TRANSMITTAL

TO: Ms. Eva Chu
Alameda County Health Care Services Agency
80 Swan Way,, Room 200
Oakland, California 94621

DATE: April 12, 1994
PROJECT #: 6130.01
SUBJECT: Quarterly Groundwater Monitoring Report, First Quarter 1994, for Shamrock Ford,7499 Dublin Boulevard, Dublin, California.

FROM:
Barbara Sieminski
Project Geologist
GeoStrategies, Inc.
6747 Sierra Court, Suite G
Dublin, California 94568

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	04/12/94	Quarterly Groundwater Monitoring Report - First Quarter 1994 for Shamrock Ford, 7499 Dublin Boulevard, Dublin, California

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cc: **Mr. Craig Caldwell**, Shamrock Ford
Job File, GSI

GeoStrategies Inc.

LETTER REPORT
QUARTERLY GROUNDWATER MONITORING
FIRST QUARTER 1994

at

Shamrock Ford
7499 Dublin Boulevard
Dublin, California

613001-4

Prepared for

Shamrock Ford
7499 Dublin Boulevard
Dublin, California 94568

Prepared by

GeoStrategies Inc.
6747 Sierra Court
Dublin, California 94568

Barbara Sieminski
Project Geologist

Gary Pischke
Senior Geologist C.E.G. #1501

REGISTERED GEOLOGIST
GARY PISCHKE
No. 1501
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

April 12, 1994

GeoStrategies Inc.

April 12, 1994

Mr. Craig Caldwell
Shamrock Ford
7499 Dublin Boulevard
Dublin, California 94568

Subject: Quarterly Groundwater Monitoring Report - First Quarter 1994 for Shamrock Ford Site, 7499 Dublin Boulevard, Dublin, California.

Mr. Caldwell:

As requested by Shamrock Ford, GeoStrategies Inc. (GSI) has prepared this letter report summarizing the results of the first quarter 1994 groundwater monitoring at the above-referenced site. The objectives of this quarterly groundwater monitoring are to evaluate changes in the groundwater levels, and changes in concentrations of petroleum hydrocarbons in groundwater associated with the former gasoline and waste-oil storage tanks at the site.

SITE BACKGROUND

The subject site is located at the intersections of Dublin Boulevard and Amador Plaza Road in Dublin, California, as shown on the Vicinity Map, Figure 1. In June 1993 Gettler-Ryan Inc. (G-R) removed one 1000-gallon waste-oil underground storage tank (UST), and one 2000-gallon gasoline UST from the site. The location of the former USTs are shown on the Site Plan, Figure 2. The laboratory analytical results of soil samples collected from the tank pits indicated that the soils in the vicinity of the tank pits have not been impacted by waste-oil related hydrocarbons, and have been slightly impacted by gasoline-related hydrocarbons (2.4 parts per million [ppm] of total petroleum hydrocarbons as gasoline [TPH-G] in the sample collected from the southern wall of the gasoline tank pit).

Laboratory analytical results for the groundwater sample collected from the former waste-oil tank pit indicated 150 parts per billion (ppb) TPH-G; up to 11 ppb of gasoline constituents benzene, toluene, ethylbenzene and xylenes (BTEX); 8,600 ppb total petroleum hydrocarbons as motor oil (TPH-

6747 Sierra Court, Suite. G • Dublin, CA 94568 • (510) 551-8777 • Fax (510) 551-7888
3035 Prospect Park Drive, Suite 80 • Rancho Cordova, CA 95670 • (916) 631-1314 • Fax (916) 631-1317

MO); and 2,200 ppb of oil and grease (O&G). Metals including Cd, Cr, Pb, Ni and Zn were detected at concentrations of 17 ppb, 460 ppb, 850 ppb, 1200 ppb, and 530 ppb, respectively. Total petroleum hydrocarbons calculated as diesel (TPH-D) concentration was reported as nondetectable, however, the reporting limit was increased to 100 ppb due to oil interference. Volatile organic compounds (VOC) concentrations (35 compounds tested) were nondetectable (less than 2 ppb) except benzene (2.6 ppb), toluene (6.1 ppb), P,M-xylene (5.6 ppb), O-xylene (3.2 ppb), methylene chloride (4.4 ppb), and acetone (34 ppb). Laboratory analytical results for the groundwater sample collected from the former gasoline tank pit indicated 3600 ppb TPH-G; up to 540 ppb BTEX; and 16 ppb of lead.

In December 1993, three groundwater monitoring wells (A-1 through A-3) were installed at the site by GSI to evaluate the extent of petroleum hydrocarbons in soil and groundwater in the vicinity of the former USTs, and to evaluate the gradient of the shallow groundwater beneath the site. The locations of the groundwater monitoring wells are shown on Figure 2. Laboratory analytical results of the soil and groundwater samples collected during this investigation indicated that the soils and groundwater in the western, southern and southeastern vicinity of the former USTs have not been impacted by waste-oil and gasoline hydrocarbons. Concentrations of metals in soil and groundwater beneath the site appeared to be within the natural background levels. The groundwater gradient of the first encountered water bearing zone beneath the site was interpreted to be approximately 0.004 with the flow direction to the northeast.

CURRENT QUARTER MONITORING RESULTS

Groundwater Level Measurements and Gradient Evaluation

Depth to water-level measurements were obtained in groundwater monitoring wells A-1 through A-3 on February 25 and March 23, 1994. Static groundwater levels were measured from the surveyed top of each well casing and recorded to the nearest $\pm$0.01 foot. Water-level data were referenced to Mean Sea Level (MSL) datum and used to construct potentiometric maps (Figures 3 and 4). The shallow groundwater hydraulic gradient was interpreted to be approximately 0.01 with a flow direction toward the northeast.

Each well was inspected for the presence of floating product. Floating product was not observed in any well during this quarter. Current and previous depth-to-groundwater and floating product measurements are summarized in Table 1, Groundwater Monitoring Data.

Chemical Analyses of Groundwater Samples

Groundwater samples were collected from groundwater monitoring wells A-1 through A-3 by G-R personnel on March 23, 1994. Samples were analyzed by Western Environmental Science and Technology of Davis, California (WEST), a State-certified laboratory (Hazardous Waste Testing Laboratory Certification #1346). The groundwater samples were analyzed for TPH-G using Modified EPA Method 8015/Purge-and-Trap; BTEX using EPA method 602/Purge-and-Trap; TPH-D and TPH-MO using Modified EPA Method 8015/Extraction; O&G using Standard Methods 5520 B,F; VOCs using EPA Method 624; and metals Cd, Cr, Pb, Ni and Zn using EPA Method 7000/6010/200.7.

The groundwater sampling report is presented in Appendix A, and Laboratory Analytical Report and Chain-of-Custody record are presented in Appendix B. Laboratory analytical results for groundwater samples collected from wells A-1 through A-3 indicated nondetectable concentrations of TPH-G, BTEX, TPH-D, TPH-MO, O&G and VOC (see method detection limits in the laboratory report). Concentrations of metals cadmium, chromium, lead, nickel and zinc were up to 8.3 ppb, 78 ppb, 18 ppb, 46 ppb, and 71 ppb, respectively. Current and previous analytical data for wells A-1 through A-3 are summarized in Table 2, Groundwater Quality Database. A chemical concentration map for TPH-G and benzene is presented on Figure 4.

DISCUSSION AND RECOMMENDATIONS

Groundwater elevations increased an average of about ½ of a foot between December 1993 and March 1994. The groundwater gradient and flow direction for this quarter is generally consistent with the previously interpreted gradient and flow direction.

Concentrations of TPH-G, BTEX, TPH-D, TPH-MO, O&G and VOC have remained nondetectable in samples from groundwater monitoring wells A-1 through A-3 since the fourth quarter 1993. Concentrations of metals in samples from groundwater beneath the site have not changed significantly since the fourth quarter 1993, and appear to be within the natural background levels.

Because concentrations of VOC were nondetectable (except low concentrations of BTX, methylene chloride, and acetone) in the groundwater sample collected from the former waste-oil tank pit and were nondetectable in wells A-1 through A-3 in December and March 1994, GSI recommends to discontinue sampling of wells A-1 through A-3 for VOC.

If you have any questions please call us at (510) 551-8777.

Attachments:

Table 1. Groundwater Monitoring Data
Table 2. Laboratory Analyses of Groundwater Samples

Figure 1. Vicinity Map
Figure 2. Site Plan
Figure 3. Potentiometric Map (February 25, 1994)
Figure 4. Potentiometric Map (March 23, 1994)
Figure 5. TPH-G/Benzene Concentration Map

Appendix A: G-R Groundwater Sampling Report
Appendix B: Laboratory Analytical Report and Chain-of-Custody Form

TABLES

TABLE 1
GROUNDWATER MONITORING DATA
Shamrock Ford
Dublin, California

Monitoring Date	Well Number	Depth to Water (ft)	Well Elevation (ft)	Static Water Elevation (ft)	Floating Product Thickness (ft)
23-Dec-93	A-1	6.27	332.88	326.61	0.00
25-Feb-93	A-1	6.13	332.88	326.75	0.00
23-Mar-94	A-1	6.07	332.88	326.81	0.00
23-Dec-93	A-2	7.43	334.16	326.73	0.00
25-Feb-94	A-2	7.05	334.16	327.11	0.00
23-Mar-94	A-2	6.93	334.16	327.23	0.00
23-Dec-93	A-3	7.50	334.18	326.68	0.00
25-Feb-93	A-3	7.19	334.18	326.99	0.00
23-Mar-94	A-3	7.01	334.18	327.17	0.00

Notes:

1. Static water elevations referenced to Mean Sea Level (MSL).
2. Well elevations and depth-to-water measured to top of casing.

