STATUS REPORT
FIRST QUARTER 2000
FORMER BEACON STATION #574
22315 REDWOOD ROAD
CASTRO VALLEY, CALIFORNIA

BSK Job 07-4-00237

Submitted to:

ULTRAMAR, INC.

May 12, 2000

BSK

BSK

3140 Gold Camp Drive, Suite 160
Rancho Cordova, CA 95670-6023
(916) 853-9293
FAX (916) 853-9297

May 12, 2000

Project 07-4-00237

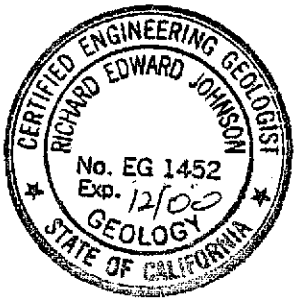
Mr. Joseph A. Aldridge, RG
Senior Project Manager
Retail Environmental Services
Ultramar, Inc.
525 West Third Street
Hanford, CA 93230

Subject: Status Report
First Quarter 2000
Former Beacon Station # 574
22315 Redwood Road
Castro Valley, California

Dear Mr. Aldridge:

BSK & Associates (BSK) is pleased to submit the attached quarterly status report, which summarizes groundwater monitoring for the first quarter of 2000. Well sampling was conducted for Ultramar, Inc. by Doulos Environmental Company, and analytical testing was conducted by Kiff Analytical. This report summarizes the data provided to us by Ultramar, Inc.

This report has been prepared according to California Regional Water Quality Control Board - Central Valley Region (RWQCB) requirements as presented in the *Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites, Appendix A.* Should you have questions regarding the report, please do not hesitate to call us.



Sincerely,

BSK & Associates

Richard E. Johnson, CEG
Manager, Environmental Services

Distribution:
- Mr. J. Aldridge, RG (1 original)
- Mr. Scott Sceery, ACDEH (1 copy)

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1.0 INTRODUCTION

This report presents a summary of the results of quarterly groundwater monitoring at Beacon Station #574 (the Site) during the first quarter of 2000. Figure 1, the Vicinity Map, illustrates the location of the site.

Site information is as follows:

Site Name and Location:	Ultramar (Beacon) Station No. 574 22315 Redwood Road Castro Valley, California
Tank Owner and Contact:	Ultramar, Inc., Mr. Joe Aldridge, RG 525 West Third Street Hanford, California 93230 (559) 583-3231

2.0 SITE DESCRIPTION AND HISTORY

The Site is located at the intersection of Redwood Road and Grove Way in Castro Valley, California. The Site is currently occupied by commercial businesses in separate suites within a single building. A Site Plan is shown in Figure 2.

In 1981, Shell Oil Co. removed and replaced three underground storage tanks (USTs). Results of the soil samples collected at the time of the UST removal indicated the presence of petroleum hydrocarbon constituents in the soil underlying the USTs.

From 1981 to 1987 Ultramar leased the Site, including the petroleum product storage and piping equipment, and operated a retail gasoline service station. On May 5, 1987 two 5,000-gallon-capacity diesel USTs, a 7,000-gallon-capacity gasoline UST, one 8,000-gallon-capacity gasoline UST, and one 500-gallon-capacity waste oil UST were removed from the Site. Over excavation of the UST basin to a depth of approximately 20 feet below grade was performed on May 18, 1987. Three of seven soil samples collected from the walls and the floor of the excavation contained total volatile hydrocarbon up to 1,989 parts per million (ppm).

On March 26, 1991, three soil borings were advanced to depths of approximately 30 feet below ground surface (bgs) and completed as 4-inch-diameter monitoring wells MW-1, MW-2, and MW-3 (Figure 2). Soil samples collected from the borings were submitted for laboratory analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons as gasoline (TPHg), and total petroleum hydrocarbons as diesel (TPHd). None of the soil sample

contained detectable TPHd. The soil samples collected from 10 and 15 feet bgs, above the water table, in boring MW-2 contained 8.1 ppm and 3,200 ppm TPHg, respectively.

On April 1, 1991 groundwater samples were collected from monitoring wells MW-1, MW-2, and MW-3. None of these samples contained detectable levels of TPHd. BTEX and TPHg were detected in samples from each of the three wells. Benzene concentrations ranged from 41 parts per billion (ppb) in MW-3 to 650 ppb in MW-2.

On May 13 and 18, 1993 Acton Mickelson and van Dam (AMV), advanced and sampled five soil borings which were converted to 2-inch-diameter monitoring wells MW-4 through MW-8 (Figure 2). AMV submitted a total of 23 soil samples for laboratory analysis of TPHg and BTEX and none contained detectable petroleum hydrocarbons.

On May 18, 1993, AMV collected groundwater samples from monitoring wells MW-4 through MW-8 for laboratory analysis of TPHg and BTEX. None of the groungwater samples collected contained detectable BTEX, however, the groundwater sample collected from monitoring well MW-6 contained 170 ppb TPHg.

Monitoring wells MW-7 and MW-8 were abandoned during the fall of 1998 as part of a street up-grade on Redwood Road.

3.0 QUARTERLY ACTIVITIES

Quarterly groundwater monitoring and sampling was conducted by Doulos Environmental Company (Doulos). Doulos reports that they conducted well purging, sampling, and sample handling activities in substantial conformance with Ultramar Field Procedures for monitoring well sampling (see Appendix A). Chemical analyses were conducted by Kiff Analytical Laboratory, LLC. Field sample logs are included in Appendix B and analytical reports are included in Appendix C.

3.1 Groundwater Gradient and Flow Direction

Groundwater depths were measured in each well prior to sampling by Doulos. Depths were measured relative to the top of each well casing. Groundwater depths in each well were subtracted from the elevation of that wellhead to establish a groundwater elevation. A cumulative summary of groundwater elevation data is also included in Table 2.

On the basis of the March 16, 2000, groundwater measurements, groundwater appears to flow to the southwest with a surface gradient of 0.01. Figure 3 presents a generalized potentiometric surface map for the monitoring event. Water sample logs are included in Appendix B.

3.2 Analytical Results

Groundwater samples were collected by Doulos, and subsequently relinquished to Kiff Analytical, LLC, a State-certified analytical laboratory under chain-of-custody documentation. The water samples were analyzed for TPHg, BTEX, and MTBE by EPA Method 8260.

