Environmental
Technical
Services

A REPORT DOCUMENTING THE PURGING AND SAMPLING OF THREE GROUNDWATER MONITORING WELLS ON FOUR CONSECUTIVE QUARTERS AND THE DETERMINATION OF GROUNDWATER GRADIENT FOR TWELVE CONSECUTIVE MONTHS:

AT:

RON GOODE TOYOTA
1825 PARK AVENUE
ALAMEDA, CALIFORNIA

May 12, 1993

1548 Jacob Avenue San Jose, CA 95118
Phone/Fax (408) 267-6427 – Pager (415) 578-5947

E nvironmental
T echnical
S ervices

June 3, 1993

Alameda County
Environmental Health
Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

Attn: Ms. Juliet Shen

Ms. Shen:

Enclosed please find the signature page for the fourth quarter report documenting the purging and sampling of the three existing monitoring wells at Ron Goode Toyota.

We have been notified by Ron Goode Toyota that the signature page was missing from his report and therefore we are sending a signature page to each entity that received a copy of the fourth quarter report.

We apologize for any inconvenience this may have caused your office. If you have any further questions, please do not hesitate to contact our office at 408-267-6427.

Sincerely,
ENVIRONMENTAL TECHNICAL SERVICES

Helen A. Mawhinney

Helen A. Mawhinney
Project Manager

HAM/ls

cc: San Francisco Regional
Water Quality Control Board

1548 Jacob Avenue San Jose, CA 95118
Phone/Fax (408) 267-6427 - Pager (415) 578-5947

E nvironmental
T echnical
S ervices

A REPORT DOCUMENTING THE PURGING AND SAMPLING OF THREE GROUNDWATER MONITORING WELLS ON FOUR CONSECUTIVE QUARTERS AND THE DETERMINATION OF GROUNDWATER GRADIENT FOR TWELVE CONSECUTIVE MONTHS:

AT:

RON GOODE TOYOTA
1825 PARK AVENUE
ALAMEDA, CALIFORNIA

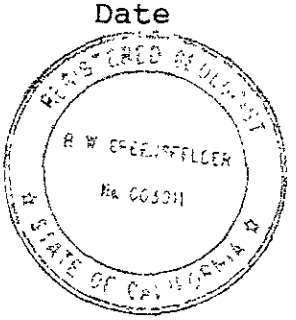
prepared by:

Helen Mawhinney
ENVIRONMENTAL TECHNICAL SERVICES
Helen A. Mawhinney
Senior Environmental Specialist

5.30.93
Date

Roger Greensfelder
Roger Greensfelder, PhD
CA Registered Geologist #3011

5-30-93
Date



1548 Jacob Avenue San Jose, CA 95118
Phone/Fax (408) 267-6427 - Pager (415) 578-5947

Environmental
Technical
Services

A REPORT DOCUMENTING THE PURGING AND SAMPLING OF THREE GROUNDWATER MONITORING WELLS ON FOUR CONSECUTIVE QUARTERS AND THE DETERMINATION OF GROUNDWATER GRADIENT FOR TWELVE CONSECUTIVE MONTHS:

AT:

RON GOODE TOYOTA
1825 PARK AVENUE
ALAMEDA, CALIFORNIA

prepared by:

Helen Mawhinney
ENVIRONMENTAL TECHNICAL SERVICES
Helen A. Mawhinney
Senior Environmental Specialist

5-17-93
Date

1548 Jacob Avenue San Jose, CA 95118
Phone/Fax (408) 267-6427 - Pager (415) 578-5947

TABLE OF CONTENTS

TABLE OF CONTENTS - continued

APPENDICES

1.0 INTRODUCTION

The following report documents the sampling of three groundwater monitoring wells and the determination of groundwater gradient at the Ron Goode Toyota, 1825 Park Street, Alameda, California.

Groundwater was sampled on four consecutive quarters and groundwater gradient determined for twelve consecutive months.

The work was performed in reponse to the discovery of petroleum hydrocarbons beneath the site and has been requested by the Alameda County Environmental Health Department, Hazardous Materials Division.

2.0 SITE DESCRIPTION

The site is located in the City and County of Alameda. The area is primarily commercial and industrial with many auto and nautical related businesses. The site is occupied by Ron Goode Toyota an automobile dealership. A single building houses sales offices, a showroom, and an auto repair shop. The topography of the site is relatively level.

3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

3.1 TANK REMOVAL, SOIL BORING INSTALLATION, AND INSTALLATION OF MONITORING WELLS

On December 27, 1990 a 300-gallon motor oil underground storage tank (UST) and a 55-gallon gasoline UST were excavated and removed from the site. Total petroleum hydrocarbons were detected in soil samples collected from beneath the tanks.

On March 21, 1991 and April 11, 1991, soil borings were advanced and samples collected in an investigation of the contaminant migration in soil.

Three groundwater monitoring wells were installed on November 8, 1991 then developed and sampled on November 18, 1991.

TABLE 1
INITIAL GROUNDWATER ANALYTICAL RESULTS
Total Petroleum Hydrocarbons as Gasoline
with Benzene, Toluene, Ethylbenzene, and Xylenes
Total Petroleum Hydrocarbons as Diesel
Total Oil and Grease
November 18, 1991

Results for TPHg, TPHd, and BTEX are reported in ug/L
Results for TOG are reported in kg/L

Sample #	TPH-G	B	T	E	X	TPH-D	TOG
MW-1	ND	ND	ND	ND	ND	ND	4.0
MW-2	ND	ND	ND	ND	ND	ND	3.0
MW-3	ND	ND	ND	ND	ND	ND	1.0

ND=Not detected at lower detection limit for this compound

4.0 SCOPE OF SERVICES

4.1 Groundwater Purging & Sampling

The three existing groundwater monitoring wells were purged and sampled on May 30, 1992, September 10, 1992, February 4, 1993 and May 4, 1993. All well effluent was contained in Department of Transportation 17-H, 55-gallon drums, pending analysis of water samples. The wells were purged using a clean stainless steel bailer (1.5" diameter by 3' length). Subsequent to purging each well was sampled using a clean stainless steel bailer. A separate bailer was dedicated to each well for the sampling event. At consistent intervals throughout sampling groundwater parameters (conductivity and temperature) were monitored to evaluate stabilization of the wells.

