

CALCOAST ANALYTICAL

Materials Chemistry

Certified by
California Department of Health Services
City of Los Angeles, Dept. of Building & Safety

May 25, 1999

Geo - Logic
1140 - 5th Avenue
Crockett, CA 94525

Attn: Mr. Joel Greger

Post-it* Fax Note	7671	Date	5/28/99	# of pages	10
To	East Saery	From	J. Greger		
Co./Dept	Alameda Co	Co.	Geo Logic		
Phone #	510 5676783	Phone #	510 7876867		
Fax #	3379335	Fax #	510 7871457		

Ref: Lab File No.: 0520-7AN-99(b)

1. SAMPLES:

Seven (7) soil cores;

Project: Arco Station, 15101 Freedom Blvd, San Leandro
 Project No: 99 - 444
 Samples: A. P1 (2.5')
 B. P2 (2.5')
 C. P3 (2.5')
 D. P4 (3')
 E. P5 (2.5')
 F. P6 (2.5')
 G. P7 (2.5')

Piping samples

Collected: May 20, 1999
Received: May 20, 1999

2. ANALYSIS REQUIRED:

- A. Total Petroleum Hydrocarbons - gasoline (TPH-g) by Gas Chromatography (GC).
- B. Benzene, Toluene, Ethylbenzene and Xylene (BTEX) by GC.
- C. Methyl-tert-butyl ether (MTBE) by GC.
- D. MTBE, on Sample G only, by Gas Chromatography / Mass Spectrometry (GC/MS).

COATINGS • BUILDING MATERIALS • HAZARDOUS WASTE
SPECTROSCOPY • CHROMATOGRAPHY • MICROSCOPY

TELEPHONE (510) 652-2979
FAX (510) 652-3085

P.O. BOX 8702 • EMERYVILLE, CA 94662
4072 WATTS STREET • EMERYVILLE, CA 94608

3. METHODS OF ANALYSIS:

- A. EPA Method 8015; SW-846
- B. EPA Method 8020; SW-846
- C. EPA Method 8020, SW-846
- D. EPA Method 8260; SW-846

4. RESULTS:

A. TPH - gasoline

SAMPLE	TPH - gasoline (mg/kg)
A. P1 (2.5')	5.2
B. P2 (2.5')	1.4
C. P3 (2.5')	0.76
D. P4 (3')	0.88
E. P5 (2.5')	1.1
F. P6 (2.5')	0.90
G. P7 (2.5')	11

Method Blank/Detection Limit = < 0.1 mg/kg (none detected)
 Mean Spike Recovery = 105%

B. BTEX

Sample	Concentration (mg/kg)			
	Benzene	Toluene	Ethylbenzene	Xylene
A. P1 (2.5')	0.015	0.009	0.019	0.021
B. P2 (2.5')	<0.005(ND)	<0.005(ND)	0.011	0.020
C. P3 (2.5')	<0.005(ND)	<0.005(ND)	<0.005(ND)	0.017
D. P4 (3')	<0.005(ND)	<0.005(ND)	0.010	0.019
E. P5 (2.5')	<0.005(ND)	<0.005(ND)	0.016	0.023
F. P6 (2.5')	<0.005(ND)	<0.005(ND)	0.022	0.018
G. P7 (2.5')	0.037	0.018	0.042	0.044
Method Blank	<0.005(ND)	<0.005(ND)	<0.005(ND)	<0.005(ND)
Mean Spike Recovery	95%	97%	109%	108%

C. MTBE - GC

SAMPLE	MTBE (mg/kg)
A. P1 (2.5')	0.009
B. P2 (2.5')	<0.005(ND)
C. P3 (2.5')	<0.005(ND)
D. P4 (3')	<0.005(ND)
E. P5 (2.5')	<0.005(ND)
F. P6 (2.5')	<0.005(ND)
G. P7 (2.5')	0.020

Method Blank/Detection Limit = <0.005mg/kg (none detected)

