< 1.0	2.2	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-A 5.0-5.5'	2/11/02	< 1.0	< 1.0	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-B 1.0-1.5'	2/12/02	< 1.0	120	360	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-B 3.0-3.5'	2/12/02	< 1.0	2.2	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-B 7.0-7.5'	2/12/02	< 1.0	< 1.0	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-C 1.0-1.5'	2/12/02	< 1.0	4.7	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-C 3.0-3.5'	2/12/02	< 1.0	3.1	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-C 5.5-6.0'	2/11/02	74	2300	< 2500	< 0.62	< 0.62	< 0.62	1.3	< 0.62
PZ-D 1.0-1.5'	2/12/02	< 1.0	3.2	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-D 3.0-3.5'	2/12/02	< 1.0	22	62	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-D 5.0-5.5'	2/11/02	140	7700	< 5000	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62
PZ-E 1.0-1.5'	2/13/02	< 1.0	19	< 50	< 0.0051	< 0.0051	< 0.0051	< 0.0051	< 0.0051
PZ-E 3.0-3.5'	2/13/02	< 1.0	17	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-E 5.5-6.0'	2/13/02	280	20000	< 5000	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62
PZ-F 1.0-1.5'	2/12/02	4.8	41	< 250	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-F 3.0-3.5'	2/12/02	< 1.0	2.1	< 50	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
PZ-F 5.0-5.5'	2/11/02	1.0	83	170	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050

mg/kg: milligrams per kilogram

Table 1 (Continued)

**Analytical Results for Groundwater Samples  
2225 and 2277 Seventh Street, Oakland**

Sample ID	Date	Groundwater Results (in µg/L)							
		Gasoline <sup>(1)</sup>	Diesel <sup>(2)</sup>	Motor Oil <sup>(2)</sup>	Benzene	Toluene	Ethylbenzene	Xylene(s)	MTBE
PZ-A	2/19/02	65	700	< 500	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0
DUP-A	2/19/02	700	1200	< 500	70	< 0.50	3.7	8.8	< 5.0
PZ-B	2/19/02	< 50	570	670	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0
PZ-C	2/19/02	510	2200	< 500	73	< 0.50	2.5	7.3	< 5.0
PZ-D	2/19/02	760	2500	< 500	49	2.6	21	12	< 5.0
PZ-E	2/19/02	2,000	4400	< 500	380	< 2.5	11	5.2	< 25
PZ-F	2/19/02	1,000	10000	< 10000	20	< 5.0	9.4	10	< 50
Trip Blank	2/19/02	< 50	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 5.0
Historical Data									
MW-8A	10/5/01	370	760	< 280	< 1.2	< 1.2	< 1.2	< 1.2	< 6.2
Trip Blank	10/5/01	< 50	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5

µg/L: micrograms per liter

1-Gasoline was analyzed using EPA Method 8015B (purgeables)

2- Diesel and motor oil were analyzed using EPA Method 8015B with silica gel cleanup

