INTERNATIONAL TECHNOLOGY CORPORATION

Pacific Environmental Group, Inc.
1601 Civic Center Drive
Suite 202
Santa Clara, CA 95050

June 28, 1988

ATTN: John Adams

Following are the results of analyses on the samples described below.

Project:	330-06.03, Hesperian
Lab Numbers:	S8-06-166-01 thru S8-06-166-06
Number of Samples:	6
Sample Type:	Soil
Date Received:	6/17/88
Analyses Requested:	Low Boiling Hydrocarbons, Oil & Grease, Polychlorinated Biphenyl Mixtures

The method of analysis for polychlorinated biphenyl mixtures in soils involves extracting the samples with acetone and partitioning an aliquot of the acetone with 5% ethyl ether in hexane. A portion of the resulting extracts were cleaned-up with acid and Florisil. Final detection was by gas chromatography using an electron capture detector.

Any of the following mixtures of polychlorinated biphenyls would have been detected had they been present at or above their limit of detection: Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260, 1262 and 1268.

The method of analysis for oil and grease in soil is taken from EPA Method 3550 and Standard Methods Section 503E. The sample is extracted with repeated portions of 50:50 methylene chloride:acetone using a horn-type sonicator. The extract is dried with sodium sulfate and treated with silica gel to remove polar compounds. Following evaporation, oil and grease is determined gravimetrically.

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The method of analysis for low boiling hydrocarbons is taken from EPA Methods 8015, 8020 and 5030. The sample is examined using the purge and trap technique. Final detection is by gas chromatography using a flame ionization detector as well as a photoionization detector.

The result for total low boiling hydrocarbons is calculated as gasoline and includes benzene, toluene, ethyl benzene and xylenes.

Fred Rouse

FR/gg

3 Pages Following - Tables of Results

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ND = None Detected

Lab Number	Sample Identification	Results: Polychlorinated Biphenyls — Aroclor Mixtures	Results: Polychlorinated Biphenyls — Parts per Million (dry soil basis)
S8-06-166-01	W05-SW 9'	None	ND
S8-06-166-02	W05-NE 9'	None	ND
Detection Limit			0.1

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ND = None Detected

Results

Lab Number	Sample Identification	Parts per Million - dry soil basis Oil & Grease
S8-06-166-01	W05-SW 9'	6,100.
S8-06-166-02	W05-NE 9'	13,000.
Detection Limit		10.

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Summary of Results

ND = None Detected

Lab Number	Sample Identification	Parts per Million - dry soil basis: Low Boiling Hydrocarbons (Gasoline)	Benzene	Toluene	Ethyl benzene and xylenes
S8-06-166-03	E1-N 12.5'	60.	0.2	ND	2.
Detection Limit		10.	0.1	0.3	1.
S8-06-166-04	E2-S 12'	370.	1.3	11.	45.
Detection Limit		50.	0.5	1.	4.
S8-06-166-05	E2-N 12'	330.	1.6	6.	48.
Detection Limit		60.	0.6	1.	5.
S8-06-166-06	E3-S 12'	2,800.	6.	23.	120.
Detection Limit		300.	3.	6.	20.