D. MTBE - GC/MS

SAMPLE	MTBE (mg/kg)
G. P7 (2.5')	0.031

Method Blank/Detection Limit = <0.005mg/kg (none detected)



Ronald W. Shrewsbury
Analytical Chemist

ALL SAMPLES SUBMITTED FOR TESTING WILL BE HELD 30 DAYS FROM REPORT DATE AT WHICH TIME THEY WILL BE RETURNED TO CLIENT OR DESTROYED. CLIENT WILL BE RESPONSIBLE FOR ALL SHIPPING, HANDLING, AND DISPOSAL CHARGES. SAMPLES WILL BE STORED UPON WRITTEN INSTRUCTIONS AND FEE ARRANGEMENTS.

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CALCOAST ANALYTICAL

Materials Chemistry

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*California Department of Health Services
City of Los Angeles, Dept. of Building & Safety*

May 26, 1999

Geo - Logic
1140 - 5th Avenue
Crockett, CA 94525

Attn: Mr. Joel Greger

Ref: Lab File No.: 0521-8AVI-99(b)

1. SAMPLES:

Eight (8) soil cores;

Project: Arco Station, 15101 Freedom Blvd, San Leandro
Project No: 99 - 444
Samples: A. P8 (3.5')
B. P9 (3.5')
C. P10 (3.5')
D. P11 (3')
E. P12 (3.5')
F. P13 (3')
G. P14 (3')
H. P15 (3.5')

Collected: May 21, 1999
Received: May 21, 1999

2. ANALYSIS REQUIRED:

- A. Total Petroleum Hydrocarbons - gasoline (TPH-g) by Gas Chromatography (GC).
- B. Benzene, Toluene, Ethylbenzene and Xylene (BTEX) by GC.
- C. Methyl-tert-butyl ether (MTBE) by GC.
- D. MTBE, on Sample E only, by Gas Chromatography / Mass Spectrometry (GC/MS).

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3. METHODS OF ANALYSIS:

- A. EPA Method 8015; SW-846
- B. EPA Method 8020; SW-846
- C. EPA Method 8020; SW-846
- D. EPA Method 8260; SW-846

4. RESULTS:

A. TPH - gasoline

SAMPLE	TPH - gasoline (mg/kg)
A. P8 (3.5')	6.1
B. P9 (3.5')	13
C. P10 (3.5')	7.2
D. P11 (3')	48
E. P12 (3.5')	370
F. P13 (3')	20
G. P14 (3')	2.9
H. P15 (3.5')	13

Method Blank/Detection Limit = < 0.1 mg/kg (none detected)
 Mean Spike Recovery = 94%

B. BTEX

Sample	Concentration (mg/kg)			
	Benzene	Toluene	Ethylbenzene	Xylene
A. P8 (3.5')	0.041	0.040	0.052	0.062
B. P9 (3.5')	0.090	0.077	0.094	0.12
C. P10 (3.5')	0.038	0.044	0.061	0.058
D. P11 (3')	0.42	0.27	0.38	0.56
E. P12 (3.5')	2.6	1.4	3.0	2.9
F. P13 (3')	0.14	0.096	0.15	0.22
G. P14 (3')	<0.005(ND)	<0.005(ND)	0.017	0.030
H. P15 (3.5')	0.079	0.049	0.099	0.16
Method Blank	<0.005(ND)	<0.005(ND)	<0.005(ND)	<0.005(ND)
Mean Spike Recovery	109%	106%	110%	105%

C. MTBE - GC

SAMPLE	MTBE mg/kg
A. P8 (3.5')	0.011
B. P9 (3.5')	0.052
C. P10 (3.5')	< 0.005 (ND)
D. P11 (3')	0.28
E. P12 (3.5')	0.93
F. P13 (3')	0.17
G. P14 (3')	<0.005(ND)
H. P15 (3.5')	0.066

Method Blank/Detection Limit = <0.005mg/kg (none detected)