A water sample was decanted from the sampling bailer into two one-liter amber bottles and two 40-ml volatile organics analysis vials (VOAs) to a positive meniscus eliminating headspace.

The samples were transported to a certified analytical laboratory under chain of custody for analysis.

Refer to Appendix F, Groundwater Development Report.

4.2 Groundwater Analysis

Each groundwater sample was analyzed for total petroleum hydrocarbons as diesel (TPHd, using EPA Method 3510 and TPH Luft), total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, and total xylenes (TPHg & BTEX, using EPA Method 5030 and TPH Luft Method 602 for BTEX), and total oil and grease (TOG, using EPA Method 3550/5520).

4.3 Groundwater Analytical Results

TABLE II
GROUNDWATER ANALYTICAL RESULTS
FIRST QUARTER SAMPLING
May 30, 1992

Results for TPHg, TPHd, and BTEX are reported in ug/L
Results for TOG are reported in kg/L

Sample #	TPH-G	B	T	E	X	TPH-D	TOG
MW-1	ND	ND	ND	ND	2.7	ND	20
MW-2	ND	ND	ND	ND	2.0	ND	<10
MW-3	ND	ND	ND	ND	ND	ND	20

ND=Not detected at lower detection limit for this compound

TABLE III
GROUNDWATER ANALYTICAL RESULTS
SECOND QUARTER
SEPTEMBER 10, 1992

Results for TPHg, TPHd, and BTEX are reported in ug/L
Results for TOG are reported in kg/L

Sample #	TPH-G	B	T	E	X	TPH-D	TOG
MW-1	ND	ND	ND	ND	ND	ND	1.1
MW-2	ND	ND	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND	ND	0.4

ND=Not detected at lower detection limit for this compound

TABLE IV
GROUNDWATER ANALYTICAL RESULTS
THIRD QUARTER
FEBRUARY 4, 1993

Results for TPHg, TPHd, and BTEX are reported in ug/L
Results for TOG are reported in kg/L

Sample #	TPH-G	B	T	E	X	TPH-D	TOG
MW-1	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND	ND	ND

ND=Not detected at lower detection limit for this compound

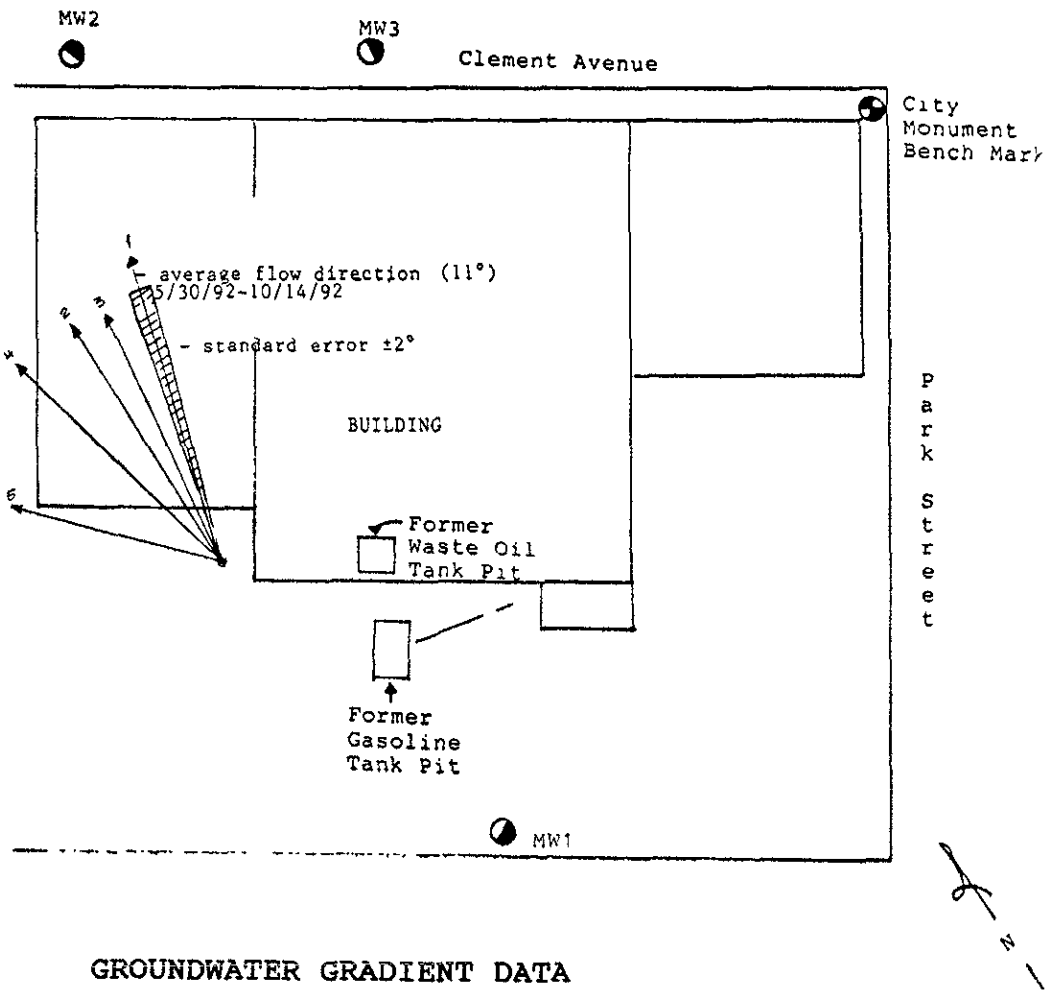
TABLE V
GROUNDWATER ANALYTICAL RESULTS
FOURTH QUARTER
MAY 3, 1993

Results for TPHg, TPHd, and BTEX are reported in ug/L
Results for TOG are reported in kg/L

