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SID 381

**Delta**  
Environmental  
Consultants, Inc.

3300 Data Drive, Suite 100  
Rancho Cordova, CA 95670  
916/638-2085  
FAX:916/638-8385

91 APR 31 AM 11:31

April 25, 1991

Mr. Dennis Byrne  
Hazardous Materials Department  
County of Alameda  
470 27th Street  
Oakland, California 94607

Subject: *Quarterly Monitoring Report*  
Shell Service Station  
3420 San Pablo Avenue, Oakland, California  
Shell WIC No. 204-5508-5306  
Delta Project No. 40-88-666

Dear Mr. Byrne:

Enclosed is a copy of Delta Environmental Consultants, Inc., *Quarterly Monitoring Report* for the subject site for your review. This report contains results of quarterly monitoring of ground water elevation and quality conducted on January 28, 1991, at the referenced site.

If you have any questions regarding this matter, please contact me at (916) 638-2085.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**



Hal E. Hansen  
Hydrogeologist/Project Manager

HEH:ria  
Enclosure



**Delta**  
Environmental  
Consultants, Inc.

QUARTERLY MONITORING REPORT, FIRST QUARTER 1991

3420 SAN PABLO AVENUE

OAKLAND, CALIFORNIA

SHELL WIC NO. 204-5508-5306

DELTA PROJECT NO. 40-88-666

**QUARTERLY MONITORING REPORT, FIRST QUARTER 1991**

**3420 SAN PABLO AVENUE  
OAKLAND, CALIFORNIA  
SHELL WIC NO. 204-5508-5306  
DELTA PROJECT NO. 40-88-666**

**Prepared by:**

**DELTA ENVIRONMENTAL CONSULTANTS, INC.  
3330 Data Drive, Suite 100  
Rancho Cordova, California 95670  
(916) 638-2085**

**April 25, 1991**

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QUARTERLY MONITORING REPORT, FIRST QUARTER 1991

3420 SAN PABLO AVENUE  
OAKLAND, CALIFORNIA  
SHELL WIC NO. 204-5508-5306  
DELTA PROJECT NO. 40-88-666

1.0 INTRODUCTION

This report presents results of ground water quality and ground water elevation measurements made by Delta Environmental Consultants, Inc. (Delta), in January 1991 for nine existing monitoring wells at the Shell service station located at 3420 San Pablo Avenue, Oakland, Alameda County, California (site) (Figure 1).

Previous reports on the site include the following:

<u>Report</u>	<u>Date</u>	<u>Author</u>
<i>Soil and Ground Water Investigation</i>	September 1988	Ensco Environmental Services, Inc.
<i>Phase I Hydrogeologic Assessment Investigation</i>	August 14, 1989	Delta
<i>Phase II Hydrogeologic Assessment Investigation</i>	May 30, 1990	Delta
<i>Quarterly Monitoring Report</i>	July 30, 1990	Delta
<i>Quarterly Monitoring Report</i>	October 11, 1990	Delta
<i>Quarterly Monitoring Report</i>	January 4, 1991	Delta

On January 28, 1991, a site visit was made to perform the following:

- Measure and record water levels.
- Collect water samples from monitoring wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9 for analysis of volatile organics and total petroleum hydrocarbons as gasoline (TPH) by U.S. Environmental Protection Agency (EPA) Methods 8015 and 8020.

QUARTERLY MONITORING REPORT, FIRST QUARTER 1991

3420 San Pablo Avenue, Oakland, California

Shell Wic No. 204-5508-5306

Delta Project No. 40-88-666

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2.0 SITE DATA

2.1 Depth to Ground Water Elevations

Depth to ground water was measured and recorded at monitoring wells MW-1, MW-2, MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9 on January 28, 1991. The results are presented in Table 1. During the subjective analysis of water removed from the wells, it was noted that monitoring wells MW-1 and MW-2 contained 0.03 and 0.31 foot of free product, respectively. Monitoring well MW-3 was inaccessible due to a stockpile of gravel overlying the well. Figure 2 is a ground water contour map showing the location of the nine monitoring wells and the measured ground water elevations. The January 28, 1991, ground water elevations indicate a complex pattern of ground water flow. The general trend of ground water flow appears to be toward the south, except for irregularities in the water table surface near monitoring wells MW-5 and MW-9.