TABLE 2
LABORATORY ANALYSES OF GROUNDWATER SAMPLES
Shamrock Ford
Dublin, California

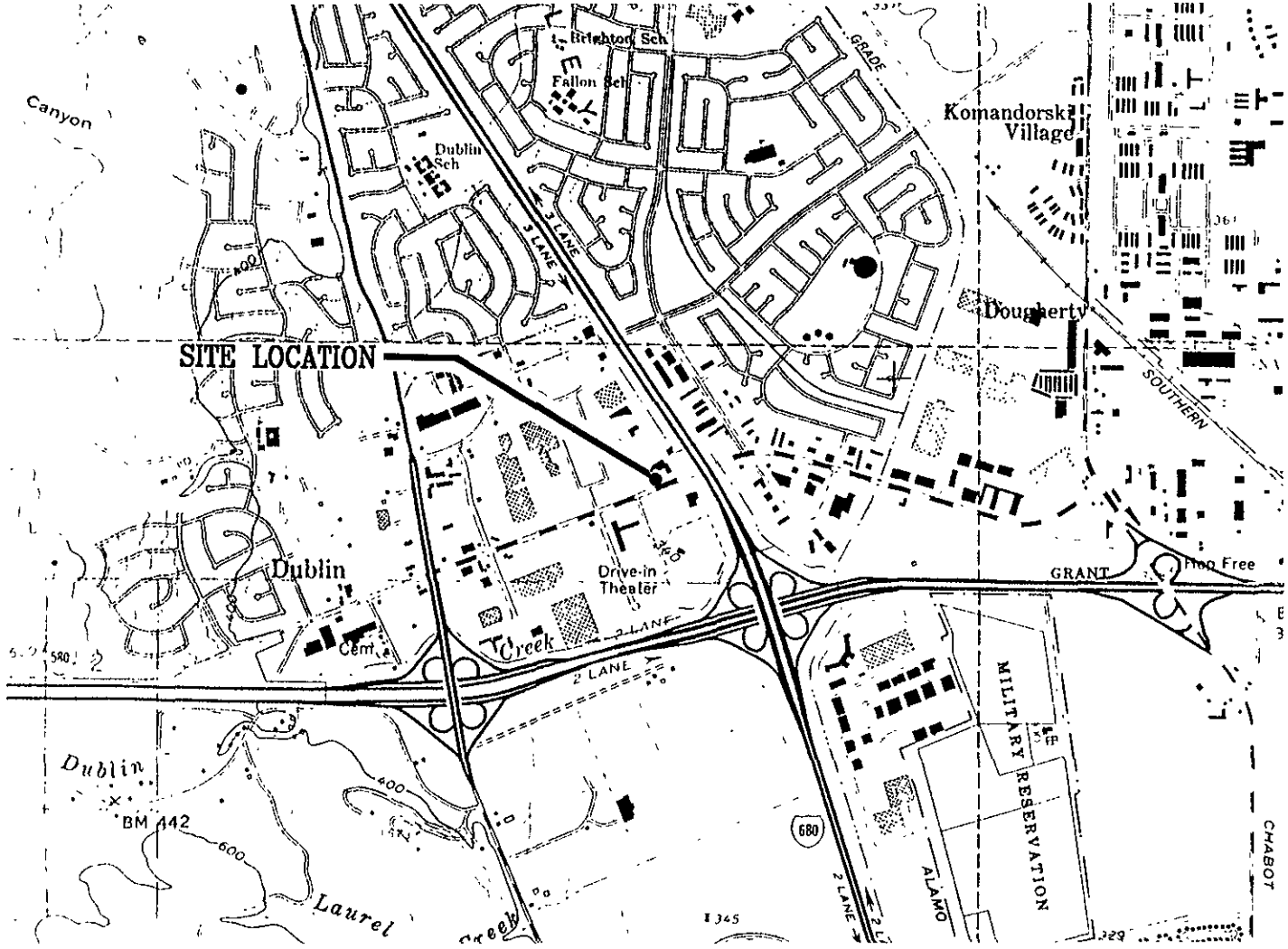
SAMPLE DATE	SAMPLE POINT	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZE -NE (PPB)	XYLENES (PPB)	TPH-D (PPB)	TPH-MO (PPB)	O&G (PPB)	VOCs (PPB)	METALS (PPB) Cd	Cr	Pb	Zn	Ni
23-Dec-93	A-1	<50	<0.30	<0.30	<0.30	<0.50	<50	<100	<1000	ND*	5.2	54	4.0	42	41
23-Mar-94	A-1	<50	<0.30	<0.30	<0.30	<0.50	<50	<100	<1000	ND*	5.8	33	18	22	12
23-Dec-93	A-2	<50	<0.30	<0.30	<0.30	<0.50	<50	<100	<1000	ND*	13	190	15	210	150
23-Mar-93	A-2	<50	<0.30	<0.30	<0.30	<0.50	<50	<100	<1000	ND*	8.3	73	5.3	46	56
23-Dec-93	A-3	<50	<0.30	<0.30	<0.30	<0.50	<50	<100	<1000	ND*	5.5	51	3.5	39	32
23-Dec-93	A-3	<50	<0.30	<0.30	<0.30	<0.50	<50	<100	<1000	ND*	7.6	78	6.5	45	71

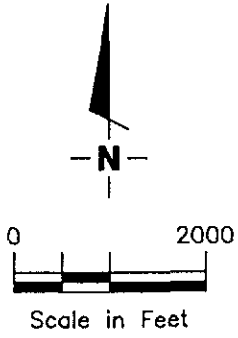
Current Regional Water Quality Control Board Maximum Contaminant Levels:
Benzene 1.0 ppb, Xylenes 1750 ppb, Ethylbenzene 680 ppb, Cadmium 10 ppb, Chromium 50 ppb, Lead 50 ppb, Nickel 100 ppb, Zinc 5,000 ppb.
Current Cal EPA Action Levels: Toluene 100 ppb

TPH-G = Total Petroleum Hydrocarbons calculated as Gasoline.
TPH-D = Total Petroleum Hydrocarbons calculated as Diesel.
TPH-MO = Total Petroleum Hydrocarbons calculated as Motor Oil.
O&G = Oil and Grease
VOCs = Volatile Organic Compounds.
PPB = Parts per Billion
Cd = Cadmium
Cr = Chromium
Pb = Lead
Zn = Zinc
Ni = Nickel
ND = Not detected
* = 38 compounds tested

Notes: 1. All data shown as <x are reported as ND (none detected).

ILLUSTRATIONS





Base Map: USGS Topographic Map

GeoStrategies Inc.

VICINITY MAP
SHAMROCK FORD
7499 Dublin Boulevard
Dublin, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
6130		8/93	

FIGURE 2

EXPLANATION

- Groundwater monitoring well

3C
3B
BUILDING
3A
TRAILER 4
PARKING
PLANTER
DUBLIN BOULEVARD
PARKING
PARKING
1A
DISPLAY SPACES
PLANTER
BUILDING
PARKING
1B
DISPLAY SPACES
PLANTER
BUILDING
2
C
FORMER W.O. UST
PARKING
DISPLAY SPACES
FORMER GASOLINE UST
A-1
A-2
A-3
PLANTER
PLANTER
PLANTER
AMADOR PLAZA ROAD

Base Map: Modified from plan supplied by Shamrock Ford

0 60
Scale in Feet

SITE PLAN
SHAMROCK FORD
7499 Dublin Boulevard
Dublin, California

GeoStrategies Inc.