Sample #	TPH-G	B	T	E	X	TPH-D	TOG
MW-1	ND	ND	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND	ND	ND

ND=Not detected at lower detection limit for this compound

4.4 Groundwater Gradient



GROUNDWATER GRADIENT DATA

Map No.	Date	Flow Azimuth	Grad. (ft/ft)	H1* (ft.)
1	05/30/92	9	.0074	5.33
	06/28/92	10	.0075	5.39
	07/28/92	12	.0059	4.36
	08/17/92	11	.0059	4.38
	09/11/92	11	.0059	4.34
	10/14/92	14	.0059	4.18
2	11/10/92	355	.0058	4.10
3	12/11/92	2	.0061	3.02
4	01/11/93	341	.0067	3.22
5	05/04/93	311	.011	5.68

*H1 = water elevation in MW1

4.0 REPORT

Please forward copies of this report, chain of custody documentation, and laboratory analytical reports to the San Francisco Regional Water Quality Control Board, and the Alameda County Department of Environmental Health Hazardous Materials Division.

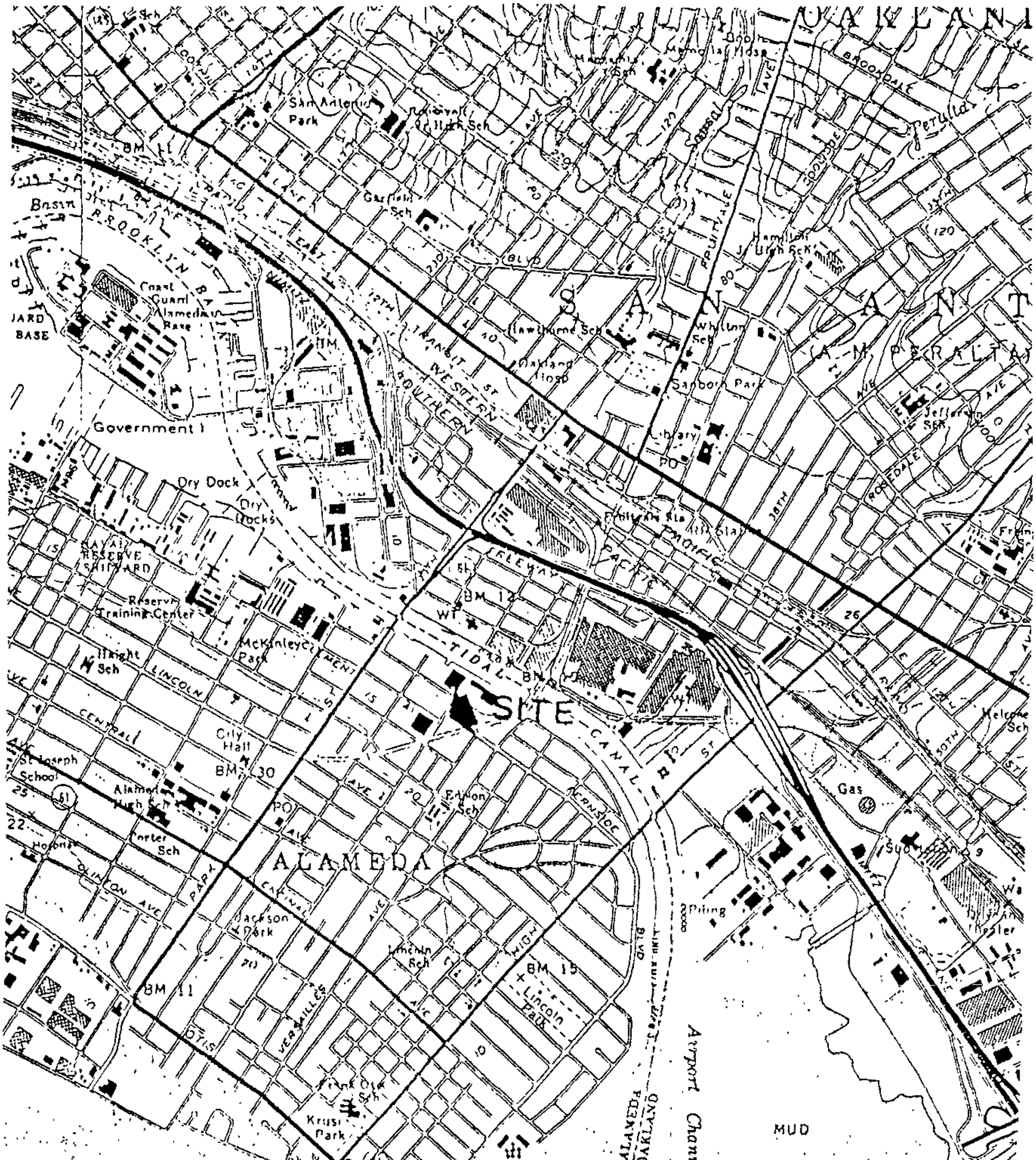
The following addresses have been included for your convenience:

Water Quality Control Board
San Francisco Bay Region
2101 Webster Street
Room 500
Oakland, CA 94621