2.2 Ground Water Quality

Ground water samples collected from monitoring wells MW-4, MW-5, MW-6, MW-7, MW-8, and MW-9 on January 28, 1991, were analyzed for benzene, toluene, ethylbenzene, xylenes and TPH. Monitoring wells MW-1 and MW-2 were not sampled due to the presence of free product. The results from these laboratory analyses are presented in Table 2. Analytical results from samples collected during previous sampling events are provided for comparison. Copies of certified laboratory reports for the January 28, 1991, sampling event are included in Appendix A.

Dissolved hydrocarbons were detected in samples collected from each monitoring well in January 28, 1991. Benzene concentrations ranged from less than 140 parts per billion (ppb) in monitoring well MW-9 to 3,600 ppb benzene in monitoring well MW-8.

3.0 DISCUSSION

In January 1991, water levels ranged from 9.43 feet below grade in monitoring well MW-7 to 12.70 feet below grade in monitoring well MW-3. Free product thickness in monitoring well MW-1 has decreased from 0.04 to 0.03 foot between October 1990 and January 1991. Dissolved benzene concentrations have decreased in monitoring wells MW-4 and MW-9 between October 1990 and January 1991.

QUARTERLY MONITORING REPORT, FIRST QUARTER 1991

3420 San Pablo Avenue, Oakland, California

Shell Wic No. 204-5508-5306

Delta Project No. 40-88-666

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The laboratory test results indicate that an increase in TPH concentrations occurred between October 1990 and January 1991 in monitoring wells MW-4, MW-5, MW-6, MW-7, and MW-9. The increased concentrations of TPH range from approximately 2,700 ppb in monitoring well MW-5 to 29,300 ppb in monitoring well MW-6.

Delta will continue to monitor water levels and water quality on a quarterly basis. The next sampling event will take place in April 1991. Delta is currently seeking an encroachment permit from the City of Oakland to install an upgradient monitoring well and a monitoring well to assess the lateral extent of petroleum hydrocarbon constituents in ground water to complete the hydrogeologic investigation of this site.

QUARTERLY MONITORING REPORT, FIRST QUARTER 1991

3420 San Pablo Avenue, Oakland, California

Shell Wic No. 204-5508-5306

Delta Project No. 40-88-666

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4.0 REMARKS/SIGNATURES

The recommendations contained in this report represent our professional opinions and are based in part on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. This report has been prepared solely for the use of Shell and any reliance on this report by third parties shall be at such party's sole risk. Other than this, no warranty is implied or intended.

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**

This report was prepared by:

Peter H. Bailey

Peter H. Bailey  
Hydrogeologist

Date

4/25/91

This report was reviewed by:

Hal E. Hansen

Hal E. Hansen  
Project Manager

Date

4-25-91

The work performed in this report was done under the supervision of a California Registered Geologist:

Dale A. van Dam

Dale A. van Dam, R.G.  
California Registered  
Geologist #4632

Date

4/27/91

/law

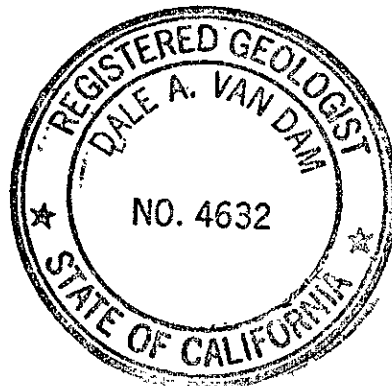




TABLE 1

## Ground Water Elevations

<u>Monitoring Well</u>	<u>Date</u>	<u>Top of Riser Elevation (ft)</u>	<u>Water Depth (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observations</u>
MW-1	06/12/89	21.28	9.57	11.71	---
	01/23/90		9.04	12.24	No product
	02/02/90		8.89	12.39	No product
	02/21/90		8.00	13.28	0.01' Free product
	04/10/90		9.47	11.81	0.01' Free product
	07/26/90		9.73	11.55	0.01' Free product
	10/25/90		12.53	8.75	0.04' Free product
	01/28/91		11.62	9.66	0.03' Free product
MW-2	06/12/89	21.56	7.96	13.60	---
	01/23/90		8.30	13.26	No product
	02/02/90		8.04	13.52	No product
	02/21/90		7.57	13.99	No product
	04/10/90		7.94	13.62	No product
	07/26/90		8.41	13.15	---
	10/25/90		11.13	10.43	---
	01/28/91		9.62	11.94	0.31' Free product
MW-3	06/12/89	21.78	10.77	11.01	---
	01/23/90		9.26	12.52	No sheen or product
	02/02/90		9.33	12.45	No sheen or product
	02/21/90		8.24	13.54	No sheen or product
	04/10/90		10.26	11.52	No sheen or product
	07/26/90		10.98	10.80	---
	10/25/90		12.70	9.08	---
	01/28/91		NM <sup>a</sup>	---	---
MW-4	06/12/89	20.31	11.19	9.12	---
	01/23/90		9.25	11.06	No sheen or product
	02/02/90		8.04	12.27	No sheen or product
	02/21/90		7.90	12.41	---
	04/10/90		9.30	11.01	No sheen or product
	07/26/90		9.56	10.75	---
	10/25/90		11.98	8.33	---
	01/28/91		10.69	9.62	---
MW-5	01/23/90	20.91	7.89	13.02	No sheen or product
	02/02/90		8.23	12.68	No sheen or product
	02/21/90		7.31	13.60	No sheen or product
	04/10/90		9.89	11.72	No sheen or product
	07/26/90		9.80	11.11	---
	10/25/90		11.35	9.56	---
	01/28/91		10.37	10.54	---
MW-6	01/23/90	22.32	7.57	14.75	No sheen or product
	02/02/90		7.86	14.46	No sheen or product
	02/21/90		6.95	15.37	No sheen or product
	04/10/90		9.25	13.07	No sheen or product
	07/26/90		8.64	13.68	---
	10/25/90		11.79	10.53	---
	01/28/91		9.99	12.33	Sheen on VOA sample

TABLE 1-Continued

## Ground Water Elevations

<u>Monitoring Well</u>	<u>Date</u>	<u>Top of Riser Elevation (ft)</u>	<u>Water Depth (ft)</u>	<u>Ground Water Elevation (ft)</u>	<u>Physical Observations</u>
MW-7	01/23/90	20.36	6.98	13.38	No sheen or product
	02/02/90		8.91	11.45	No sheen or product
	02/21/90		6.65	13.71	No sheen or product
	04/10/90		6.99	13.37	No sheen or product
	07/26/90		7.33	13.03	---
	10/25/90		9.43	10.93	---
	01/28/91		7.82	12.54	---
MW-8	01/23/90	20.95	7.19	13.76	---
	02/02/90		7.32	13.36	No sheen or product
	02/21/90		6.90	14.05	No sheen or product
	04/10/90		7.20	13.75	No sheen or product
	07/26/90		7.58	13.37	No sheen or product
	10/25/90		10.11	10.84	---
	01/28/91		9.33	11.62	---
MW-9	01/23/90	21.19	9.31	11.88	---
	02/02/90		9.02	12.17	No sheen or product
	02/21/90		8.28	12.91	No sheen or product
	04/10/90		8.41	12.78	No sheen or product
	07/26/90		9.18	12.01	No sheen or product
	10/25/90		11.57	9.62	---
	01/28/91		10.38	10.81	---