D. MTBE - GC/MS

SAMPLE	MTBE mg/kg
E. P12 (3.5')	0.70

Method Blank/Detection Limit = <0.005mg/kg (none detected)



Ronald W. Shrewsbury
Analytical Chemist

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May 25, 1999

Geo - Logic
1140 - 5th Avenue
Crockett, CA 94525

Attn: Mr. Joel Greger

Ref: Lab File No.: 0520-7A/N-99(a)

1. SAMPLES:

Seven (7) soil cores;

Project: Arco Station, 15101 Freedom Blvd, San Leandro
Project No: 99 - 444
Samples: A. T1W (12.5')
B. T1W (13.5')
C. T1E (12.5')
D. T2W (14')
E. T2E (12.5')
F. T3W (14')
G. T3E (14')

Collected: May 20, 1999

Received: May 20, 1999

2. ANALYSIS REQUIRED:

- A. Total Petroleum Hydrocarbons - gasoline (TPH-g) by Gas Chromatography (GC).
- B. Benzene, Toluene, Ethylbenzene and Xylene (BTEX) by GC
- C. Methyl-tert-butyl ether (MTBE) by GC.
- D. MTBE, on Sample B only, by Gas Chromatography / Mass Spectrometry (GC/MS).

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3. METHODS OF ANALYSIS:

- A. EPA Method 8015; SW-846
- B. EPA Method 8020; SW-846
- C. EPA Method 8020; SW-846
- D. EPA Method 8260; SW-846

4. RESULTS:

A. TPH - gasoline

SAMPLE	TPH - gasoline (mg/kg)
A. T1W (12.5')	1,700
B. T1W (13.5')	3,900
C. T1E (12.5')	2,000
D. T2W (14')	1,300
E. T2E (12.5')	1,800
F. T3W (14')	990
G. T3F (14')	960

Method Blank/Detection Limit = < 0.1 mg/kg (none detected)
 Mean Spike Recovery = 108%

B. BTEX

Sample	Concentration (mg/kg)			
	Benzene	Toluene	Ethylbenzene	Xylene
A. T1W (12.5')	11	13	22	19
B. T1W (13.5')	28	34	34	41
C. T1E (12.5')	15	12	19	20
D. T2W (14')	7.7	6.5	10	13
E. T2E (12.5')	20	17	23	26
F. T3W (14')	5.9	5.7	6.4	6.8
G. T3E (14')	5.0	4.3	5.2	5.1
Method Blank	<0.005(ND)	<0.005(ND)	<0.005(ND)	<0.005(ND)
Mean Spike Recovery	101%	107%	106%	93%

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CALCOAST

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Ref: Lab File No.: 0520-7A/N-99()

C. MTBE - GC

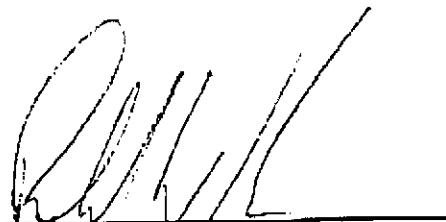
SAMPLE	MTBE (mg/kg)
A. T1W (12.5')	0.22
B. T1W (13.5')	0.71
C. T1E (12.5')	0.28
D. T2W (14')	0.14
E. T2E (12.5')	0.19
F. T3W (14')	< 0.005 (ND)
G. T3E (14')	< 0.005 (ND)

Method Blank/Detection Limit = <0.005mg/kg (none detected)

D. MTBE - GC/MS

SAMPLE	MTBE (mg/kg)
B. T1W (13.5')	0.58

Method Blank/Detection Limit = <0.005mg/kg (none detected)

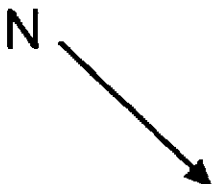
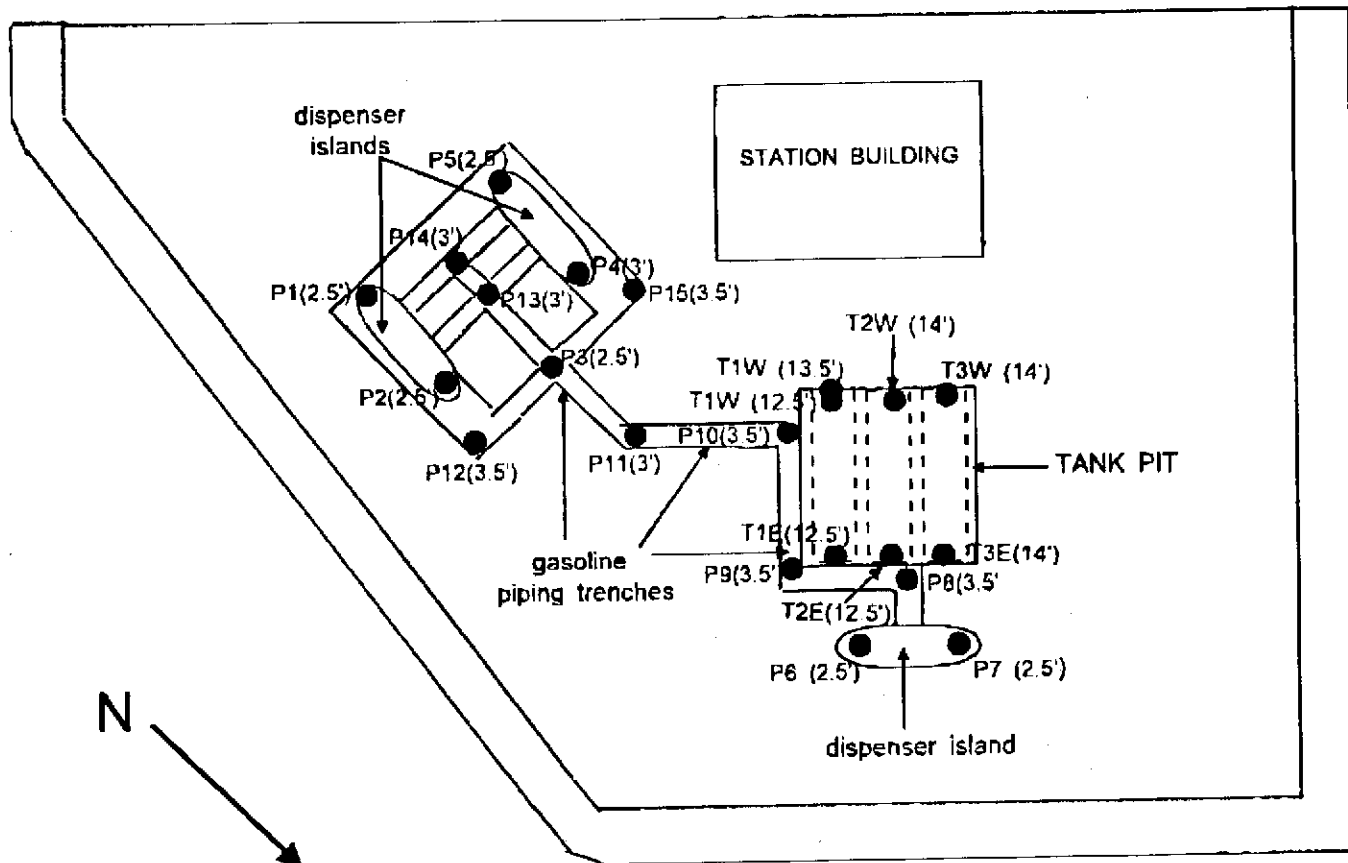


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Analytical Chemist

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151st Street



LEGEND

● Sample (depth)

Samples collected on May 20 and May 21, 1999

SCALE: 1" = 30'

ARCO STATION
 15101 FREEDOM BLVD.
 SAN LEANDRO, CALIFORNIA

Figure No:

1

Date: MAY 21, 1999

Drawn By: JG/Geo-Logic

Sample Location Map