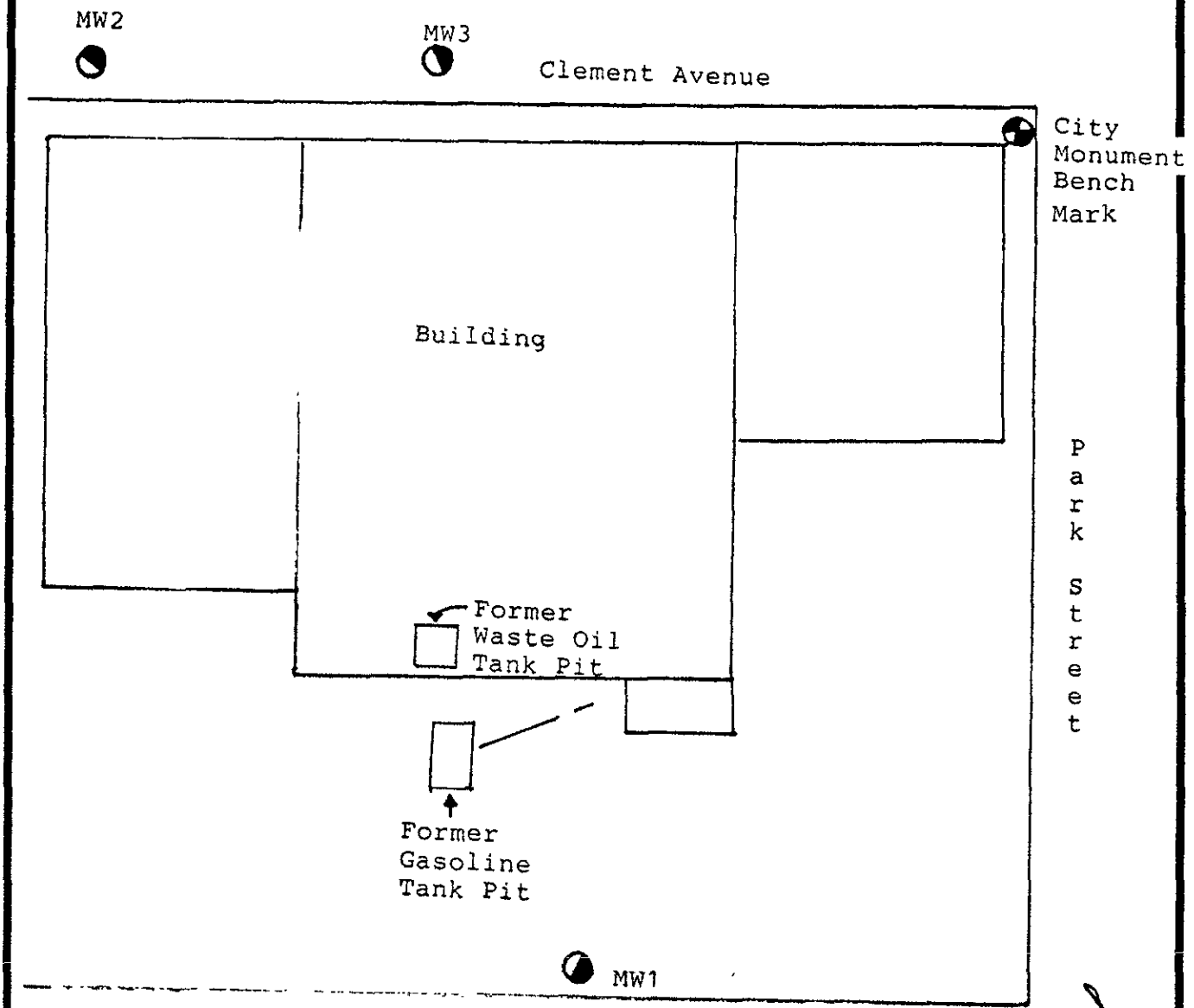
Alameda County Department
of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94612

APPENDIX A

MAPS



Environmental Technical Services	RON GOODE TOYOTA	**Figure** 1
	1825 PARK STREET	SITE LOCATION MAP
	ALAMEDA, CALIF	



Environmental Technical Services	RON GOODE TOYOTA	**Figure** 2
	1825 PARK STREET	MONITORING WELL AND
	ALAMEDA, CALIF	FORMER TANK LOCATION

APPENDIX B

GROUNDWATER ANALYTICAL RESULTS
FIRST QUARTER

MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

MWRon Goode\011939

Zaccor Corporation
791 Hamilton Avenue
Menlo Park, CA 94025
Attn: Gary Zaccor
Project Manager

Date Sampled: 05-30-92
Date Received: 06-01-92
Date Reported: 06-03-92

Sample Number	Sample Description
062001	Project # MW Ron Goode Env. Technical Services Ron Goode Toyota/Alameda 1825 Park Avenue MW-1 WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	2.7
Ethylbenzene	0.5	<0.5

QA/QC: Sample blank is none detected
Duplicate Deviation is 7.5%

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

for Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

MWRon Goode\011939

Zaccor Corporation
791 Hamilton Avenue
Menlo Park, CA 94025
Attn: Gary Zaccor
Project Manager

Date Sampled: 05-30-92
Date Received: 06-01-92
Date Reported: 06-03-92

Sample Number	Sample Description
062002	Project # MW Ron Goode Env. Technical Services Ron Goode Toyota/Alameda 1825 Park Avenue MW-2 WATER

ANALYSIS

	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	2.0
Ethylbenzene	0.5	<0.5

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (μg/L)

MOBILE CHEM LABS

for Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.
5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

MWRon Goode\011939

Zaccor Corporation
791 Hamilton Avenue
Menlo Park, CA 94025
Attn: Gary Zaccor
Project Manager

Date Sampled: 05-30-92
Date Received: 06-01-92
Date Reported: 06-03-92

Sample Number	Sample Description
062003	Project # MW Ron Goode Env. Technical Services Ron Goode Toyota/Alameda 1825 Park Avenue MW-3 WATER

ANALYSIS

	Detection Limit ppb	Sample Results ppb
Total Petroleum Hydrocarbons as Gasoline	50	<50
Benzene	0.5	<0.5
Toluene	0.5	<0.5
Xylenes	0.5	<0.5
Ethylbenzene	0.5	<0.5

QA/QC: Sample blank is none detected

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 602 used for BTX distinction.
(ppb) = (µg/L)

MOBILE CHEM LABS

Miriam Creek

for Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

MW Ron Goode\011939

Zaccor Corporation
791 Hamilton Avenue
Menlo Park, CA 94025
Attn: Gary Zaccor
Project Manager

Date Sampled: 05-30-92
Date Received: 06-01-92
Date Reported: 06-03-92

Sample Number	Sample Description	Detection Limit	WATER Gravimetric Waste Oil as Petroleum Oil
		ppm	ppm
	Environmental Technical Services Ron Goode Toyota 1825 Park Avenue Alameda, CA		
062001	MW-1	10	20
062002	MW-2	10	<10
062003	MW-3	10	20

QA/QC: Freon Blank is none detected.

