



**2nd Quarter
1996 Groundwater Monitoring Report
Nestle USA, Inc.
Former Carnation Dairy Facility
1310 14th Street
Oakland, California**

Prepared for
Nestle USA, Inc.

Prepared by
EA Engineering, Science, and Technology

July 1996



25 July 1996

Ms. Jennifer Eberle
Alameda County Health Agency
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502
(510) 567-6700

RE: 2nd Quarter 1996 Groundwater Monitoring Report
Nestle, USA Former Carnation Dairy Site
Oakland California

Dear Ms. Eberle:

On behalf of Nestle USA, we enclose the current quarterly groundwater monitoring report for your review.

Sincerely yours,

A handwritten signature in black ink that reads "George Read". The signature is written in a cursive, flowing style.

George Read, Editor, for

Douglas Oram, Project Manager

Enclosure

CC Binayak Acharya, Nestle USA

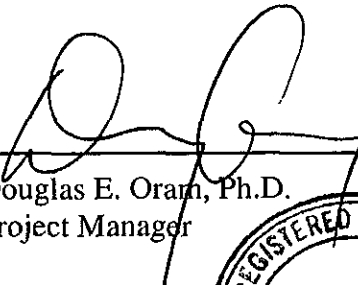
2nd Quarter
1996 Groundwater Monitoring Report
Nestle USA, Inc.
Former Carnation Dairy Facility
1310 14th Street
Oakland, California

Prepared for

Nestle USA, Inc.
800 North Brand Boulevard
Glendale, California 91203

Prepared by

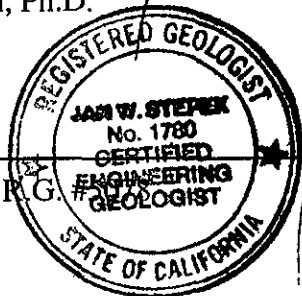
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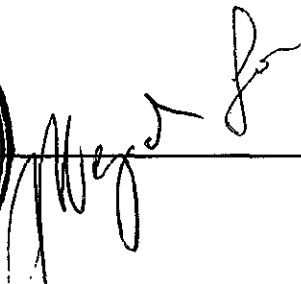

Douglas E. Oram, Ph.D.
Project Manager

7/25/96

Date

James Brownell, R.G.
Senior Geologist





7/25/96

Date

July 1996

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SITE CONTACTS

Site Address: 1310 14th Street
Oakland, California

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1. INTRODUCTION

Nestle USA, Inc. (Nestle) has retained EA Engineering, Science, and Technology (EA) to provide environmental services for the former Carnation Dairy facility at 1310 14th Street, Oakland, California (Figure 1). EA has prepared this report of quarterly groundwater sampling and analysis for the second quarter of 1996. A summary of additional field activities carried out in the second quarter of 1996 is listed below:

Starting on 16 April and continuing through 14 May NAPL was gauged and recovered on a weekly basis. After this phase of weekly NAPL gauging and recovery, NAPL was gauged and recovered once during the following month. This was done to determine the relative rates between weekly and monthly recovery. NAPL that measured more than 0.05 feet was bailed from the well. Each well from which NAPL was removed was gauged again 24 hours later to determine the thickness of NAPL recharge to it. The results of the testing are described in a report on product recoverability and vapor extraction/air sparging pilot testing.

On 11 June 1996, Binayak Acharya of Nestle and Douglas Oram of EA met with David McWhorter of Colorado State University. The meeting was held to discuss the applicability of various recovery technologies to optimize free product recovery at the Oakland site.

A set of wells separate from the NAPL monitoring wells is used to monitor the dissolved-phase plume. On 21 June 1996, 10 groundwater monitoring wells (MW-2, MW-3, MW-6, MW-25–MW-30, and MW-32) were gauged with an optical oil/water interface probe to check for NAPL and determine the groundwater gradient. Starting this quarter, groundwater from a reduced number of wells (MW-3, MW-26, MW-27, and MW-28) was sampled for hydrocarbons. The schedule of wells to be sampled during future quarterly monitoring rounds is discussed in Chapter 4. The well vault of MW-27 was replaced so the well could be gauged and sampled. This was the first time that EA has sampled this well. All samples were analyzed for petroleum hydrocarbons, and the samples from two wells (MW-26 and MW-27) were also analyzed for halogenated volatile organics (HVOCs).

2. FIELD PROCEDURES

2.1 NAPL Gauging and Recovery

A total of 39 wells (Figure 2) were gauged with an interface probe capable of distinguishing between NAPL and groundwater to determine the thickness of NAPL. After gauging, a semi-rigid tube was inserted into the well at the estimated NAPL level. The NAPL was collected with a peristaltic pump and the volume was recorded. Approximately 8 gallons of NAPL was removed from the 15 wells that contained more than 0.05 ft. The NAPL was temporarily stored in 55-gallon drums with secondary containment to await proper disposal. After the NAPL was removed on 20 June, the wells that were bailed (those that contained more than 0.05 feet of NAPL) were monitored after half an hour and again 24 hours later to determine the thickness of NAPL that recharged into the well.

2.2 Purging and Sampling of Groundwater

Before groundwater was sampled, at least three well casing volumes of water were removed from each well, using a dedicated 2-inch PVC pipe attached to a vacuum truck. The temperature, pH, and electrical conductance of the purged water were recorded at approximately each well casing volume as the well was purged. When the parameters were stable (less than 10 percent change from the previous reading for temperature, pH, and electrical conductance), purging was stopped. Groundwater samples were collected from each well with factory-cleaned disposable polyethylene bailers. The samples were poured into 40-ml glass VOA vials and 1-liter glass amber jars and placed in an ice-filled cooler. A field-prepared sampling equipment rinse blank was stored and transported in the cooler with the samples. All samples were handled and transported under chain of custody.

The samples were submitted to the Nestle Quality Assurance Laboratory (NQAL), where they were analyzed for gasoline-range organics (GRO) and diesel-range organics (DRO) by the California DOHS method described in the October 1989 LUFT Field Manual. Samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 602, and groundwater samples collected from MW-26 and MW-27 were also analyzed for HVOCs, by EPA Method 8010.

3. SUMMARY OF RESULTS

3.1 NAPL Monitoring and Removal

Twenty-one of the wells gauged to monitor for the presence of NAPL on 20 June contained NAPL (Figure 3), ranging in thickness from 0.01 feet (MW-22, PR-26, PR-36) to 3.50 feet (PR-20) (Table 1). NAPL was removed from 15 wells, and the wells were allowed to recharge for one day. On 21 June, the NAPL thickness ranged from 0.04 feet (PR-35) to 0.75 feet (PR-64); NAPL did not recover to the original thickness in any of the wells. The field documents for the NAPL measurements are included in Appendix A. A report covering the NAPL recovery testing through June 1996 is in progress.

3.2 Depth to Groundwater Measurements

On 21 June 1996, the depth to groundwater was measured in selected monitoring wells (MW-2, MW-3, MW-6, MW-25–MW-30, and MW-32). Groundwater elevations ranged from 6.27 (MW-29) to 6.91 (MW-32) feet above mean sea level (Table 2). Groundwater elevations have decreased an average of 1.4 feet since groundwater was measured on 12 March 1996. A groundwater elevation contour map for 21 June 1996 is shown in Figure 4. The direction of groundwater flow is toward the northwest, at a gradient of 0.003 feet per foot. Field documentation is provided in Appendix A.

3.3 Analysis of Samples

Laboratory test results for GRO, DRO, BTEX, and HVOC analyses of groundwater samples collected on 20 June 1996 are reported in Table 3, along with the results of previous quarterly sampling events since March 1993. The laboratory analytical report for 20 June 1996 is included as Appendix B.

The concentration of benzene in groundwater samples is shown in Figure 5. Benzene was detected in groundwater samples collected from MW-3 (940 $\mu\text{g/L}$) and MW-26 (14,000 $\mu\text{g/L}$). The concentrations of benzene in MW-3 and MW-26 have increased since the March 1996 sampling event.

The concentration of GRO in groundwater samples is shown in Figure 6. GRO concentrations were detected in MW-3 (1,900 $\mu\text{g/L}$) and MW-26 (5,400 $\mu\text{g/L}$). The concentrations of GRO in MW-3 and MW-26 have increased since the March 1996 sampling event.

1,2-Dichloroethane and 1,1-dichloroethane were detected in MW-26 at a concentrations of 170 $\mu\text{g/L}$ and 3.2 $\mu\text{g/L}$, respectively. 1,2-Dichloroethane was detected in MW-27 at a concentration of 6.8 $\mu\text{g/L}$, the only analyte detected in MW-27.

4. WORK PROPOSED FOR THE NEXT QUARTER

Wells MW-3, MW-26, and MW-28 will be sampled in September 1996, and in following quarters. Wells MW-2, MW-6, MW-25, MW-29, MW-30, and MW-32 will be sampled on a semi-annual basis starting in September 1996. Well MW-27 will be resampled in the first quarter 1997, on the basis that the June 1996 results were NDA. All samples will be analyzed for BTEX, DRO, and GRO, and samples from wells MW-26 and MW-32 will also be analyzed for HVOCs.

