Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-547-5420** 

### TRANSMITTAL LETTER

FROM:	J. Michael Asport		DATE:	June	19, 1992	
	Kevin Tinsley Alameda County Department of Environmental Health Hazardous Materials Division 80 Swan Way, Room 200 Oakland, California 94621-1426		VIA:		First Class M Fax page UPS (Surface Federal Expension	es e)
SUBJE	WIC #204-0072-0502 2160 Otis Drive Alameda, California				JOB: 81-4	29-01
<u>AS</u> :	We discussed on the telepho You requested We believe you may be inte X Is required	rested			<del>-</del>	
<u>we ar</u>	E SENDING: X Enclosed Under Sepa	arate Cover V	ia			
Quarte	rly status report for the subject site	e				
FOR:	Your information X Your use Your review & comments Return to you	PLEASE:	R	eturn v	s material vithin 2 weel ledge receipt	ss.
MESS A	GE: Please call if you have any q	questions.				
	Kurt Miller, Shell Oil Company, P. Tom Callaghan, California Region 2101 Webster Street, Suite 500, Oak	al Water Qual	ity Cont	rol Boa	ornia 94520- ırd, San Fran	9998 cisco Bay,

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Fax: 510-547-5043 Phone: 510-547-5420

June 9, 1992

Kevin Tinsley
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621-1426

Re: Shell Service Station WIC #204-0072-0502 2160 Otis Drive Alameda, California WA Job #81-429-01

Dear Mr. Tinsley:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1). This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the second quarter 1992 and proposed work for the third quarter 1992.

#### Second Quarter 1992 Activities:

- EMCON Associates (EMCON) of San Jose, California measured depths to ground water and collected ground water samples from the three site wells. EMCON's report describing these activities and analytic results for ground water is included as Attachment A.
- Weiss Associates (WA) used EMCON's ground water elevation calculations to prepare a ground water elevation contour map (Figure 2).

#### Anticipated Third Quarter 1992 Activities:

WA will submit a report presenting the results of the third quarter 1992 ground water sampling and ground water depth measurements. The report will include tabulated chemical

Kevin Tinsley June 9, 1992

analytic results and a ground water elevation contour map.

Please call if you have any questions.



Sincerely, Weiss Associates

J. Michael Asport C Technical Assistant

/Joseph P. Theisen, C.E.G. Senior Hydrogeologist

JMA/JPT:jma

E:\ALL\SHELL\400\429QMMY2.WP

Attachments:

Figures

A - EMCON's Ground Water Monitoring Report

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, CA 94520

Tom Callaghan, Water Quality Control Board, San Francisco Bay Region, 2101 Webster

Street, Oakland, CA 94612



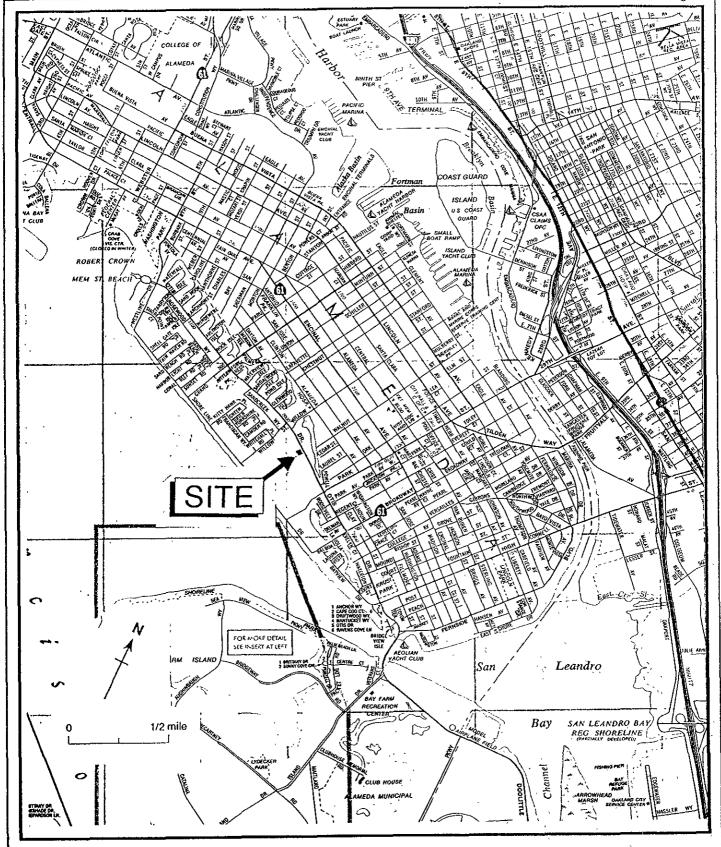


Figure 1. Site Location Map - Shell Service Station, WIC# 204-0072-0502, 2160 Otis Drive, Alameda, CA