Note: Analysis was performed using EPA extraction method 3550 with Trichlorotrifluoroethane as solvent, and gravimetric determination by standard methods 5520
(ppm) = (mg/L)

MOBILE CHEM LABS

Miriam Cueto

for Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

5021 Blum Road, Suite 3 • Martinez, CA 94553
Phone (415) 372-3700 • Fax (415) 372-6955

MWRon Goode\011939

Zaccor Corporation
791 Hamilton Avenue
Menlo Park, CA 94025
Attn: Gary Zaccor
Project Manager

Date Sampled: 05-30-92
Date Received: 06-01-92
Date Reported: 06-03-92

Sample Number	Sample Description	Detection Limit ppb	WATER Total Petroleum Hydrocarbons as Diesel ppb
	Environmental Technical Services Ron Goode Toyota 1825 Park Avenue Alameda, CA		
062001	MW-1	50	<50
062002	MW-2	50	<50
062003	MW-3	50	<50

QA/QC: Sample blank is none detected
Spike Recovery on 062002 is 98.9%
Duplicate Spike Deviation is 7.5%

Note: Analysis was performed using EPA method 3510 and TPH LUFT.
(ppb) = (µg/L)

MOBILE CHEM LABS

Miriam Cueto for Ronald G. Evans
Lab Director

CHAIN OF CUSTODY RECORD

PROJECT NO.	SITE NAME & ADDRESS
Malcolm	1525 Park Avenue Alameda Ca. Lincoln Toyota Alameda, Ca

WITNESSING AGENCY / INSPECTOR NAME / DATE

ID.NO.	DATE	TIME	SOIL	WATER	SAMPLING LOCATION	TPH (Gasoline) & B, T, X, & E	TPH (Diesel) & ~~B, T, X, & E~~	Total Oil & Grease	Halogenated HC's	B, T, X & E	Heavy Metals		REMARKS
Mw-1	5/30			✓		✓	✓	✓		|			3 40ml vials / 3 liters
Mw-2	↓			✓		✓	✓	✓					↓ ↓
Mw-3	↓			✓		✓	✓	✓					↓ ↓

ANALYSES REQUESTED (1)

(1) See attached "Table 2" for specific analysis method.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	5-30-92 11:40	ETS Refrigerator
ETS Refrigerator	6-1-92 955	David R [signature]
		Rec'd for Laboratory by: (Signature)

The following MUST BE completed by the laboratory accepting samples for analysis:

1. Have all samples received for analysis been stored in ice?
2. Will samples remain refrigerated until analyzed?
3. Did any samples received for analysis have head space?
4. Were samples in appropriate containers and properly packaged?

Signature ______ Title ______ Date ______

Rev: 12-88

APPENDIX C

GROUNDWATER ANALYTICAL RESULTS
SECOND QUARTER

Soil and Water Environmental Laboratory

Drinking Water
Waste Water ○ Asbestos
Hazardous Waste — Soil
Calderon Testing — Air

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

Laboratory Report

Client: Environmental Tech. Services
1548 Jacob Ave.
San Jose CA 35118

Report Date: 10/02/92

Sample Site: Ron Goode Toyota
Alameda , CA

R.G. Toyota

Date Received: 03/11/92

Analysis Requested	Procedure
Total Hydrocarbons - Gas	EPA 5030
Total Hydrocarbons - Diesel	EPA 3510
Total Oil & Grease	EPA 503e
BTEX	EPA 602

Date Analyzed: 03/15/92

S&W Ref #	Client Ref. #	Matrix/Analysis	Concentration	Detection Limit
2562-ET1-A	MW-1	Water/TPH-G	*	50 ppb
2562-ET1-A	MW-1	Water/TPH-D	*	50 ppb
2562-ET1-A	MW-1	Water/TOG	1.1	5 ppm
2562-ET1-A	MW-1	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
2562-ET1-B	MW-2	Water/TPH-G	*	50 ppb
2562-ET1-B	MW-2	Water/TPH-D	*	50 ppb
2562-ET1-B	MW-2	Water/TOG	*	5 ppm
2562-ET1-B	MW-2	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
2562-ET1-C	MW-3	Water/TPH-G	*	50 ppb
2562-ET1-C	MW-3	Water/TPH-D	*	50 ppb
2562-ET1-C	MW-3	Water/TOG	0.4	5 ppm
2562-ET1-C	MW-3	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb

* No detectable amount @ detection limit

Analyst Signature

1/87

Soil and Water Environmental Laboratory
14072 West Park Avenue
Boulder Creek, CA 95006
(408) 338-3053/4466

CHAIN - OF - CUSTODY

Project Number	Site Name and Address	Type and Number of Containers	Analysis Required							Laboratory ID	Comments
R.G. Toyota	Ron Goode Toyota Alameda, Ca		TPH-G + BTEX	TPH-D + BTEX	BTEX					2562-5W1	
Witnessing Agency/Inspector Name and Date										Condition of Samples 1 - Good 2 - See Reverse	
Sample ID	Date / Time / Matrix / Sample Location										
MW-1	9/10/92 / water	2 VOAs 2 Liter	X	X	X						A
MW-2	↓	↓	X	X	X						B
MW-3	↓	↓	X	X	X						C

Relinquished by: (Signature) Helen Mawhinney	Date/Time 9/10/92 6pm	Received by: (Signature) UPS FRIDGE	Date/Time	Remarks:
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	COMPANY: ADDRESS:
Relinquished by: (Signature) Helen Mawhinney	Date/Time 9/11/92 2:50	Received by Lab: (Signature) D. W. Lemon	Date/Time 9/11/92 2:50	PHONE: FAX:

APPENDIX D

GROUNDWATER ANALYTICAL RESULTS
THIRD QUARTER

S&W
Soil and Water
Environmental
Laboratory

Drinking Water
Waste Water ◦ Asbestos
Hazardous Waste – Soil
Calderon Testing – Air