↓
+ MW28
+ MW27

Figures

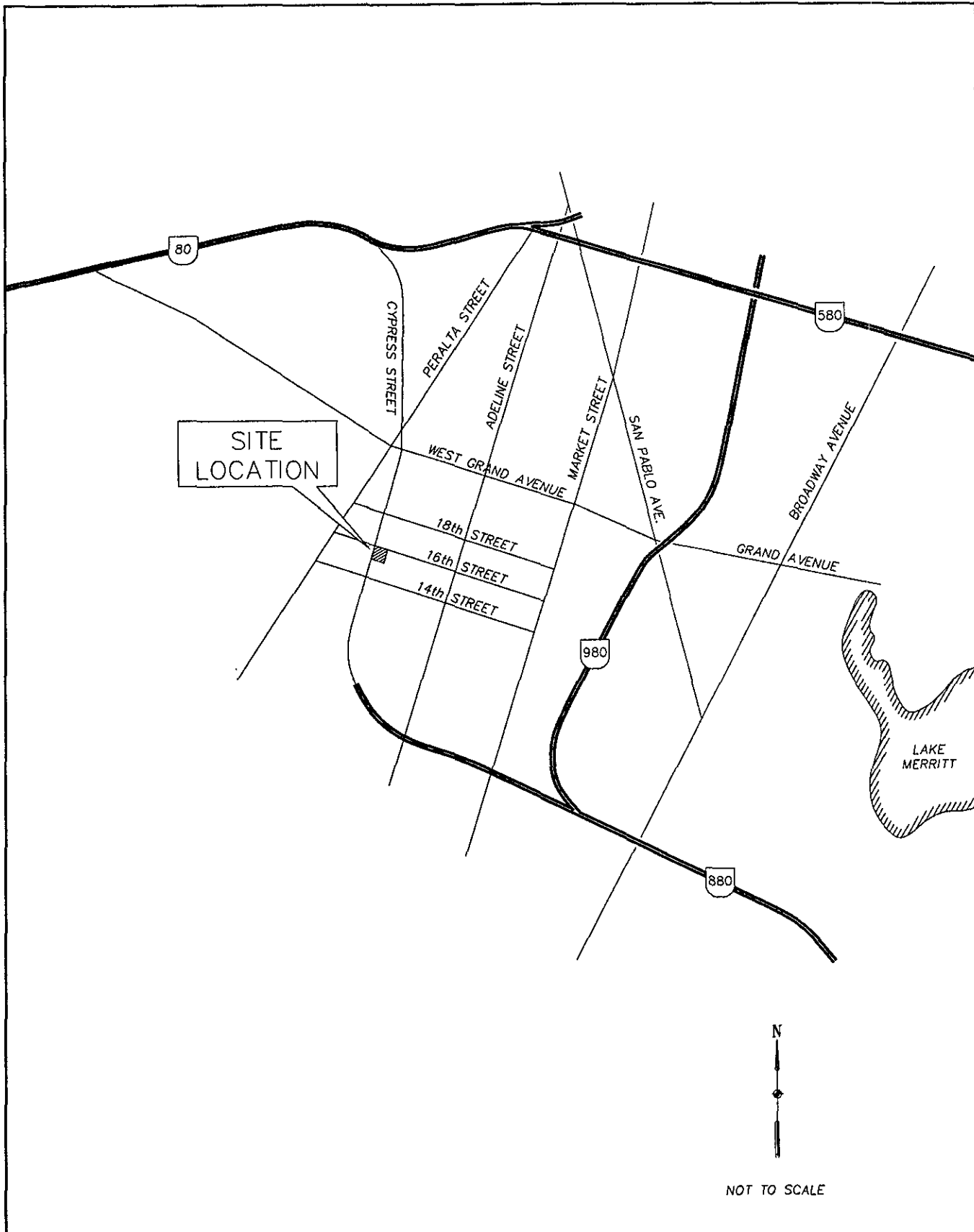



FIGURE 1.
 SITE LOCATION MAP
 NESTLE FACILITY, 1310 14th STREET,
 OAKLAND, CALIFORNIA.

 EA ENGINEERING, SCIENCE, AND TECHNOLOGY			
		PROJECT NO:	60966.01.0008
FILE NAME:	LOCATION.DWG	REVIEWED BY:	A. MOORE

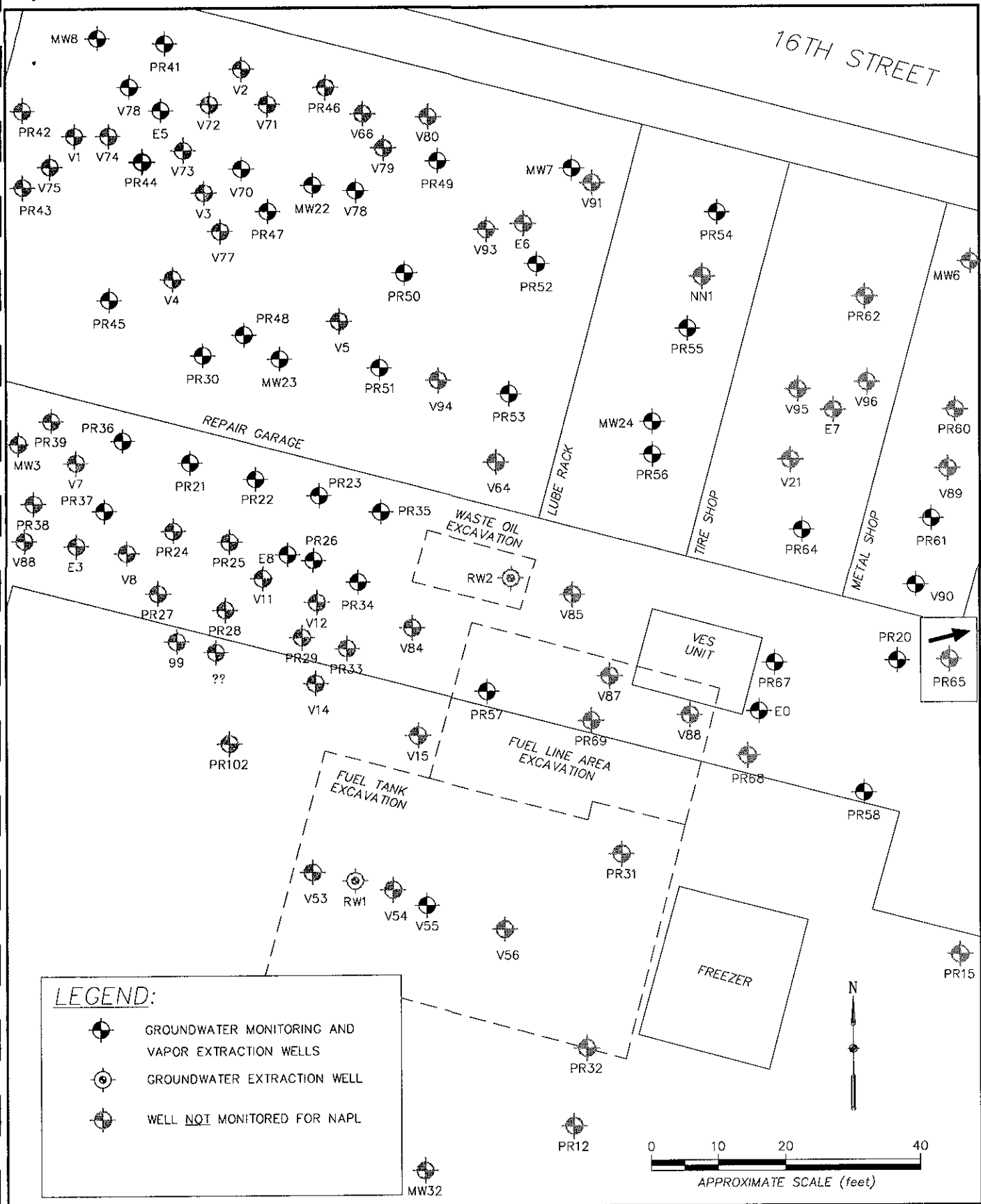


FIGURE 2.
 LOCATION OF WELLS MONITORED FOR NAPL,
 NESTLE FACILITY, OAKLAND, CALIFORNIA
 20 JUNE 1996



PROJECT NO:	60966.01 0008	DATE	5/22/96
FILE NAME:	NESTLE5E DWG	REVIEWED BY:	C. MARTING

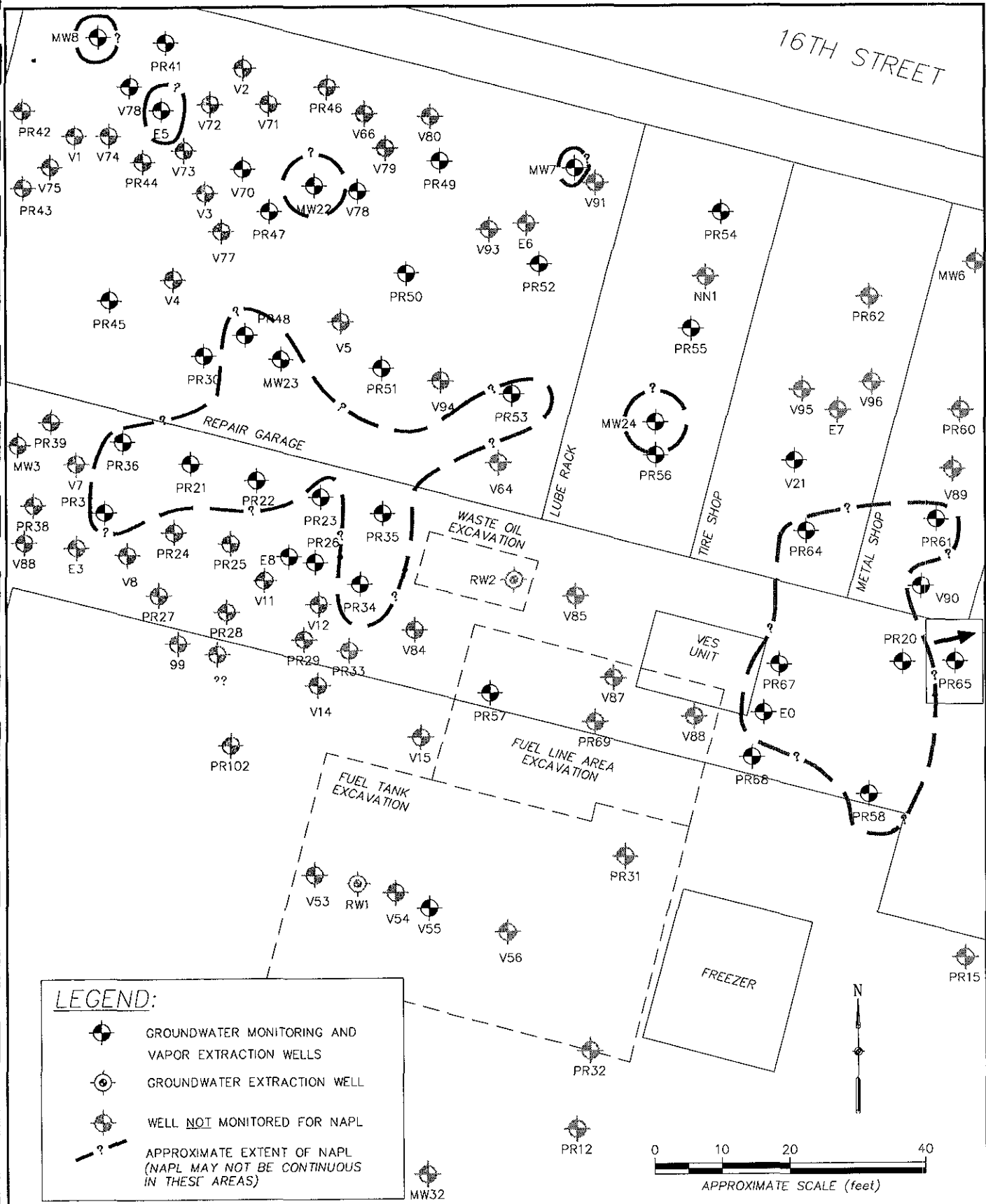
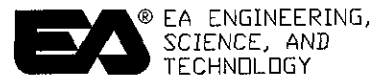