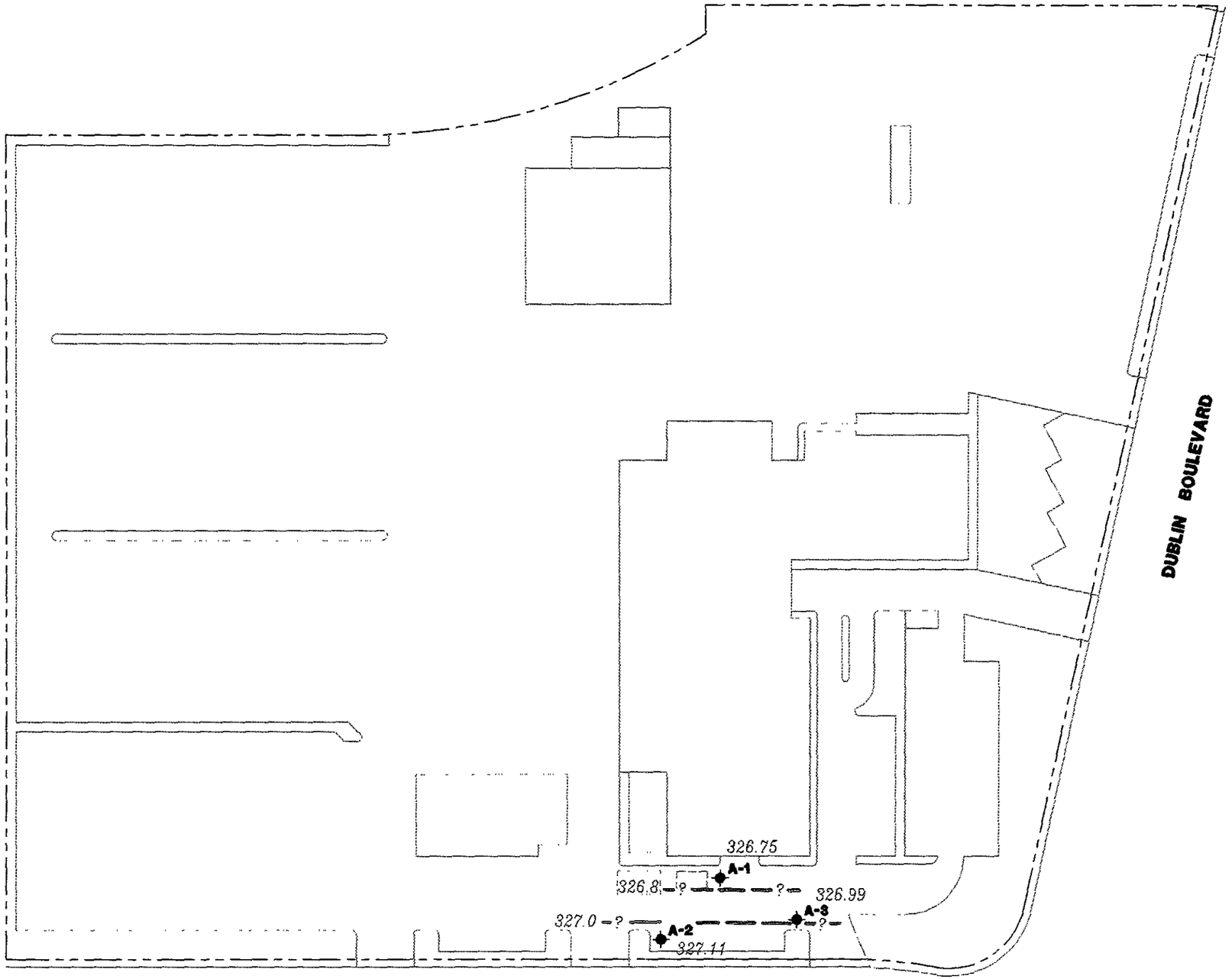
GSI

JOB NUMBER 6130
DATE 4/94
REVIEWED BY
REVISED DATE

FIGURE 3

EXPLANATION

- Groundwater monitoring well
- 99.99 — Groundwater elevation in feet referenced to Mean Sea Level (MSL) measured on February 25, 1994
- 99.99 — Groundwater elevation contour. Approximate Gradient = 0.01



Base Map: Modified from plan supplied by Shamrock Ford

0 60
Scale in Feet

POTENTIOMETRIC MAP (February 25, 1994)
SHAMROCK FORD
7499 Dublin Boulevard
Dublin, California

GeoStrategies Inc.

GSI

JOB NUMBER 613001-4
REVIEWED BY
DATE 4/94

REVISED DATE

EXPLANATION

- Groundwater monitoring well
- *99.99* Groundwater elevation in feet referenced to Mean Sea Level (MSL) measured on March 23, 1994
- 99.99 Groundwater elevation contour. Approximate Gradient = 0.01

DUBLIN BOULEVARD

326.81
A-1
327.0
327.17
A-3
327.2
A-2
327.23

AMADOR PLAZA ROAD

Base Map: Modified from plan supplied by Shamrock Ford

0 60
Scale in Feet

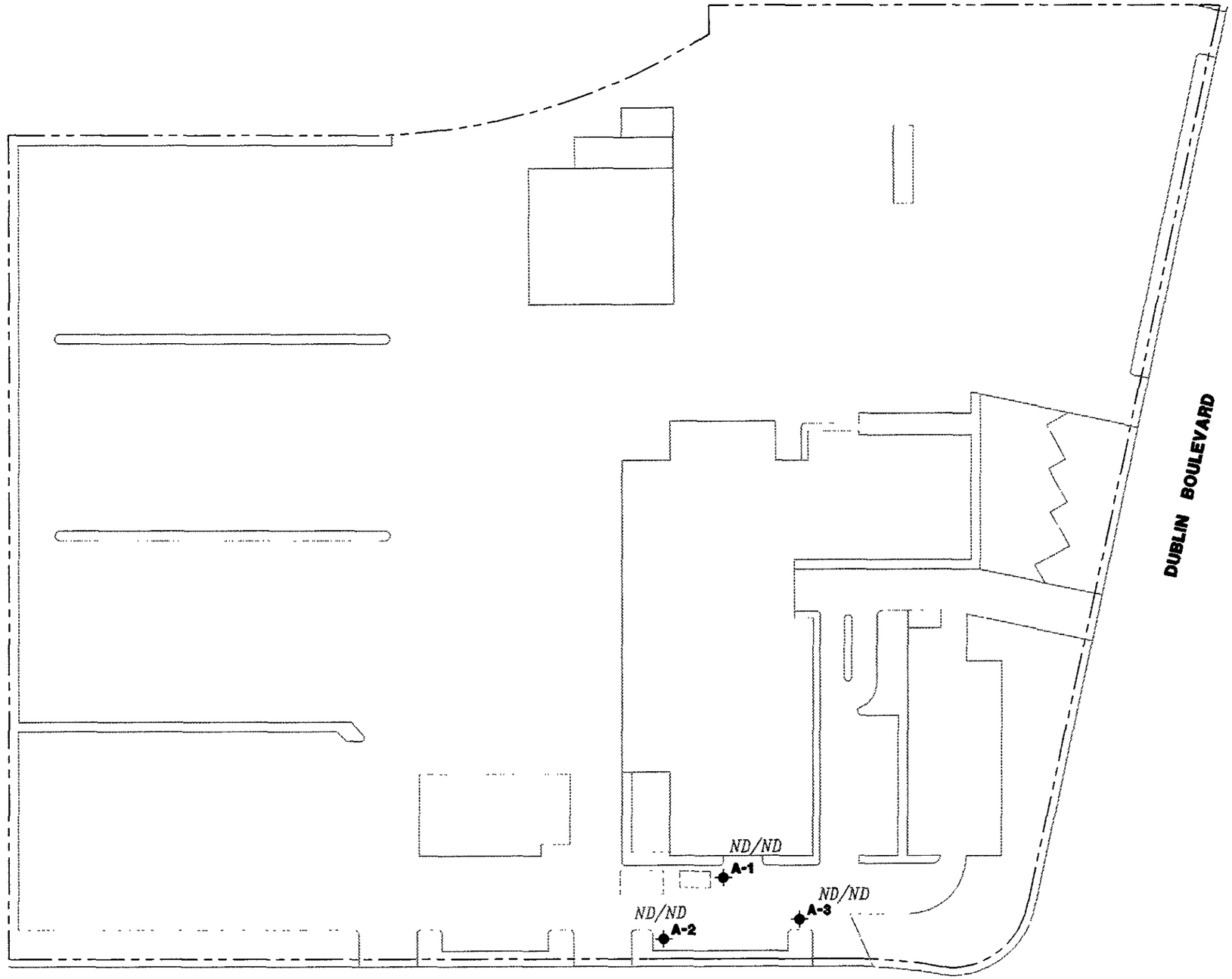
FIGURE 4

POTENTIOMETRIC MAP (March 23, 1994)
SHAMROCK FORD
7499 Dublin Boulevard
Dublin, California

GeoStrategies Inc.

GSI

JOB NUMBER 613001—4
DATE 4/94
REVIEWED BY
REVISED DATE



EXPLANATION

✦	Groundwater monitoring well
99/9.9	TPH–G (Total Petroleum Hydrocarbons calculated as Gasoline)/Benzene concentrations in ppb sampled on March 23, 1994
ND	Not Detected (See laboratory reports for detection limits)
NS	Not Sampled

Base Map: Modified from plan supplied by Shamrock Ford

0 60

Scale in Feet

FIGURE **5**

TPH–G/BENZENE CONCENTRATION MAP
SHAMROCK FORD
7499 Dublin Boulevard
Dublin, California

REVISED DATE

DATE 4/94

GeoStrategies Inc.

GSI

JOB NUMBER 613001–4

REVIEWED BY BS

APPENDIX A

G-R GROUNDWATER SAMPLING REPORT

GETTLER-RYAN INC.

General and Environmental Contractors

MONITORING WELL

OBSERVATION SUMMARY SHEET

COMPANY Shamrock Ford

JOB NO. 6130.01

LOCATION 7499 Dublin Blvd

DATE 2-25-94

CITY Dublin

TIME

WELL ID	TOTAL WELL DEPTH	DEPTH TO LIQUID	HYDROCARBON THICKNESS	MEASUREMENT POINT TOB or TOC	COMMENTS
A-1	15'	6.13	0	TOC	
A-2	15'	7.05	0	TOC	
A-3	15'	7.19	0	TOC	

Comments:

Sampler: B. Sieminski

Assistant:

GETTLER-RYAN INC.

General and Environmental Contractors

MONITORING WELL

OBSERVATION SUMMARY SHEET

COMPANY: Arc Shamrock Ford

JOB NO.: 6120.01

LOCATION: 7499 Dublin Blvd

DATE: 3-23-94

CITY: Dublin CA

TIME:

WELL ID	TOTAL WELL DEPTH	DEPTH TO LIQUID	HYDROCARBON THICKNESS	MEASUREMENT POINT TOB or TOC	COMMENTS
A-1	15'	6.07	-	TOC	
A-2	15'	6.93	-		
A-3	15'	7.01	-		

Comments:

Sampler: F. Cline

Assistant:

GETTLER–RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY Shamrock Ford JOB # 8130.01

LOCATION 7499 Dublin Blvd DATE 3-23-94

CITY Dublin CA TIME

Well ID. A-1 Well Condition clay

Well Diameter 2" in. Hydrocarbon Thickness — ft.

Total Depth 15' ft.

Depth to Liquid- 6.07 ft.

Volume Factor (VF)	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 5 x 8.93 x(VF) 6.17 = (Estimated Purge Volume) (1.5) 7.5 gal.

Purging Equipment Bailer

Sampling Equipment Bailer

Starting Time 6:16am Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
6:18	7.24	1465	58.9	1.5
6:20	7.29	1482	54.5	3.0
6:22	7.30	1466	63.6	4.5
6:25	7.40	1480	63.1	6.0
6:27	7.29	1419	63.0	7.5

Did well dewater? No If yes, time Volume

Sampling Time 6:35 Weather Conditions

Analysis Bottles Used

Chain of Custody Number

COMMENTS well drew down to 14' allow to recover 10 minutes prior to sampling

FOREMAN FCh ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY Shamrock Food JOB # 8130.01

LOCATION 7499 Dublin Blvd DATE 3-23-94

CITY Dublin CA TIME

Well ID. A-2 Well Condition clear

Well Diameter 2" in. Hydrocarbon Thickness — ft.