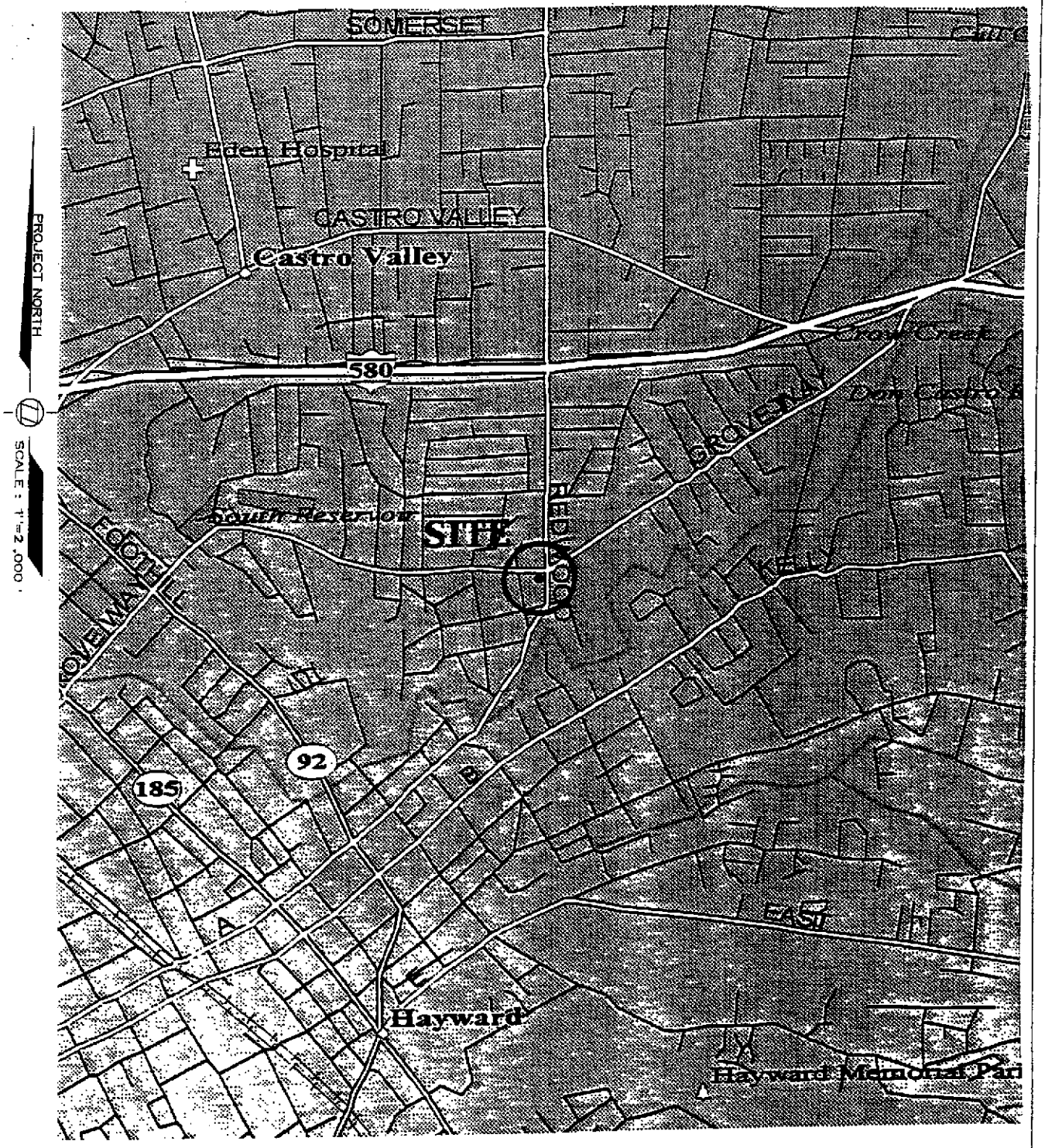
The groundwater analytical results are summarized in the Table 1. Cumulative analytical results are summarized in Table 3. Laboratory data reports and chain-of-custody documentation are included in Appendix C.

4.0 DISCUSSION

Results of chemical analyses on groundwater samples indicate that wells MW-1 and MW-2 consistently yield elevated levels of fuel related petroleum hydrocarbons. Figure 4 presents the distribution of dissolved benzene in groundwater during the March 1, 2000, monitoring event.

5.0 LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California. Our services were conducted solely for the purpose of evaluating the general condition of groundwater beneath the subject site with regard to possible petroleum-hydrocarbon contamination. Environmental conditions of groundwater, with respect to petroleum hydrocarbons, is based on limited data available through existing groundwater-monitoring wells. No other opinion as to groundwater conditions or quality is stated or should be inferred.



0 500 1,000 2,000 3,000

SCALE IN FEET

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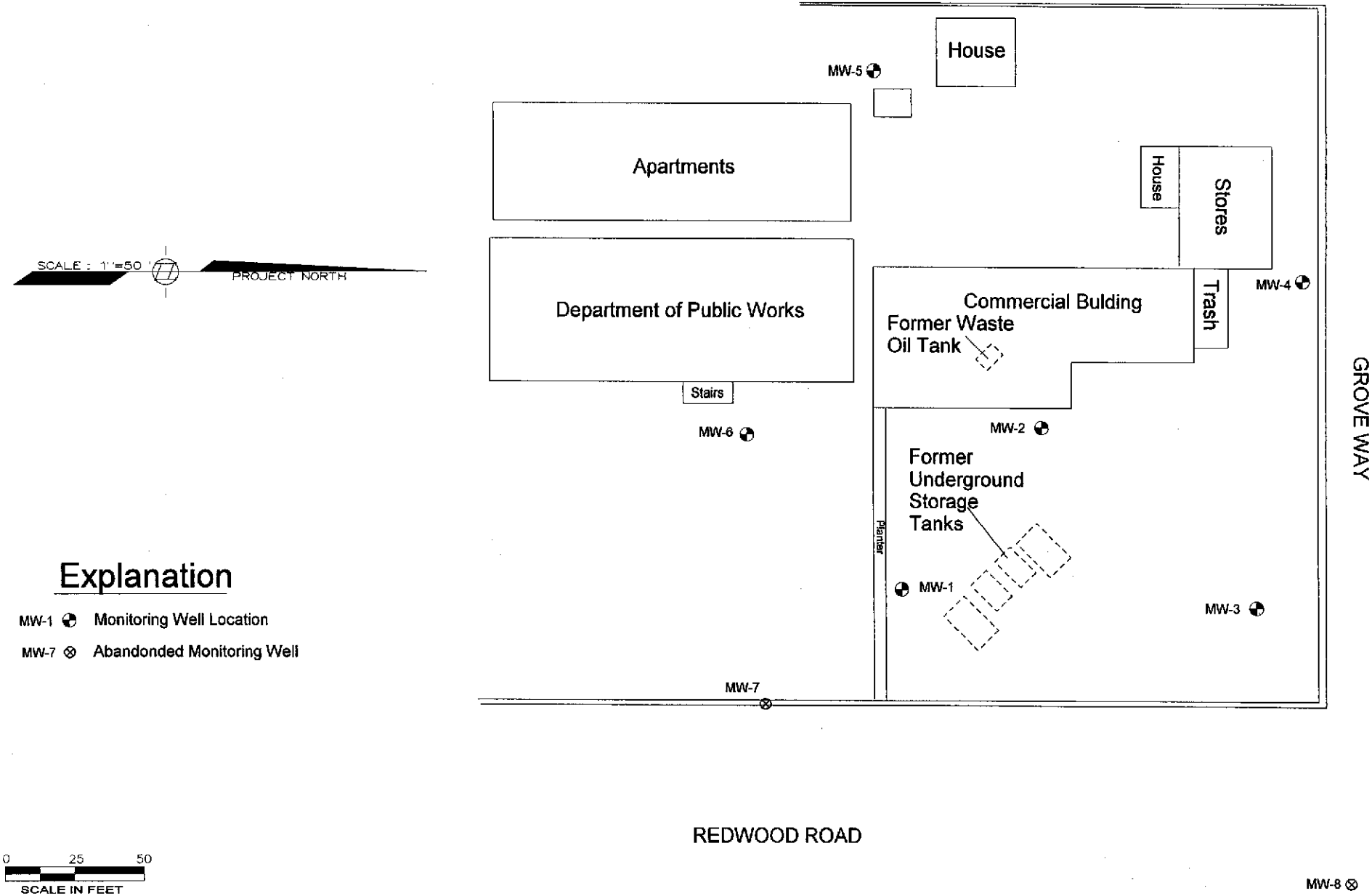
SITE LOCATION MAP