FIGURE 3.
 SITE PLAN SHOWING WELL LOCATIONS CONTAINING
 FREE PRODUCT JUNE 20, 1996
 FORMER NESTLE FACILITY,
 OAKLAND, CALIFORNIA



PROJECT NO.	60966.01 0008	DATE	7/16/96
FILE NAME	NESTLE6A.DWG	REVIEWED BY	C MARTING

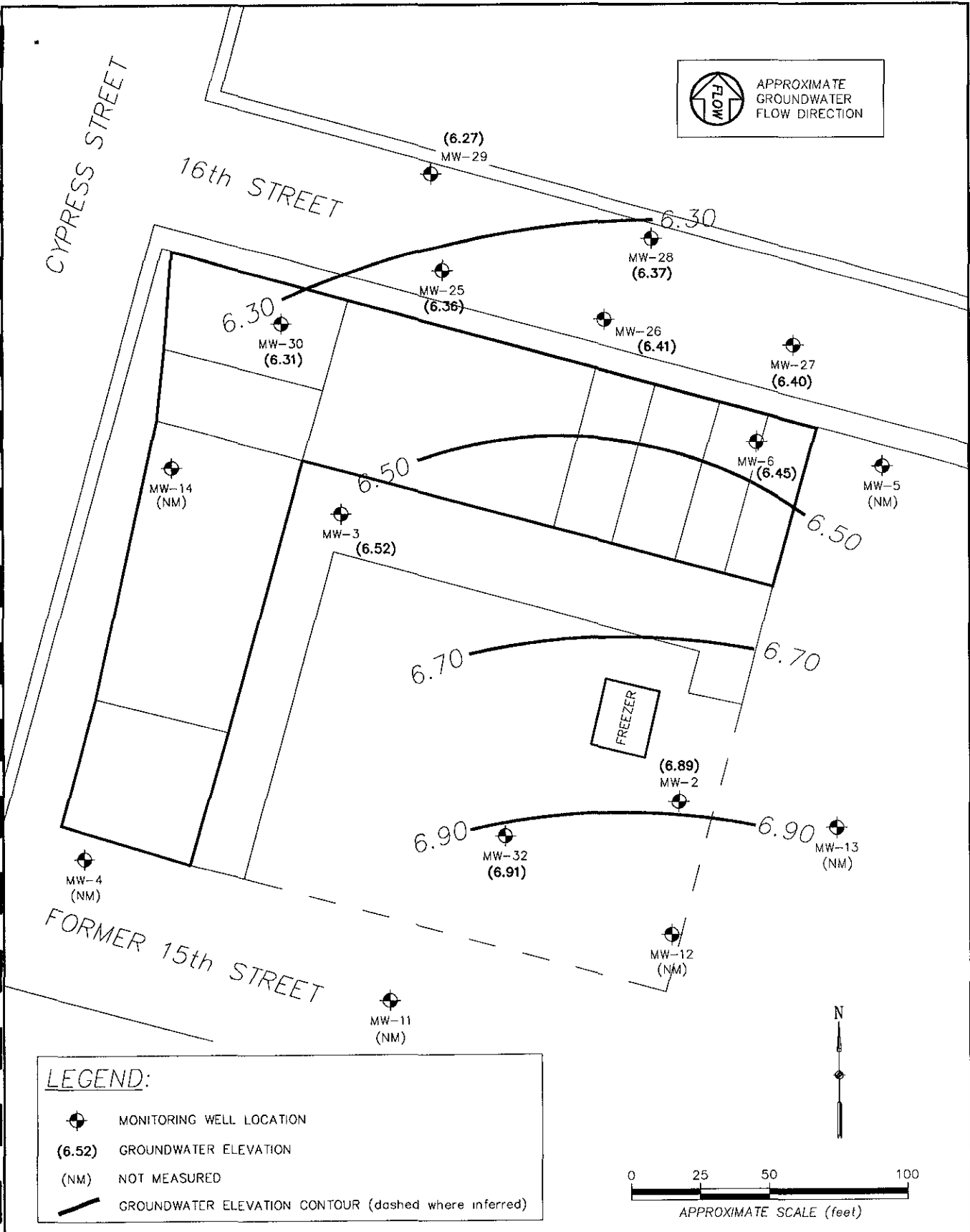
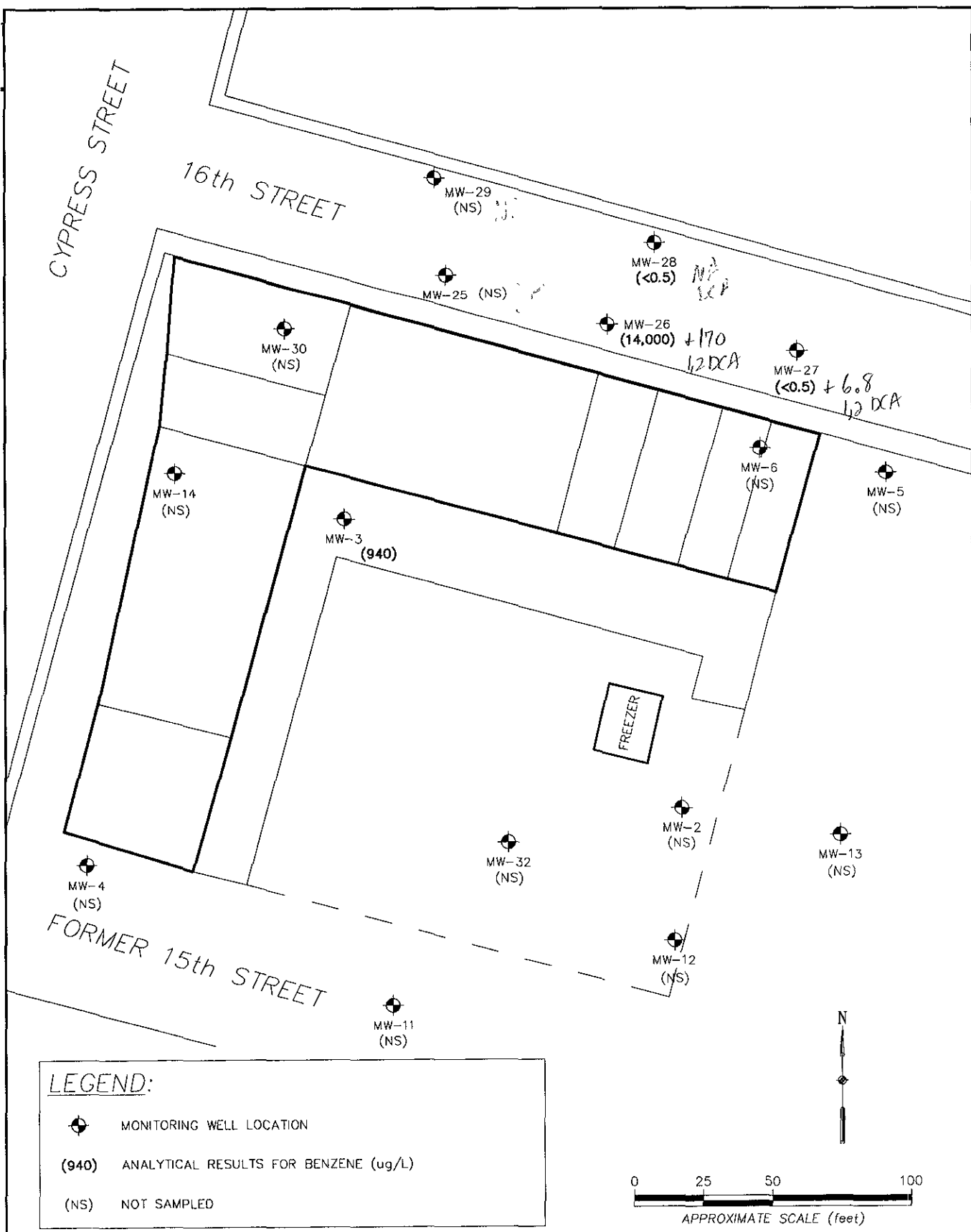



FIGURE 4.
 GROUNDWATER ELEVATIONS IN WELLS
 SAMPLED FOR DISSOLVED HYDROCARBONS
 NESTLE FACILITY, OAKLAND, CALIFORNIA
 20 JUNE 1996

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 SCIENCE, AND
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LEGEND:

-  MONITORING WELL LOCATION
- (940) ANALYTICAL RESULTS FOR BENZENE (ug/L)
- (NS) NOT SAMPLED

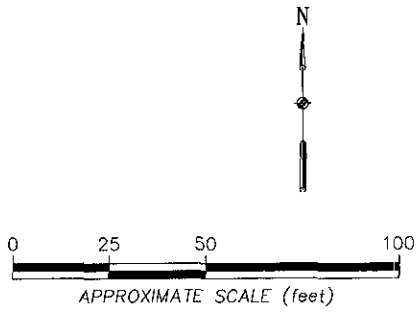
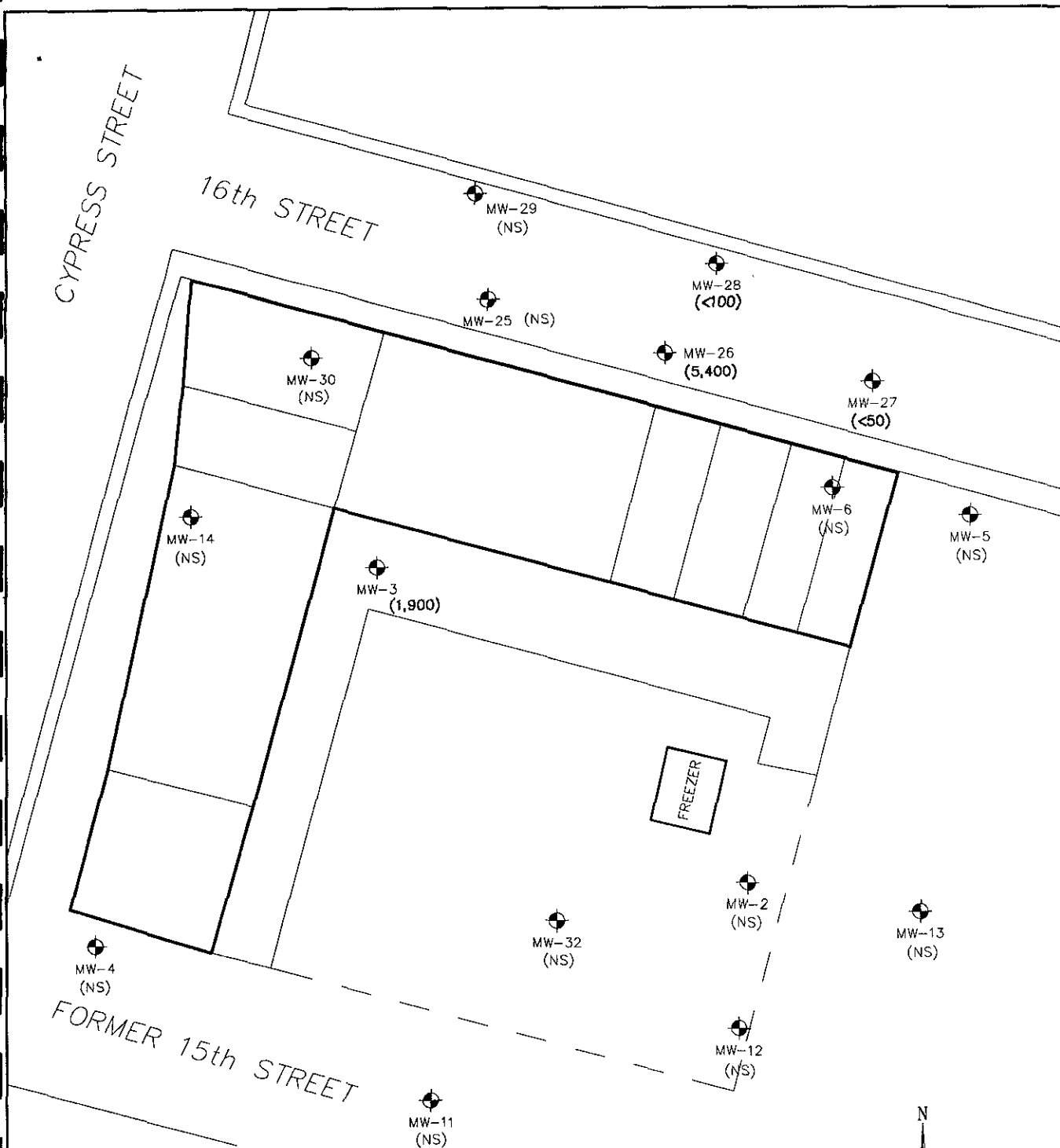



FIGURE 5.
GROUNDWATER SAMPLING
ANALYTICAL RESULTS FOR BENZENE (ug/L)
NESTLE FACILITY, OAKLAND, CALIFORNIA
20 JUNE 1996



PROJECT NO:	60966.01 0008	DATE	4/16/96
FILE NAME:	NEST-296.DWG	REVIEWED BY:	C. MARTING



LEGEND:

-  MONITORING WELL LOCATION
- (1,900) ANALYTICAL RESULTS FOR GRO (ug/L)
- (NS) NOT SAMPLED

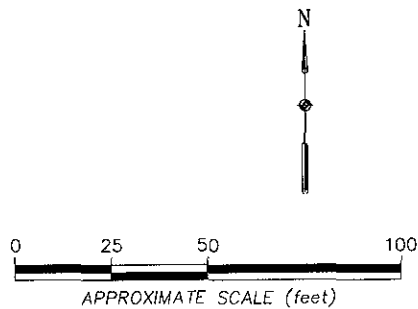


FIGURE 6.
GROUNDWATER SAMPLING
ANALYTICAL RESULTS FOR GRO (ug/L)
NESTLE FACILITY, OAKLAND, CALIFORNIA
20 JUNE 1996

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TECHNOLOGY

PROJECT NO:	60966 01.0008	DATE	4/16/96
FILE NAME:	NEST-296 DWG	REVIEWED BY	C MARTIN

Tables

TABLE 1 PRODUCT THICKNESS (ft), FORMER CARNATION DAIRY FACILITY, OAKLAND, CALIFORNIA
NOVEMBER 1993 - JUNE 1996

Well	11/4/93	2/24/93	3/18/94	6/2/94	8/31/94	12/22/94	3/13/95	6/9/95	7/27/95	9/22/95	12/6-28/95	2/27/96	2/29/96	6/20/96
MW-7	0.79	1.14	2.82	0.26	0.01	0.04	0	0	--	0.21	--	0	--	0.02
MW-8	0.47	0.44	0.30	0.31	0.31	0.26	0.08	0.09	0.23	0.24	0.24	0	--	0.03
MW-22	1.83	1.54	>3.0	1.14	0.19	0.03	0	0	0	0.32	0.30	0	--	0.01
MW-23	1.21	0.07	1.40	1.79	0.68	0.41	0	0.31	0.44	0.71	0.30	0.19	0.15	1.00
MW-24	1.77	12.10	>3.0	0.97	0.39	0	0	0	--	1.41	0	0	--	2.46
E-0	--	--	--	--	--	--	--	--	2.72	--	0	3.92	0.07	0.18
E-1	--	--	--	--	--	--	--	--	--	--	0.27	--	--	*
E-5	--	--	--	--	--	--	--	--	--	--	1.50	0.27	0.03	0.10
E-6	--	--	--	--	--	--	--	--	0.08	--	0	--	--	--
E-8	--	--	--	--	--	--	--	--	0.10	--	0.42	0.19	0.02	0
PR-20	0.91	1.15	3.41	1.45	0.88	1.04	0.14	0.16	2.54	1.12	0	3.5	2.65	3.50
PR-21	0.63	--	2.76	1.39	0.42	2.01	4.11	2.42	1.93	0.70	0.60	2.99	0.77	1.50
PR-22	0.98	1.43	>3.0	0.90	0.47	0.04	0.60	0.71	0.68	0.71	0.23	1.57	0.94	1.20
PR-23	0.67	0.36	1.06	0.38	0.17	0.06	0.34	0.06	0.08	0.12	0.11	0	--	0
PR-24	--	--	--	0	0	0	0	0	0.01	0	0	--	--	--
PR-26	0.6	0.54	2.05	0.39	0.17	0	0	0	--	0.13	0.12	0.27	0	0.01
PR-27	--	0	0	0	0	0	0	0	0.01	0	0	--	--	--
PR-30	--	--	--	2.81	1.21	1.97	0	0	--	Dry	Dry	Dry	--	Dry
PR-34	0.66	1.17	2.81	1.07	0.37	2.45	4.06	3.54	2.30	1.03	0.58	5.10	1.22	1.95
PR-35	0.62	1.26	>3.0	1.70	0.12	0.13	0.85	0.91	0.84	0.73	0.40	0.20	0.11	0.22
PR-36	-	1.13	1.43	1.13	0.37	0.19	0.15	0.23	0.22	Dry	Dry	0.20	0.05	0.01
PR-37	0.41	1.29	2.35	0.96	0.14	0.22	0.83	0.82	0.58	0.58	0.18	1.14	0.32	0.20
PR-41	0.59	0.53	0.42	0.13	0.43	0.03	0	0	--	Dry	Dry	Dry	--	Dry
PR-44	0.24	0.22	0.19	0	0	0	0	0	--	Dry	-	0	--	Dry
PR-45	0.17	5.27	0.10	0	0	0	0	0	--	0	0	0	--	0

-- Well not monitored.

* Well inaccessible.

TABLE 1 (continued)

Well	11/4/93	2/24/93	3/18/94	6/2/94	8/31/94	12/22/94	3/13/95	6/9/95	7/27/95	9/22/95	12/16-28/95	2/27/96	2/29/96	6/20/96
PR-47	0.75	0.41	sheen	0	0	0.01	0	0	--	0.08	0.08	0	--	0
PR-48	1.12	0.20	>3.0	0.83	0.07	1.43	0.64	0.65	0.94	0.50	0.54	0.11	0.06	2.06
PR-49	--	3.24	0	0	0	0	0	0	--	0	0	0	--	Dry
PR-50	1.08	1.58	0.89	0	0	0	0	0	0	0	0	0	--	0
PR-51	--	6.57	>3.0	0.01	0.72	2.02	0	0	0	0	0	Dry	--	Dry
PR-52	1.01	5.09	1.16	0.45	0.05	0.03	0	0	0	0	-	0	--	0
PR-53	1.15	3.01	>3.0	0.61	0.49	1.52	0	1.55	1.47	1.08	0.17	0.90	0.27	1.01
PR-54	0.97	0.99	1.20	0	0.08	0.01	0	0	--	0	0	0	--	0
PR-55	1.48	0.07	1.31	0.87	0	0.01	0	Dry	Dry	Dry	-	Dry	--	Dry
PR-56	0.90	1.30	--	0.89	0.15	1.48	0	0	0.01	0	-	0	--	0
PR-57	--	6.40	--	0	0	0	0	0	--	0	-	0	--	0
PR-58	0.96	0.85	--	1.48	0.89	2.15	1.41	1.34	2.40	1.18	0.57	2.67	1.25	2.79
PR-60	--	0	--	0	0	0	0	0	0.01	0	0	--	--	--
PR-61	0.25	0.39	0.35	1.03	0	0.01	0	0	1.30	0	0	1.48	0.45	1.96
PR-62	0.04	--	0.07	0.09	0	0	0	0	--	0	0	0	--	--
PR-64	1.49	0.11	>3.0	--	1.06	2.15	1.03	1.17	2.12	1.15	0.58	3.08	0.4	3.15
PR-65	0.04	0.02	0.09	0.08	0	0	0	0	0	0	0	0	--	--
PR-67	1.05	0.65	0.81	--	--	--	--	--	0.05	--	0	0	--	0.03
PR-70	--	--	1.59	--	--	--	--	--	--	--	--	--	--	*
V-8	--	--	--	--	--	--	--	--	0.01	--	0	--	--	--
V-55	--	--	--	--	--	--	--	--	--	--	0.04	--	--	0
V-77	--	--	--	--	--	--	--	--	0.78	Dry	--	--	--	--
V-78	--	--	--	--	--	--	--	--	0.01	--	0	0	--	0
V-90	--	1.41	--	0.94	0.16	1.68	0.02	0.02	Dry	Dry	0	Dry	--	Dry
V-94	--	--	--	--	--	--	--	--	0.01	--	--	--	--	--