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

Laboratory Report

Client
Environmental Tech. Services
1548 Jacob Ave.
San Jose CA 95118

Report Date
02/06/93

Sample Site
R. G. Toyota
Park St., Alameda

R.G. Toyota

Date Received
02/04/93

Analysis Requested
Total Hydrocarbons - Gas
Total Hydrocarbons - Diesel
Total Oil & Grease
BTEX

Procedure
EPA 5030
EPA 3510
EPA 503m
EPA 602

Date Analyzed
02/05/93

S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration	Detection Limit
0353-ET1-A	MW-2	Water/TPH-G	*	50 ppb
0353-ET1-A	MW-2	Water/TPH-D	*	50 ppb
0353-ET1-A	MW-2	Water/TOG	*	5 ppm
0353-ET1-A	MW-2	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
0353-ET1-B	MW-3	Water/TPH-G	*	50 ppb
0353-ET1-B	MW-3	Water/TPH-D	*	50 ppb
0353-ET1-B	MW-3	Water/TOG	*	5 ppm
0353-ET1-B	MW-3	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
0353-ET1-C	MW-1	Water/TPH-G	*	50 ppb
0353-ET1-C	MW-1	Water/TPH-D	*	50 ppb
0353-ET1-C	MW-1	Water/TOG	*	5 ppm
0353-ET1-C	MW-1	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb

* No detectable amount @ detection limit

Analyst Signature

Environmental Technical Services
(408) 267-6427

CHAIN - OF - CUSTODY

Project Number	Site Name and Address	Type and Number of Containers	Analysis Required							Laboratory ID	Comments
RC Toyota	R.C. Toyota Park St, Alameda, CA		TPH-G + BTEX	TPH-D + BTEX	TOG					Condition of Samples 1 - Good 2 - See Reverse	
Witnessing Agency/Inspector Name and Date											
Sample ID / Date / Time / Matrix / Sample Location											
MW-(A) 2/4/93	H2O	2 Liters 2 40ml VOAs	✓	✓	✓						
MW-(B) 2/4/93	"	"	✓	✓	✓						
MW-(C) 2/4/93	"	"	✓	✓	✓						

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks:
Hilary Hawkesworth	2/4/93 5:00			
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	
				COMPANY:
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)	Date/Time	ADDRESS:
		K. Hanson	2/4/93 5:00 pm	PHONE. FAX:

APPENDIX E

GROUNDWATER ANALYTICAL RESULTS
FOURTH QUARTER

S&W
Soil and Water
Environmental
Laboratory

Drinking Water
Waste Water ◦ Asbestos
Hazardous Waste – Soil
Calderon Testing – Air

14072 W. Park Avenue
Boulder Creek, CA 95006
(408) 338-3053

Laboratory Report

Client: Enviornmental Tech. Services
1548 Jacob Ave.
San Jose CA 95118

Report Date: 05/16/93

Sample Site: Ron Goode Toyota
Park & Clement

RGT

Date Received: 05/05/93

Analysis Requested	Procedure	Date Analyzed
Total Hydrocarbons - Gas	EPA 5030	05/05/93
Total Hydrocarbons - Diesel	EPA 3510	
Total Oil & Grease	EPA 503e	
BTEX	EPA 602	

S&W Ref. #	Client Ref. #	Matrix/Analysis	Concentration	Detection Limit
1253-ET1-A	MW-1	Water/TPH-G	*	50 ppb
1253-ET1-A	MW-1	Water/TPH-D	*	50 ppb
1253-ET1-A	MW-1	Water/TOG	*	5 ppm
1253-ET1-A	MW-1	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
1253-ET1-B	MW-2	Water/TPH-G	*	50 ppb
1253-ET1-B	MW-2	Water/TPH-D	*	50 ppb
1253-ET1-B	MW-2	Water/TOG	*	5 ppm
1253-ET1-B	MW-2	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb
1253-ET1-C	MW-3	Water/TPH-G	*	50 ppb
1253-ET1-C	MW-3	Water/TPH-D	*	50 ppb
1253-ET1-C	MW-3	Water/TOG	*	5 ppm
1253-ET1-C	MW-3	Water/BTEX		
		Benzene	*	0.5 ppb
		Toluene	*	0.5 ppb
		Ethylbenzene	*	0.5 ppb
		Xylenes	*	0.5 ppb

* No detectable amount @ detection limit

Analyst Signature: R. H. Lemon

Soil and Water Environmental Laboratory
14072 West Park Avenue
Boulder Creek, CA 95006
(408) 338-3053/4466

CHAIN - OF - CUSTODY

Project Number	Site Name and Address	Type and Number of Containers	Analysis Required							Laboratory ID	Comments
R&T	Park + Clement Alameda, Ca Ron Goode Toyota		TPH-G + BTEX	TPH-D + BTEX	TOC					1253	
Witnessing Agency/Inspector Name and Date										Condition of Samples 1 - Good 2 - See Reverse	

Sample ID	Date	Time	Matrix	Sample Location									
MW-1	5/4/93		H20			✓	✓	✓					
MW-2	↓		↓			✓	✓	✓					
MW-3	↓		↓			✓	✓	✓					

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Remarks:
Helen Mawhinney	5/4/93 6:15	TO ETS Fridge		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	COMPANY:
				ADDRESS:
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)	Date/Time	
Helen Mawhinney	5/5/93 6:23	R. W. Lawson	5/5/93 6:30	PHONE: FAX:

LABORATORY REQUIRES TWO (2) COPIES OF THIS FORM.

APPENDIX F

GROUNDWATER DEVELOPMENT REPORTS

MONITORING WELL SAMPLING DATA/ MW-1

Project Name:	Well#
RON GOODE TOYOTA	MW-1

Date: May 30, 1992

Name:	Time Began:
Mawhinney	12:45

DEPTH OF WELL(ft.)	DEPTH TO WATER(ft.)	WELL DIAM.
14.76	4.97	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
12:45	1	.03	7.5	17 C	743.0
12:50	3	.03	7.9	18 C	720.0
12:57	5	.03	7.6	16 C	684.0
1:06	7	.04	7.5	16 C	859.0

Volume Evacuated	Purging Equip.	Sampling Equip.
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

Not measured

Sheen	Floating Product	Sample Color	Odor
no	no	grey	no

Sediment/Foreign Matter: silt

Sample ID#	Analysis	Laboratory
MW-1	TPHg, BTEX, TPHd, TOG	Mobile Chem.