FORMER BEACON STATION #574
22315 REDWOOD ROAD
CASTRO VALLEY, CALIFORNIA

FIGURE 1

PROJECT : 07400237

DATE : 5/3/00



SITE PLAN

FORMER BEACON STATION #574
22315 REDWOOD ROAD
CASTRO VALLEY, CALIFORNIA

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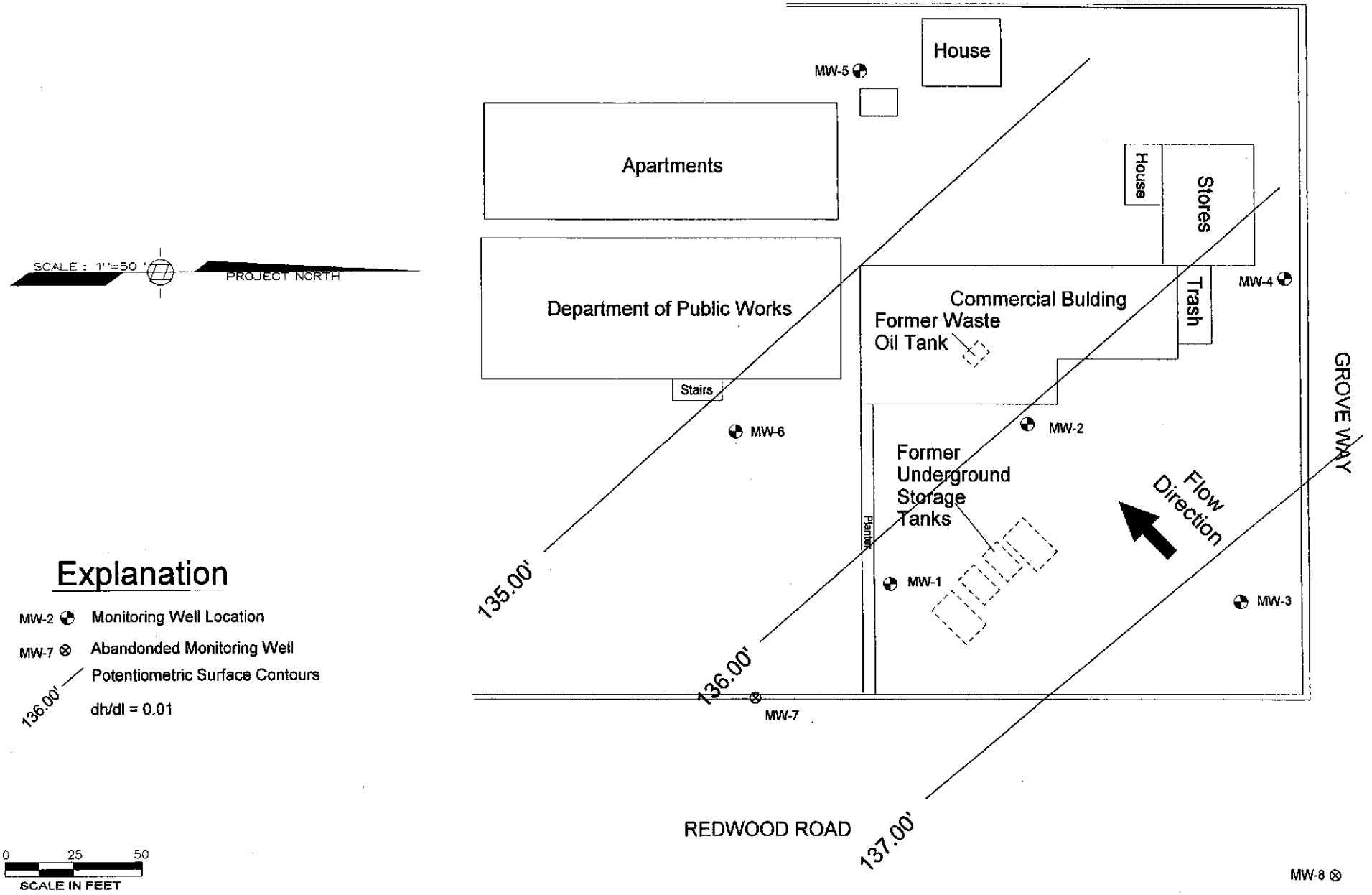
FIGURE 2

PROJECT: 07400237

DATE: 4/17/00



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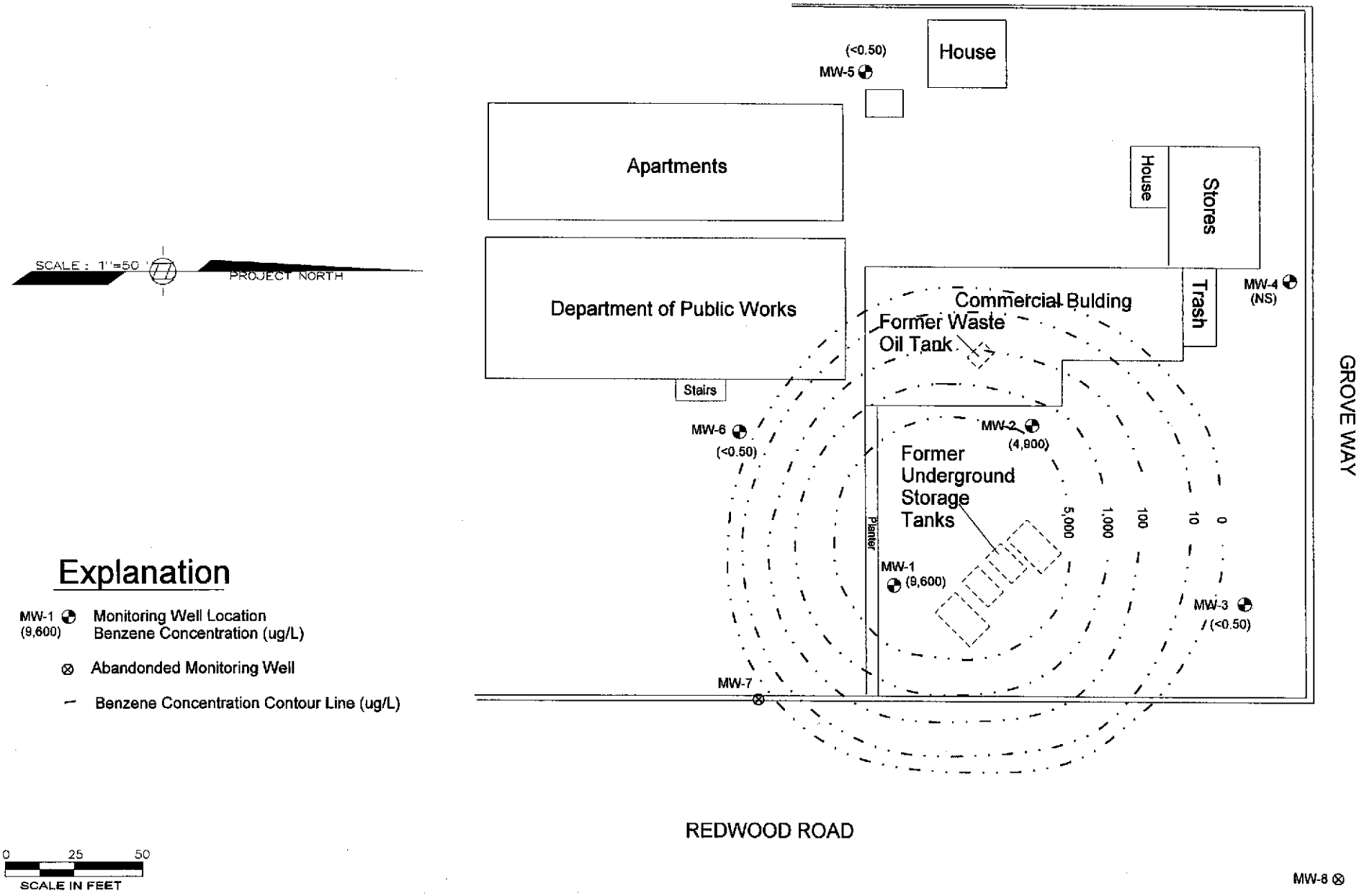
Generalized Potetiometric Surface Map

