



**INTERNATIONAL
TECHNOLOGY
CORPORATION**

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

October 19, 1988

ATTN: John Adams

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

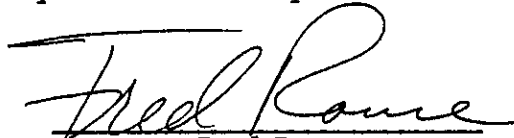
Project: 330-40.01
Lab Numbers: S8-09-280-01 and S8-09-280-02
Number of Samples: 2
Sample Type: Soil
Date Received: 9/29/88
Analyses Requested: Volatile Organics, High Boiling Hydrocarbons,
Oil & Grease, Low Boiling Hydrocarbons

The method of analysis for volatile organics is taken from E.P.A. Methods 624 and 8240. Water samples and low-level soil samples are analyzed directly using the purge and trap technique. Medium-level soil samples are extracted with methanol and a portion of the extract is analyzed using the purge and trap technique. Final detection is by gas chromatography/mass spectrometry.

The method of analysis for high boiling hydrocarbons in soil involves extracting the sample with acetone. The mixture is partitioned with hexane and the resulting extract is examined by gas chromatography using a flame ionization detector.

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.

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

4 Pages Following - Tables of Results

Santa Clara Valley Laboratory

2055 Junction Avenue • San Jose, California 95131 • 408-943-1540

IT Corporation is a wholly owned subsidiary of International Technology Corporation

IT/Santa Clara Valley to
Pacific Environmental Group, Inc.
ATTN: John Adams

October 19, 1988
Page 1 of 4

Project: 330-40.01

Lab Number: S8-09-280-01
Sample Identification: SP-1

Results

Total Petroleum Hydrocarbons	Parts per Million - dry soil basis		
	Detected	Detection Limit	Calculated as
Low Boiling Hydrocarbons	40.*	10.	Gasoline
Benzene	None	0.1	--
Toluene	None	0.2	--
Ethyl benzene	0.2	0.2	--
Xylenes	1.7	0.6	--
High Boiling Hydrocarbons	None	300.	Diesel
High Boiling Hydrocarbons	7,300.	2,000.	Oil
High Boiling Hydrocarbons	160.	20.	Stoddard Solvent
Oil and Grease	5,600.	10.	--

*Chromatographic pattern of compounds detected and calculated as gasoline does not match that of the gasoline standard.

IT/Santa Clara Valley to
Pacific Environmental Group, Inc.
ATTN: John Adams

October 19, 1988
Page 2 of 4

Project: 330-40.01

Sample Identification: SP-1

Lab Number: S8-09-280-01

Sample Date: 9/29/88

Date Analysis Completed: 10/12/88

ND = None Detected

Results
Volatile Organic Compounds
Milligrams per Kilogram

Compound	Detected	Detection Limit
Chloromethane	ND	1.25
Bromomethane	ND	1.25
Vinyl Chloride	ND	1.25
Chloroethane	ND	1.25
Dichloromethane	ND	0.625
Acetone	ND	1.25
Carbon Disulfide	ND	0.625
1,1-Dichloroethene	ND	0.625
1,1-Dichloroethane	ND	0.625
1,2-Dichloroethene (Total)	ND	0.625
Chloroform	ND	0.625
1,2-Dichloroethane	ND	0.625
Methyl ethyl ketone (2-Butanone)	ND	1.25
1,1,1-Trichloroethane	ND	0.625
Carbon Tetrachloride	ND	0.625
Vinyl Acetate	ND	1.25
Bromodichloromethane	ND	0.625
1,2-Dicloropropane	ND	0.625
Trans-1,3-Dichloropropene	ND	0.625
Trichloroethene	ND	0.625
Chlorodibromomethane	ND	0.625
1,1,2-Trichloroethane	ND	0.625
Benzene	ND	0.625
cis-1,3-Dichloropropene	ND	0.625
2-Chloroethyl vinyl ether	ND	1.25
Tribromoethane (Bromoform)	ND	0.625
2-Hexanone	ND	1.25
4-Methyl-2-pentanone	ND	1.25
Tetrachloroethene	ND	0.625
1,1,2,2-Tetrachloroethane	ND	0.625
Toluene	0.76	0.625
Chlorobenzene	ND	0.625
Ethylbenzene	ND	0.625
Styrene	ND	0.625
Xylenes (Total)	ND	0.625

IT/Santa Clara Valley to
 Pacific Environmental Group, Inc.
 ATTN: John Adams

October 19, 1988
 Page 3 of 4

Project: 330-40.01

Lab Number: S8-09-280-02
 Sample Identification: SP-2

Results

Total Petroleum Hydrocarbons	Parts per Million - dry soil basis		
	Detected	Detection Limit	Calculated as
Low Boiling Hydrocarbons	50.*	10.	Gasoline
Benzene	None	0.1	--
Toluene	None	0.2	--
Ethyl benzene	0.2	0.2	--
Xylenes	1.8	0.6	--
High Boiling Hydrocarbons	None	300.	Diesel
High Boiling Hydrocarbons	4,800.	2,000.	Oil
High Boiling Hydrocarbons	110.	20.	Stoddard Solvent
Oil and Grease	3,300.	10.	--

*Chromatographic pattern of compounds detected and calculated as gasoline does not match that of the gasoline standard.