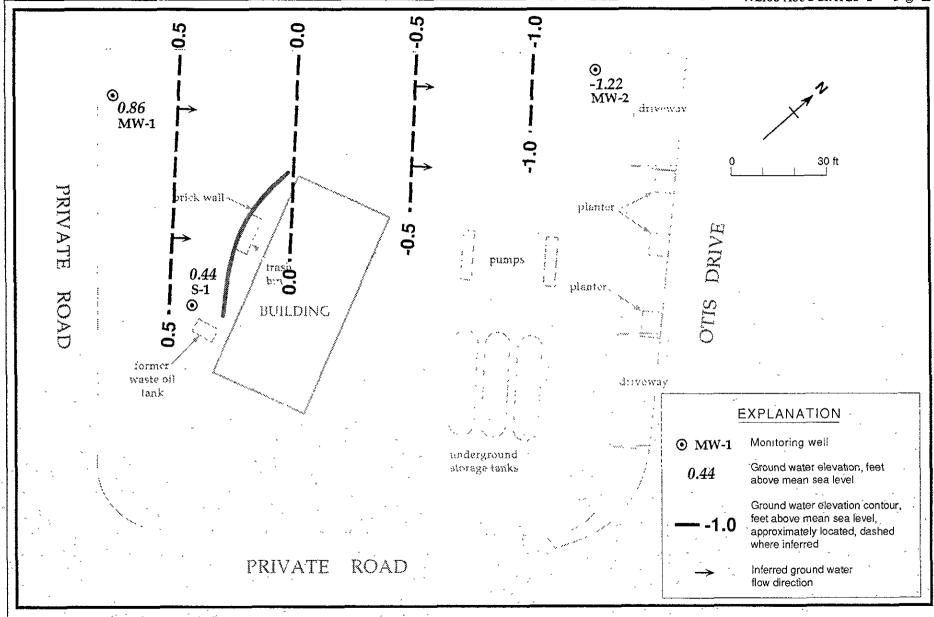


Figure 2. Ground Water Elevation Contours - April 23, 1992 - Shell Service Station WIC #204-0072-0502, 2160 Otis Drive, Alameda, California



## ATTACHMENT A GROUND WATER MONITORING REPORT AND ANALYTIC REPORT



May 19, 1992 Project: G67-30.01 WIC#: 204-0072-0502

Mr. David Elias Weiss Associates 5500 Shellmound Street Emeryville, California 94608-2411

Re: Second quarter 1992 ground-water monitoring report, Shell Oil

Company, 2160 Otis Drive, Alameda, California

Dear Mr. Elias:

This letter presents the results of the second quarter 1992 ground-water monitoring event for the Shell Oil Company (Shell) site located at 2160 Otis Drive, Alameda, California (figure 1). Second quarter monitoring was conducted on April 23, 1992. The site is monitored quarterly.

#### **GROUND-WATER LEVEL SURVEY**

A water-level survey preceded the purging and sampling of the monitoring wells. The wells included in the survey are identified in figure 2 (supplied by Weiss Associates). During the survey, wells MW-1, MW-2, and S-1 were measured for depth to water, floating product thickness, and total depth. Depth to water and floating product thickness were measured to the nearest 0.01 foot with an oil/water interface probe. No floating product was observed in any wells. Total depth was measured to the nearest 0.1 foot. Results of the second quarter water-level survey, and available data from four previous surveys, are summarized in table 1.

#### SAMPLING AND ANALYSIS

Ground-water samples were collected from wells MW-1, MW-2, and S-1 on April 23, 1992. Prior to sample collection, the wells were purged with dedicated polyvinyl chloride bailers. During the purging operation, ground water was monitored for pH, electrical conductivity, and temperature as a function of volume of water removed. Purging continued until these parameters were stable and a minimum of three casing volumes of ground water were removed. Well S-1 was evacuated to dryness before three casing volumes were removed. The well was allowed to recharge for up to 24 hours. Samples were collected after the well had recharged to a level sufficient for sample collection. Field measurements from second quarter monitoring, and available measurements from four previous monitoring events, are summarized in table 1. Purge water from the

G673001B.DOC



Mr. David Elias May 19, 1992 Page 2

monitoring wells was contained in a 55-gallon drum. The drum was identified with a Shell-approved label and secured for on-site storage.

Ground-water samples were collected with a Teflon® bailer, labeled, placed on ice, and transported to a Shell-approved and state-certified analytical laboratory for analysis. Shell chain-of-custody documents accompanied all samples to the laboratory.

All equipment that was placed down a well or that came in contact with ground water was steam cleaned with deionized water prior to use at each well.

Quality control samples for second quarter monitoring included a trip blank. All water samples collected during second quarter monitoring were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Additional ground-water samples collected from well MW-2 were analyzed for halogenated volatile organic compounds (VOCs) by U.S. Environmental Protection Agency method 601.

#### ANALYTICAL RESULTS

Analytical results for the second quarter 1992 monitoring event, and available results from four previous monitoring events, are summarized in table 2 (TPH-g and BTEX) and table 3 (VOCs). The original certified analytical report and a copy of the final chain-of-custody document are attached.

If you have any questions, please call.

Very truly yours,

**EMCON Associates** 

David Larsen

**Environmental Sampling Coordinator** 

and Sauce

Orrin Childs

**Environmental Sampling Supervisor** 

DL/OC:dl

Mr. David Elias May 19, 1992 Page 3

Attachments: Table 1 - Monitoring well field measurement data
Table 2 - Summary of analytical results (TPH-g and BTEX)
Table 3 - Summary of analytical results (VOCs)
Figure 1 - Site location map
Figure 2 - Monitoring well locations
Certified analytical report
Chain-of-custody document