FORMER BEACON STATION #574
22315 REDWOOD ROAD
CASTRO VALLEY, CALIFORNIA

FIGURE 3

PROJECT: 07400237

DATE: 5/3/00



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DISSOLVED BENZENE DISTRIBUTION MAP
MARCH 2000

FORMER BEACON STATION #574
22315 REDWOOD ROAD
CASTRO VALLEY, CALIFORNIA

FIGURE 4

PROJECT: 07400237

DATE: 5/9/00

Table 1
Summary of Groundwater Analytical Results
First Quarter 2000
Former Beacon Station No. 574, Castro Valley, California

Well ID	TPHg (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-1	**59,000**	**9,600**	**430**	**2,100**	**9,200**	**730**
MW-2	**38,000**	**4,900**	**780**	**1,100**	**3,700**	**870**
MW-3	<50	<0.50	<0.50	<0.50	<0.50	<5.0
MW-4	NS	NS	NS	NS	NS	NS
MW-5	<50	<0.50	<0.50	<0.50	<0.50	<5.0
MW-6	<50	<0.50	<0.50	<0.50	<0.50	**260**

Notes:
<: Not detected above laboratory's indicated reportable detection limit.
NS : Not sampled.

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Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station #574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-1	156.55	03/27/92	22.43	134.12	-
		06/04/92	23.40	133.15	-
		09/23/92	24.07	132.48	-
		11/12/92	24.16	132.39	29.33
		02/02/93	21.87	134.68	29.80
		05/07/93	22.58	133.97	29.84
		05/18/93	22.66	133.89	-
		08/11/93	23.41	133.14	29.81
		11/05/93	24.09	132.46	29.81
		03/01/94	22.76	133.79	29.85
		06/02/94	23.24	133.31	29.85
		09/09/94	23.93	132.62	29.86
		12/20/94	22.94	133.61	29.85
		03/08/95	22.20	134.35	29.71
		06/14/95	22.65	133.90	29.70
		09/26/95	23.44	133.11	29.71
		12/27/95	23.04	133.51	29.72
		03/26/96	21.39	135.16	29.71
		06/05/96	22.43	134.12	29.73
		09/16/96	24.42	132.13	29.74
		12/02/96	23.14	133.41	29.75
		03/10/97	22.30	134.25	29.76
		06/12/97	22.97	133.58	29.76
		09/29/97	23.35	133.20	29.78
		12/01/97	22.73	133.82	29.79
		03/19/98	20.56	135.99	29.78
		05/28/98	21.78	134.77	29.76
		08/31/98	22.64	133.91	29.78
		12/08/98	22.87	133.68	29.76
		02/17/99	21.53	135.02	29.75
		06/10/99	22.74	133.81	29.74
		09/07/99	23.06	133.49	29.73
		12/13/00	23.06	133.46	29.74
		3/16/00	20.66	135.89	29.75

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Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station #574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-2	155.17	03/27/92	20.82	134.35	-
		06/04/92	21.81	133.36	-
		09/23/92	22.45	132.72	-
		11/12/92	22.60	132.57	29.71
		02/02/93	20.28	134.89	29.73
		05/07/93	20.97	134.20	29.73
		05/18/93	21.06	134.11	-
		08/11/93	21.85	133.32	29.70
		11/05/93	22.32	132.85	29.70
		03/01/94	21.19	133.98	29.68
		06/02/94	21.59	133.58	29.69
		09/09/94	22.33	132.84	29.66
		12/20/94	21.37	133.80	29.65
		03/08/95	20.60	134.57	29.52
		06/14/95	21.04	134.13	29.54
		09/26/95	21.84	133.33	29.53
		12/27/95	21.44	133.73	29.56
		03/26/96	19.81	135.36	29.56
		06/05/96	20.83	134.34	29.59
		09/16/96	21.93	133.24	29.58
		12/02/96	21.54	133.63	29.58
		03/10/97	20.71	134.46	29.58
		06/12/97	21.41	133.76	29.52
		09/29/97	21.26	133.91	29.51
		12/01/97	20.97	134.20	29.50
		03/19/98	18.98	136.19	29.51
		05/28/98	20.22	134.95	29.50
		08/31/98	21.09	134.08	29.51
		12/08/98	21.31	133.86	29.50
		02/17/99	20.02	135.15	29.51
		06/10/99	21.30	133.87	29.50
		09/07/99	21.49	133.68	29.50
		12/13/99	21.52	133.65	29.50
		3/16/00	19.13	136.04	29.50

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station #574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-3	157.13	03/27/92	21.46	135.67	-
		06/04/92	22.34	134.79	-
		09/23/92	22.84	134.29	-
		11/12/92	23.04	134.09	29.55
		02/02/93	21.03	136.10	29.45
		05/07/93	21.59	135.54	29.53
		05/18/93	21.73	135.40	-
		08/11/93	22.31	134.82	29.41
		11/05/93	22.85	134.28	29.41
		03/01/94	21.97	135.16	29.55
		06/02/94	22.29	134.84	29.56
		09/09/94	22.91	134.22	29.56
		12/20/94	22.11	135.02	29.54
		03/08/95	21.40	135.73	29.38
		06/14/95	21.80	135.33	29.36
		09/26/95	22.38	134.75	29.37
		12/27/95	22.07	135.06	29.37
		03/26/96	20.73	136.40	29.38
		06/05/96	21.54	135.59	29.40
		09/16/96	22.37	134.76	29.43
		12/02/96	22.35	134.78	29.45
		03/10/97	21.44	135.69	29.47
		06/12/97	21.97	135.16	29.45
		09/29/97	22.30	134.83	29.45
		12/01/97	21.78	135.35	29.46
		03/19/98	19.88	137.25	29.46
		05/28/98	20.91	136.22	29.47
		08/31/98	21.61	135.52	29.47
		12/08/98	21.83	135.30	29.47
		02/17/99	20.81	130.32	29.45
		06/10/99	21.61	135.52	29.45
		09/07/99	21.91	135.22	29.45
		12/13/99	21.93	135.20	29.44
		3/16/00	19.86	137.27	29.46

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Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station #574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-4	151.96	05/18/93	17.55	134.41	-
		08/11/93	17.50	134.46	28.43
		11/05/93	15.84	136.12	28.43
		03/01/94	17.35	134.61	28.11
		06/02/94	17.68	134.28	28.12
		09/09/94	18.19	133.77	28.13
		12/20/94	17.52	134.44	28.10
		03/08/95	16.82	135.14	27.97
		06/14/95	17.22	134.74	27.97
		09/26/95	17.79	134.17	27.91
		12/27/95	17.47	134.49	27.89
		03/26/96	16.32	135.64	27.89
		06/05/96	17.10	134.86	27.88
		09/16/96	17.85	134.11	27.89
		12/02/96	17.59	134.37	27.88
		03/10/97	16.79	135.17	27.89
		06/12/97	17.49	134.47	27.90
		09/29/97	18.33	133.63	27.91
		12/01/97	17.36	134.60	27.90
		03/19/98	15.90	136.06	27.91
		05/28/98	16.34	135.62	27.90
		08/31/98	16.83	135.13	27.90
		12/08/98	17.37	134.59	27.91
		02/17/99	16.49	135.47	27.98
		06/10/99	17.63	134.33	24.76
		09/07/99	17.80	134.16	24.75
		12/13/99	17.82	134.14	24.73
		3/16/00	15.81	136.15	24.71

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Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station #574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-5	148.68	05/18/93	15.72	132.96	-
		08/11/93	16.42	132.26	28.43
		11/05/93	16.92	131.76	28.43
		03/01/94	15.54	133.14	28.11
		06/02/94	16.19	132.49	28.12
		09/09/94	16.87	131.81	28.13
		12/20/94	15.87	132.84	28.10
		03/08/95	15.11	133.57	27.97
		06/14/95	15.69	132.99	27.97
		09/26/95	16.46	132.22	27.91
		12/27/95	15.91	132.77	27.89
		03/26/96	14.31	134.37	27.89
		06/05/96	15.43	133.25	27.88
		09/16/96	16.52	132.16	27.89
		12/02/96	16.05	132.63	27.88
		03/10/97	14.80	133.88	27.89
		06/12/97	15.95	132.78	27.90
		09/29/97	16.33	132.35	27.91
		12/01/97	15.48	133.20	27.90
		03/19/98	13.16	135.52	27.91
		05/28/98	14.04	134.64	27.90
		08/31/98	14.81	133.87	27.90
		12/08/98	15.75	132.93	27.91
		02/17/99	14.80	133.88	27.98
		06/10/99	15.54	133.14	24.76
		09/07/99	16.01	132.67	24.75
		12/13/99	16.21	132.47	24.73
		3/16/00	14.35	134.33	29.60

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Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station #574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-6	153.96	05/18/93	20.80	133.16	-
		08/11/93	21.64	132.32	31.15
		11/05/93	22.11	131.85	31.15
		03/01/94	20.80	133.16	29.96
		06/02/94	21.37	132.59	29.98
		09/09/94	22.05	131.91	29.96
		12/20/94	21.06	132.90	29.89
		03/08/95	20.29	133.67	29.67
		06/14/95	20.81	133.15	29.65
		09/26/95	21.62	132.34	29.66
		12/27/95	21.12	132.84	29.63
		03/26/96	19.50	134.46	29.60
		06/05/96	20.56	133.40	29.63
		09/16/96	21.70	132.26	29.65
		12/02/96	21.25	132.71	29.66
		03/10/97	20.16	133.80	29.64
		06/12/97	21.16	132.80	29.62
		09/29/97	21.51	132.45	29.62
		12/01/97	20.89	133.07	29.61
		03/19/98	18.71	135.25	29.60
		05/28/98	19.99	133.97	29.62
		08/31/98	20.81	133.15	29.63
		12/08/98	21.00	132.96	29.64
		02/17/99	19.54	134.42	29.63
		06/10/99	20.74	133.22	27.98
		09/07/99	21.23	132.73	27.98
		12/13/99	21.22	132.74	27.98
		3/16/00	18.79	135.17	27.99

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Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station #574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-7	156.09	05/18/93	22.64	133.45	-
		08/11/93	23.25	132.84	30.75
		11/05/93	23.93	132.16	30.75
		03/01/94	22.72	133.37	30.11
		06/02/94	23.22	132.87	30.12
		09/09/94	23.90	132.19	30.12
		12/20/94	22.98	133.11	30.10
		03/08/95	22.14	133.95	29.91
		06/14/95	22.61	133.48	29.91
		09/26/95	23.43	132.66	29.90
		12/27/95	23.01	133.08	29.90
		03/26/96	21.32	134.77	29.87
		06/05/96	22.37	133.72	29.91
		09/16/96	23.51	132.58	29.90
		12/02/96	23.08	133.01	29.91
		03/10/97	21.94	134.15	29.90
		06/12/97	22.96	133.13	29.88
		09/29/97	23.35	132.74	29.87
		12/01/97	22.68	133.41	29.88
		03/19/98	20.52	135.57	29.88
		05/28/98	21.76	134.33	29.88
		08/31/98	22.66	133.43	29.86
		12/08/98[3]			

BSK

Table 2
Cumulative Groundwater Elevation Data
Former Beacon Station #574 - Castro Valley, California

Well ID	Top of Casing Elevation (Feet)[1]	Date Sounded	Depth to Groundwater (Feet)[1]	Groundwater Elevation (Feet)[2]	Well Depth (Feet)
MW-8	158.04	05/18/93	21.55	136.49	-
		08/11/93	22.43	135.61	34.82
		11/05/93	23.00	135.04	34.82
		03/01/94	22.05	135.99	34.04
		06/02/94	22.29	135.75	34.04
		09/09/94	22.99	135.05	34.04
		12/20/94	22.14	135.90	33.98
		03/08/95	21.25	136.79	34.48
		06/14/95	21.70	136.34	34.49
		09/26/95	22.29	135.75	34.40
		12/27/95	21.96	136.08	34.43
		03/26/96	20.48	137.56	34.42
		06/05/96	21.50	136.54	34.41
		09/16/96	22.38	135.66	34.43
		12/02/96	22.39	135.65	34.42
		03/10/97	20.89	137.16	34.43
		06/12/97	21.80	136.24	34.42
		09/29/97	22.81	135.23	34.40
		12/01/97	21.70	136.34	34.41
		03/19/98	19.35	138.69	34.42
		05/28/98	20.52	137.52	34.41
		08/31/98	21.40	136.64	34.40
		12/08/98[3]			

NOTES:
1 : Measurement and reference elevation taken from notch/mark on top north side of well casing.
2 : Elevation reference to mean sea level.
Well Depth : Measured from top of casing to bottom of well.
3 : Well abandoned.

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Table 3
Summary of Groundwater Analytical Results
Former Beacon Station #574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-1	03/27/92	5,600	<50	<50	760	900	230	1,100	-
	06/04/92	2,600	<800	NA	270	57	230	440	-
	09/23/92	3,400	NA	NA	480	430	110	550	-
	11/12/92	2,700	NA	NA	5.8	<5.0	140	340	-
	02/02/93	8,500	NA	NA	760	770	250	1,200	-
	05/07/93	7,700	NA	NA	970	630	280	1,500	-
	08/11/93	11,000	NA	NA	1,400	1,000	280	1,600	-
	11/05/93	36,000	NA	NA	6,200	4,700	1,400	7,100	-
	03/01/94	3,800	NA	NA	580	490	110	620	-
	06/02/94	8,900	NA	NA	1,900	1,200	480	2,100	-
	09/09/94	4,300	NA	NA	740	290	200	630	-
	12/20/94	3,900	NA	NA	550	260	150	510	-
	03/08/95	8,100	NA	NA	1,100	540	250	1,100	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	8,600	NA	NA	2,100	550	420	1,300	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	21,000	NA	NA	7,000	2,700	590	7,000	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	13,000	NA	NA	3,200	770	420	2,900	1,400
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	30,000	NA	NA	7,300	1,900	850	7,100	1,100
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	25,000	NA	NA	840	5,500	920	920	4,000
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	90,000	NA	NA	15,000	7,000	3,300	20,000	<1,500
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	50,000	NA	NA	9,900	1,500	2,100	9,400	890
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	30,000	NA	NA	8,000	1,100	2,200	10,000	720
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	37,000	NA	NA	13,000	410	2,000	10,000	570
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/00	59,000	NA	NA	9,600	430	2,100	9,200	730
MW-2	03/27/92	18,000	<50	<50	2,400	2,300	870	3,300	-
	06/04/92	14,000	<5,000	NA	1,900	1,700	580	2,300	-
	09/23/92	22,000	NA	NA	2,100	1,500	760	2,900	-
	11/12/92	29,000	NA	NA	2,400	860	540	3,500	-
	02/02/93	24,000	NA	NA	2,700	1,900	590	2,600	-
	05/07/93	19,000	NA	NA	1,800	1,300	460	2,600	-
	08/11/93	23,000	NA	NA	2,300	1,500	550	2,300	-
	11/05/93	30,000	NA	NA	3,100	2,900	860	3,700	-

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Table 3
Summary of Groundwater Analytical Results
Former Beacon Station #574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-2	03/01/94	13,000	NA	NA	1,500	490	350	1,100	-
(cont.)	06/02/94	12,000	NA	NA	2,000	790	460	1,300	-
	09/09/94	13,000	NA	NA	1,800	660	440	1,000	-
	12/20/94	16,000	NA	NA	2,300	1,000	650	1,900	-
	03/08/95	16,000	NA	NA	2,200	1,000	550	2,100	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	18,000	NA	NA	2,500	1,000	770	2,700	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	33,000	NA	NA	4,200	2,600	1,000	5,000	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	19,000	NA	NA	2,600	490	560	2,000	940
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	23,000	NA	NA	3,700	870	650	3,000	1,400
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	30,000	NA	NA	4,900	880	990	3,800	1,400
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	72,000	NA	NA	14,000	9,500	2,300	11,000	<1,500
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	29,000	NA	NA	4,900	1,600	960	3,900	890
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	26,000	NA	NA	5,200	930	1,200	4,400	640
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	32,000	NA	NA	5,700	600	1200	3,500	1,100
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/00	38,000	NA	NA	4,900	780	1,100	3,700	870
MW-3	03/27/92	160	<50	<50	9.2	4.8	10	23	-
	06/04/92	120	<50	NA	7.5	2.7	0.5	15	-
	09/23/92	220	NA	NA	8.3	4.3	62	19	-
	11/12/92	230	NA	NA	12	5.5	77	19	-
	02/02/93	86	NA	NA	2.4	.071	27	6.2	-
	05/07/93	140	NA	NA	2.6	1.2	39	8.4	-
	08/11/93	490	NA	NA	15	8.1	14	37	-
	11/05/93	820	NA	NA	45	24	34	93	-
	03/01/94	410	NA	NA	7.4	2.7	56	10	-
	06/02/94	440	NA	NA	13	4.9	14	31	-
	09/09/94	620	NA	NA	12	4.8	97	20	-
	12/20/94	770	NA	NA	24	11	16	36	-
	03/08/95	300	NA	NA	6.1	0.97	4.8	7.5	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	130	NA	NA	4.8	1.6	4.8	9.4	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-

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Table 3
Summary of Groundwater Analytical Results
Former Beacon Station #574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-3	03/26/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
(cont.)	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	**170**	NA	NA	**10**	**2.9**	**44**	**15**	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	**84**	NA	NA	**2.3**	<0.50	**14**	**2.6**	<5.0
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	**740**	NA	NA	**61**	**9.8**	**42**	**61**	<5.0
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	**320**	NA	NA	**6.7**	**1.0**	**10**	**9.3**	**3.4**
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	**310**	NA	NA	<5.0	**8.6**	**1.8**	**13**	**14**
	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
	09/07/99	**99**	NA	NA	**4.2**	**0.51**	**4.0**	**3.0**	<5.0
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
MW-4	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	NS	NS	NS	NS	NS	NS	NS	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/26/96	NS	NS	NS	NS	NS	NS	NS	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	NS	NS	NS	NS	NS	NS	NS	NS
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	NS	NS	NS	NS	NS	NS	NS	NS
	12/08/98	NS	NS	NS	NS	NS	NS	NS	NS
	02/17/99	NS	NS	NS	NS	NS	NS	NS	NS

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Table 3
Summary of Groundwater Analytical Results
Former Beacon Station #574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-4	06/10/99	NS	NS	NS	NS	NS	NS	NS	NS
(cont.)	09/07/99	NS	NS	NS	NS	NS	NS	NS	NS
	12/13/99	NS	NS	NS	NS	NS	NS	NS	NS
	3/16/00	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/08/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/14/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/26/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	12/27/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	03/26/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	-
	06/05/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**15**
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**20**
	12/02/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**12**
	03/10/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**7.0**
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**7.2**
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<0.50
	12/08/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	02/17/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	06/10/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	09/07/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/13/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
MW-6	05/18/93	**170**	NA	NA	<0.5	<0.5	<0.5	<0.5	
	08/11/93	**78**	NA	NA	<0.5	<0.5	<0.5	<0.5	
	11/05/93	**170**	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/01/94	**210**	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/02/94	**190**	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/09/94	**140**	NA	NA	<0.5	<0.5	<0.5	<0.5	
	12/20/94	**210**	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/08/95	**180**[1]	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/14/95	**220**[1]	NA	NA	<0.5	<0.5	<0.5	<0.5	

Table 3
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Former Beacon Station #574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-6	09/26/95	**110**[1]	NA	NA	<0.50	<0.50	<0.50	<0.50	
(cont.)	12/27/95	**130**[1]	NA	NA	<0.50	<0.50	<0.50	<0.50	
	03/08/95	**100**[1]	NA	NA	<0.50	<0.50	<0.50	<0.50	
	06/05/96	**100**[1]	NA	NA	<0.50	<0.50	<0.50	<0.50	**430**
	09/16/96	**170**	NA	NA	<0.50	<0.50	<0.50	<0.50	**430**
	12/02/96	**160**	NA	NA	<0.50	<0.50	<0.50	<0.50	**160**
	03/10/97	**140**	NA	NA	<0.50	<0.50	<0.50	<0.50	**390**
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**330**
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**130**
	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**200**
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**240**
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**290**
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**290**
	12/08/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**230**
	02/17/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**200**
	06/10/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**290**
	09/07/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**230**
	12/13/99	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**180**
	3/16/00	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**260**
MW-7	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/01/94	**60**	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	03/08/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	06/14/95	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	
	09/26/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	
	12/27/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	
	03/08/95	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	
	06/05/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**20**
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**26**
	12/02/96	**140**	NA	NA	<0.50	<0.50	<0.50	<0.50	**140**
	03/10/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**29**
	06/12/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**28**
	09/29/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**27**
	12/01/97	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**29**
	03/19/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**6.0**
	05/28/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**25**
	08/31/98	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	**20**
	12/08/98[2]								

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Table 3
Summary of Groundwater Analytical Results
Former Beacon Station #574 - Castro Valley, California

Well ID	Sample Date	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-8	05/18/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	08/11/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	11/05/93	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/01/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	06/02/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	09/09/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	12/20/94	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	-
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-
	06/14/95	NS	NS	NS	NS	NS	NS	NS	-
	09/26/95	NS	NS	NS	NS	NS	NS	NS	-
	12/27/95	NS	NS	NS	NS	NS	NS	NS	-
	03/08/95	NS	NS	NS	NS	NS	NS	NS	-
	06/05/96	NS	NS	NS	NS	NS	NS	NS	-
	09/16/96	<50	NA	NA	<0.50	<0.50	<0.50	<0.50	<5.0
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS
	03/10/97	NS	NS	NS	NS	NS	NS	NS	NS
	06/12/97	NS	NS	NS	NS	NS	NS	NS	NS
	09/29/97	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/97	NS	NS	NS	NS	NS	NS	NS	NS
	03/19/98	NS	NS	NS	NS	NS	NS	NS	NS
	05/28/98	NS	NS	NS	NS	NS	NS	NS	NS
	08/31/98	NS	NS	NS	NS	NS	NS	NS	NS
	12/08/98[2]								

Notes:
<: Below indicated detection limit.
NS : Not sampled.
NA : Not Analyzed.
[1] : Product not typical gasoline.
[2] : Well abandoned.

BSK

APPENDIX A

Ultramar Field Sampling Procedures

APPENDIX A - ULTRAMAR FIELD PROCEDURES

The following section describes procedures used by field personnel in the performance of ground water sampling at Ultramar Inc. sites.

Ground Water Level and Total Depth Determination

A water level indicator is lowered down the well and a measurement of the depth to water from an established reference point on the casing is taken. The indicator probe is used to sound the bottom of the well and a measurement of the total depth of the well is taken. Both the water level and total depth measurements are taken to the nearest 0.01 foot.

Visual Analysis of Ground Water

Prior to purging and sampling ground water monitoring wells, a water sample is collected from each well for subjective analysis. The visual analysis involves gently lowering a clean, disposable, polyethylene bailer to approximately one-half the bailer length past the water table interface. The bailer is then retrieved, and the sample contained within the bailer is examined for floating product or the appearance of a petroleum product sheen. If measurable free product is noted in the bailer, a water/product interface probe is used to determine the thickness of the free product to the nearest 0.01 foot. The thickness of free product is determined by subtracting the depth to product from the depth to water.

Monitoring Well Purging and Sampling

Monitoring wells are purged by removing approximately four casing volumes of water from the well using a clean disposable bailer or electrical submersible purge pump. Purge volumes are calculated prior to purging. During purging, the temperature, pH, and electric conductivity of the purge water are monitored. The well is considered to be sufficiently purged when: The four casing volumes have been removed; the temperature, pH , and conductivity values have stabilized to within 10% of the initial readings; and the ground water being removed is relatively free of suspended solids. After purging, ground water levels are allowed to stabilize to within 80% of the initial water level reading. A water sample is then collected from each well with a clean, disposable polyethylene bailer. If the well is bailed or pumped dry prior to removing the minimum volume of water, the ground water is allowed to recharge. If the well has recharged to within 80% of the initial depth to water reading within two hours, the well will continue to be purged until the minimum volume of water has been removed. If the well has not recharged to at least 80% of the initial depth to water reading within two hours, the well is considered to contain formational water and a ground water sample is collected. Ground water removed from the well is stored in 55-gallon drums at the site and labeled pending disposal.

In wells where free product is detected, the wells will be bailed to remove the free product. An estimate of the volume of product and water will be recorded. If the free product thickness is reduced to the point where a measurable thickness is no longer present in the well, a ground water sample will be collected. If free product persists throughout the purging process, a final free product thickness measurement will be taken and a ground water sample will not be collected.

Ground water samples are stored in 40-milliliter vials so that air passage through the sample is minimized (to prevent volatilization of the sample). The vial is tilted and filled slowly until an upward convex meniscus forms over the mouth of the vial. The Teflon™ side of the septum (in cap) is then placed against the meniscus, and the cap is screwed on tightly. The sample is then inverted and the bottle is tapped lightly to check for air bubbles. If an air bubble is present in the vial, the cap is removed and more sample is transferred from the bailer. The vial is then resealed and rechecked for air bubbles. The sample is then appropriately labeled and stored on ice from the time of collection through the time of delivery to the laboratory. The Chain-of-Custody form is completed to ensure sample integrity. Ground water samples are transported to a state-certified laboratory and analyzed within the U.S. Environmental Protection Agency specified hold times for the specified analytes.

APPENDIX B

Water Sample Logs - Doulos Environmental

DOULOS ENVIRONMENTAL COMPANY
GROUNDWATER/LIQUID LEVEL DATA
(measurements in feet)

Project Address: Beacon 574, 22315 Redwood Rd **Date:** 3-16-00
Castro Valley Ca **Project No.:** 94-574-01

Recorded by:

Well No	Time	Well Elev. TOC	Depth to Gr. Water	Measured Total Depth	Gr. Water Elevation	Depth to Product	Product Thickness	Comments
mw-1	12:46		20.66	29.75				
mw-2	12:43		19.13	29.50				
mw-3	12:40		19.86	29.46				
mw-4	12:50		15.81	24.71				
mw-5	12:30		14.35	29.60				
mw-6	12:34		18.79	27.99				

Notes:

DOULOS ENVIRONMENTAL COMPANY — SAMPLING INFORMATION SHEET

Client: Ultramar — Sampling Date: 3/16/00

Site: Beacon #574 — Project No.: 94-574-01

22315 Redwood Road — Well Designation: MW- 1

Castro Valley, CA

Is setup of traffic control devices required? (NO) YES time: _____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 3
Well cover type: 8" UV_____ 12" UV X 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI_____ 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____ 2" disposable bailer
_____ 2" PVC bailer
_____ 4" PVC bailer
_____ Submersible pump
_____ Dedicated bailer
X Centrifugal pump

Sampled with: Disposal bailer: X Teflon bailer: _____

Well Diameter: 2"____ 4" X 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 12:46
Depth of well: 29.75
Depth to water: 20.66

Recharge Measurement
Time: 3:56
Depth to water: 21.30

Calculated purge: 23.63 gal
Actual purge: 23.63 gal

Start purge: 2:36 Sampling time: 3:58

Time	Temp.	E.C.	pH	Turbidity	Volume
2:40	58.2	1243	7.31	—	1
2:42	58.6	1240	7.28	—	2
2:43	58.9	1238	7.23	—	3
2:47	59.4	1236	7.21	—	4

Sample appearance: clear Lock: _____

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 3/16/00

Site: Beacon #574 Project No.: 94-574-01

22315 Redwood Road Well Designation: MW- 2

Castro Valley, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 3
Well cover type: 8" UV_____ 12" UV X 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI_____ 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposal bailer: X Teflon bailer:_____

Well Diameter: 2"____ 4" X 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 12:43
Depth of well: 29.50
Depth to water: 19.13

Recharge Measurement
Time: 3:35
Depth to water: 20.45

Calculated purge: 27.0 gal
Actual purge: 27.0 gal

Start purge: 2:16 Sampling time: 3:37

Time	Temp.	E.C.	pH	Turbidity	Volume
2:18	58.4	1346	7.21	—	1
2:20	58.8	1341	7.16	—	2
2:23	59.3	1338	7.13	—	3
2:25	59.5	1334	7.09	—	4

Sample appearance: clear Lock:_____

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks:_____

Signature:_____

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 3/16/00

Site: Beacon #574 Project No.: 94-574-01

22315 Redwood Road Well Designation: MW- 3

Castro Valley, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 3
Well cover type: 8" UV_____ 12" UV X 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI_____ 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposal bailer: X Teflon bailer:_____

Well Diameter: 2"____ 4" X 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 12:40
Depth of well: 29.46
Depth to water: 19.86

Recharge Measurement
Time: 3:10
Depth to water: 20.10

Calculated purge: 25.0 gal
Actual purge: 25.0 gal

Start purge: 1:54 Sampling time: 3:11

Time	Temp.	E.C.	pH	Turbidity	Volume
1:56	58.3	1376	7.29	—	1
1:59	58.9	1373	7.24	—	2
2:01	59.4	1370	7.21	—	3
2:03	59.7	1363	7.18	—	4

Sample appearance: clear Lock:_____

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 3/16/00

Site: Beacon #574 Project No.: 94-574-01

22315 Redwood Road Well Designation: MW- 5

Castro Valley, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 3
Well cover type: 8" UV X 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI_____ 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposal bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 12:30
Depth of well: 29.60
Depth to water: 14.35

Recharge Measurement
Time: 1:17
Depth to water: 15.21

Calculated purge: 9.8 gal
Actual purge: 9.8 gal

Start purge: 12:59 Sampling time: 1:18

Time	Temp.	E.C.	pH	Turbidity	Volume
1:00	58.5	1369	7.43	—	1
1:01	58.8	1365	7.40	—	2
1:02	59.3	1361	7.38	—	3
1:03	59.7	1358	7.35	—	4

Sample appearance: clear Lock: dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: _____

Signature: _____

DOULOS ENVIRONMENTAL COMPANY SAMPLING INFORMATION SHEET

Client: Ultramar Sampling Date: 3/16/00

Site: Beacon #574 Project No.: 94-574-01

22315 Redwood Road Well Designation: MW- 6

Castro Valley, CA

Is setup of traffic control devices required? (NO) YES time:_____ hours
Is there standing water in well box? (NO) YES Above TOC Below TOC
Is top of casing cut level? NO (YES) If no, see remarks
Is well cap sealed and locked? NO (YES) If no, see remarks
Height of well casing riser (in inches): 10
Well cover type: 8" UV X 12" UV_____ 12" EMCO_____ 8" BK_____
12" BK_____ 12" DWP_____ 12" CNI_____ 36" CNI_____ Other_____
General condition of wellhead assembly: Excellent (Good) Fair Poor

Purging Equipment:
_____2" disposable bailer
_____2" PVC bailer
_____4" PVC bailer
_____Submersible pump
_____Dedicated bailer
X Centrifugal pump

Sampled with: Disposal bailer: X Teflon bailer:_____

Well Diameter: 2" X 4"____ 6"____ 8"____

Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement
Time: 12:34
Depth of well: 27.99
Depth to water: 18.79

Recharge Measurement
Time: 1:37
Depth to water: 19.41

Calculated purge: 5.89 gal
Actual purge: 5.89 gal

Start purge: 1:24 Sampling time: 1:39

Time	Temp.	E.C.	pH	Turbidity	Volume
1:25	58.5	1347	7.48	—	1
1:26	58.9	1343	7.46	—	2
1:27	59.3	1341	7.42	—	3
1:28	59.9	1338	7.39	—	4

Sample appearance: clear Lock: dolphin

Equipment replaced: (Check all that apply) Note condition of replaced item
2" Locking Cap:_____ Lock #3753:_____ 7/32 Allenhead:_____
4" Locking Cap:_____ Lock-Dolphin:_____ 9/16 Bolt:_____
6" Locking Cap:_____ Pinned Allenhead (DWP):_____

Remarks: _____

Signature: _____

APPENDIX C

Laboratory Reports and Chain of Custody Documentation

KIFF ANALYTICAL LLC

Report Number : 16246
Date : 06/05/2000

Dennis Dettloff
BSK Sacramento
3140 Gold Camp Dr., Suite 160
Rancho Cordova, CA 95670

Subject : 5 Water Samples
Project Name : Beacon 574
Project Number : 574

Dear Mr. Dettloff,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 16246
Date : 06/05/2000

Project Name : **Beacon 574**
Project Number : **574**

Sample : **MW-1** Matrix : Water
Sample Date :03/16/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**9600**	50	ug/L	EPA 8260B	03/25/2000
Toluene	**430**	50	ug/L	EPA 8260B	03/25/2000
Ethylbenzene	**2100**	50	ug/L	EPA 8260B	03/25/2000
Total Xylenes	**9200**	50	ug/L	EPA 8260B	03/25/2000
Methyl-t-butyl ether	**730**	500	ug/L	EPA 8260B	03/25/2000
TPH as Gasoline	**59000**	5000	ug/L	EPA 8260B	03/25/2000
Toluene - d8 (Surr)	99.6		% Recovery	EPA 8260B	03/25/2000
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	03/25/2000

Sample : **MW-2** Matrix : Water
Sample Date :03/16/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**4900**	20	ug/L	EPA 8260B	03/27/2000
Toluene	**780**	10	ug/L	EPA 8260B	03/25/2000
Ethylbenzene	**1100**	10	ug/L	EPA 8260B	03/25/2000
Total Xylenes	**3700**	10	ug/L	EPA 8260B	03/25/2000
Methyl-t-butyl ether	**870**	100	ug/L	EPA 8260B	03/25/2000
TPH as Gasoline	**38000**	1000	ug/L	EPA 8260B	03/25/2000
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	03/25/2000
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	03/25/2000

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 16246
Date : 06/05/2000

Project Name : **Beacon 574**
Project Number : **574**

Sample : **MW-3** Matrix : Water
Sample Date :03/16/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Methyl-t-butyl ether	**< 5.0**	5.0	ug/L	EPA 8260B	03/25/2000
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/25/2000
Toluene - d8 (Surr)	99.0		% Recovery	EPA 8260B	03/25/2000
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	03/25/2000

Sample : **MW-5** Matrix : Water
Sample Date :03/16/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Methyl-t-butyl ether	**< 5.0**	5.0	ug/L	EPA 8260B	03/25/2000
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/25/2000
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	03/25/2000
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	03/25/2000

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 16246
Date : 06/05/2000

Project Name : **Beacon 574**
Project Number : **574**

Sample : **MW-6** Matrix : Water
Sample Date :03/16/2000

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	03/25/2000
Methyl-t-butyl ether	**260**	5.0	ug/L	EPA 8260B	03/25/2000
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	03/25/2000
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	03/25/2000
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	03/25/2000

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Ultramar Inc.
CHAIN OF CUSTODY REPORT 16246

BEACON

Beacon Station No.	Sampler (Print Name)	Date	Form No.
574	Colynn Ackerly	3-16-00	1 of 1
Project No. 574	**Sampler (Signature)**		
Project Location CASTRO VALLEY	**Affiliation** DOULOS		

STANDARD TAT

Sample No./Identification	Date	Time	Lab No.	BTEX	TPH (gasoline)	TPH (diesel)	No. of Containers	REMARKS
MW – 1	3-16-00	3:58	-01	X	X		3	
MW – 2	"	3:37	-02					
MW – 3	"	3:11	-03					
MW – 5	"	1:18	-04					
MW – 6	"	1:39	-05	X	X		3	

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
DOULOS					
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation) FedEx / K. Kiff	Date 3/17/00	Time 1800

Report To:

Bill to: ULTRAMAR INC.
525 West Third Street
Hanford, CA 93230
Attention: JOE ALDRIDGE

WHITE: Return to Client with Report YELLOW: Laboratory Copy PINK: Originator Copy

32-8003 1/00