Total Depth 15' ft.

Depth to Liquid- 6.93 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 5 x 8.07 x(VF) 0.17 = (Estimated Purge Volume) 1.37 6.85 gal.

Purging Equipment Bailer

Sampling Equipment Bailer

Starting Time 9:07 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
9:09	7.50	1241	61.7	1.4
9:11	7.48	1272	61.4	2.8
9:13	7.42	1298	63.2	4.2
9:15	7.44	1290	62.9	5.6
9:17	7.43	1295	62.9	7.0

Did well dewater? No If yes, time Volume

Sampling Time 9:30 Weather Conditions

Analysis See chain Bottles Used 13

Chain of Custody Number

COMMENTS

FOREMAN Fidel ASSISTANT

GETTLER-RYAN INC.

General and Environmental Contractors

WELL SAMPLING
FIELD DATA SHEET

COMPANY Shamrock Food JOB # 6130.01

LOCATION 7499 Dublin Blvd DATE 3-23-94

CITY Dublin CA TIME

Well ID. A-3 Well Condition dry

Well Diameter 2" in. Hydrocarbon Thickness — ft.

Total Depth 15' ft.

Depth to Liquid- 7.01 ft.

Volume Factor (VF)			
	2" = 0.17	6" = 1.50	12" = 5.80
	3" = 0.38	8" = 2.60	
	4" = 0.66	10" = 4.10	

(# of casing volumes) 5 x 7.99 x(VF) 0.17 = (Estimated Purge Volume) 1.3 G.8 gal.

Purging Equipment Bailer

Sampling Equipment Bailer

Starting Time 7:03 Purging Flow Rate gpm.

(Estimated Purge Volume) gal. / (Purging Flow Rate) gpm. = (Anticipated Purging Time) min.

Time	pH	Conductivity	Temperature	Volume
7:05	7.47	1286	60.6	1.3
7:07	7.42	1323	61.2	2.6
7:09	7.39	1273	62.5	3.9
7:11	7.36	1286	62.6	5.2
7:13	7.37	1279	62.6	6.8

Did well dewater? No If yes, time Volume

Sampling Time 7:15 Weather Conditions

Analysis See chain Bottles Used

Chain of Custody Number

COMMENTS

FOREMAN FCL ASSISTANT

Gettler - Ryan Inc. — ENVIRONMENTAL DIVISION — 2096 Chain of Custody

COMPANY Shamrock Ford — JOB NO.

JOB LOCATION 7499 Dublin Blvd — 3/23/94

CITY Dublin CA — PHONE NO. 01 TP

AUTHORIZED Tom Paulsen — DATE 3-23-94 — P.O. NO. 8130.76

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
A-1	13	Liquid	3-23-94/6:35	THC(Gas) EPA 8015	
A-2	13	"	" 9:30	BTXE (EPA 8020)	
A-3	13	"	" 7:15	TPH Diesel & Motor Oil (EPA 8015 / Extraction)	
				O&G (SM5520B&F)	
				VOC EPA 624	
				Metals Cd Cr Pb Ni Zn	
Trip Blank	2	Liquid	~~3-~~	THC Gas BTXE, EPA 624	

RELINQUISHED BY: [signature] 3-23-94

RECEIVED BY: [signature] 3-23-94 14:00

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY LAB:

DESIGNATED LABORATORY: Western Environmental — DHS #:

REMARKS: Sciences Tech of Davis

Normal report turn Around

DATE COMPLETED 3-23-94 — FOREMAN

APPENDIX B

LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORM

March 30, 1994
Sample Log 8965

Tom Paulson
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, CA 94568

Subject: Analytical Results for 4 Water Samples
Identified as: Shamrock Ford
Received: 03/23/94
Purchase Order: 8130.01

Dear Mr. Paulson:

Analysis of the sample(s) referenced above has been completed. This report is written to confirm results communicated on March 30, 1994 and describes procedures used to analyze the samples.

The sample(s) were received in:

1-L polyethylene bottles with polyethylene caps
1-L glass bottles sealed with TFE-lined caps
40-ml glass vials sealed with TFe-lined septae

Each sample was transported and received under documented chain of custody, assigned a consecutive log number and stored at 4 degrees Celsius until analysis commenced.

Sample(s) were analyzed using the following method(s):

"BTEX" (EPA Method 602/Purge-and-Trap)
"TPH as Gasoline" (Modified EPA Method 8015/Purge-and-Trap)
"TPH as Diesel,Motor Oil,Jet/Kerosene" (Mod. 8015/Extraction)
"Oil and Grease" (Standard Methods 5520 B,F)
"Volatile Organic Priority Pollutants" (EPA Method 624)

Please refer to the following table(s) for summarized analytical results and contact us at 916-753-9500 if you have questions regarding procedures or results. The chain-of-custody document is enclosed.

Approved by:

Mitra Sarkhosh
Senior Chemist

March 30, 1994
Sample Log 8965

Sample: A-1

From : Shamrock Ford
Sampled : 03/23/94
Matrix : Water

Received : 03/23/94
Analyzed : 03/25/94

624 - Volatile Organic Priority Pollutants

Parameter	(MRL) ug/L	Measured Value ug/L	Flag
Chloromethane	(2.0)	< 2.0	
Bromomethane	(2.0)	< 2.0	
cis-1,2-Dichloroethene	(1.0)	< 1.0	
trans-1,2-Dichloroethene	(1.0)	< 1.0	
Vinyl Chloride	(2.0)	< 2.0	
Chloroethane	(2.0)	< 2.0	
Methylene Chloride	(1.0)	< 1.0	
Acetone	(50)	< 50	
Carbon Disulfide	(1.0)	< 1.0	
1,1-Dichloroethene	(1.0)	< 1.0	
1,1-Dichloroethane	(1.0)	< 1.0	
Chloroform	(1.0)	< 1.0	
1,2-Dichloroethane	(1.0)	< 1.0	
2-Butanone	(20)	< 20	
1,1,1-Trichloroethane	(1.0)	< 1.0	
Carbon Tetrachloride	(1.0)	< 1.0	
Bromodichloromethane	(1.0)	< 1.0	
1,2-Dichloropropane	(1.0)	< 1.0	
cis-1,3-Dichloropropene	(1.0)	< 1.0	
Trichloroethene	(1.0)	< 1.0	
Dibromochloromethane	(1.0)	< 1.0	
1,1,2-Trichloroethane	(1.0)	< 1.0	
Benzene	(1.0)	< 1.0	
trans-1,3-Dichloropropene	(1.0)	< 1.0	
Bromoform	(1.0)	< 1.0	
4-Methyl-2-Pentanone	(10)	< 10	
1,3-Dichlorobenzene	(1.0)	< 1.0	
1,2-Dichlorobenzene	(1.0)	< 1.0	
1,4-Dichlorobenzene	(1.0)	< 1.0	
2-Hexanone	(10)	< 10	
Tetrachloroethene	(1.0)	< 1.0	
1,1,2,2-Tetrachloroethane	(1.0)	< 1.0	
Toluene	(1.0)	< 1.0	
Chlorobenzene	(1.0)	< 1.0	
Ethylbenzene	(1.0)	< 1.0	
Styrene	(1.0)	< 1.0	
P,M-Xylene	(1.0)	< 1.0	
O-Xylene	(1.0)	< 1.0	

Joel Kiff
Senior Chemist

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March 30, 1994
Sample Log 8965

Sample: A-2

From : Shamrock Ford
Sampled : 03/23/94
Matrix : Water

Received : 03/23/94
Analyzed : 03/25/94

624 - Volatile Organic Priority Pollutants

Parameter	(MRL) ug/L	Measured Value ug/L	Flag
Chloromethane	(2.0)	< 2.0	
Bromomethane	(2.0)	< 2.0	
cis-1,2-Dichloroethene	(1.0)	< 1.0	
trans-1,2-Dichloroethene	(1.0)	< 1.0	
Vinyl Chloride	(2.0)	< 2.0	
Chloroethane	(2.0)	< 2.0	
Methylene Chloride	(1.0)	< 1.0	
Acetone	(50)	< 50	
Carbon Disulfide	(1.0)	< 1.0	
1,1-Dichloroethene	(1.0)	< 1.0	
1,1-Dichloroethane	(1.0)	< 1.0	
Chloroform	(1.0)	< 1.0	
1,2-Dichloroethane	(1.0)	< 1.0	
2-Butanone	(20)	< 20	
1,1,1-Trichloroethane	(1.0)	< 1.0	
Carbon Tetrachloride	(1.0)	< 1.0	
Bromodichloromethane	(1.0)	< 1.0	
1,2-Dichloropropane	(1.0)	< 1.0	
cis-1,3-Dichloropropene	(1.0)	< 1.0	
Trichloroethene	(1.0)	< 1.0	
Dibromochloromethane	(1.0)	< 1.0	
1,1,2-Trichloroethane	(1.0)	< 1.0	
Benzene	(1.0)	< 1.0	
trans-1,3-Dichloropropene	(1.0)	< 1.0	
Bromoform	(1.0)	< 1.0	
4-Methyl-2-Pentanone	(10)	< 10	
1,3-Dichlorobenzene	(1.0)	< 1.0	
1,2-Dichlorobenzene	(1.0)	< 1.0	
1,4-Dichlorobenzene	(1.0)	< 1.0	
2-Hexanone	(10)	< 10	
Tetrachloroethene	(1.0)	< 1.0	
1,1,2,2-Tetrachloroethane	(1.0)	< 1.0	
Toluene	(1.0)	< 1.0	
Chlorobenzene	(1.0)	< 1.0	
Ethylbenzene	(1.0)	< 1.0	
Styrene	(1.0)	< 1.0	
P,M-Xylene	(1.0)	< 1.0	
O-Xylene	(1.0)	< 1.0	