Sample Containers	Preservative
3/ 40-ml VOAs 2 Liters	None (48 hr analysis)

MONITORING WELL SAMPLING DATA/ MW-2

Project Name:	Well#
RON GOODE TOYOTA	MW-2

Date: May 30, 1992

Name:	Time Began:
Mawhinney	1:10

DEPTH OF WELL(ft.)	DEPTH TO WATER(ft.)	WELL DIAM.
14.70	3.51	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
1:20	1	.03	7.7	15 C	284.0
1:31	3	.03	7.6	16 C	264.0
1:43	5	.03	7.7	16 C	262.0
1:55	7	.03	7.5	16 C	235.0

Volume Evacuated	Purging Equip.	Sampling Equip.
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

Not measured

Sheen	Floating Product	Sample Color	Odor
no	no	grey	no

Sediment/Foreign Matter: silt

Sample ID#	Analysis	Laboratory
MW-2	TPHg, BTEX, TPHd, TOG	Mobile Chem

Sample Containers

3/ 40-ml VOAs

2 Liters

MONITORING WELL SAMPLING DATA/ MW-3

Project Name:	Well#
RON GOODE TOYOTA	MW-3

Date: May 30, 1992

Name:	Time Began:
Mawhinney	2:07

DEPTH OF WELL(ft.)	DEPTH TO WATER(ft.)	WELL DIAM.
14.40	3.45	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
2:16	1	.03	7.5	15 C	284.0
2:28	3	.03	7.4	15 C	262.0
2:39	5	.03	7.4	15 C	259.0
2:54	7	.04	7.5	15 C	242.0

Volume Evacuated	Purging Equip.	Sampling Equip.
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

7.2

Sheen	Floating Product	Sample Color	Odor
no	no	grey	no

Sediment/Foreign Matter: silt

Sample ID#	Analysis	Laboratory
MW-3	TPHg, BTEX, TPHd, TOG	Mobile Chem

Sample Containers
3/ 40-ml VOAs
2 Liters

MONITORING WELL SAMPLING DATA/ MW-1

Project Name:	Well#
RON GOODE TOYOTA	MW-1

Date: September 11, 1992

Name:	Time Began:
Mawhinney	1:12

DEPTH OF WELL(ft.)	DEPTH TO WATER(ft.)	WELL DIAM.
14.78	5.96	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
1:12	1	.03	7.4	24 C	0.89
1:27	3	.03	7.3	24 C	0.86
1:37	5	.04	7.0	23 C	0.78
1:49	7	.04	7.3	23 C	0.85

Volume Evacuated	Purging Equip.	Sampling Equip.
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

7.42

Sheen	Floating Product	Sample Color	Odor
no	no	grey	no

Sediment/Foreign Matter: silt

Sample ID#	Analysis	Laboratory
MW-1	TPHg, BTEX, TPHd, TOG	S & W Lab.

Sample Containers	Preservative
3/ 40-ml VOAs 2 Liters	None (48 hr analysis)

MONITORING WELL SAMPLING DATA/ MW-2

Project Name:	Well#
RON GOODE TOYOTA	MW-2

Date: September 11, 1992

Name:	Time Began:
Mawhinney	1:59

DEPTH OF WELL(ft.)	DEPTH TO WATER(ft.)	WELL DIAM.
14.68	4.21	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
2:07	1	.04	7.6	24 C	0.55
2:20	3	.03	7.2	26 C	0.54
2:36	5	.03	7.3	25 C	0.55
2:49	7	.03	7.5	23 C	0.56

Volume Evacuated	Purging Equip.	Sampling Equip.
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

6.90

Sheen	Floating Product	Sample Color	Odor
no	no	grey	no

Sediment/Foreign Matter: silt

Sample ID#	Analysis	Laboratory
MW-2	TPHg, BTEX, TPHd, TOG	S & W Lab.

Sample Containers	Preservative
3/ 40-ml VOAs 2 Liters	None (48 hr analysis)

MONITORING WELL SAMPLING DATA/ MW-3

Project Name:	Well#
RON GOODE TOYOTA	MW-3

Date: September 11, 1992

Name:	Time Began:
Mawhinney	3:10

DEPTH OF WELL(ft.)	DEPTH TO WATER(ft.)	WELL DIAM.
14.40	4.20	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
3:17	1	.04	7.6	25 C	0.64
3:31	3	.03	7.4	24 C	0.69
3:39	5	.03	7.5	24 C	0.65
4:49	7	.04	7.5	23 C	0.65

Volume Evacuated	Purging Equip.	Sampling Equip.
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth to Water Upon Completion of Sampling

7.2

Sheen	Floating Product	Sample Color	Odor
no	no	grey	no

Sediment/Foreign Matter: silt

Sample ID#	Analysis	Laboratory
MW-3	TPHg, BTEX, TPHd, TOG	S & W Lab.

Sample Containers	Preservative
3/ 40-ml VOAs 2 Liters	None (48 hr analysis)

MONITORING WELL SAMPLING DATA
MONITORING WELL NO.1

PROJECT NAME:	WELL #
RON GOODE TOYOTA	MW-1

DATE: FEBRUARY 04, 1993

NAME:	TIME BEGAN:
Helen Mawhinney	2:31p

DEPTH OF WELL(FT.)	DEPTH OF WATER(FT.)	WELL DIAM.
14.80	3.84	2"

TIME	GALLONS	pH	TEMP.	COND.
2:31	1	7.49	63.3	.32
2:36	3	7.32	63.1	.34
2:40	5	7.19	63.1	.27
2:42	8	7.18	63.1	.27

VOLUME EVACUATED	PURGING EQUIP.	SAMPLING EQUIP.
8 gallons	Stainless Steel Bailer	Stainless Steel Bailer

DEPTH TO WATER UPON COMPLETION OF SAMPLING

Not measured. Recharge very good

SHEEN	FLOATING PRODUCT	SAMPLE COLOR	ODOR
no	no	grey	no

SEDIMENT/FOREIGN MATTER: silt

SAMPLE ID#	ANALYSIS	LABORATORY
MW-1	TPHg, BTEX,TPHd, TOG	S & W Lab.