#### Table 1 Monitoring Well Field Measurement Data Second Quarter 1992

Shell Station: 2160 Otis Drive Alameda, California

WIC #: 204-0072-0502

Date: 05/19/92 Project Number: G67-30.01

Well Desig- nation	Water Level Field Date	TOC Elevation	Depth to Water	Ground- water Elevation	Total Well Depth	Floating Product Thickness	Water Sample Field Date	рН	Electrical Conductivity	Temperature	Turbidity
		(ft-MSL)	(feet)	(ft-MSL)	(feet)	(feet)		(std. units)	(micromhos/cm)	(degrees F)	(UTM)
MW-1	04/09/91	6.00	4.96	1.04	NR	NR	04/09/91	NR	NR	NR	NR
MW-1	07/10/91	6.00	5.52	0.48	NR	NR	07/10/91	NR NR	NR	NR.	NR
MW-1	10/09/91	6.00	5.70	0.30	NR	NR	10/09/91	NR	NR	NR.	NR
MW-1	01/24/92	6.00	5.51	0.49	16.3	ND	01/24/92	7.27	13000	62.8	>200
MW-1	04/23/92	6.00	5.14	0.86	16.3	ND	04/23/92	7.49	12540	66.3	49.5
MW-2	04/09/91	3.29	4.09	-0.80	NR	NR	04/09/91	NR	NR	NR	NR
MW-2	07/10/91	3.29	4.66	-1.37	NR	NR	07/10/91	NR	NR	NR	NR
MW-2	10/09/91	3.29	4.81	-1.52	NR	NR	10/09/91	NR	NR	NR	NR
MW-2	01/24/92	3.29	4.66	-1.37	17.0	ND	01/24/92	6.39	>20000	60.4	>200
MW-2	04/23/92	3.29	4.51	-1.22	17.0	ND	04/23/92	7.31	9490	66.0	12.6
s-1	04/09/91	5.10	4.20	0.90	NR	NR	04/09/91	NR	NR	NR	NR
S-1	07/10/91	5.10	4.42	88.0	NR	NR.	07/10/91	NR NR	NR	NR	NR NR
S-1	10/09/91	5.10	4.87	0.23	NR	NR	10/09/91	NR	NR NR	NR	N.R
s-1	01/24/92	5.10	4.90	0.20	18.7	ND	01/24/92	8.99	374	62.7	>200
S-1	04/23/92	5,10	4.66	0.44	18.8	ND	04/23/92	8.92	355	68,4	79.8

TOC = top of casing

ft-MSL = elevation in feet, relative to mean sea level

std. units = standard pH units

micromhos/cm = micromhos per centimeter

degrees F = degrees Fahrenheit

NTU = nephelometric turbidity units

NR = not reported; data not available

ND = none detected

# Table 2 Summary of Analytical Results Second Quarter 1992 milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 2160 Otis Drive Alameda, California

WIC #: 204-0072-0502

Date: 05/19/92 Project Number: G67-30.01

Sample Desig- nation	Water Sample Field Date	TPH-g	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-d	
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
สพ - 1	04/09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA NA	
W-1	07/10/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
MW-1	10/09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
MW-1	01/24/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
MW-1	04/23/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
MW-2	04/09/91	NA	0.021	<0.005	<0.005	<0.005	<0.05	
MW -2	07/10/91	0.05+	0.0084	<0.0005	<0.0005	<0.0005	<0.05	
MW-2	10/09/91	0.15	0.022	<0.0005	<0.0005	<0.0005	NA	
MW-2	01/24/92	<0.05	0.0048	<0.0005	<0.0005	<0.0005	NA	
MW-2	04/23/92	<0.05	0.0023	<0.0005	0.0015	<0.0005	NA	
s-1	04/09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
S-1	07/10/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
S-1	10/09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
s-1	01/24/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
s-1	04/23/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	, NA	
TB	04/09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
ТВ	07/10/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
TB	10/09/91	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
TB	01/24/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	
TB	04/23/92	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	NA	

TPH-g = total petroleum hydrocarbons as gasoline TPH-d = total petroleum hydrocarbons as diesel

NA = not analyzed

<sup>+ =</sup> compounds detected are not characteristic of the standard gasoline chromatographic pattern

#### Table 3 Summary of Analytical Results Volatile Organic Compounds by EPA Method 601 Second Quarter 1992

milligrams per liter (mg/l) or parts per million (ppm)

Shell Station: 2160 Otis Drive

Alameda, California

WIC #: 204-0072-0502

Date: 05/19/92 Project Number: G67-30.01

Sample Desig- nation	Water Sample Field Date	Benzene	TCE	TCA	PCE	Chloroform	cis- 1,2-DCE	trans- 1,2-DCE	1,2-DCA	Carbon Disulfide	Vinyl Chloride	
		(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	
MW - 2 MW - 2 MW - 2 MW - 2 MW - 2	04/09/91 07/10/91 10/09/91 01/24/92 04/23/92	NR 0.0092* NR NA NA	NR NR 0.0019 0.0025 <0.003	NR NR NR <0.0005 <0.003	NR 0.0069* 0.0128 0.0070 0.003	NR 0.043* 0.0074 0.0190 <0.003	0.064a NR 0.054 0.0160 0.084	0.064a NR 0.016 0.0043 0.018	NR NR NR 0.0006 <0.003	NR 0.014* NR NA NA	NR NR 0.0017 <0.0005 <0.003	