TABLE 2 GAUGING DATA FOR MONITORING WELLS AT THE FORMER CARNATION DAIRY FACILITY, OAKLAND, CALIFORNIA, FEBRUARY 1994 - JUNE 1996

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-1	02/24/94	16.49	--	10.41	--	-10.41
	03/18/94		--	8.51	--	-8.51
	06/02/94		--	10.83	--	-10.83
	06/21/96		--	--	--	--
MW-2	02/24/94	15.11	--	9.21	--	-9.21
	03/18/94		--	7.47	--	-7.47
	06/02/94		--	9.65	--	-9.65
	08/31/94		--	10.49	--	-10.49
	12/22/94		--	8.74	--	-8.74
	03/13/95		--	6.87	--	-6.87
	06/09/95		--	8.47	--	-8.47
	09/22/95		--	9.42	--	-9.42
	12/12/95		--	10.23	--	-10.23
	12/18/95		--	9.87	--	-9.87
	03/12/96		--	6.70	--	-6.70
	06/21/96		--	8.22	--	6.89
	MW-3		02/24/94	14.30	--	8.47
03/18/94		--	7.23		--	-7.23
06/02/94		--	8.93		--	-8.93
08/31/94		--	9.91		--	-9.91
12/22/94		--	8.14		--	-8.14
03/13/95		--	6.64		--	-6.64
06/09/95		--	7.82		--	-7.82
09/22/95		--	9.08		--	-9.08
12/06/95		--	9.97		--	-9.97
12/12/95		--	9.53		--	-9.53
12/18/95		--	9.21		--	-9.21
03/12/96		--	6.31		--	-6.31
06/21/96		--	7.78		--	6.52
MW-4	02/24/94	14.42	--	8.09	--	-8.09
	03/18/94		--	7.00	--	-7.00
	12/18/95		--	dry	--	--
	03/12/96		--	6.45	--	-6.45
	06/21/96		--	--	--	--
MW-5	02/24/94	14.41	--	8.08	--	-8.08
	03/18/94		--	7.14	--	-7.14

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-5	06/02/94	14.41	--	9.09	--	5.32
	08/31/94		--	9.95	--	4.46
	12/22/94		--	8.22	--	6.19
	03/13/95		--	--	--	--
	06/09/95		--	--	--	--
	09/22/95		--	--	--	--
	12/12/95		--	9.60	--	4.81
	03/12/96		--	6.46	--	7.95
	06/21/96		--	--	--	--
MW-6	02/24/94	14.12	--	8.34	--	5.78
	03/18/94		--	7.04	--	7.08
	06/02/94		--	8.88	--	5.24
	08/31/94		--	9.65	--	4.47
	12/22/94		--	7.99	--	6.13
	03/13/95		--	6.32	--	7.80
	06/09/95		--	8.53	--	5.59
	09/22/95		--	8.63	--	5.49
	12/12/95		--	9.36	--	4.76
	12/18/95		--	9.16	--	4.96
	03/12/96		--	6.03	--	8.09
	06/21/96		--	7.67	--	6.45
	MW-7	02/24/94	14.29	8.64	9.78	1.14
03/18/94			6.56	9.38	2.82	4.91
06/02/94			9.12	9.38	0.26	4.91
08/31/94			9.87	9.88	0.01	4.41
12/22/94			8.29	8.33	0.04	5.96
03/13/95			--	6.72	--	7.57
06/09/95			--	8.79	--	5.50
09/22/95			9.30	9.51	0.21	4.78
06/21/96			--	--	--	--
MW-8	02/24/94	14.20	8.55	8.99	0.44	5.21
	03/18/94		7.34	7.64	0.30	6.56
	06/02/94		8.93	9.24	0.31	4.96
	08/31/94		9.82	10.13	0.31	4.07
	12/22/94		8.21	8.47	0.26	5.73
	03/13/95		6.77	6.85	0.08	7.35
	06/09/95		8.81	8.90	0.09	5.30
	07/27/95		8.32	8.55	0.23	5.65
	09/22/95		9.29	9.53	0.24	4.67

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-8	12/06/95	14.20	9.94	10.18	0.24	4.02
	12/18/95		9.16	9.36	0.20	4.84
	12/18/95		--	9.62	--	4.58
	12/18/95		--	9.25	--	4.95
	12/19/95		9.21	9.30	0.09	4.90
	12/19/95		9.34	9.35	0.01	4.85
	12/19/95		9.25	9.28	0.03	4.92
	12/28/95		9.22	9.27	0.05	4.93
	06/21/96	--	--	--	--	
MW-9	06/02/94	14.96	--	9.46	--	5.50
	06/21/96		--	--	--	--
MW-10	02/24/94	15.73	--	9.59	--	6.14
	03/18/94		--	--	--	--
	06/02/94		--	10.17	--	5.56
	06/21/96		--	--	--	--
MW-11	03/18/94	14.55	--	6.95	--	7.60
	06/02/94		--	8.99	--	5.56
	08/31/94		--	9.80	--	4.75
	12/22/94		--	8.15	--	6.40
	03/13/95		--	--	--	--
	06/09/95		--	--	--	--
	09/22/95		--	--	--	--
	12/18/95		--	9.29	--	5.26
	03/12/96		--	5.95	--	8.60
	06/21/96	--	--	--	--	
MW-12	03/18/94	15.28	--	7.62	--	7.66
	12/18/95		--	10.03	--	5.25
	06/21/96		--	--	--	--
MW-13	02/24/94	14.85	--	8.94	--	5.91
	03/18/94		--	8.62	--	6.23
	06/02/94		--	9.34	--	5.51
	08/31/94		--	10.15	--	4.70
	12/22/94		--	8.45	--	6.40
	03/13/95		--	--	--	--
	06/09/95		--	--	--	--
	09/22/95		--	--	--	--
			12/12/95	--	9.94	--

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-13	12/18/95	14.85	--	9.60	--	5.25
	03/12/96		--	6.40	--	8.45
	06/21/96		--	--	--	--
MW-14	02/24/94	14.10	--	dry	--	--
	03/18/94		--	dry	--	--
	12/06/95		--	dry	--	--
	06/21/96		--	--	--	--
MW-15	12/06/95	14.17	--	dry	--	--
	06/21/96		--	--	--	--
MW-16	12/06/95	14.11	--	dry	--	--
	06/21/96		--	--	--	--
MW-22	02/24/94	14.44	8.59	10.13	1.54	4.31
	03/18/94		6.98	--	>3.0	--
	06/02/94		9.02	10.16	1.14	4.28
	08/31/94		9.97	10.16	0.19	4.28
	12/22/94		8.39	8.42	0.03	6.02
	03/13/95		--	5.92	--	8.52
	06/09/95		--	8.60	--	5.84
	07/27/95		--	8.49	--	5.95
	09/22/95		9.42	9.74	0.32	4.70
	12/06/95		10.08	10.38	0.30	4.06
	12/18/95		--	9.35	--	5.09
	06/21/96		--	--	--	--
MW-23	02/24/94	14.48	8.87	8.94	0.07	5.54
	03/18/94		7.04	8.44	1.40	6.04
	06/02/94		8.21	10.00	1.79	4.48
	08/31/94		9.93	10.61	0.68	3.87
	12/22/94		8.32	8.73	0.41	5.75
	03/13/95		--	5.52	--	8.96
	06/09/95		8.24	8.55	0.31	5.93
	07/27/95		8.43	8.87	0.44	5.61
	09/22/95		9.35	10.06	0.71	4.42
	12/06/95		--	10.07	--	4.41
	12/18/95		9.40	9.70	0.30	4.78
	12/18/95		--	9.89	--	4.59
	12/18/95		9.46	9.49	0.03	4.99

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-23	12/19/95	14.48	9.45	9.55	0.10	4.93
	12/19/95		--	9.88	--	4.60
	12/19/95		9.48	9.52	0.04	4.96
	12/28/95		9.40	9.52	0.12	4.96
	06/21/96		--	--	--	--
MW-24	02/24/94	14.67	8.95	--	12.10	--
	03/18/94		7.45	--	>3.0	--
	06/02/94		9.11	10.08	0.97	4.59
	08/31/94		10.19	10.58	0.39	4.09
	12/22/94		--	8.55	--	6.12
	03/13/95		--	6.68	--	7.99
	06/09/95		--	9.54	--	5.13
	09/22/95		9.35	10.76	1.41	3.91
	12/06/95		10.39	10.39	--	4.28
	06/21/96		--	--	--	--
MW-25	02/24/94	12.86	--	7.36	--	5.50
	03/18/94		--	6.14	--	6.72
	06/02/94		--	7.93	--	4.93
	08/31/94		--	8.75	--	4.11
	12/22/94		--	7.01	--	5.85
	03/13/95		--	5.77	--	7.09
	06/09/95		--	6.75	--	6.11
	09/22/95		--	7.45	--	5.41
	12/12/95		--	8.18	--	4.68
	12/18/95		--	7.84	--	5.02
	03/12/96		--	5.38	--	7.48
06/21/96	--	6.50	--	6.36		
MW-26	02/24/94	12.71	--	7.21	--	5.50
	03/18/94		--	5.83	--	6.88
	06/02/94		--	7.68	--	5.03
	08/31/94		--	8.47	--	4.24
	12/22/94		--	6.98	--	5.73
	03/13/95		--	5.25	--	7.46
	06/09/95		--	6.47	--	6.24
	09/22/95		--	7.23	--	5.48
	12/12/95		--	7.99	--	4.72
	12/18/95		--	7.69	--	5.02
	03/12/96		--	4.86	--	7.85