Joel Kiff
Senior Chemist

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March 30, 1994
Sample Log 8965

Sample: A-3

From : Shamrock Ford
Sampled : 03/23/94
Matrix : Water

Received : 03/23/94
Analyzed : 03/25/94

624 - Volatile Organic Priority Pollutants

Parameter	(MRL) ug/L	Measured Value ug/L	Flag
Chloromethane	(2.0)	< 2.0	
Bromomethane	(2.0)	< 2.0	
cis-1,2-Dichloroethene	(1.0)	< 1.0	
trans-1,2-Dichloroethene	(1.0)	< 1.0	
Vinyl Chloride	(2.0)	< 2.0	
Chloroethane	(2.0)	< 2.0	
Methylene Chloride	(1.0)	< 1.0	
Acetone	(50)	< 50	
Carbon Disulfide	(1.0)	< 1.0	
1,1-Dichloroethene	(1.0)	< 1.0	
1,1-Dichloroethane	(1.0)	< 1.0	
Chloroform	(1.0)	< 1.0	
1,2-Dichloroethane	(1.0)	< 1.0	
2-Butanone	(20)	< 20	
1,1,1-Trichloroethane	(1.0)	< 1.0	
Carbon Tetrachloride	(1.0)	< 1.0	
Bromodichloromethane	(1.0)	< 1.0	
1,2-Dichloropropane	(1.0)	< 1.0	
cis-1,3-Dichloropropene	(1.0)	< 1.0	
Trichloroethene	(1.0)	< 1.0	
Dibromochloromethane	(1.0)	< 1.0	
1,1,2-Trichloroethane	(1.0)	< 1.0	
Benzene	(1.0)	< 1.0	
trans-1,3-Dichloropropene	(1.0)	< 1.0	
Bromoform	(1.0)	< 1.0	
4-Methyl-2-Pentanone	(10)	< 10	
1,3-Dichlorobenzene	(1.0)	< 1.0	
1,2-Dichlorobenzene	(1.0)	< 1.0	
1,4-Dichlorobenzene	(1.0)	< 1.0	
2-Hexanone	(10)	< 10	
Tetrachloroethene	(1.0)	< 1.0	
1,1,2,2-Tetrachloroethane	(1.0)	< 1.0	
Toluene	(1.0)	< 1.0	
Chlorobenzene	(1.0)	< 1.0	
Ethylbenzene	(1.0)	< 1.0	
Styrene	(1.0)	< 1.0	
P,M-Xylene	(1.0)	< 1.0	
O-Xylene	(1.0)	< 1.0	

Joel Kiff
Senior Chemist

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March 30, 1994
Sample Log 8965

Sample: TRIP-BLANK

From : Shamrock Ford
Sampled : 03/23/94
Matrix : Water

Received : 03/23/94
Analyzed : 03/25/94

624 - Volatile Organic Priority Pollutants

Parameter	(MRL) ug/L	Measured Value ug/L	Flag
Chloromethane	(2.0)	< 2.0	
Bromomethane	(2.0)	< 2.0	
cis-1,2-Dichloroethene	(1.0)	< 1.0	
trans-1,2-Dichloroethene	(1.0)	< 1.0	
Vinyl Chloride	(2.0)	< 2.0	
Chloroethane	(2.0)	< 2.0	
Methylene Chloride	(1.0)	< 1.0	
Acetone	(50)	< 50	
Carbon Disulfide	(1.0)	< 1.0	
1,1-Dichloroethene	(1.0)	< 1.0	
1,1-Dichloroethane	(1.0)	< 1.0	
Chloroform	(1.0)	< 1.0	
1,2-Dichloroethane	(1.0)	< 1.0	
2-Butanone	(20)	< 20	
1,1,1-Trichloroethane	(1.0)	< 1.0	
Carbon Tetrachloride	(1.0)	< 1.0	
Bromodichloromethane	(1.0)	< 1.0	
1,2-Dichloropropane	(1.0)	< 1.0	
cis-1,3-Dichloropropene	(1.0)	< 1.0	
Trichloroethene	(1.0)	< 1.0	
Dibromochloromethane	(1.0)	< 1.0	
1,1,2-Trichloroethane	(1.0)	< 1.0	
Benzene	(1.0)	< 1.0	
trans-1,3-Dichloropropene	(1.0)	< 1.0	
Bromoform	(1.0)	< 1.0	
4-Methyl-2-Pentanone	(10)	< 10	
1,3-Dichlorobenzene	(1.0)	< 1.0	
1,2-Dichlorobenzene	(1.0)	< 1.0	
1,4-Dichlorobenzene	(1.0)	< 1.0	
2-Hexanone	(10)	< 10	
Tetrachloroethene	(1.0)	< 1.0	
1,1,2,2-Tetrachloroethane	(1.0)	< 1.0	
Toluene	(1.0)	< 1.0	
Chlorobenzene	(1.0)	< 1.0	
Ethylbenzene	(1.0)	< 1.0	
Styrene	(1.0)	< 1.0	
P,M-Xylene	(1.0)	< 1.0	
O-Xylene	(1.0)	< 1.0	

Joel Kiff
Senior Chemist

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March 30, 1994
Sample Log 8965

EPA 624 System Monitoring Compound Recovery

Sample	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
A-1	110	101	106		0
A-2	108	101	105		0
A-3	108	102	106		0
TRIP-BLANK	109	103	108		0

	QC Limits
SMC1 (TOL) = Toluene-d8	(88-120)
SMC2 (BFB) = Bromofluorobenzene	(86-120)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of QC limits

D System Monitoring Compound diluted out

Joel Kiff
Senior Chemist

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April 6, 1994
Sample Log 8965

QC Report for EPA 602 & Modified EPA 8015

From : Shamrock Ford
Received : 03/23/94
Analyzed : 03/26/94
Matrix : Water

Parameter	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery	RPD
Benzene	108	107	1
Ethylbenzene	112	117	4
TPH as Gasoline	92	117	23*

* Although RPD is above the laboratory advisory limit, matrix spike, matrix spike duplicate, and LCS recoveries are all within the acceptance limit.

Parameter	LCS % Recovery
Benzene	112
Toluene	116
Ethylbenzene	113
Total Xylenes	119
TPH as Gasoline	104

EPA 602 Method Blank Water

Analyzed : 03/26/94

Parameter	MRL	Measured Value(ug/L)
Benzene	0.30	<0.30
Toluene	0.30	<0.30
Ethylbenzene	0.30	<0.30
Total Xylenes	0.50	<0.50
TPH as Gasoline	50	<50
a,a,a-Trifluorotoluene (Surrogate)		104 % Recovery

M. Sarkhosh

Mitra Sarkhosh
Senior Chemist

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Sample Log 8965

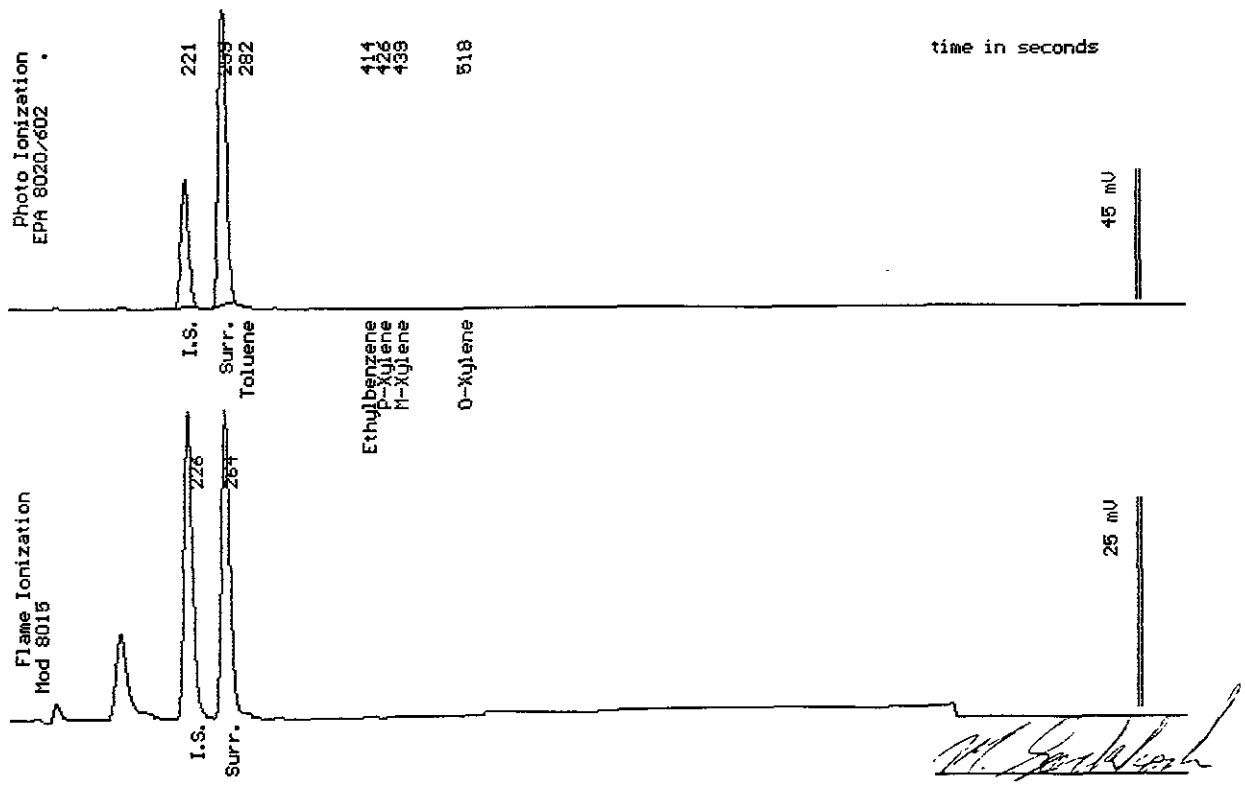
8965-1

Sample: A-1

From : Shamrock Ford
Sampled : 03/23/94
Dilution : 1:1
Matrix : Water

QC Batch : 2064d

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		101 %



Date Analyzed: 03-26-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

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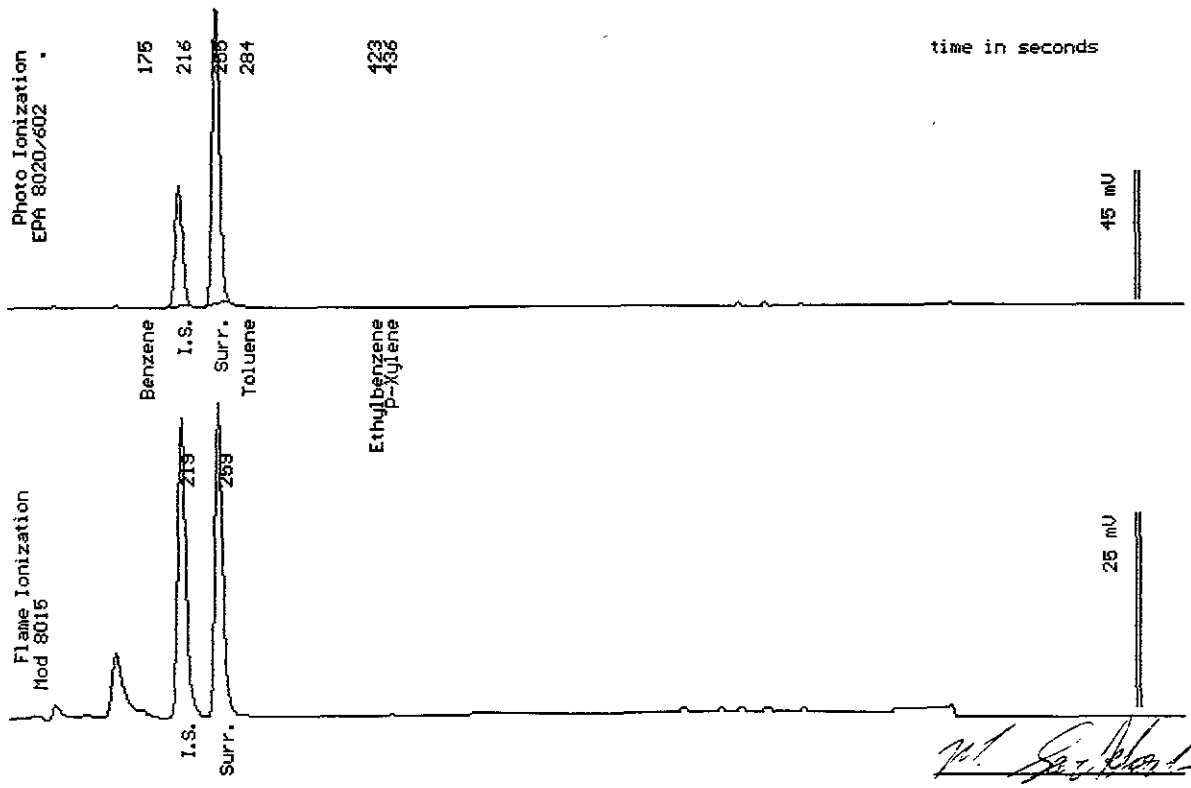
Sample Log 8965
8965-2

Sample: A-2

From : Shamrock Ford
Sampled : 03/23/94
Dilution : 1:1 QC Batch : 2064d
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		100 %



Date Analyzed: 03-26-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

Sample Log 8965

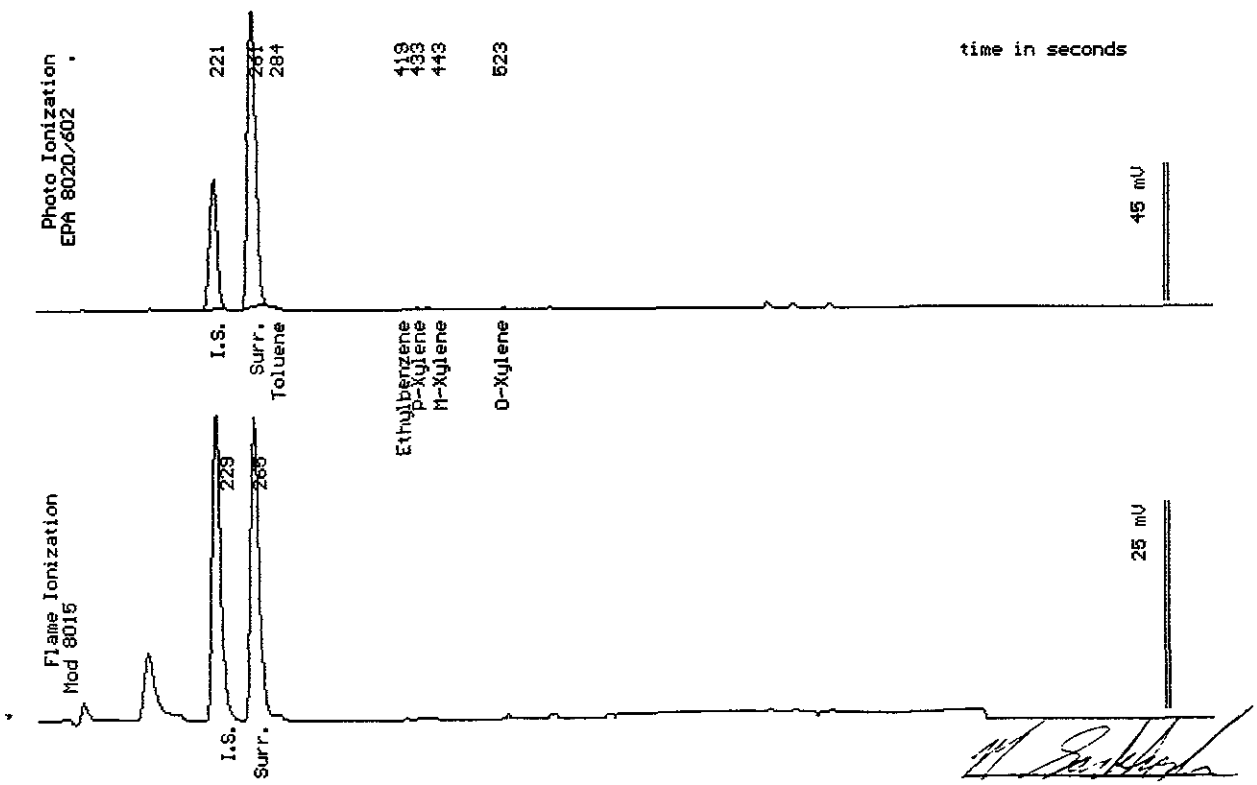
8965-3

Sample: A-3

From : Shamrock Ford
Sampled : 03/23/94
Dilution : 1:1
Matrix : Water

QC Batch : 2064d

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		102 %



Date Analyzed: 03-26-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

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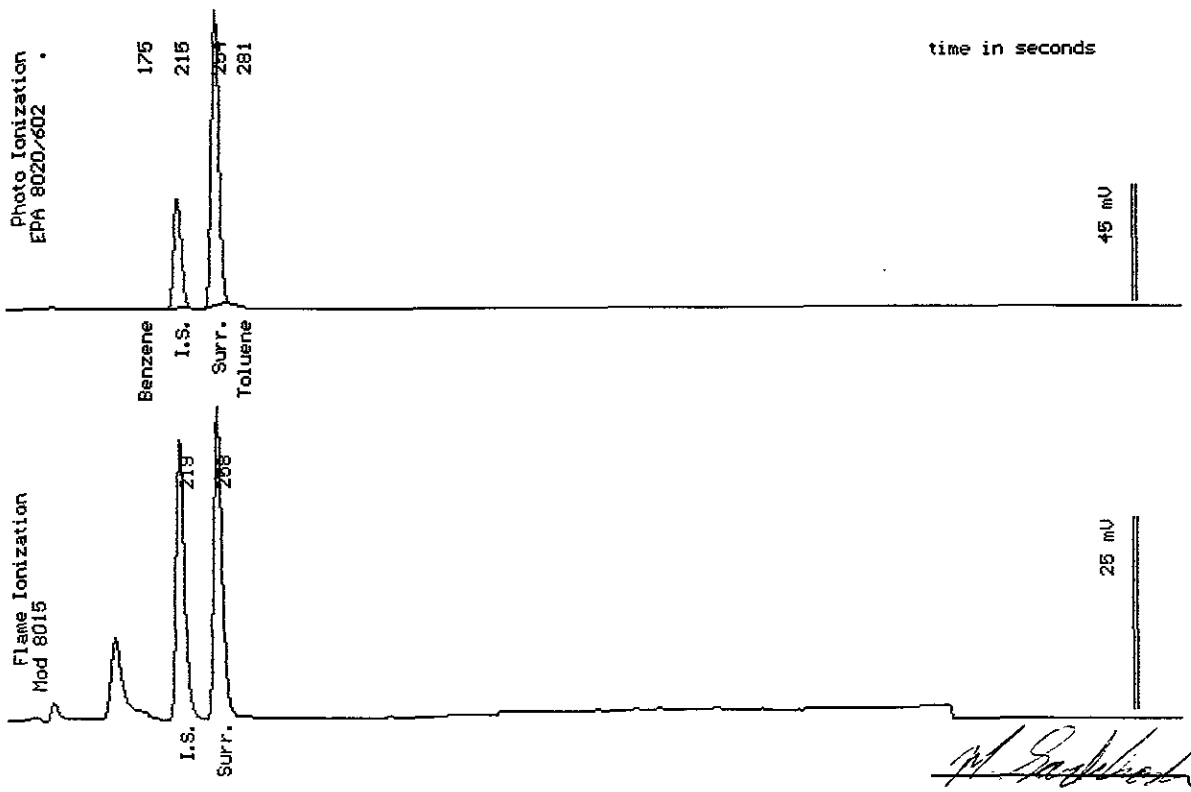
Sample Log 8965