TCE = Trichloroethene

TCA = 1,1,1-Trichloroethane

PCE = Tetrachloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene

trans-1,2-DCE = trans-1,2-Dichloroethene

1,2-DCA = 1,2-Dichloroethane

NR = not reported; data not available

a = reported as total 1,2-DCE to include both cis-1,2-DCE and trans-1,2-DCE

\* = analyzed by EPA method 8240

NA = not analyzed

es MA

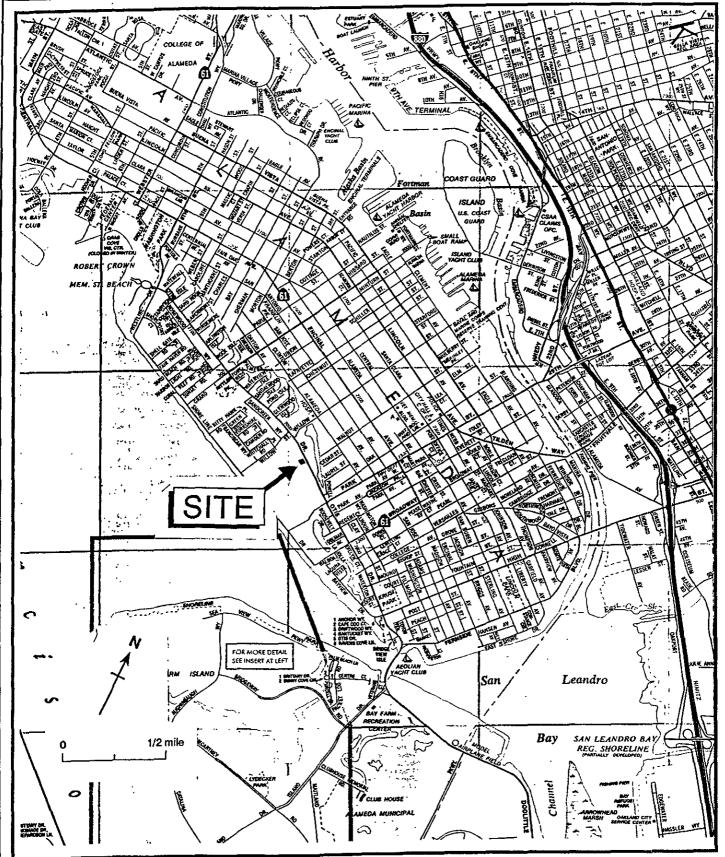


Figure 1. Site Location Map
Shell Service Station WIC #204-0072-0502
2160 Otis Drive, Alameda, California

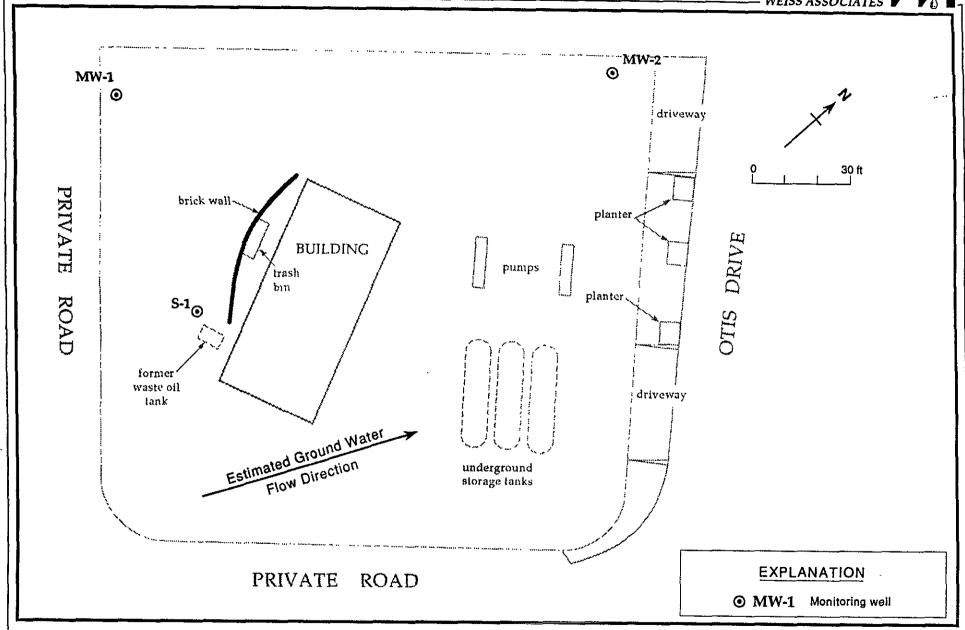


Figure 2. Monitoring Well Locations Shell Service Station WIC #204-0072-0502 2160 Otis Drive, Alameda, California



ITAS Cerritos W.O.#: C2-04-212

Shell Site: 2160 Otis Drive, Alameda

WIC No.: 204-0072-0502 Shell Engineer: Kurt Miller

Shell Consultant: EMCON Associates / David Larsen

#### ANALYTICAL SUMMARY

Sample: M	. W	-1
-----------	-----	----

Analyte	Result (MG/L)	Detection Limit (MG/L)
Benzene	ND	0.0005
Toluene	ND	0.0005
Ethylbenzene	ND	0.0005
Xylenes (total)	ND	0.0005
Gasoline	ND	0.05

#### Sample: S-1

Analyte	Result (MG/L)	Detection Limit (MG/L)		
Benzene	ND	0.0005		
Toluene	ND	0.0005		
Ethylbenzene	ND	0.0005		
Xylenes (total)	ND	0.0005		
Gasoline	ND	0.05		

#### Sample: MW-2

Analyte	Result (MG/L)	Detection Limit (MG/L)
Benzene	0.0023	0.0005
Toluene	ND	0.0005
Ethylbenzene	0.0015	0.0005
Xylenes (total)	ND	0.0005
Gasoline	ND	0.05

**EMCON ASSOCIATES** 

Sample: Trip Blank MAY 0 8 1992

Analyte Result (MG/L) Detection Limit (MG/L) RECEIVED

ND 0.0005 Benzene Toluene ND 0.0005 0.0005 Ethylbenzene ND 0.0005 Xylenes (total) ND Gasoline 0.05 ND Regional Office