IT/Santa Clara Valley to
Pacific Environmental Group, Inc.
ATTN: John Adams

October 19, 1988
Page 4 of 4

Project: 330-40.01

Sample Identification: SP-2

Lab Number: S8-09-280-02

Sample Date: 9/29/88

Date Analysis Completed: 10/12/88

ND = None Detected

Results
Volatile Organic Compounds
Milligrams per Kilogram

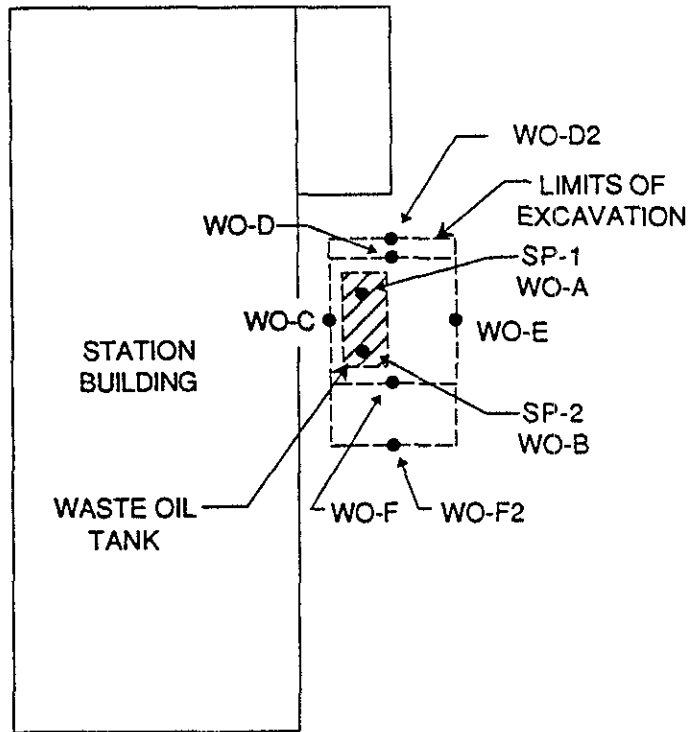
Compound	Detected	Detection Limit
Chloromethane	ND	0.05
Bromomethane	ND	0.05
Vinyl Chloride	ND	0.05
Chloroethane	ND	0.05
Dichloromethane	ND	0.5
Acetone	ND	0.5
Carbon Disulfide	ND	0.025
1,1-Dichloroethene	ND	0.025
1,1-Dichloroethane	ND	0.025
1,2-Dichloroethene (Total)	ND	0.025
Chloroform	ND	0.025
1,2-Dichloroethane	ND	0.025
Methyl ethyl ketone (2-Butanone)	ND	0.05
1,1,1-Trichloroethane	ND	0.025
Carbon Tetrachloride	ND	0.025
Vinyl Acetate	ND	0.05
Bromodichloromethane	ND	0.025
1,2-Dichloropropane	ND	0.025
Trans-1,3-Dichloropropene	ND	0.025
Trichloroethene	ND	0.025
Chlorodibromomethane	ND	0.025
1,1,2-Trichloroethane	ND	0.025
Benzene	ND	0.025
cis-1,3-Dichloropropene	ND	0.025
2-Chloroethyl vinyl ether	ND	0.05
Tribromoethane (Bromoform)	ND	0.025
2-Hexanone	ND	0.05
4-Methyl-2-pentanone	ND	0.025
Tetrachloroethene	ND	0.025
1,1,2,2-Tetrachloroethane	ND	0.025
Toluene	ND	0.025
Chlorobenzene	ND	0.025
Ethylbenzene	ND	0.025
Styrene	ND	0.025
Xylenes (Total)	0.1	0.025

106th AVENUE



McARTHUR BOULEVARD

PRODUCT ISLANDS



NOT TO SCALE



PACIFIC ENVIRONMENTAL GROUP, INC.

ARCO STATION #276
10600 McArthur Boulevard
Oakland, California

SITE MAP

FIGURE:
1
PROJECT:
330-40.01