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-26	06/21/96	12.71	--	6.30	--	6.41
MW-27	02/24/94	14.04	--	8.41	--	5.63
	03/18/94		--	7.23	--	6.81
	06/02/94		--	8.94	--	5.10
	12/22/94		--	--	--	--
	03/13/95		--	--	--	--
	06/09/95		--	--	--	--
	09/22/95		--	--	--	--
	12/12/95		--	9.30	--	4.74
	03/12/96		--	--	--	--
	06/21/96		--	7.64	--	6.40
MW-28	02/24/94	13.45	--	7.98	--	5.47
	03/18/94		--	6.65	--	6.80
	06/02/94		--	8.28	--	5.17
	08/31/94		--	9.03	--	4.42
	12/22/94		--	6.73	--	6.72
	03/13/95		--	5.93	--	7.52
MW-28	06/09/95	13.45	--	7.20	--	6.25
	09/22/95		--	8.37	--	5.08
	12/12/95		--	9.00	--	4.45
	12/18/95		--	8.44	--	5.01
	03/12/96		--	5.62	--	7.83
	06/21/96		--	7.08	--	6.37
MW-29	02/24/94	12.60	--	7.20	--	5.40
	03/18/94		--	5.82	--	6.78
	06/02/94		--	7.62	--	4.98
	08/31/94		--	8.44	--	4.16
	12/22/94		--	7.00	--	5.60
	03/13/95		--	5.55	--	7.05
	06/09/95		--	6.59	--	6.01
	09/22/95		--	7.58	--	5.02
	12/12/95		--	8.02	--	4.58
	12/18/95		--	7.76	--	4.84
	03/12/96		--	5.01	--	7.59
	06/21/96		--	6.33	--	6.27
MW-30	02/24/94	14.54	--	8.95	--	5.59

TABLE 2 (continued)

Well No.	Gauging Date	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-30	03/18/94	14.54	--	7.79	--	6.75
	06/02/94		--	9.47	--	5.07
	08/31/94		--	10.27	--	4.27
	12/22/94		--	8.64	--	5.90
	03/13/95		--	7.23	--	7.31
	06/09/95		--	8.34	--	6.20
	09/22/95		--	9.41	--	5.13
	12/06/95		--	10.35	--	4.19
	12/12/95		--	9.90	--	4.64
	12/18/95		--	9.55	--	4.99
	03/12/96		--	6.93	--	7.61
	06/21/96		--	8.23	--	6.31
MW-31	06/02/94	14.92	--	9.42	--	5.50
	06/21/96		--	--	--	--
MW-32	02/24/94	14.76	--	8.95	--	5.81
	03/18/94		--	7.25	--	7.51
	06/02/94		--	9.28	--	5.48
	08/31/94		--	10.12	--	4.64
	12/22/94		--	8.40	--	6.36
	03/13/95		--	6.63	--	8.13
	06/09/95		--	7.94	--	6.82
	09/22/95		--	9.32	--	5.44
	12/12/95		--	9.84	--	4.92
	12/18/95		--	9.53	--	5.23
	03/12/96		--	6.23	--	8.53
	06/2096		--	7.85	--	6.91

-- Product not present.

TABLE 3

CONCENTRATIONS ($\mu\text{g/L}$) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES,
FORMER CARNATION DAIRY FACILITY, OAKLAND, CALIFORNIA, 1993 - 1996

Well No.	Date Sampled	Concentration ($\mu\text{g/L}$)										Analysis Method	
		Benzene	Toluene	Ethyl-benzene	Xylenes	TPH GRO	TPH DRO	1,2-DCA	1,1-DCA	BDCM	1,1,1-TCA		TCE
MW-2	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	--	--	--	--	--	--	--	--	--	--	--	1,2
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	1,2
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.8	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	0.7	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
06/21/96	<i>ok</i> --	--	--	--	--	--	--	--	--	--	--	--	
MW-3	03/23/93	35	2.9	2	3.2	300	ND	--	--	--	--	--	1,2
	07/27/93	97	1	4	1.1	220	ND	--	--	--	--	--	1,2
	11/05/93	4.9	ND	ND	1.2	170	ND	--	--	--	--	--	1,2
	02/25/94	42	<1	<1	<1	100	<1,000	--	--	--	--	--	1,2
	06/03/94	120	8.2	8.4	4.5	320	<20,000	--	--	--	--	--	1,2
	08/31/94	83	1.1	5.3	2.9	<500	<500	--	--	--	--	--	4,2
	12/22/94	1,460	18	100	50	3,800	270	--	--	--	--	--	4,2
	03/13/95	3,600	260	270	280	14,000	1,700	--	--	--	--	--	1,2
	06/09/95	4,700	58	140	71	3,700	120	--	--	--	--	--	1,2
	09/21/95	9,800	58	600	95	14,000	300	--	--	--	--	--	1,2
	12/12/95	330	2.1	47	5.3	700	<50	--	--	--	--	--	4,2
	03/12/96	350	4.6	23	8.7	600	<50	--	--	--	--	--	1,2
06/21/96	940	76	98	57	1,900	<50	--	--	--	--	--	1,2	
MW-6	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L)										Analysis Method	
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH GRO	TPH DRO	1,2-DCA	1,1-DCA	BDCM	1,1,1-TCA		TCE
MW-6	02/25/94	<1	<1	<1	3.5	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	2.7	<0.5	<0.5	<0.5	69	<20,000	--	--	--	--	--	1,2
	08/31/94	<0.3	8.7	1.6	3.5	<500	<500	--	--	--	--	--	4,2
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	1.2	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	0.6	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
06/21/96	<i>ok</i> --	--	--	--	--	--	--	--	--	--	--	--	
MW-25	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	4.2	4.4	2.5	20	170	ND	--	--	--	--	--	1,2
	02/25/94	2.1	<1	<1	<1	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	2.4	14	<0.5	3.4	97	<20,000	--	--	--	--	--	1,2
	08/31/94	0.5	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.58	<0.5	<0.5	<0.5	150	950	--	--	--	--	--	1,2
	06/09/95	0.8	<0.5	<0.5	<0.5	<100	60	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
	03/12/96	<0.5	<0.5	<0.5	<0.5	120	<50	--	--	--	--	--	1,2
06/21/96	<i>ok</i> --	--	--	--	--	--	--	--	--	--	--	--	
MW-26	03/23/93	180	190	55	330	7,000	1,300	ND	ND	ND	ND	ND	1,2,3
	07/27/93	470	96	30	80	1,800	ND	140	ND	ND	ND	ND	1,2,3
	11/05/93	4,700	1,300	9	1,400	19,000	ND	120	ND	ND	ND	ND	1,2,3
	02/25/94	4,800	570	200	860	14,000	<1,000	28	<1	<1	<1	<1	1,2,3
	06/03/94	4,100	300	120	230	12,000	<20,000	140	1.7	0.84	<0.5	<0.5	1,2,3
	08/31/94	4,100	360	170	450	93,000	1,400	<4.0	<4.0	<4.0	<4.0	<4.0	4,2,7

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L)										Analysis Method	
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH GRO	TPH DRO	1,2-DCA	1,1-DCA	BDCM	1,1,1-TCA		TCE
MW-26	12/22/94	1,030	170	85	290	5,000	560	<2.0	<2.0	<2.0	<2.0	<2.0	4,2,7
	03/13/95	320	19	23	66	3,000	810	5.8	53	<0.5	<0.5	<0.5	1,2,9
	06/09/95	14,000	64	31	230	10,800	310	3.1	240	<0.5	1	<0.5	1,2,3
	09/21/95	1,900	160	160	330	8,000	200	120	1.3	<0.5	<0.5	<0.5	1,2,3
	12/12/95	13,000	38	36	120	25,000	0.6 ^b	180	1.4	<0.5	<0.5	<0.5	4,2,3
	03/12/96	9,000	33	30	65	4,400	<50	180	<0.5	<0.5	<0.5	<0.5	1,2,3
	06/21/96	14,000 ✓	27	16	66	54,000 5,400	<50	170 ✓	3.2	<0.5	<0.5	<0.5	1,2,3
MW-27	06/21/96	<0.5	<0.5	<0.5	<0.5	<50	<50	6.8	<0.5	<0.5	<0.5	<0.5	1,2,3
MW-28	03/23/93	ND	ND	ND	ND	110	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	ND	ND	ND	2.1	ND	ND	--	--	--	--	--	1,2
	02/25/94	<1	<1	<1	<1	<100	<1	--	--	--	--	--	1,2
	06/03/94	3.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	1,2
	08/31/94	1.4	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.91	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	06/21/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
MW-29	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	ND	ND	2.1	11	ND	ND	--	--	--	--	--	1,2
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	1,2
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L)										Analysis Method	
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH GRO	TPH DRO	1,2-DCA	1,1-DCA	BDCM	1,1,1-TCA		TCE
MW-29	03/13/95	0.59	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
	03/12/96	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	1,2
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	--
MW-30	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	ND	ND	ND	2.8	ND	ND	--	--	--	--	--	1,2
	02/25/94	1.3	<1	<1	<1	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	1.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	1,2
	08/31/94	0.8	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	0.6	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.98	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
	03/12/96	<i>ok</i> <0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	--
MW-32	03/23/93	391	6.2	3.1	9	440	ND	60	ND	ND	ND	ND	1,2,3
	07/27/93	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	1,2,3
	11/05/93	20	ND	1.8	2.1	170	ND	7.9	ND	ND	ND	ND	1,2,3
	02/25/94	5.6	<1	<1	<1	<100	<1,000	<1	<1	<1	<1	<1	1,2,3
	06/03/94	120	1.3	<0.5	1.4	350	<20,000	11	<0.5	<0.5	<0.5	<0.5	1,2,3
	08/31/94	39	0.5	2.2	1.2	<500	<500	10	<4.0	<4.0	<4.0	<4.0	4,2,7
	12/22/94	4.8	<0.5	<0.5	<0.5	<50	<50 ^a	4.6	<2.0	<2.0	<2.0	<2.0	4,2,7
	03/13/95	220	3.6	6.5	5.8	1,100	<400	16	<0.5	<0.5	<0.5	<0.5	1,2,9
	06/09/95	1,500	7.9	43	14	2,200	180	<0.5	0.7	<0.5	0.5	<0.5	1,2,3
	09/21/95	1,200	2.4	72	4.5	2,300	60	6.7	<0.5	<0.5	<0.5	1.4	1,2,3
	12/12/95	230	<0.5	8.9	<1.0	500	<50	28	<0.5	<0.5	<0.5	<0.5	4,2,3

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L)										Analysis	
		Benzene	Toluene	Ethyl-benzene	Xylenes	TPH GRO	TPH DRO	1,2-DCA	1,1-DCA	BDCM	1,1,1-TCA	TCE	Method
MW-32	03/12/96	40	<0.5	1.7	<0.5	110	<50	6.8	<0.5	<0.5	<0.5	<0.5	1,2,3
	06/21/96	not OK	--	--	--	--	--	--	--	--	--	--	--
Rinse Blank	03/12/96	15	9.5	2.6	11	110	ND	ND	ND	ND	ND	ND	1,2,3
	06/21/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	1,2,3
Trip Blank	03/12/96	ND	ND	ND	ND	ND	--	--	--	--	--	--	1,2
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	--

Notes: a. Non-diesel peak reported.
 b. No diesel pattern detected; result due to high gasoline concentration.