17605 Fabrica Way • Cerritos, California 90701 • 213-921-9831 or 714-523-9200

## QC SUMMARY

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)
Benzene	113	114
Toluene	95	97
Ethylbenzene	102	104
Xylenes (total)	103	104
Gasoline	142	132
Method Blank 1 5/1/92		
Analyte	Result (MG/L)	Detection Limit (MG/L)
Benzene	ND	0.0005
Toluene	ND	0.0005
Ethylbenzene	ND	0.0005
Xylenes (total)	ND	0.0005
Gasoline	ND	0.05
Method Blank 2 5/2/92		
Analyte	Result (MG/L)	Detection Limit (MG/L)
Benzene	ND	0.0005
Toluene	ND	0.0005
Ethylbenzene	ND	0.0005
Xylenes (total)	ND	0.0005
Gasoline	ND	0.05
Method Blank 3 5/2/92		
Analyte	Result (MG/L)	Detection Limit (MG/L)
Benzene	ND	0.0005
Toluene	ND	0.0005
Ethylbenzene	ND	0.0005
Xylenes (total)	ND	0.0005
Gasoline	ND	0.05

EMCON ASSOCIATES

MAY 0 8 1992

RECEIVED



# ANALYTICAL SERVICES

### CERTIFICATE OF ANALYSIS

EMCON ASSOCIATES
1938 JUNCTION AVE
SAN JOSE CA 95131
DAVID LARSEN

Date: 05/07/92

Work Order: C2-04-212

Project/P.O.#: 204-0072-0502

SHELL\_NORTH

This is the Certificate of Analysis for the following samples:

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

Date Received: 04/25/92

275000

Number of Samples: 9
Sample Type: LIQUID

Shell Site: 2160 Otis Drive, Alameda

WIC No.: 204-0072-0502

Shell Engineer: Kurt Miller

Shell Consultant: EMCON Associates / David Larsen

Work Description: Quarterly Monitoring

Class Type: 5461

samples were labeled as follows:

SAMPLE IDENTIFICATION	LABORATORY #
MW-1	C2-04-212-01
S-1	C2-04-212-02
MW-2	C2-04-212-03
TRIP BLANK	C2-04-212-04
MATRIX SPIKE	C2-04-212-05
MATRIX SPIKE DUP	C2-04-212-06
METHOD BLANK 1	C2-04-212-07

Reviewed and Approved:

Marla Miller

Project Manager

**EMCON** ASSOCIATES

MAY 0 8 1992

RECEIVED

Company: EMCON ASSOCIATES

Date: 05/07/92

Client work ID: 2160 OTIS DRIVE, ALAMEDA 275000

IT ANALYTICAL SERVICES

CERRITOS, CA

Work Order: C2~04-212

samples, continued from above:

SAMPLE IDENTIFICATION	LABORATORY #
METHOD BLANK 2	C2-04-212-08
METHOD BLANK 3	C2-04-212-09

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

IT ANALYTICAL SERVICES

CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: MW-1

LAB SAMPLE ID: C204212-01A SAMPLE DATE: 04/23/92 ANALYSIS DATE: 05/01/92

EXTRACTION DATE:

MG/L: Detection Results in

275000

Limit

ND 0.05 TPHC AS UNLEADED GASOLINE

surrogate % Recovery A, A, A-TRIFLUOROTOLUENE 94

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'\*' Surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.

'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA 275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: MW-1

LAB SAMPLE ID: C204212-01A SAMPLE DATE: 04/23/92 ANALYSIS DATE: 04/28/92 CONFIRMATION DATE:

	Results in	MG/L:	Detection Limit
BENZENE		ND	0.0005
TOLUENE		ND	0.0005
ETHYLBENZENE		ND	0.0005
XYLENES (TOTAL)		ND	0.0005

Surrogate	ક્ર	Recovery	Liı	nits	3		
A, A, A-TRIFLUOROTOLUENE		99	75		-	125	5
1-CHLORO-2-FLUOROBENZEN	E				-		

- 'NA' indicates not applicable
- '\*' Surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA 275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: S-1

LAB SAMPLE ID: C204212-02A

SAMPLE DATE: **04/23/92**ANALYSIS DATE: **05/01/92** 

EXTRACTION DATE:

Results in MG/L: Detection

Limit

TPHC AS UNLEADED GASOLINE ND 0.05

Surrogate % Recovery A,A,A-TRIFLUOROTOLUENE 94

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

\*\* Surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.

'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA 275000

CERRITOS, CA

Work Order: C2-04-212

IT ANALYTICAL SERVICES

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: S-1

CONFIRMATION DATE:

LAB SAMPLE ID: C204212-02A SAMPLE DATE: 04/23/92 ANALYSIS DATE: 04/28/92

	Results in	MG/L:	Detection Limit
BENZENE		ND	0.0005
TOLUENE		ND	0.0005
ETHYLBENZENE		ND	0.0005
XYLENES (TOTAL)		ND	0.0005

Surrogate	용	Recovery	Limi	.ts	
A, A, A-TRIFLUOROTOLUENE		99	75		125
1-CHLORO-2-FLUOROBENZEN	Ξ			-	

- 'NA' indicates not applicable
- '\*' Surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