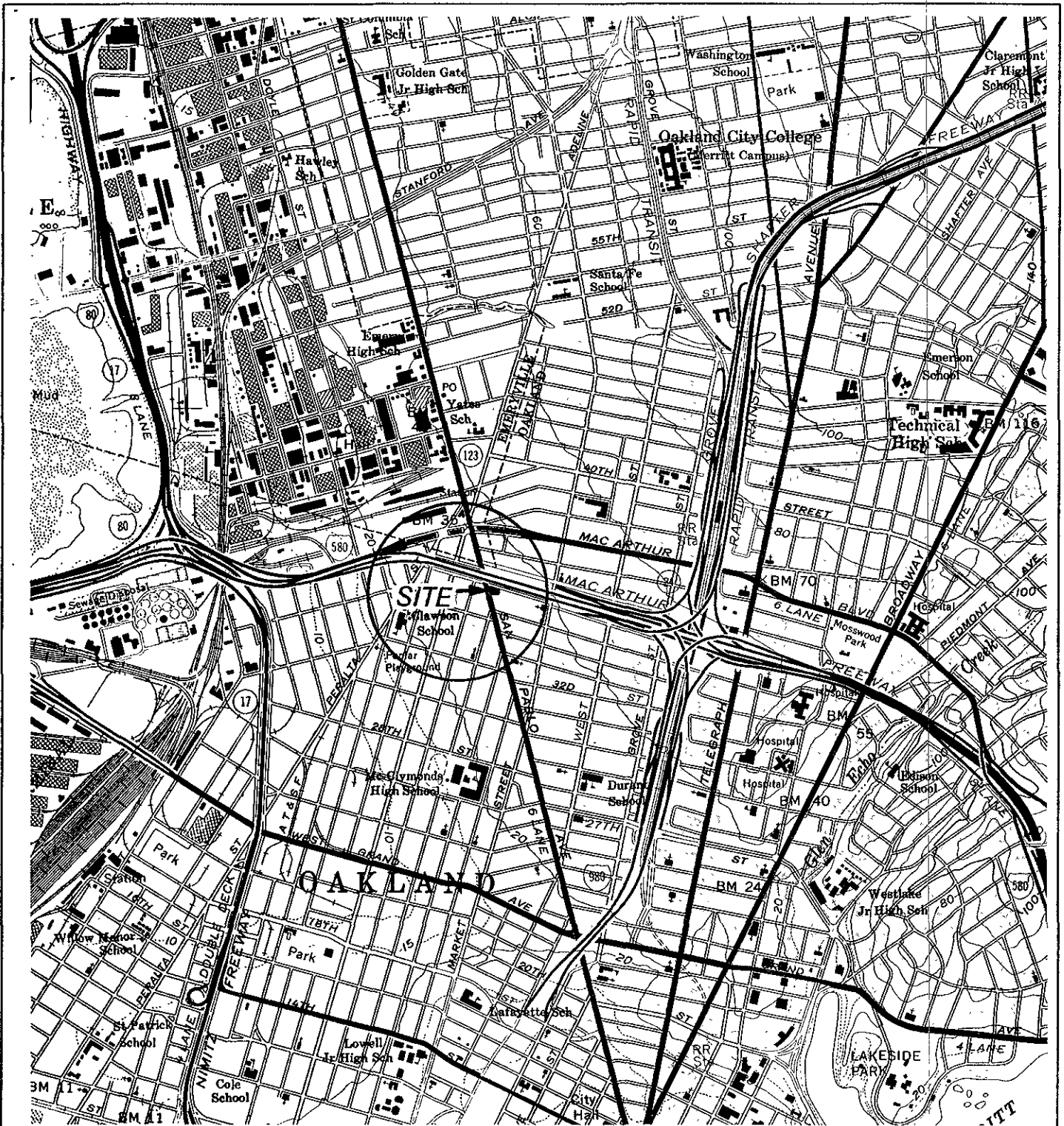
<sup>a</sup>Not measured; inaccessible due to obstruction.

TABLE 2

Ground Water Chemical Analysis  
Concentrations in parts per million

Monitoring Well	Date Sampled	Benzene	Toluene	Ethylbenzene	Xylenes	EDB <sup>a</sup>	EDC <sup>b</sup>	TPH <sup>c</sup>
MW-1	04/17/89	1,400	2,300	6,600	1,100	ND <sup>d</sup>	10.0	12,000
	01/23/90 <sup>e</sup>							
	04/10/90 <sup>e</sup>							
	07/26/90 <sup>e</sup>							
	10/25/90 <sup>e</sup>							
	01/28/91 <sup>e</sup>							
MW-2	04/17/89	12,000	1,800	12,000	2,200	<100	36.0	35,000
	01/23/90	110	9.6	140	3,300	NA <sup>f</sup>	NA	40,000
	04/10/90	12,000	570	560	6,800	NA	NA	45,000
	07/26/90	15,000	840	1,400	10,000	NA	NA	53,000
	10/25/90	12,000	1,400	3,500	18,000	NA	NA	140,000
	01/28/91 <sup>e</sup>							
MW-3	04/17/89	3.0	2.0	9.0	<1.0	<1.0	<1.0	100
	01/23/90	1.1	<0.3	<0.3	<0.3	NA	NA	140
	04/10/90	1.1	<0.3	<0.3	1.2	NA	NA	250
	07/26/90	<0.3	<0.3	<0.3	<0.3	NA	NA	<30
	10/25/90	<0.3	<0.3	<0.3	<0.3	NA	NA	93
	01/28/91 <sup>g</sup>	---	---	---	---	---	---	---
MW-4	04/17/89	1.2	<1.0	3.0	1.0	<0.1	1.5	500
	01/23/90	1.2	<0.3	<0.3	<0.3	NA	NA	150
	04/10/90	150	3.5	9.8	11	NA	NA	1,000
	07/26/90	78	3.7	<0.3	12	NA	NA	3,300
	10/25/90	610	180	120	290	NA	NA	3,800
	01/28/91	590	42	60	220	NA	NA	3,300
MW-5	01/23/90	4.8	<0.3	<0.3	<0.3	NA	NA	290
	04/10/90	40	0.59	0.63	2.7	NA	NA	750
	07/26/90	8.9	<0.3	<0.3	<0.3	NA	NA	1,700
	10/25/90	15	1.8	2.4	9.9	NA	NA	320
	01/28/91	210	11	69	280	NA	NA	3,100
MW-6	01/23/90	460	100	9.3	1,600	NA	NA	33,000
	04/10/90	460	21	40	170	NA	NA	9,200
	07/26/90	890	43	120	490	NA	NA	7,700
	10/25/90	1,000	27	270	260	NA	NA	8,700
	01/28/91	2,500	190	1,500	5,400	NA	NA	38,000
MW-7	01/23/90	61	1.3	<0.3	1,600	NA	NA	3,200
	04/10/90	4,300	23	18	550	NA	NA	15,000
	07/26/90	3,800	24	280	340	NA	NA	8,800
	10/25/90	3,900	15	640	290	NA	NA	11,000
	01/28/91	4,000	<0.3	620	150	NA	NA	14,000
MW-8	01/23/90	160	730	47.0	3,300	NA	NA	22,000
	04/10/90	2,600	630	250	2,100	NA	NA	21,000
	07/26/90	3,600	1,600	610	3,600	NA	NA	20,000
	10/25/90	3,400	100	300	270	NA	NA	8,600
	01/28/91	3,600	580	840	2,600	NA	NA	25,000
MW-9	01/23/90	<0.3	0.3	0.97	3.0	NA	NA	8.8
	04/10/90	500	4.1	1.3	50	NA	NA	2,500
	07/26/90	730	4.0	6.7	12	NA	NA	2,500
	10/25/90	360	2.9	46	3.8	NA	NA	1,400
	01/28/91	140	12	29	47	NA	NA	1,100

<sup>a</sup>Ethylene dibromide.<sup>b</sup>1,2-dichloroethene.<sup>c</sup>Total petroleum hydrocarbons as gasoline.<sup>d</sup>Not detected.<sup>e</sup>Not sampled due to the presence of free product.<sup>f</sup>Not analyzed.<sup>g</sup>Not sampled due to well obstruction.



GENERAL NOTES:  
 BASE MAPS FROM U.S.G.S.  
 OAKLAND WEST, CA.  
 7.5 MINUTE TOPOGRAPHIC  
 PHOTOREVISED 1980

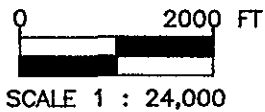
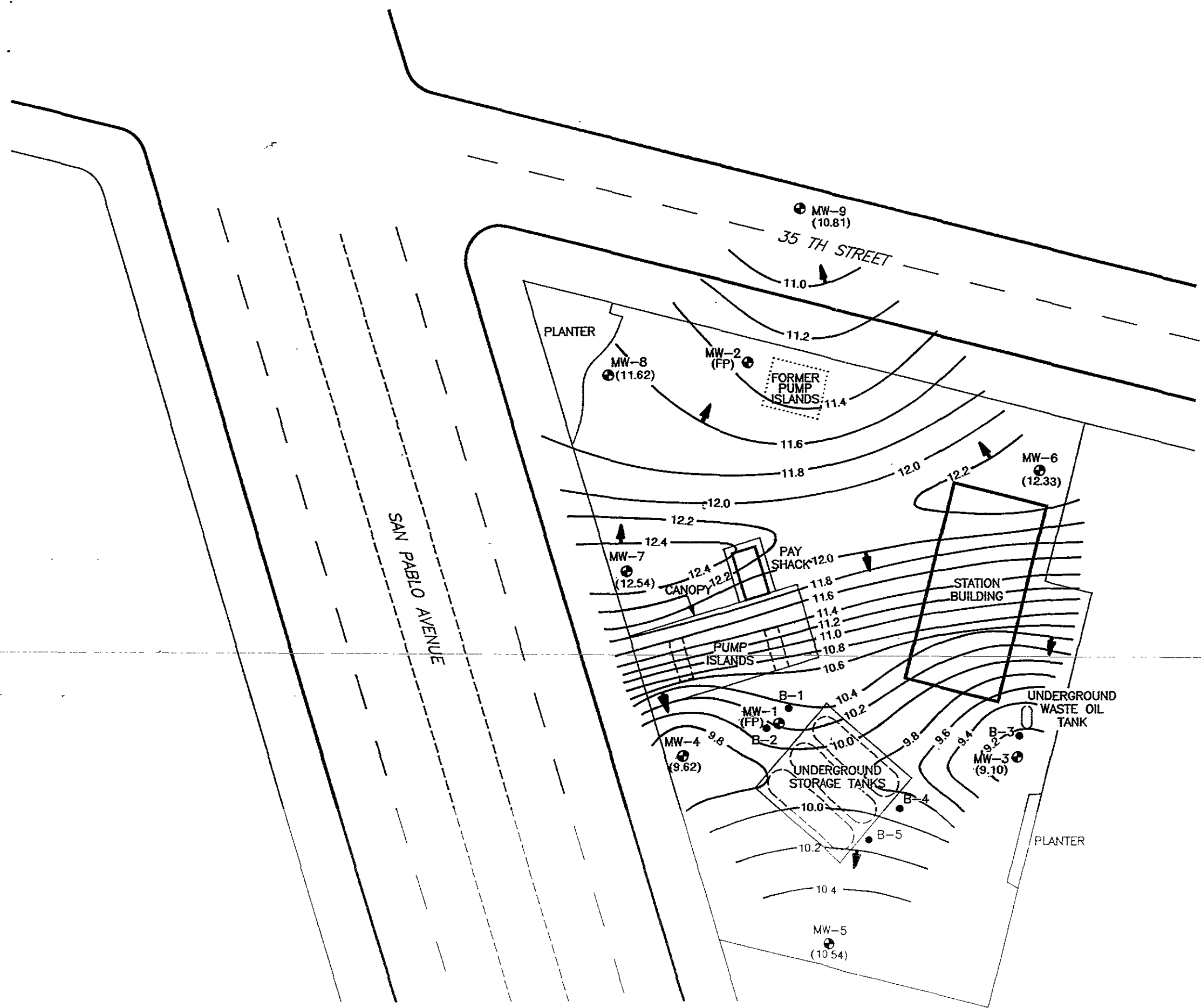


FIGURE 1  
 SITE LOCATION MAP  
 3420 SAN PABLO AVENUE  
 OAKLAND, CA.

PROJECT NO. 40-88-666	DRAWN BY I.H. 12/20/90
FILE NO. _____	PREPARED BY HEH
REVISION NO. 1	REVIEWED BY Dvd 1/8/90



Delta  
 Environmental  
 Consultants, Inc.



- LEGEND:**
- B-1 SOIL BORING LOCATION
  - ⊕ MW-1 MONITORING WELL LOCATION
  - (12.33) GROUND WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
  - 10.2— WATER TABLE CONTOUR IN FEET ABOVE MEAN SEA LEVEL
  - ↘ GROUND WATER FLOW DIRECTION
  - (FP) FREE PRODUCT

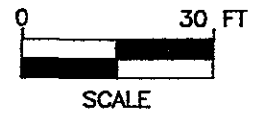


FIGURE 2  
WATER TABLE CONTOUR MAP - 1/28/91  
3420 SAN PABLO AVENUE  
OAKLAND, CA.

PROJECT NO. 40-83-666	DRAWN BY IH 3/20/91
FILE NO.	PREPARED BY PHB
REVISION NO. 2	REVIEWED BY 3-21-91

Delta  
Environmental  
Consultants, Inc.

**APPENDIX A**

Certified Analytical Laboratory Reports



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

FEB - 8 1991

*MS 2/12/91*

Delta Environmental Consultants  
3330 Data Drive  
Rancho Cordova, CA 95670  
Attention: Hal Hanson

Project: 40-88-666

Enclosed are the results from 6 water samples received at Sequoia Analytical on January 30, 1991. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE OF COLLECTION	TEST METHOD
1013564	Water, MW-4	1/28/91	EPA 5030/8015/8020
1013565	Water, MW-5	1/28/91	EPA 5030/8015/8020
1013566	Water, MW-7	1/28/91	EPA 5030/8015/8020
1013567	Water, MW-8	1/28/91	EPA 5030/8015/8020
1013568	Water, MW-6	1/28/91	EPA 5030/8015/8020
1013569	Water, MW-9	1/28/91	EPA 5030/8015/8020

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Maile A. McBirney  
Project Manager



# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

Delta Environmental Consultants	Client Project ID: 40-88-666	Sampled: Jan 28, 1991
3330 Data Drive	Matrix Descript: Water	Received: Jan 30, 1991
Rancho Cordova, CA 95670	Analysis Method: EPA 5030/8015/8020	Analyzed: Jan 31, 1991
Attention: Hal Hanson	First Sample #: 101-3564	Reported: Feb 5, 1991

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P.	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Xylenes µg/L (ppb)
		Hydrocarbons µg/L (ppb)				
101-3564	MW-4	3,300	590	42	60	220
101-3565	MW-5	3,100	210	11	69	280
101-3566	MW-7	14,000	4,000	N.D.	620	150
101-3567	MW-8	25,000	3,600	580	840	2,600
101-3568	MW-6	38,000	2,500	190	1,500	5,400
101-3569	MW-9	1,100	140	12	29	47

Detection Limits:	30	0.30	0.30	0.30	0.30
-------------------	----	------	------	------	------

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard.  
Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

  
Malle A. McBirney  
Project Manager





# SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063  
(415) 364-9600 • FAX (415) 364-9233

Delta Environmental Consultants Client Project ID: 40-88-666

3330 Data Drive

Rancho Cordova, CA 95670

Attention: Hal Hanson

QC Sample Group: --

Reported: Feb 5, 1991

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl- benzene	m,p-Xylenes	o-Xylenes
---------	---------	---------	-------------------	-------------	-----------

Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	G. Meyer	G. Meyer	G. Meyer	G. Meyer	G. Meyer
Reporting Units:	ng	ng	ng	ng	ng
Date Analyzed:	Jan 31, 1991	Jan 31, 1991	Jan 31, 1991	Jan 31, 1991	Jan 31, 1991
QC Sample #:	G1012449	G1012449	G1012449	G1012449	G1012449

Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
---------------	------	------	------	------	------

Spike Conc. Added:	100	100	100	200	100
-----------------------	-----	-----	-----	-----	-----

Conc. Matrix Spike:	100	100	100	200	97
------------------------	-----	-----	-----	-----	----

Matrix Spike % Recovery:	100	100	100	100	97
-----------------------------	-----	-----	-----	-----	----

Conc. Matrix Spike Dup.:	100	100	99	200	100
-----------------------------	-----	-----	----	-----	-----

Matrix Spike Duplicate % Recovery:	100	100	99	100	100
--	-----	-----	----	-----	-----

Relative % Difference:	1.0	0	1.0	1.0	4.0
---------------------------	-----	---	-----	-----	-----

SEQUOIA ANALYTICAL

Maile A. McBirney  
Project Manager

% Recovery:	$\frac{\text{Conc. of M.S.} - \text{Conc. of Sample}}{\text{Spike Conc. Added}} \times 100$
Relative % Difference:	$\frac{\text{Conc. of M.S.} - \text{Conc. of M.S.D.}}{(\text{Conc. of M.S.} + \text{Conc. of M.S.D.}) / 2} \times 100$

# CHAIN OF CUSTODY



**Delta**  
Environmental  
Consultants, Inc.

Delta Environmental  
Consultants, Inc.  
3330 Data Drive, Suite 100  
Rancho Cordova, CA 95670  
916/638-2085 • FAX 916/638-8385

LABORATORY SAMPLES SENT TO:  
SEQUIA ANALYTICAL

PROJ. NO. 40-88  
6666  
PROJECT NAME: OAKLAND Shell  
PROJECT LOCATION: 3420 San Pablo Ave  
PROJECT MANAGER: HEH

ANALYSIS REQUESTED & CONTAINER DESCRIPTION

ADDRESS:  
680 Chesapeake  
DR. Redwood City  
94063

SAMPLERS (Signature)  
[Signature]

LABORATORY SAMPLE ID	SAMPLE ID	DATE	TIME	SAMPLE TYPE	SAMPLE LOCATION	NUMBER OF CONTAINERS	BTEX	TPH (g)	REMARKS
	MW-4	1/28/91	12:35	W		2	✓	✓	DI 3564
	MW-5		1:15	W		2	✓	✓	3565
	MW-7		1:45			2	✓	✓	3566
	MW-8		2:15			2	✓	✓	3567
	MW-6		2:55			2	✓	✓	3568
	MW-9		3:30			2	✓	✓	3569

Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1/29/91</u>	Time	Received by: (Signature) <u>Sonde</u>	Date <u>1/30/91</u>	Time <u>1:10 PM</u>	Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1/30/91</u>	Time <u>11:20 A</u>	Received by: (Signature)
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Relinquished by: (Signature) <u>E. I. Durr</u>	Date <u>1/30/91</u>	Time <u>4:23A</u>	Received for Laboratory by: (Signature) <u>[Signature]</u>	Date <u>1/30/91</u>	Time <u>1630</u>	Turnaround Time:
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Sealed for shipment by: (signature) <u>[Signature]</u>	Date/Time	Shipment method:
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Sampler Comments: <u>Shell contact: <del>Diene found</del></u>	Laboratory Comments:
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WIC # 204-5508-5306

AFE # 086636 CT/DL # 5441