Table 2

*FP samples observed*

**Results of Product Analysis (by Friedman and Bruya, Inc.)  
2225 and 2277 7<sup>th</sup> Street, Oakland**

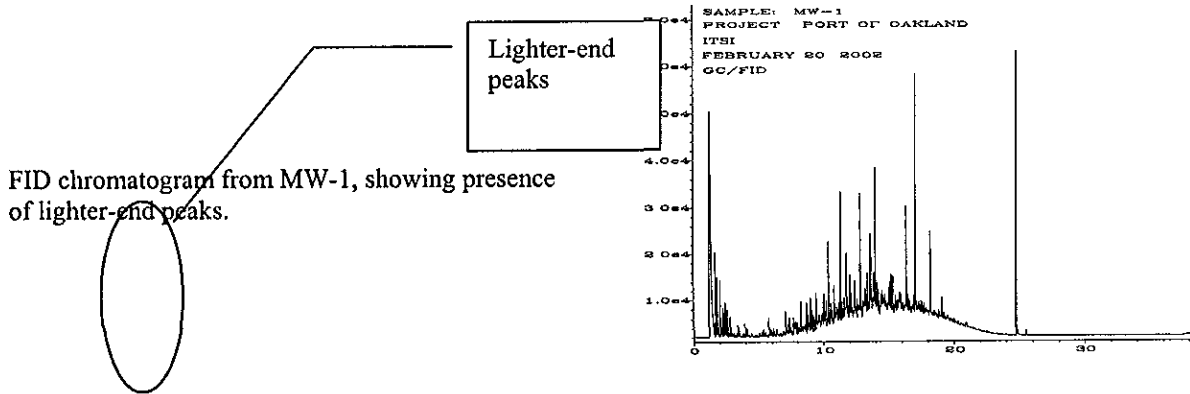
Sample ID	Primary Findings	Other Findings
MW-1 (2277 7 <sup>th</sup> Street)	Medium boiling, C <sub>9</sub> to C <sub>24</sub> Fuel present has undergone substantial biological degradation	710 µg/g (ppm) Benzene 280 µg/g Ethylbenzene
MW-3 (2277 7 <sup>th</sup> Street)	Medium boiling, C <sub>9</sub> to C <sub>24</sub> Fuel present has undergone substantial biological degradation	
PZ-F (CPT-14)	Medium boiling, C <sub>9</sub> to C <sub>24</sub> Fuel present has undergone substantial biological degradation	
CPT-14	Medium boiling, C <sub>9</sub> to C <sub>24</sub> Fuel present has undergone substantial biological degradation	
CPT-19	Medium boiling, C <sub>9</sub> to C <sub>24</sub> Majority of fuel present has NOT undergone substantial biological degradation	180 µg/g Ethylbenzene 150 µg/g Xylenes
CPT-20	Medium boiling, C <sub>9</sub> to C <sub>24</sub> Majority of the fuel present has undergone substantial biological degradation	140 µg/g Ethylbenzene 710 µg/g Xylenes
CPT-30	Medium boiling, C <sub>9</sub> to C <sub>24</sub> A mixture of degraded and relatively undegraded fuel is likely present	170 µg/g Ethylbenzene 280 µg/g Xylenes
Wash Rack Sump (CJRS) <i>CPT-30 approx.</i>	Medium-high boiling, C <sub>13</sub> to C <sub>34</sub>	

µg/g: micrograms per gram

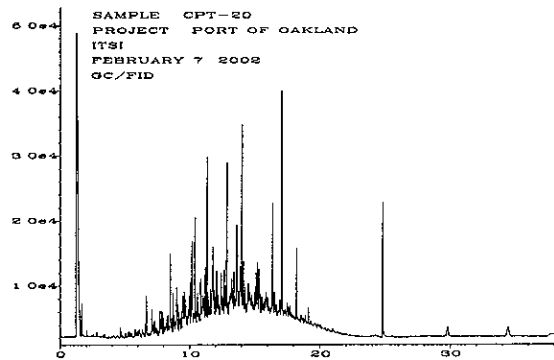
ppm: parts per million

Table 3

**Chromatograms from Product Samples  
2225 and 2277 7<sup>th</sup> Street, Oakland**

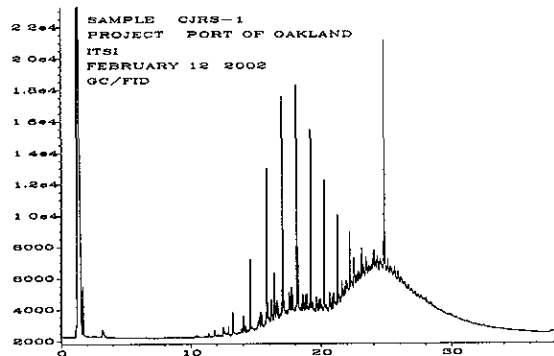


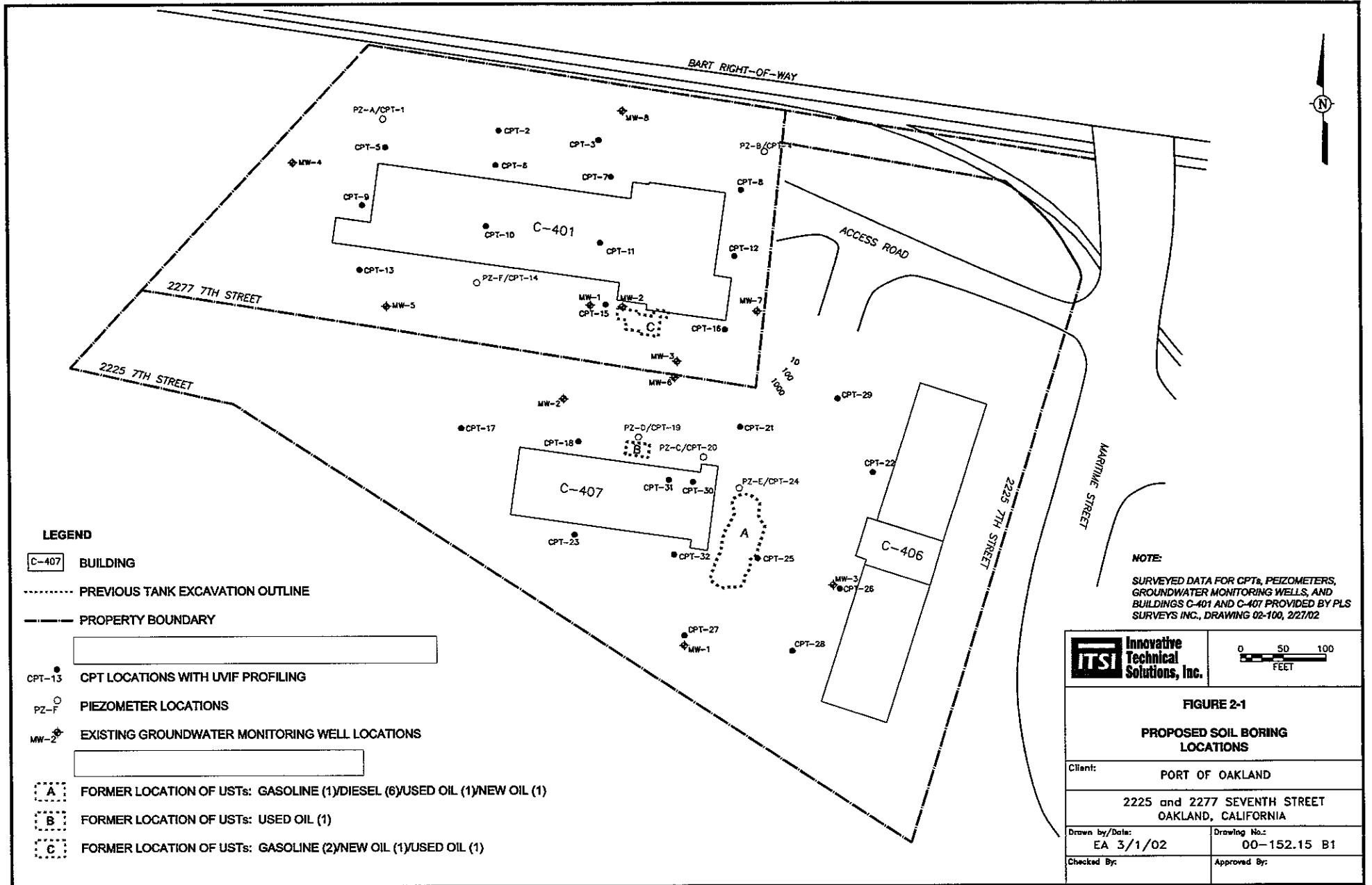
FID chromatogram from CPT-20, typical of the product samples from the majority of the CPTs and Monitoring Wells.



FID chromatogram from product sample collected from Wash Rack Sump.

Note different pattern with shift of peaks to the right, indicating higher boiling point compounds.





**LEGEND**

- C-407 BUILDING
- PREVIOUS TANK EXCAVATION OUTLINE
- PROPERTY BOUNDARY
- CPT-13 CPT LOCATIONS WITH UVIF PROFILING
- PZ-F PIEZOMETER LOCATIONS
- MW-2 EXISTING GROUNDWATER MONITORING WELL LOCATIONS
- A FORMER LOCATION OF USTs: GASOLINE (1)/DIESEL (6)/USED OIL (1)/NEW OIL (1)
- B FORMER LOCATION OF USTs: USED OIL (1)
- C FORMER LOCATION OF USTs: GASOLINE (2)/NEW OIL (1)/USED OIL (1)

**NOTE:**  
 SURVEYED DATA FOR CPTs, PIEZOMETERS,  
 GROUNDWATER MONITORING WELLS, AND  
 BUILDINGS C-401 AND C-407 PROVIDED BY PLS  
 SURVEYS INC., DRAWING 02-100, 2/27/02

<b>ITSI</b>	Innovative Technical Solutions, Inc.	0 50 100 FEET
<b>FIGURE 2-1 PROPOSED SOIL BORING LOCATIONS</b>		
Client: PORT OF OAKLAND		
2225 and 2277 SEVENTH STREET OAKLAND, CALIFORNIA		
Drawn by/Date: EA 3/1/02	Drawing No.: 00-152.15 B1	
Checked By:	Approved By:	

3/25/02 Spoke w/ J Rubin - confirmed that Table 2 results were those locations where PP found at site - all material is diesel range. ITSI fairly comfortable w/ limits of FP. The addnl investigation will further define the plume. They are performing the investigations this week, do not need any written letter from an office. I don't have any other questions or requirements.