CERRITOS, CA

275000

Work Order: C2-04-212

IT ANALYTICAL SERVICES

TEST NAME: HALOGENATED VOL. ORGANICS

SAMPLE ID: MW-2

LAB SAMPLE ID: C204212-03D SAMPLE DATE: 04/23/92 ANALYSIS DATE: 05/04/92 CONFIRMATION DATE: 05/04/92

UNITS: MG/L

INSTRUMENT ID: GC23

Compounds	Results	Detection Limit	n Compounds	Results	Detection Limit
Chloromethane	ND	0.003	Bromodichloromethane	ND	0.003
Vinyl chloride	ND	0.003	2-Chloroethylvinyl ether	ND	0.003
Bromomethane	ND	0.003	trans-1,3-Dichloropropene	ND	0.003
Chloroethane	ND	0.003	cis-1,3-Dichloropropene	ND	0.003
Trichlorofluoromethane	ND	0.003	1,1,2-Trichloroethane	ND	0.003
1,1-Dichloroethene	ND	0.003	Tetrachloroethene	0.003	0.003
Methylene chloride	ND	0.075	Dibromochloromethane	ND	0.003
trans-1,2-Dichloroethene	0.018	0.003	Chlorobenzene	ND	0.003
1,1-Dichloroethane	ND	0.003	Bromoform	ND	0.003
Chloroform	ND	0.003	1,1,2,2-Tetrachloroethane	ND	0.003
1,1,1-Trichloroethane	ND	0.003	1,3-Dichlorobenzene	ND	0.003
Carbon tetrachloride	ND	0.003	1,4-Dichlorobenzene	ИD	0.003
1,2-Dichloroethane	ND	0.003	1,2-Dichlorobenzene	ND	0.003
Trichloroethene	ND	0.003	Dichlorodifluoromethane	ND	0.003
1,2-Dichloropropane	ND	0.003	cis-1,2-Dichloroethene	0.084	0.003

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

IT ANALYTICAL SERVICES

CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: MW-2

LAB SAMPLE ID: C204212-03A SAMPLE DATE: 04/23/92 ANALYSIS DATE: 05/02/92

EXTRACTION DATE:

Results in MG/L: Detection

275000

Limit

ND 0.05 TPHC AS UNLEADED GASOLINE

Surrogate % Recovery 93 A, A, A-TRIFLUOROTOLUENE

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'\*' surrogate recovery is outside QC limit.

surrogate is diluted out. 'D'

indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: MW-2

LAB SAMPLE ID: C204212-03A SAMPLE DATE: 04/23/92 ANALYSIS DATE: 04/28/92 CONFIRMATION DATE:

	Results	in	MG/L:	Detection Limit
BENZENE			0.0023	0.0005
TOLUENE			ND	0.0005
ETHYLBENZENE			0.0015	0.0005
XYLENES (TOTAL)			ИD	0.0005

Surrogate % Recovery Limits
A,A,A-TRIFLUOROTOLUENE 105 75 - 125
1-CHLORO-2-FLUOROBENZENE -

- 'NA' indicates not applicable
- '\*' surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: TRIP BLANK

LAB SAMPLE ID: C204212-04A

SAMPLE DATE: 04/23/92 ANALYSIS DATE: 05/02/92

EXTRACTION DATE:

Results in MG/L: Detection

Limit

TPHC AS UNLEADED GASOLINE ND 0.05

Surrogate % Recovery A,A,A-TRIFLUOROTOLUENE 95

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'\*' surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.

'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

682-1-89

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: TRIP BLANK
LAB SAMPLE ID: C204212-04A
SAMPLE DATE: 04/23/92
ANALYSIS DATE: 04/28/92
CONFIRMATION DATE:

	Results in	MG/L:	Detection Limit
BENZENE		ND	0.0005
TOLUENE		ND	0.0005
ETHYLBENZENE		ND	0.0005
XYLENES (TOTAL)		ND	0.0005

275000

Surrogate	윰	Recovery	Limi	ts	
A, A, A-TRIFLUOROTOLUENE		98	75	-	125
1-CHT.ORO-2-FLUOROBENZENE	2				

- 'NA' indicates not applicable
- '\*' Surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: HALOGENATED VOL. ORGANICS

SAMPLE ID: MATRIX SPIKE
LAB SAMPLE ID: C204212-05A
SAMPLE DATE: not spec
ANALYSIS DATE: 05/02/92

CONFIRMATION DATE:

UNITS: %REC

INSTRUMENT ID: GC23

Compounds	Results	Detection Limit	Compounds	Results	Detection Limit
Chloromethane		- 1	Bromodichloromethane	_	_
Vinyl chloride	•••	- :	2-Chloroethylvinyl ether	_	-
Bromomethane	_	- 1	trans-1,3-Dichloropropene	_	_
Chloroethane	_	(	cis-1,3-Dichloropropene	-	_
Trichlorofluoromethane	_		1,1,2-Trichloroethane	-	-
1,1-Dichloroethene	_	- !	Tetrachloroethene	128	
Methylene chloride	_	- 1	Dibromochloromethane	-	-
trans-1,2-Dichloroethene	_	6	Chlorobenzene	-	_
1,1-Dichloroethane	-	- :	Bromoform	***	•••
Chloroform	118	•••	1,1,2,2-Tetrachloroethane	-	
1,1,1-Trichloroethane	120	-	1,3-Dichlorobenzene	-	
Carbon tetrachloride	120	•••	1,4-Dichlorobenzene	-	-
1,2-Dichloroethane	_	_	1,2-Dichlorobenzene		****
Trichloroethene	117	3	Dichlorodifluoromethane	-	_
1,2-Dichloropropane	-	-	cis-1,2-Dichloroethene	-	_

275000

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.
'NA' indicates not applicable

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: MATRIX SPIKE
LAB SAMPLE ID: C204212-05A
SAMPLE DATE: not spec
ANALYSIS DATE: 05/02/92
EXTRACTION DATE:

Results in %REC: Detection

275000

Limit

TPHC AS UNLEADED GASOLINE 142 -

Surrogate % Recovery A,A,A-TRIFLUOROTOLUENE 96

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'\*' surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.