SAMPLE CONTAINERS
3/ 40-ml VOAs, 2 Liters

MONITORING WELL SAMPLING DATA
MONITORING WELL NO.2

PROJECT NAME:	WELL #
RON GOODE TOYOTA	MW-2

DATE: FEBRUARY 04, 1993

NAME:	TIME BEGAN:
Helen Mawhinney	1:13

DEPTH OF WELL(FT.)	DEPTH OF WATER(FT.)	WELL DIAM.
14.60	2.81	2"

TIME	GALLONS	pH	TEMP.	COND.
1:13	1	8.34	67.1	.65
1:15	3	8.29	65.8	.67
1:19	5	8.22	64.9	.77
1:25	8	8.22	64.9	.70

VOLUME EVACUATED	PURGING EQUIP.	SAMPLING EQUIP.
8 gallons	Stainless Steel Bailer	Stainless Steel Bailer

DEPTH TO WATER UPON COMPLETION OF SAMPLING

Not measured.

SHEEN	FLOATING PRODUCT	SAMPLE COLOR	ODOR
no	no	grey	no

SEDIMENT/FOREIGN MATTER: silt

SAMPLE ID#	ANALYSIS	LABORATORY
MW-2	TPHg, BTEX,TPHd,TOG	S & W Lab.

SAMPLE CONTAINERS

3/ 40-ml VOAs, 2 Liters

MONITORING WELL SAMPLING DATA
MONITORING WELL NO.3

PROJECT NAME:	WELL #
RON GOODE TOYOTA	MW-3

DATE: FEBRUARY 04, 1993

NAME:	TIME BEGAN:
Helen Mawhinney	1:44

DEPTH OF WELL(FT.)	DEPTH OF WATER(FT.)	WELL DIAM.
14.44	2.56	2"

TIME	GALLONS	pH	TEMP.	COND.
1:44	1	7.49	61.6	.35
1:47	3	7.32	61.9	.34
1:49	5	7.22	61.9	.34
1:57	8	7.35	63.5	.27

VOLUME EVACUATED	PURGING EQUIP.	SAMPLING EQUIP.
8 gallons	Stainless Steel Bailer	Stainless Steel Bailer

DEPTH TO WATER UPON COMPLETION OF SAMPLING
Not measured.

SHEEN	FLOATING PRODUCT	SAMPLE COLOR	ODOR
no	no	grey	no

SEDIMENT/FOREIGN MATTER: silt

SAMPLE ID#	ANALYSIS	LABORATORY
MW-3	TPHg, BTEX,TPHd, TOG	S & W Lab

SAMPLE CONTAINERS
3/ 40-ml VOAs, 2 Liters

MONITORING WELL SAMPLING DATA

Project Name:	Well#
RON GOODE TOYOTA	MW-1

DATE: May 4, 1993

NAME:	Time Began:
Mawhinney	4:05p

DEPTH OF WELL	DEPTH TO WATER	WELL DIAM.
14.74′	4.62′	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
4:08	1	*	*	63.1 F	4.27
4:15	3	*	*	63.1 F	4.04
4:22	5	*	*	63.1 F	6.03
4:37	7	*	*	63.1 F	6.09

Volume Evacuated	Purging Equip.	Sampling Equip.
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth of Well Upon Completion of Sampling:

14.74′ at completion

Sheen	Floating Product	Sample Color	Odor
no	no	gold	no

Sediment/Foreign Matter: very little silt

Sample ID#	Analysis	Laboratory
MW-1	TPHg, BTEX, TPHd, TOG	S & W Lab

Sample Containers

2/40-ml VOAs
2 amber one liter bottles

MONITORING WELL SAMPLING DATA

Project Name:	Well#
RON GOODE TOYOTA	MW-2

DATE: May 4, 1993

NAME:	Time Began:
Mawhinney	3:27p

DEPTH OF WELL	DEPTH TO WATER	WELL DIAM.
14.53′	3.1′	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
3:36	1	*	*	67.1 F	5.22
3:42	3	*	*	65.8 F	5.30
3:48	5	*	*	64.7 F	5.30
3:51	7	*	*	63.8 F	5.30

Volume Evacuated	Purging Equip.	Sampling Equip.
8 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth of Well Upon Completion of Sampling:

14.53′ Recharge good

Sheen	Floating Product	Sample Color	Odor
no	no	gold	no

Sediment/Foreign Matter: very little silty

Sample ID#	Analysis	Laboratory
MW-2	TPHg, BTEX, TPHd, TOG	S & W Lab

Sample Containers

2/40-ml VOAs
2 amber one liter bottles

MONITORING WELL SAMPLING DATA

Project Name:	Well#
RON GOODE TOYOTA	MW-3

DATE: May 4 , 1993

NAME:	Time Began:
Mawhinney	3:34p

DEPTH OF WELL	DEPTH TO WATER	WELL DIAM.
14.41'	2.52'	2"

Time	Gallons	Salinity	pH	Temp.	Cond.
3:41	1	*	*	61.0 F	3.41
3:46	3	*	*	61.9 F	5.30
3:52	5	*	*	61.9 F	5.43
4:03	7	*	*	62.5 F	5.17

Volume Evacuated	Purging Equip.	Sampling Equip.
7 gallons	Stainless Steel Bailer	Stainless Steel Bailer

Depth of Well Upon Completion of Sampling:

14.41' Good Recharge

Sheen	Floating Product	Sample Color	Odor
no	no	gold	no

Sediment/Foreign Matter: very little silt

Sample ID#	Analysis	Laboratory
MW-3	TPHg, BTEX, TPHd, TOG	S & W Lab

Sample Containers

2/40-ml VOAs
2 amber one liter bottles