8965-4

Sample: **TRIP-BLANK**

From : Shamrock Ford
Sampled : 03/23/94
Dilution : 1:1 QC Batch : 2064d
Matrix : Water

Parameter	(MRL) ug/L	Measured Value ug/L
Benzene	(.30)	<.30
Toluene	(.30)	<.30
Ethylbenzene	(.30)	<.30
Total Xylenes	(.50)	<.50
TPH as Gasoline	(50)	<50
Surrogate Recovery		99 %



Date Analyzed: 03-26-94
Column : 0.53mm ID X 30m DBWAX (J&W Scientific)

Mitra Sarkhosh
Senior Chemist

March 31, 1994

Metals QC Report for Sample Log 8965

Shamrock Ford Matrix: Water Units: (mg/L)

Analyte	Method Blank Result	MRL	EPA Method	Date Digested	Date Analyzed
Cadium (Cd)	<0.004	0.004	6010	03/25/94	03/28/94
Chromium (Cr)	<0.007	0.007	6010	03/25/94	03/28/94
Lead (Pb)	<0.003	0.003	7421	03/25/94	03/28/94
Nickel (Ni)	<0.015	0.015	6010	03/25/94	03/28/94
Zinc (Zn)	<0.010	0.010	6010	03/25/94	03/28/94

MRL = Method Reporting Limit

Analyte	MS %Recov	MSD %Recov	RPD	EPA Method	Date Digested	Date Analyzed
Cadium (Cd)	115	114	1	6010	03/25/94	03/28/94
Chromium (Cr)	93	95	2	6010	03/25/94	03/28/94
Lead (Pb)	104	109	5	7421	03/25/94	03/28/94
Nickel (Ni)	99	102	3	6010	03/25/94	03/28/94
Zinc (Zn)	100	103	3	6010	03/25/94	03/28/94

MS = Matrix Spike MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

Michelle L. Anderson
Inorganics Supervisor

Western Environmental Science & Technology • 45133 County Road 32B • Davis, CA 95616 • 916 753-9500 • FAX: 916 757-4652

March 28, 1994
Sample Log 8965-1

Sample : A-1
From : Shamrock Ford
Sampled : 03/23/94
Matrix : Water
Units : mg/L

Received : 03/23/94

5 LUFT "Waste Oil" Metals

Parameter	EPA Method	Date Digested	Date Analyzed	MRL*	Result
Cadmium	6010	03/25/94	03/28/94	(0.004)	0.0058
Chromium	6010	03/25/94	03/28/94	(0.007)	0.033
Lead	7421	03/25/94	03/28/94	(0.003)	0.018
Nickel	6010	03/25/94	03/28/94	(0.015)	0.022
Zinc	6010	03/25/94	03/28/94	(0.010)	0.012

* MRL = Method Reporting Limit

Michelle L. Anderson
Metals Supervisor

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March 28, 1994
Sample Log 8965-2

Sample : A-2
From : Shamrock Ford
Sampled : 03/23/94 Received : 03/23/94
Matrix : Water
Units : mg/L

5 LUFT "Waste Oil" Metals

Parameter	EPA Method	Date Digested	Date Analyzed	MRL*	Result
Cadmium	6010	03/25/94	03/28/94	(0.004)	0.0083
Chromium	6010	03/25/94	03/28/94	(0.007)	0.073
Lead	7421	03/25/94	03/28/94	(0.003)	0.0053
Nickel	6010	03/25/94	03/28/94	(0.015)	0.046
Zinc	6010	03/25/94	03/28/94	(0.010)	0.056

* MRL = Method Reporting Limit

Michelle L. Anderson
Metals Supervisor

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March 28, 1994
Sample Log 8965-3

Sample : A-3
From : Shamrock Ford
Sampled : 03/23/94
Matrix : Water
Units : mg/L

Received : 03/23/94

5 LUFT "Waste Oil" Metals

Parameter	EPA Method	Date Digested	Date Analyzed	MRL*	Result
Cadmium	6010	03/25/94	03/28/94	(0.004)	0.0076
Chromium	6010	03/25/94	03/28/94	(0.007)	0.078
Lead	7421	03/25/94	03/28/94	(0.003)	0.0065
Nickel	6010	03/25/94	03/28/94	(0.015)	0.045
Zinc	6010	03/25/94	03/28/94	(0.010)	0.071

* MRL = Method Reporting Limit

Michelle L. Anderson
Metals Supervisor

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April 6, 1994
Sample Log 8965

QC Report
From : Shamrock Ford

Spike and Spike Duplicate Results **Matrix: Water**

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
QC Batch KW940303			
O&G Gravimetric	91	92	1

Laboratory Control Spike **Matrix: Water**

Paramater	Laboratory Control Spike (%Rec)
QC Batch KW940303	
O&G Gravimetric	92

Method Blank **Matrix: Water**

Parameter	MDL(ug/L)	Measured Value(ug/L)
QC Batch KW940303		
O&G Gravimetric	(1000)	<1000

D. Podolsky

Stewart Podolsky
Senior Chemist

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March 30, 1994
Sample Log 8965

Total Oil and Grease (Standard Methods 5520 B,F)
From : Shamrock Ford
Received : 03/23/94
Matrix : Water

--all concentrations are units of ug/l--

Sample	Date Sampled	Date Analyzed	RDL	(5520 B,F) Oil and Grease
A-1	03/23/94	03/28/94	(1000)	<1000
A-2	03/23/94	03/28/94	(1000)	<1000
A-3	03/23/94	03/28/94	(1000)	<1000

QC Batch: KW940303

D Podolsky

Stewart Podolsky
Senior Chemist

Western Environmental Science & Technology • 45133 County Road 32B • Davis, CA 95616 • 916 753-9500 • FAX: 916 757-4652

April 6, 1994
Sample Log 8965

QC Report
From : Shamrock Ford

Spike and Spike Duplicate Results **Matrix: Water**

Parameter	Matrix Spike (%Rec)	Matrix Spike Dup. (%Rec)	RPD %
QC Batch DW940314 TPH as Diesel	No sample available for spikes. See duplicate LCS Data.		

Laboratory Control Spike **Matrix: Water**

Parameter	Laboratory Control Spike (%Rec)	Laboratory Control Spike Dup. (%Rec)	RPD %
QC Batch DW940314 TPH as Diesel	95	87	9

Method Blank **Matrix: Water**

Parameter	MDL(ug/L)	Measured Value(ug/L)
QC Batch DW940314		
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100

D. Podolsky

Stewart Podolsky
Senior Chemist

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Sample Log 8965

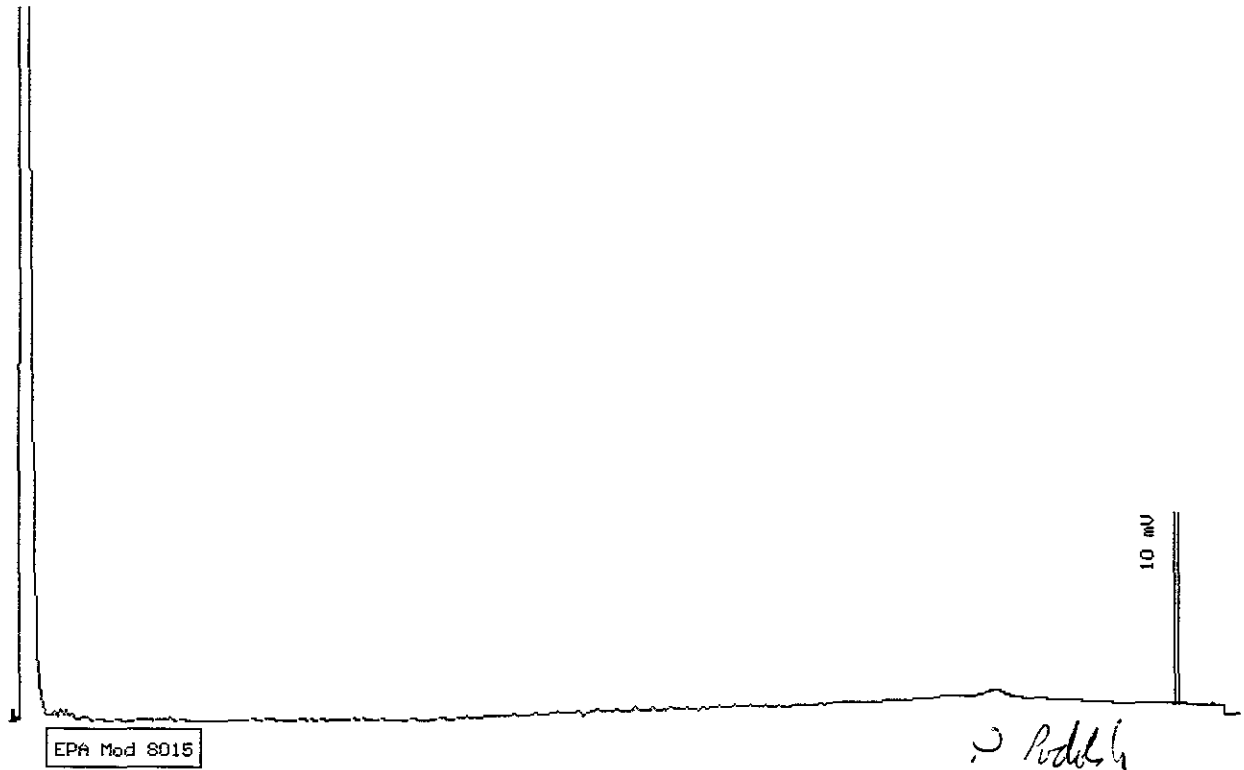
8965-1

Sample: A-1

From : Shamrock Ford
Sampled : 03/23/94
Extracted: 03/29/94
Dilution : 1:1
Matrix : Water