'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: MATRIX SPIKE
LAB SAMPLE ID: C204212-05A
SAMPLE DATE: not spec
ANALYSIS DATE: 04/30/92
CONFIRMATION DATE:

	Results in	%REC:	Detection Limit
BENZENE		113	•••
TOLUENE		95	-
ETHYLBENZENE		102	-
XYLENES (TOTAL)		103	-

Surrogate	용	Recovery	Limi	.ts	
A, A, A-TRIFLUOROTOLUENE		102	75	_	125
1-CHLORO-2-FLUOROBENZEN	F!				

- 'NA' indicates not applicable
- '\*' Surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA 275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: HALOGENATED VOL. ORGANICS

SAMPLE ID: MATRIX SPIKE DUP LAB SAMPLE ID: C204212-06A SAMPLE DATE: not spec ANALYSIS DATE: 05/02/92

CONFIRMATION DATE:

UNITS: %REC

INSTRUMENT ID: GC23

Compounds	Results	Detection Limit	Compounds	Results	Detection Limit
Chloromethane	-		Bromodichloromethane		-
Vinyl chloride	-	-	2-Chloroethylvinyl ether		-
Bromomethane	_		trans-1,3-Dichloropropene	_	_
Chloroethane	-	_	cis-1,3-Dichloropropene	-	
Trichlorofluoromethane	_	-	1,1,2-Trichloroethane		-
1,1-Dichloroethene		_	Tetrachloroethene	124	
Methylene chloride	_	_	Dibromochloromethane	_	_
trans-1,2-Dichloroethene	_		Chlorobenzene	-	-
1,1-Dichloroethane		-	Bromoform	-	-
Chloroform	115		1,1,2,2-Tetrachloroethane	-	•
1,1,1-Trichloroethane	117	_	1,3-Dichlorobenzene	_	-
Carbon tetrachloride	119	_	1,4-Dichlorobenzene	-	_
1,2-Dichloroethane	-	_	1,2-Dichlorobenzene		_
Trichloroethene	113	_	Dichlorodifluoromethane	-	
1,2-Dichloropropane	-	-	cis-1,2-Dichloroethene	-	-

Surrogate % Recovery 1-Chloro-2-Fluorobenzene 102

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.
'NA' indicates not applicable

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: MATRIX SPIKE DUP LAB SAMPLE ID: C204212-06A SAMPLE DATE: not spec

ANALYSIS DATE: 05/02/92

EXTRACTION DATE:

Results in %REC: Detection

Limit

TPHC AS UNLEADED GASOLINE

132

% Recovery surrogate A, A, A-TRIFLUOROTOLUENE 95

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'\*' surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.

indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

IT ANALYTICAL SERVICES

CERRITOS, CA

Work Order: C2-04-212

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: MATRIX SPIKE DUP LAB SAMPLE ID: C204212-06A SAMPLE DATE: not spec ANALYSIS DATE: 04/30/92

CONFIRMATION DATE:

	Results	in	%REC:	Detection Limit
BENZENE			114	~
TOLUENE			97	-
ETHYLBENZENE			104	-
XYLENES (TOTAL)			104	-

275000

Surrogate	8	Recovery	Limi		
A,A,A-TRIFLUOROTOLUENE		103	75		125
1-CHLORO-2-FLUOROBENZENI	E			-	

- 'NA' indicates not applicable
- '\*' Surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: HALOGENATED VOL. ORGANICS

SAMPLE ID: METHOD BLANK 1 LAB SAMPLE ID: C204212-07A SAMPLE DATE: not spec ANALYSIS DATE: 05/04/92 CONFIRMATION DATE:

UNITS: MG/L

INSTRUMENT ID: GC23

Compounds	Results	Detection Limit	n Compounds	Results	Detection Limit
Chloromethane	ND	0.0005	Bromodichloromethane	ND	0.0005
Vinyl chloride	ND	0.0005	2-Chloroethylvinyl ether	ND	0.0005
Bromomethane	ИD	0.0005	trans-1,3-Dichloropropene	ИD	0.0005
Chloroethane	ND	0.0005	cis-1,3-Dichloropropene	ND	0.0005
Trichlorofluoromethane	ND	0.0005	1,1,2-Trichloroethane	ND	0.0005
1,1-Dichloroethene	ND	0.0005	Tetrachloroethene	ND	0.0005
Methylene chloride	ND	0.015	Dibromochloromethane	ND	0.0005
trans-1,2-Dichloroethene	ND	0.0005	Chlorobenzene	ND	0.0005
1,1-Dichloroethane	ND	0.0005	Bromoform	ND	0.0005
Chloroform	ND	0.0005	1,1,2,2-Tetrachloroethane	ND	0.0005
1,1,1-Trichloroethane	ND	0.0005	1,3-Dichlorobenzene	ND	0.0005
Carbon tetrachloride	ND	0.0005	1,4-Dichlorobenzene	ND	0.0005
1,2-Dichloroethane	ND	0.0005	1,2-Dichlorobenzene	ND	0.0005
Trichloroethene	ND	0.0005	Dichlorodifluoromethane	ND	0.0005
1,2-Dichloropropane	ND	0.0005	cis-1,2-Dichloroethene	ND	0.0005

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.
'NA' indicates not applicable

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA 275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: METHOD BLANK 1 LAB SAMPLE ID: C204212-07A

SAMPLE DATE: not spec ANALYSIS DATE: 05/01/92

EXTRACTION DATE:

Results in MG/L: Detection

Limit

TPHC AS UNLEADED GASOLINE ND 0.05

Surrogate % Recovery A,A,A-TRIFLUOROTOLUENE 95

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'\*' Surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.