Analytical Methods:

- 1. 8020.
- 2. 8015M (CA LUFT).
- 3. 8010.
- 4. 602.
- 5. 8270.
- 6. 8080.
- 7. 8260.
- 8. 8240.
- 9. 601.

ND Not detected.
 -- Not analyzed.

TPH Total Petroleum Hydrocarbons.
 GRO Gasoline-range organics.
 DRO Diesel-range organics.
 1,2-DCA 1,2-Dichloroethane.
 1,1-DCA 1,1-Dichloroethane.
 BDCM Bromodichloromethane.
 1,1,1-TCA 1,1,1-Trichloroethane.
 TCE Trichloroethene.

Appendix A

Field Documents



EA Engineering,
Science, and
Technology

FIELD SUMMARY REPORT

Client: NESTLE Station No: _____

EA Project No: _____ Task No: _____

Sample Team: K Legge R Barilli

Date: 6/20/96

No. of Drums on Site: _____ Water _____ Soil _____ Empty

Summary:

All listed wells were gauged
well w/ significant amount of LPH
were purged and gauged again.

If wells were sampled, samples of
LPH and H₂O were collected to
be analyzed ^{measured} core Interfacial Tension.

A second purge of wells w/ LPH
was not conducted due to time
restrictions.

All data is included

MONITORING WELL DATA FORM

101

Project Number:

Station Number: 20 JUN lat mon

Client: Nestle

Samplers: K Legge / R Banelli

Site Location: OAKLAND Ca.

MONITORING WELL NUMBER	ELEVATION TOP OF CASING	DEPTH TO WATER	DEPTH TO PRODUCT	ELEVATION TOP OF GROUNDWATER	APPARENT PRODUCT THICKNESS	STICK UP (+) DOWN (-)	DEPTH TO BOTTOM
MW 7		7.84	7.82				
MW 8		7.90	7.87				
MW 22		7.96	7.95				
MW 23		8.75	7.75				
MW 24		8.10.15	7.69				
E-0		7.98	7.80				
E-1		cannot locate					
E-5		8.81	8.71				
E-8		7.60					
V 78		8.90					
V 90		DRY					
PR 20		9.60	6.10				
PR 21		9.40	7.90				
PR 22		8.78	7.58				
PR 23		6.66					
PR 26		7.78	7.77				
PR 30		DRY					
PR 34		9.52	7.57				
PR 35		7.88	7.66				
PR 36		7.71	7.70				
PR 37		7.75	7.55				
PR 41		DRY					
PR 44		DRY					
PR 45		7.93					
PR 47		7.45					



EA Engineering,
Science, and
Technology

FIELD SUMMARY REPORT

Client: Nestle Station No: _____

EA Project No: 60966.01 Task No: 0008

Sample Team: R. Boniello

Date: 6/21/96

No. of Drums on Site: 8 Water 0 Soil 0 Empty

Summary:

Arrived on site at 0700. Gauged wells MW25-29 before entering compound. Purged and sample MW26, MW27, MW28. Went inside Nestle; opened and gauged wells MW2, MW3, MW6, MW30, MW32. Purged and sampled MW3. Left site at 0915.



GROUNDWATER PURGE AND SAMPLE FORM

Date: 21 Jun

Project Name: Nestle Well Number: MW3
 Project Number: _____ Personnel: R. Boniello

AUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter			Casing Volume (gal)	Total Req'd Purge Volume (gal)
		$-$	$=$	\times	2	4	6	$=$
	24.8	7.78	17.02	0.16	0.64	1.44	10.90	32.68

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: _____

Time	0843	0845	0847	0849
Volume Purges (gal)	0	11	22	32.5
Temperature (°C)	17.7	18.5	19.1	18.9
pH	7.44	7.37	7.50	7.53
Specific Conductivity (umhos)	774	907	993	970
Turbidity / Color	low clear	low clear	low lt. brown	low lt. brown
Odor	HCS	HC	light HC	light HC
Casing Volumes Removed	0	1	2	3
Dewatered?	N	N	N	N

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 0852 Approx. Depth to Water During Sampling: 23

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW3	3	vua	HCl	40 ml			yes	BTX TPH-g	
MW3	1	amber	None	1L			yes	TPH-d	

Total Purge Volume: 32.5 Disposal/Containment Method: drums on site

Weather Conditions: clear

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.): N

Problems Encountered During Purging and Sampling: N

Comments: _____

Date: 21 Jun

GROUNDWATER PURGE AND SAMPLE FORM

 Project Name: Nestle Well Number: MW26
 Project Number: _____ Personnel: R. Bonello

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter			Casing Volume (gal)	Total Req'd Purge Volume (gal)	
		$-$	$=$	\times	2	4	6	$=$	
	25.00	6.30	18.7		0.16	0.64	1.44	11.97	35.90

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: _____

Time	0745	0747	0749	0751
Volume Purges (gal)	0	12	24	36
Temperature (°C)	16.9	17.5	17.7	17.8
pH	7.2	7.26	7.25	7.25
Specific Conductivity (umhos)	747	811	836	849
Turbidity / Color	medium ft. brown	medium ft. brown	medium ft. brown	low ft. brown
Odor	N	light HC	HC	HC
Casing Volumes Removed	0	1	2	3
Dewatered?	N	N	N	N

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 0754 Approx. Depth to Water During Sampling: 15

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW26	3	vocs	HCl	40 ml			yes	TBHQ BTEX	
↓	3	vocs	HCl	40 ml			↓	8010	
↓	1	amber	None	1L			↓	TPH-d	

Total Purge Volume: 36 Disposal/Containment Method: drums on siteWeather Conditions: clearCondition of Well Box and Casing at Time of Sampling: DKWell Head Conditions Requiring Correction (locks, damaged casing or well box, etc.): NProblems Encountered During Purging and Sampling: N

Comments: _____



Date: 21 Jun

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well Number: MW27
 Project Number: _____ Personnel: R. Boniello

AUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter			Casing Volume (gal)	Total Req'd Purge Volume (gal)
		$-$	$=$	\times	2	4	6	$=$
	24.00	7.64	16.36	0.16	0.64	1.44	10.47	31.41

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: _____

Time	0800	0802	0804	0806
Volume Purges (gal)	0	10.5	21	31.5
Temperature (°C)	18.0	18.5	18.3	18.2
pH	7.47	7.49	7.62	7.64
Specific Conductivity (umhos)	704	696	705	670
Turbidity / Color	low clear	low clear	low clear	low clear
Odor	Oil	oil	oil	oil
Casing Volumes Removed	6	1	2	3
Dewatered?	N	N	N	N

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 0808 Approx. Depth to Water During Sampling: 21

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW27	3	Voa	HCl	40 ml			yes	TPH-9 BTEX	
MW27	3	Voa	HCl	40 ml			↓	SO10	
MW27	1	amber	None	1L			↓	TPH-1	

Total Purge Volume: 31.5 Disposal/Containment Method: drums on site

Weather Conditions: clear

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.): N

Problems Encountered During Purging and Sampling: N

Comments: _____



GROUNDWATER PURGE AND SAMPLE FORM

21 Jun

Project Name: Nestle Well Number: MW28
 Project Number: _____ Personnel: R. Boniello

GAUGING DATA

Water Level Measuring Method: Interface Probe Measuring Point Description: TOC

WELL VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter			Casing Volume (gal)	Total Req'd Purge Volume (gal)
		$-$	$=$	\times	2	4	6	$=$
	25.20	7.08	18.12	0.16	0.64	1.44	11.59	34.79

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: _____

Time	0730	0732	0734	0736
Volume Purges (gal)	0	11.5	23	56
Temperature (°C)	17.4	18.3	18.2	18.4
pH	6.50	6.53	6.75	6.90
Specific Conductivity (umhos)	3647	625	695	702
Turbidity / Color	high brown	medium brown	medium brown	medium brown
Odor	N	N	N	N
Casing Volumes Removed	0	1	2	3
Dewatered?	N	N	N	N

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 0738 Approx. Depth to Water During Sampling: 10

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity	Color	Shipped Under Chain of Custody at 4 °C (Y/N)	Analysis Method	Comments
MW28	3	VQA	HCl	40ml	medium	lt. brown	yes	TPH-9 BTK	
↓	1	amber	None	1L			↓	TPH-d	

Total Purge Volume: 35 Disposal/Containment Method: drums on site

Weather Conditions: clear Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.): N

Problems Encountered During Purging and Sampling: N

Comments: _____

Appendix B

Laboratory Analytical Report



QUALITY ASSURANCE LABORATORY
P.O. BOX 1516
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 791-9144
FAX (614) 793-5353

- Laboratory Report -

Client: Binayak Acharya
Company: Nestle USA - Environmental Group

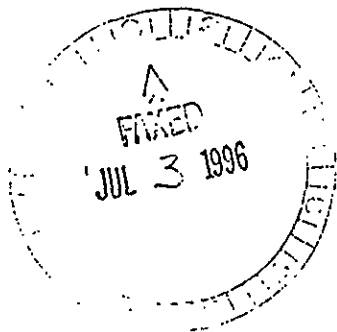
Sample Received: 6/22/96
Report Date: 7/3/96
Sampling Date 6/21/96

Sample Description: Water - Oakland, CA
Sample ID: MW-28
Submitted by EA Laboratories
PO/Ref/Disp#:

Lab#: 96JUL0015-01
LV#: 96JUN0814-0

cc: ~~Doug Grom~~ EA Laboratories

Test	Result	Units	MDL	Method	Date Analyzed
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	6/27/96
Diesel Range Organics	ND	mg/L	0.05	CA-Luft	7/2/96
Benzene	ND	µg/L	0.5	EPA 8020	6/27/96
Toluene	ND	µg/L	0.5	EPA 8020	6/27/96
Ethylbenzene	ND	µg/L	0.5	EPA 8020	6/27/96
m&p Xylenes	ND	µg/L	0.5	EPA 8020	6/27/96
o-Xylene	ND	µg/L	0.5	EPA 8020	6/27/96
Total Xylene	ND	µg/L	0.5	EPA 8020	6/27/96