QC Batch : DW940314
Run Log : 7187A

Parameter	(MDL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100



Date: 03-29-94 Time: 15:45:22
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Stewart Podolsky
Senior Chemist

Sample Log 8965

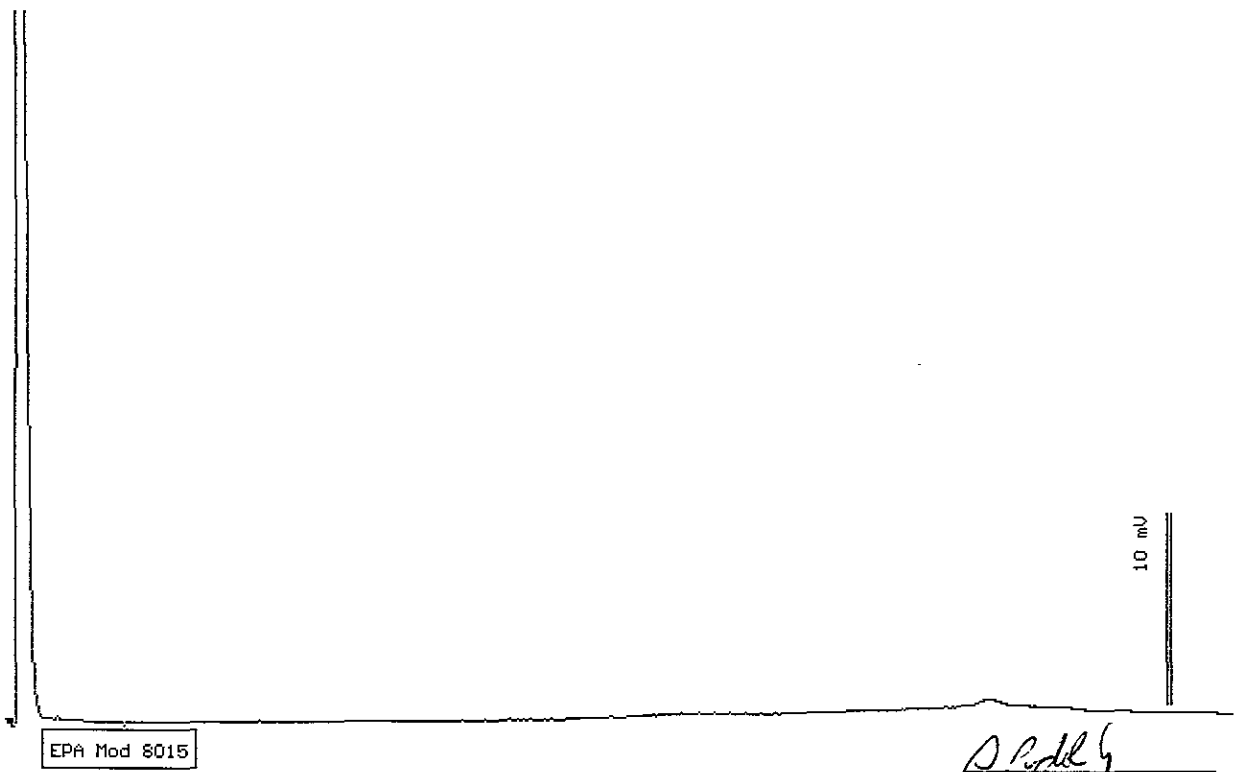
8965-2

Sample: A-2

From : Shamrock Ford
Sampled : 03/23/94
Extracted: 03/29/94
Dilution : 1:1
Matrix : Water

QC Batch : DW940314
Run Log : 7187A

Parameter	(MDL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100



Date: 03-29-94 Time: 16:21:06
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Podolsky
Senior Chemist

Sample Log 8965

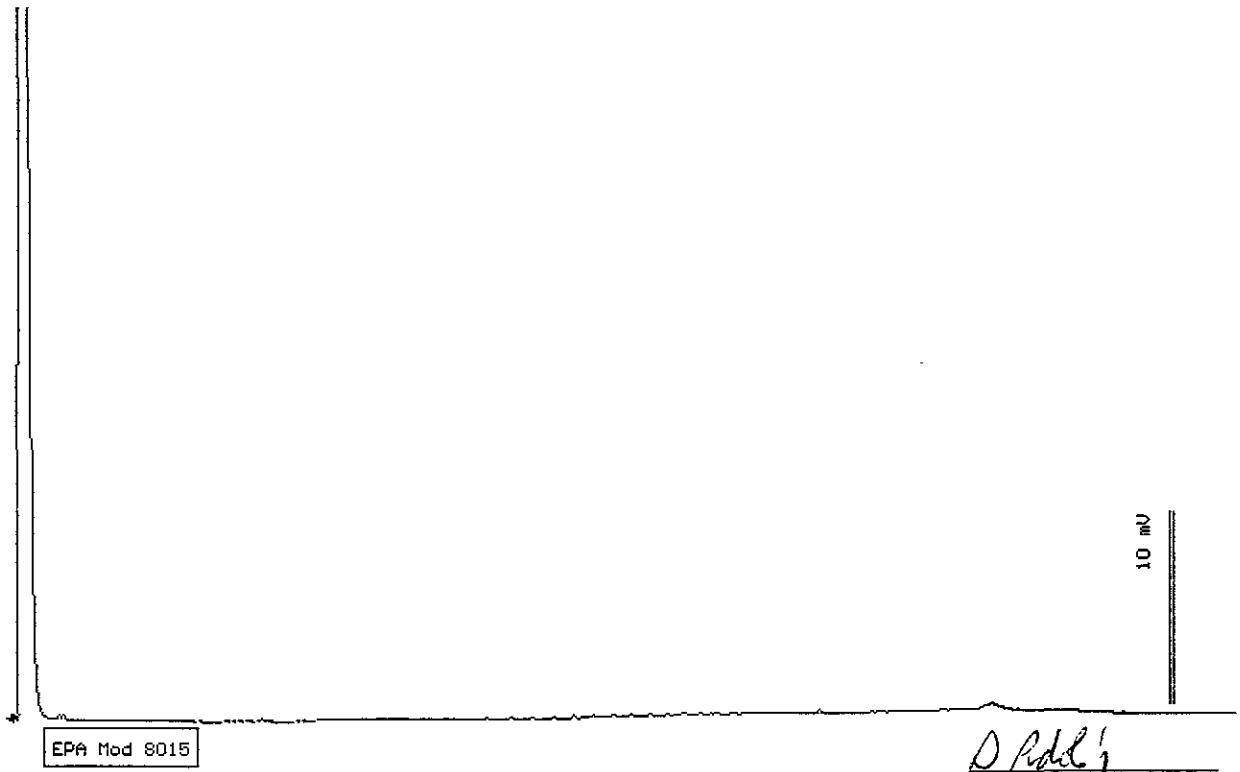
8965-3

Sample: A-3

From : Shamrock Ford
Sampled : 03/23/94
Extracted: 03/29/94
Dilution : 1:1
Matrix : Water

QC Batch : DW940314
Run Log : 7187A

Parameter	(MDL) ug/L	Measured Value ug/L
TPH as Diesel	(50)	<50
TPH as Motor Oil	(100)	<100



Date: 03-29-94 Time: 16:55:48
Column : 0.53mm ID X 15m DB1 (J&W Scientific)

Stewart Poddlsky
Senior Chemist

Settler - Ryan Inc. ENVIRONMENTAL DIVISION — **2096 Chain of Custody**

COMPANY Shamrock Ford JOB NO.

JOB LOCATION 7499 Dublin Blvd 3/23/94

CITY Dublin CA PHONE NO. 01 TP

AUTHORIZED Tom Paulson DATE 3-23-94 P.O. NO. 8130.76

SAMPLE ID	NO. OF CONTAINERS	SAMPLE MATRIX	DATE/TIME SAMPLED	ANALYSIS REQUIRED	SAMPLE CONDITION LAB ID
A-1	13	Liquid	3Z3-94/9:35	THC (Gas) EPA 8015	
A-2	13		9:30	BTXE (EPA 8020)	
A-3	13		17:15	TPH Diesel & Motor Oil (EPA 8015 / Extraction)	
				O&G (SM5520B&F)	
				VOC EPA 624	
				Metals Cd Cr Pb Ni Zn	
TripBlank	2	Liquid	~~3-~~	THC Gas BTXE, EPA 624	

RELINQUISHED BY: 3-23-94 RECEIVED BY: 3-23-94 14:00

RELINQUISHED BY: RECEIVED BY:

RELINQUISHED BY: 3/23/94 @ 15:45 RECEIVED BY LAB: WEST 3/23/94 1545

DESIGNATED LABORATORY: Western Environmental DHS #:

REMARKS: Science Tech of Davis
Normal report turn Around

RECEIVED by W.E.S.T. date 3/23/94

DATE COMPLETED 3-23-94 FOREMAN

ORIGINAL