'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: METHOD BLANK 1 LAB SAMPLE ID: C204212-07A SAMPLE DATE: not spec ANALYSIS DATE: 04/28/92 CONFIRMATION DATE:

	Results in	MG/L:	Detection Limit
BENZENE		ND	0.0005
TOLUENE		ND	0.0005
ETHYLBENZENE		ND	0.0005
XYLENES (TOTAL)		ND	0.0005

surrogate	용	Recovery	Limi			
A, A, A-TRIFLUOROTOLUENE		99	75	-	125	
1-CHLORO-2-FLUOROBENZEN	E					

- 'NA' indicates not applicable
- '\*' Surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: METHOD BLANK 2 LAB SAMPLE ID: C204212-08A SAMPLE DATE: not spec

ANALYSIS DATE: 05/02/92

EXTRACTION DATE:

Detection Results in MG/L:

275000

Limit

0.05 TPHC AS UNLEADED GASOLINE ND

% Recovery Surrogate A,A,A-TRIFLUOROTOLUENE 94

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'\*' Surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.

'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: METHOD BLANK 2 LAB SAMPLE ID: C204212-08A

SAMPLE DATE: not spec ANALYSIS DATE: 04/30/92

CONFIRMATION DATE:

	Results in	MG/L:	Detection Limit
BENZENE		ND	0.0005
TOLUENE		ND	0.0005
ETHYLBENZENE		ND	0.0005
XVIENES (TOTAL)		ND	0.0005

Surrogate	ક	Recovery	Limi		
A, A, A-TRIFLUOROTOLUENE		102	75	_	125
1-CHLORO-2-FLUOROBENZENI	3				

- 'NA' indicates not applicable
- '\*' surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: VOLATILE FUEL HYDROCARBONS

SAMPLE ID: METHOD BLANK 3 LAB SAMPLE ID: C204212-09A SAMPLE DATE: not spec ANALYSIS DATE: 05/02/92

EXTRACTION DATE:

Results in MG/L: Detection

Limit

TPHC AS UNLEADED GASOLINE ND 0.05

Surrogate % Recovery A,A,A-TRIFLUOROTOLUENE 94

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'\*' Surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.

'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

TEST NAME: BTEX BY METHOD 8020

SAMPLE ID: METHOD BLANK 3 LAB SAMPLE ID: C204212-09A SAMPLE DATE: not spec ANALYSIS DATE: 05/02/92

CONFIRMATION DATE:

	Results i	n MG/L:	Detection Limit
BENZENE		ND	0.0005
TOLUENE		ND	0.0005
ETHYLBENZENE		ND	0.0005
XYLENES (TOTAL)		ND	0.0005

275000

Surrogate	8	Recovery	Limi		
A,A,A-TRIFLUOROTOLUENE		99	75	-	125
1-CHT.ORO-2-FIJIOROBENZENI	F.				

- 'NA' indicates not applicable
- '\*' Surrogate recovery is outside QC limit.
- 'D' Surrogate is diluted out.
- 'B' indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

Company: EMCON ASSOCIATES

Date: 05/07/92

Client Work ID: 2160 OTIS DRIVE, ALAMEDA

275000

IT ANALYTICAL SERVICES CERRITOS, CA

Work Order: C2-04-212

#### TEST NAME HALOGENATED VOL. ORGANICS TEST CODE 601

Each sample was analyzed for halogenated organic compounds according to USEPA Method 601. An aliquot of the sample is purged with helium and the volatile organic compounds are transferred to the vapor phase. The vapor is swept through a sorbent column where the halogenated compounds are adsorbed. Upon completion, the sorbent column is heated and backflushed onto a GC column. The trapped compounds are separated by a megabore column and detected by an electrolytic conductivity detector (ELCD or Hall).

#### TEST NAME VOLATILE FUEL HYDROCARBONS TEST CODE 8015U

Low boiling fuel hydrocarbons are analyzed by methods established by the California DHS' LUFT manual. An aliquot of the sample is purged with helium and the volatile fuel hydrocarbons are transferred to the vapor phase. The vapor is swept through a sorbent column where the hydrocarbons are adsorbed. Upon completion, the sorbent column is heated and backflushed onto a gas chromatograph equipped with a 30 meter capillary column. Detection and quantitation is made by a flame ionization detector. Unleaded gasoline is used as the calibration standard.

#### TEST NAME BYEK BY METHOD 8020 TEST CODE BYEK\_W

The sample was analyzed for benzene, toluene, ethylbenzene and total xylenes according to USEPA Methods 8020 and 5030. An aliquot of the sample is purged with helium and the volatile compounds are transferred to the vapor phase. The vapor is swept through a sorbent column where the aromatics are adsorbed. Upon completion the sorbent column is heated and backflushed onto a GC column. The trapped compounds are separated by the megabore column and detected by a photoionization detector.

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Printed Name: MAR	K KNUTTEL		·			(EPA	TPH (EPA 801.	EX (EPA 8020/602)	Volatile Organics	Test for Disposal	EP.4 6				Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION		SAMPLE CONDITION/ COMMENTS
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