ND: Not Detected

QUALITY ASSURANCE LABORATORY

 P.O. BOX 1516
 6625 EITERMAN ROAD
 DUBLIN, OH 43017-6516

 TEL (614) 791-9144
 FAX (614) 793-5353

- Laboratory Report -

Client: Binayak Acharya

Company: Nestle USA - Environmental Group

Sample Received: 6/22/96

Report Date: 7/3/96

Sampling Date 6/21/96

Sample Description: Water - Oakland, CA

Sample ID: MW-26

Submitted by EA Laboratories

PO/Ref/Disp#:

Lab#: 96JUL0015-02

LV#: 96JUN0814-1

cc: Doug Orom - EA Laboratories

Test	Result	Units	MDL	Method	Date Analyzed
Gasoline Range Organics	5.40 ✓	mg/L	0.05	CA-Luft	6/27/96
Diesel Range Organics	ND	mg/L	0.05	CA-Luft	7/2/96
Benzene	14000 ✓	µg/L	0.5	EPA 8020	6/27/96
Toluene	27	µg/L	0.5	EPA 8020	6/27/96
Ethylbenzene	16	µg/L	0.5	EPA 8020	6/27/96
m&p Xylenes	60	µg/L	0.5	EPA 8020	6/27/96
o-Xylene	5.5	µg/L	0.5	EPA 8020	6/27/96
Total Xylene	66	µg/L	0.5	EPA 8020	6/27/96
Dichlorodifluoromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Chloromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Vinyl Chloride	ND	µg/L	0.5	EPA 8010	6/26/96
Bromomethane	ND	µg/L	0.5	EPA 8010	6/26/96
Chloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Trichlorofluoromethane	ND	µg/L	0.5	EPA 8010	6/26/96
1,1-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
Methylene Chloride	ND	µg/L	0.5	EPA 8010	6/26/96
t 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
cis 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
1,1-Dichloroethane	3.2	µg/L	0.5	EPA 8010	6/26/96
Chloroform	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,1-Trichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Carbon Tetrachloride	ND	µg/L	0.5	EPA 8010	6/26/96
1,2-Dichloroethane	170	µg/L	0.5	EPA 8010	7/1/96
Trichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96

ND: Not Detected

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 6625 EITERMAN ROAD
 DUBLIN, OH 43017-8516
 TEL (614) 791-9144
 FAX (614) 793-5353

- Laboratory Report -

Client: Binayak Acharya
 Company: Nestlé USA - Environmental Group

Sample Received: 6/22/96
 Report Date: 7/3/96
 Sampling Date: 6/21/96

Sample Description: Water - Oakland, CA
 Sample ID: MW-26
 Submitted by EA Laboratories
 PO/Ref/Disp#:

Lab#: 96JUL0015-02
 LV#: 96JUN0814-1

cc: Doug Orom - EA Laboratories

1,2-Dichloropropane	ND	µg/L	0.5	EPA 8010	6/26/96
Bromodichloromethane	ND	µg/L	0.5	EPA 8010	6/26/96
c 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	6/26/96
t 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,2-Trichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Tetrachloroethene = PCE	ND	µg/L	0.5	EPA 8010	6/26/96
Dibromochloromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Bromoform	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,2,2-Tetrachloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
1,3-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
1,4-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
Chlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
1,2-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96

ND: Not Detected



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 DUBLIN, OH 43017-6516
 TEL (614) 791-9144
 FAX (614) 793-5353

- Laboratory Report -

Client: Binayak Acharya
 Company: Nestle USA - Environmental Group

Sample Received: 6/22/96
 Report Date: 7/3/96
 Sampling Date 6/21/96

Sample Description: Water - Oakland, CA
 Sample ID: MW-27
 Submitted by EA Laboratories
 PO/Ref/Disp#:

Lab#: 96JUL0015-03
 LV#: 96JUN0814-2

cc: Doug Orom - EA Laboratories

Test	Result	Units	MDL	Method	Date Analyzed
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	6/27/96
Diesel Range Organics	ND	mg/L	0.05	CA-Luft	7/2/96
Benzene	ND	µg/L	0.5	EPA 8020	6/27/96
Toluene	ND	µg/L	0.5	EPA 8020	6/27/96
Ethylbenzene	ND	µg/L	0.5	EPA 8020	6/27/96
m&p Xylenes	ND	µg/L	0.5	EPA 8020	6/27/96
o-Xylene	ND	µg/L	0.5	EPA 8020	6/27/96
Total Xylene	ND	µg/L	0.5	EPA 8020	6/27/96
Dichlorodifluoromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Chloromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Vinyl Chloride	ND	µg/L	0.5	EPA 8010	6/26/96
Bromomethane	ND	µg/L	0.5	EPA 8010	6/26/96
Chloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Trichlorofluoromethane	ND	µg/L	0.5	EPA 8010	6/26/96
1,1-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
Methylene Chloride	ND	µg/L	0.5	EPA 8010	6/26/96
t 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
cis 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
1,1-Dichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Chloroform	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,1-Trichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Carbon Tetrachloride	ND	µg/L	0.5	EPA 8010	6/26/96
1,2-Dichloroethane	6.8	µg/L	0.5	EPA 8010	6/26/96
Trichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96

ND: Not Detected



QUALITY ASSURANCE LABORATORY
 P.O. BOX 1516
 6625 EITERMAN ROAD
 DUBLIN, OH 43017-6516
 TEL (614) 791-9144
 FAX (614) 793-5353

- Laboratory Report -

Client: Binayak Acharya
 Company: Nestlé USA - Environmental Group

Sample Received: 6/22/96
 Report Date: 7/3/96
 Sampling Date 6/21/96

Sample Description: Water - Oakland, CA
 Sample ID: MW-27
 Submitted by EA Laboratories
 PO/Ref/Disp#:

Lab#: 96JUL0015-03
 LV#: 96JUN0814-2

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1,2-Dichloropropane	ND	µg/L	0.5	EPA 8010	6/26/96
Bromodichloromethane	ND	µg/L	0.5	EPA 8010	6/26/96
c 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	6/26/96
t 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,2-Trichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Tetrachloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
Dibromochloromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Bromoform	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,2,2-Tetrachloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
1,3-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
1,4-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
Chlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
1,2-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96

ND: Not Detected

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- Laboratory Report -

Client: Binayak Acharya
 Company: Nestle USA - Environmental Group

Sample Received: 6/22/96

Report Date: 7/3/96

Sampling Date 6/21/96

Sample Description: Water - Oakland, CA
 Sample ID: MW-3
 Submitted by EA Laboratories
 PO/Ref/Disp#:

Lab#: 96JUL0015-04

LV#: 96JUN0814-3

cc: Doug Orom - EA Laboratories

Test	Result	Units	MDL	Method	Date Analyzed
Gasoline Range Organics	1.90	mg/L	0.05	CA-Luft	6/27/96
Diesel Range Organics	ND	mg/L	0.05	CA-Luft	7/2/96
Benzene	940	µg/L	0.5	EPA 8020	6/27/96
Toluene	76	µg/L	0.5	EPA 8020	6/27/96
Ethylbenzene	98	µg/L	0.5	EPA 8020	6/27/96
m&p Xylenes	33	µg/L	0.5	EPA 8020	6/27/96
o-Xylene	24	µg/L	0.5	EPA 8020	6/27/96
Total Xylene	57	µg/L	0.5	EPA 8020	6/27/96

ND: Not Detected

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- Laboratory Report -

 Client: Binayak Acharya
 Company: Nestle USA - Environmental Group

Sample Received: 6/22/96

Report Date: 7/3/96

Sampling Date 6/21/96

 Sample Description: Water - Oakland, CA
 Sample ID: Rinse Blank
 Submitted by EA Laboratories
 PO/Ref/Disp#:

Lab#: 96JUL0015-05

LV#: 96JUN0814-4

cc: Doug Orom - EA Laboratories

Test	Result	Units	MDL	Method	Date Analyzed
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	6/27/96
Benzene	ND	µg/L	0.5	EPA 8020	6/27/96
Toluene	ND	µg/L	0.5	EPA 8020	6/27/96
Ethylbenzene	ND	µg/L	0.5	EPA 8020	6/27/96
m&p Xylenes	ND	µg/L	0.5	EPA 8020	6/27/96
o-Xylene	ND	µg/L	0.5	EPA 8020	6/27/96
Total Xylene	ND	µg/L	0.5	EPA 8020	6/27/96
Dichlorodifluoromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Chloromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Vinyl Chloride	ND	µg/L	0.5	EPA 8010	6/26/96
Bromomethane	ND	µg/L	0.5	EPA 8010	6/26/96
Chloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Trichlorofluoromethane	ND	µg/L	0.5	EPA 8010	6/26/96
1,1-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
Methylene Chloride	ND	µg/L	0.5	EPA 8010	6/26/96
t 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
cis 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
1,1-Dichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Chloroform	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,1-Trichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Carbon Tetrachloride	ND	µg/L	0.5	EPA 8010	6/26/96
1,2-Dichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Trichloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
1,2-Dichloropropane	ND	µg/L	0.5	EPA 8010	6/26/96
Bromodichloromethane	ND	µg/L	0.5	EPA 8010	6/26/96

ND: Not Detected

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- Laboratory Report -

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Sample Received: 6/22/96

Report Date: 7/3/96

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Sample Description: Water - Oakland, CA
Sample ID: Rinse Blank
Submitted by EA Laboratories

PO/Ref/Disp#:

Lab#: 96JUL0015-05

LV#: 96JUN0814-4

cc: Doug Orom - EA Laboratories

c 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	6/26/96
t 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,2-Trichloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
Tetrachloroethene	ND	µg/L	0.5	EPA 8010	6/26/96
Dibromochloromethane	ND	µg/L	0.5	EPA 8010	6/26/96
Bromoform	ND	µg/L	0.5	EPA 8010	6/26/96
1,1,2,2-Tetrachloroethane	ND	µg/L	0.5	EPA 8010	6/26/96
1,3-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
1,4-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
1,2-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
Chlorobenzene	ND	µg/L	0.5	EPA 8010	6/26/96
Diesel Range Organics	ND	mg/L	0.05	CA-Luft	7/2/96

ND: Not Detected

Approved By:

