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Third Quarter 1997 Monitoring Report Nestle Facility 1310 14th Street Oakland, California

Prepared for

Nestle USA, Inc.

Prepared by

EA Engineering, Science, and Technology

August 1997

60966.01.0008

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Third Quarter 1997 Monitoring Report Nestle Facility 1310 14th Street Oakland, California

Prepared for

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CONTENTS

1. INTRODUCTION

Nestle USA, Inc. (Nestle) has retained EA Engineering, Science, and Technology (EA) to provide environmental services for the Nestle facility at 1310 14th Street, Oakland, California (Figure 1). EA has prepared this report of quarterly monitoring for the third quarter of 1997. Work performed during this quarter is summarized below.

Wells containing passive skimmers (PR34, PR61, and E0) and well PR58 were monitored for the presence of non-aqueous phase liquid (NAPL) on a 1–2 week basis until 7 June 1997. NAPL was recovered from these wells if more than 0.05 feet was found in the well.

On 7 July 1997, the depth to groundwater in selected wells was measured, and groundwater elevations were calculated. To monitor concentrations of dissolved hydrocarbons in groundwater, samples were collected from selected wells and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) and as diesel (TPH-d), for benzene, toluene, ethylbenzene, and xylenes (BTEX), and for methyl t-butyl ether (MTBE). Some of the samples were analyzed also for halogenated volatile organic compounds (HVOCs).

2. FIELD PROCEDURES

2.1 NAPL Gauging and Recovery

Wells containing passive skimmers (PR34, PR61, and E0) and well PR58 (the skimmer in well PR58 was damaged and partially removed in December 1996) were monitored for the presence of NAPL on a 1–2 week basis. Skimmers were removed, checked, and emptied. Each well was then gauged with an interface probe. After gauging, a semi-rigid tube was inserted at the estimated NAPL level into each well that contained more than 0.05 feet of NAPL. The NAPL was collected with a peristaltic pump and the volume was recorded. The skimmers were then reinstalled.

In early June, installation of a multiphase extraction system was started and use of the passive skimmers was discontinued. During installation of the remediation system NAPL recovery was suspended. NAPL recovery from this point on will be done using the multiphase extraction system.

2.2 Purging and Sampling of Groundwater

After depths to groundwater were measured, at least 3 well casing volumes of water were removed from each well, using a dedicated 1-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 and electrical conductance, and less than 0.1 pH unit change for pH) 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-L 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 TPH-g and TPH-d by the California DOHS method described in the October 1989 LUFT Field Manual. Samples were also analyzed for BTEX and for MTBE by EPA Method 8020. Samples collected from three of the wells were also analyzed for HVOCs by EPA Method 8260. The following wells were sampled and analyses performed.

Well	BTEX	TPH-g	TPH-d	MTBE	HVOCs
MW-2	x	x	x	x	
MW-3	x	x	x	x	
MW-6	x	x	x	x	
MW-25	x	x	x	x	
MW-26	x	x	x	x	x
MW-28	x	x	x	x	x
MW-29	x	x	x	x	x
MW-30	x	x	x	x	
MW-32	x	x	x	x	

3. SUMMARY OF RESULTS

3.1 NAPL Monitoring and Removal

NAPL monitoring data are shown in Table 1. Wells that have been monitored for NAPL since 6 December 1995 are shown in Figure 2. The cumulative amounts of NAPL bailed from all wells from 6 December 1995 to 7 June 1997 are shown in Table 2. Approximately 93 gallons of NAPL have been removed from wells at the site since 6 December 1995.

3.2 Depth to Groundwater

Groundwater elevations on 7 July 1997 ranged from 5.19 (MW-28) to 5.80 (MW-12) feet above mean sea level (Table 3). Groundwater elevations have decreased approximately 1 foot since they were last measured on 15 April 1997. A groundwater elevation contour map for 7 July 1997 is shown in Figure 3. The direction of groundwater flow is toward the north-northwest, at a gradient of approximately 0.002 feet per foot. Field documentation is provided in Appendix A.

3.3 Analysis of Samples

3.3.1 Petroleum Hydrocarbons and MTBE

Laboratory test results for TPH-g, TPH-d, BTEX, and MTBE analyses of groundwater samples collected on 7 July 1997 are reported in Table 4, along with the results of previous quarterly sampling events since March 1993. The laboratory analytical report for the sampling done on 7 July 1997 is included as Appendix B.

The concentrations of benzene and TPH-g in groundwater samples are shown in Figure 4. Benzene concentrations ranged from less than 0.5 μg/L in the samples collected from MW-2, MW-6, MW-25, MW-28, MW-29, and MW-30 to 22,000 μg/L in the sample collected from MW-26. TPH-g concentrations in samples collected on 7 July ranged from less than 50 μg/L (MW-2, MW-6, MW-29, and MW-30) to 28,000 μg/L (MW-26).

A decrease in BTEX and TPH-g concentrations was observed in samples collected from well MW-3 relative to the 15 April 1997 sampling event. Wells MW-6 and MW-29 were not sampled in April but displayed a decrease in BTEX and TPH-g concentrations relative to the 16 January 1997 sampling event. An increase in BTEX and TPH-g concentrations was observed in samples collected from MW-32 relative to 16 January 1997. BTEX and TPH-g concentrations were consistent with previous sampling events in samples collected from all other wells on 7 July 1997.

MTBE was detected in samples at concentrations ranging from less than 0.5 μg/L (MW-2, MW-6, and MW-30) to 95 μg/L (MW-26).

3.3.2 HVOCs

Samples from MW-26, MW-28, and MW-29 were analyzed for HVOCs. Laboratory test results for HVOC analyses of groundwater samples are summarized in Table 4. The laboratory analytical report for groundwater samples collected on 7 July 1997 is included as Appendix B.

The concentrations of chlorinated hydrocarbons detected in groundwater samples collected on 7 July 1997 are shown in Figure 4. Concentrations of 1,2-dichloroethane (1,2-DCA) ranged from less than 5.0 μg/L (MW-26) to 170 μg/L (MW-28).

4. REMEDIATION SYSTEM STATUS

A multiphase extraction system has been installed at the site. The waste water and air discharge permits for the system have been obtained. Final testing, inspections, and minor modifications based on site conditions are being made to ensure proper system operation.

5. WORK PROPOSED FOR THE NEXT QUARTER

During the fourth quarter of 1997, wells MW-3, MW-26, and MW28 will be sampled and analyzed for BTEX, TPH-g, TPH-d, MTBE, and HVOCs.

Startup of the multiphase extraction system will occur in September.

Figures

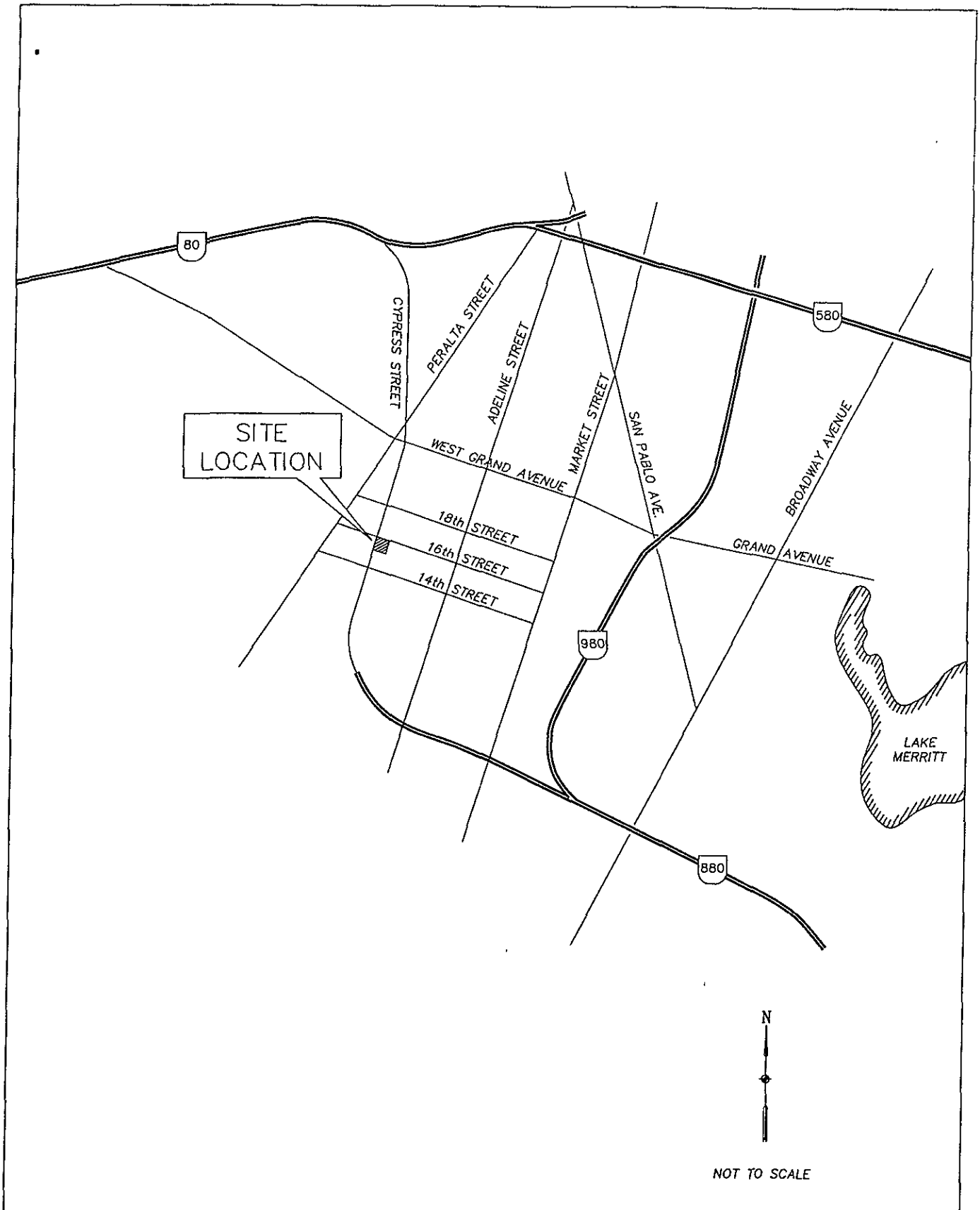

FIGURE 1.
SITE LOCATION MAP
NESTLE FACILITY, 1310 14th STREET,
OAKLAND, CALIFORNIA.

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60966.01.0008	5/14/97
FILE NAME: LOCATION.DWG	REVIEWED BY: Joe Muehleck

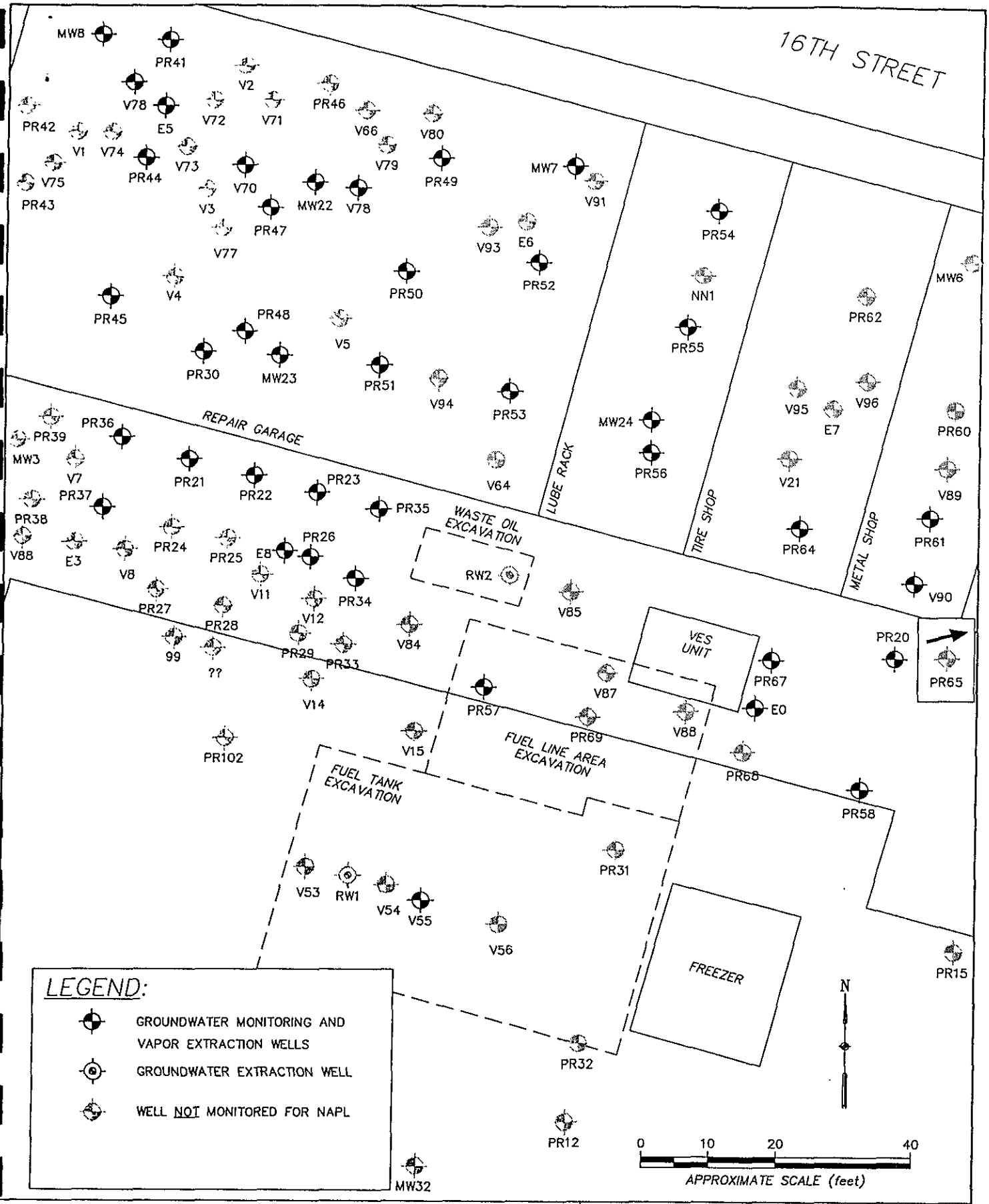

FIGURE 2.
LOCATION OF WELLS MONITORED FOR NAPL,
NESTLE FACILITY, OAKLAND, CALIFORNIA

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FILE NAME: nestle5e.dwg	REVIEWED BY: Joe Muehleck

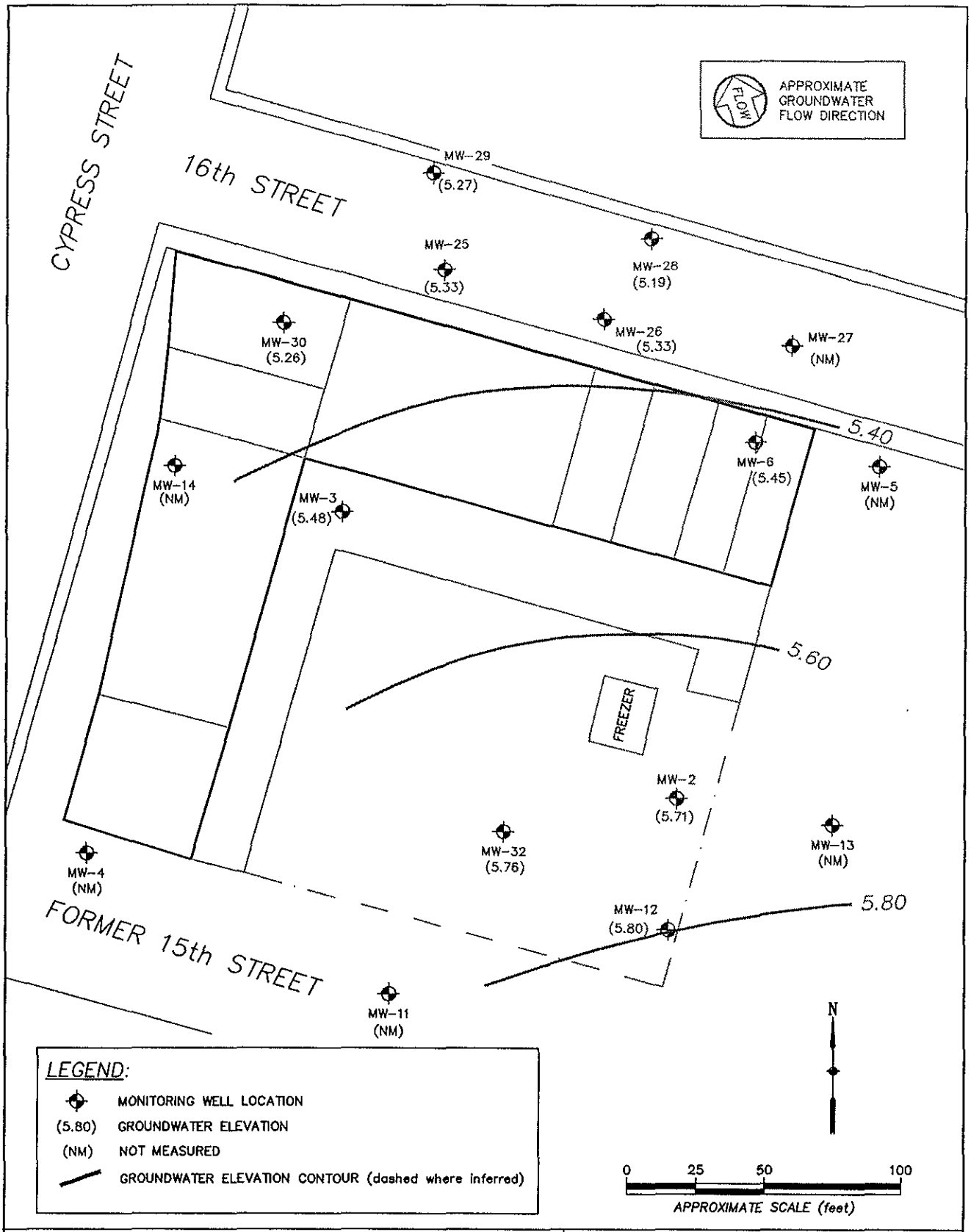

FIGURE 3.
GROUNDWATER ELEVATIONS IN WELLS SAMPLED FOR DISSOLVED HYDROCARBONS, NESTLE FACILITY, OAKLAND, CALIFORNIA, 7 JULY 1997.

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FILE NAME: gw797.dwg	REVIEWED BY: JOE MUEHLECK

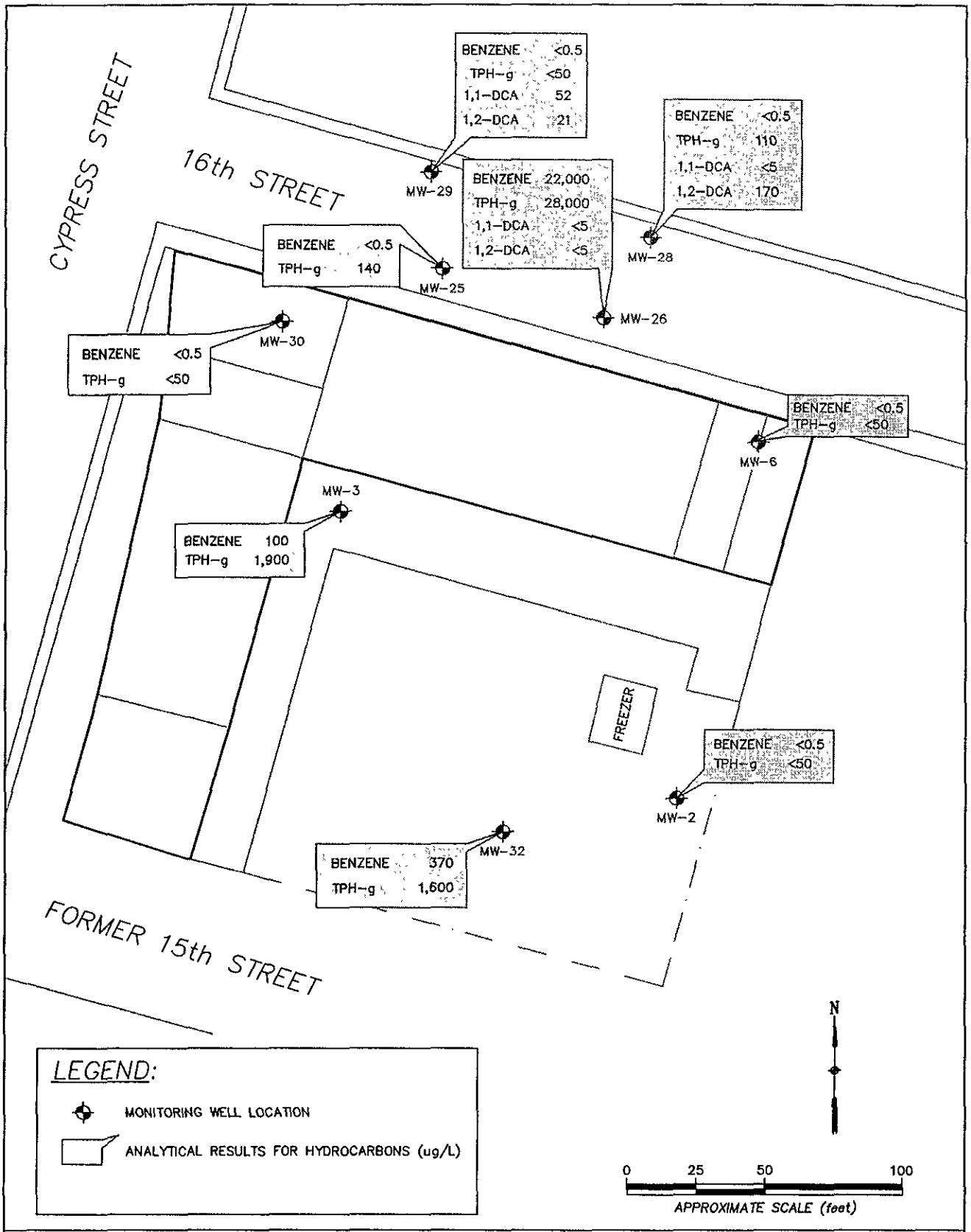

FIGURE 4.
GROUNDWATER SAMPLING ANALYTICAL RESULTS FOR BENZENE, GRO, AND HALOGENATED HYDROCARBONS (ug/L), NESTLE FACILITY, OAKLAND, CALIFORNIA, 7 JULY 1997.

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Tables

TABLE 1 PRODUCT THICKNESS (ft), FORMER CARNATION DAIRY FACILITY, OAKLAND, CALIFORNIA, NOVEMBER 1993 - JUNE 1997

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	8/30/96	9/18/96	10/4/96	10/11/96	10/18/96	10/22/96	11/22/96	12/6/96	12/17/96	12/21/96	1/3/97	1/14/97	2/10/97	2/17/97	2/28/97	3/7/97	3/14/97	3/28/97	4/11/97	4/17/97	4/25/97	5/2/97	5/9/97	5/16/97	6/6/97
MW-7	0.79	1.14	2.82	0.26	0.01	0.04	<0.01	<0.01	--	0.21	--	<0.01	--	0.02	0.20	0 04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-8	0.47	0.44	0.30	0.31	0.31	0.26	0.08	0.09	0.23	0.24	0.24	<0.01	--	0.03	0.04	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-22	1.83	1.54	>3.0	1.14	0.19	0 03	<0.01	<0.01	<0.01	0.32	0.30	<0.01	--	0.01	0.04	0.22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-23	1.21	0.07	1.40	1.79	0.68	0.41	<0.01	0.31	0.44	0.71	0 30	0.19	0.15	1.00	0.24	0.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24	1.77	12.10	>3.0	0 97	0.39	<0.01	<0.01	<0.01	--	1.41	<0.01	<0.01	--	2.46	1.45	1.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-0	--	--	--	--	--	--	--	--	2.72	--	<0.01	3.92	0.07	0.18	<0.01	<0.01	<0.01	<0.01	<0.01	<0 01	0.38	1.55	1.45	0.3	0.39	--	<0.01	<0.01	<0 01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
E-1	--	--	--	--	--	--	--	--	--	--	0.27	--	--	*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-5	--	--	--	--	--	--	--	--	--	--	1 50	0.27	0.03	0.10	0.01	0 04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-6	--	--	--	--	--	--	--	--	0.08	--	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-8	--	--	--	--	--	--	--	--	0.10	--	0.42	0.19	0.02	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-20	0.91	1.15	3.41	1.45	0.88	1.04	0.14	0.16	2.54	1.12	<0.01	3.5	2.65	3.50	0.69	0.47	0 36	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	0.86	0.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	0.47	0.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-23	0.67	0.36	1.06	0.38	0.17	0.06	0.34	0.06	0.08	0.12	0.11	<0.01	--	<0.01	0.09	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-24	--	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-26	0.6	0.54	2.05	0.39	0.17	<0.01	<0.01	<0.01	--	0.13	0.12	0.27	<0 01	0.01	0.07	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-27	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-30	--	--	--	2.81	1.21	1.97	<0.01	<0.01	--	Dry	Dry	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	1.14	0.48	0.33	0.23	0.01	<0 01	<0.01	0.26	0.59	0.25	<0.01	<0.01	0.75	0.67	0.98	1 15	1.23	0.65	1.31	0.8	1.06	0.7	0.66	0.64	0.75
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	0.33	0.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	0.19	0.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-41	0.59	0.53	0.42	0.13	0.43	0.03	<0.01	<0.01	--	Dry	Dry	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-44	0.24	0.22	0 19	<0.01	<0.01	<0.01	<0 01	<0 01	--	Dry	-	<0.01	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-45	0.17	5.27	0.10	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-47	0.75	0.41	sheen	<0.01	<0.01	0.01	<0.01	<0.01	--	0.08	0.08	<0 01	--	<0.01	0.08	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	1.36	0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-49	--	3 24	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	Dry	Dry	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-50	1.08	1.58	0 89	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-51	--	6.57	>3.0	<0.01	0.72	2.02	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	--	Dry	Dry	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-52	1.01	5.09	1.16	0.45	0.05	0.03	<0.01	<0.01	<0.01	<0.01	-	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-53	1.15	3 01	>3.0	0.61	0.49	1.52	<0.01	1.55	1.47	1.08	0.17	0.90	0.27	1.01	0.81	0.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-54	0.97	0.99	1.20	<0.01	0 08	0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-55	1 48	0.07	1.31	0.87	<0.01	0.01	<0.01	Dry	Dry	Dry	-	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-56	0.90	1.30	--	0.89	0.15	1.48	<0.01	<0.01	0.01	<0.01	-	<0.01	--	<0.01	<0.01	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-57	--	6.40	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	-	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	1.47	1.01	--	0.52	0.23	0.11	<0.01	<0.01	<0.01	<0.01	0.2	1.04	2.3	2.4	2.21	2.45	--	2.45	2.14	1.8	2 06	1.79	1.64	1.49	1 44
PR-60	--	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-61	0.25	0.39	0.35	1.03	<0.01	0.01	<0.01	<0 01	1.30	<0.01	<0.01	1.48	0.45	1.96	0.93	0.38	--	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.45	0.34	0 6	0.55	0.77	0 02	0.17	0.33	0.42	0.27	0 4	0.34	0.32
PR-62	0.04	--	0.07	0.09	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	1.01	--	0.82	0.69	0.68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-65	0.04	0.02	0.09	0.08	<0.01	<0.01	<0 01	<0 01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-67	1.05	0.65	0.81	--	--	--	--	--	0.05	--	<0.01	<0.01	--	0.03	0.10	0 07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-70	--	--	1 59	--	--	--	--	--	--	--	--	--	--	*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-8	--	--	--	-	-	--	--	--	0 01	--	<0 0'	--	--	--	--	<0 0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-55	--	--	--	--	--	--	--	--	--	--	0 04	--	--	<0 0	<0 01	*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-77	--	--	--	--	--	--	--	--	0 78	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-8	--	--	--	--	--	--	--	-	0 01	--	<0 0,	<0 01	--	<'-1	<0 0,	<0 01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-9	--	1 41	--	0 01	0 16	1 68	0 02	0 02	Dry	Dry	<0 01	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-24	--	--	--	-	--	--	--	--	0 01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Well not monitored
* Well inaccessible

TABLE 2 AMOUNTS (liters) OF NAPL BAILED FROM WELLS AT THE NESTLE SITE, OAKLAND, CALIFORNIA, DECEMBER 1995 - MAY 1997

Well	Sampling Date 12/6 - 4/16	04/24/96	04/29/96	05/07/96	05/14/96	06/20/96	07/16/96	07/23/96	07/26/96	07/31/96	08/16/96	08/30/96	09/06/96	09/18/96	10/04/96	10/11/96	10/18/96	10/22/96	11/22/96	12/06/96	12/17/96	12/21/96	01/03/97	01/14/97	02/10/97	02/17/97	02/28/97	03/07/97	03/14/97	03/28/97	04/11/97	04/17/97	04/25/97	05/02/97	05/09/97	05/16/97	06/06/97	Total
E0	38		0.5			1	0.25	0	0	0	0	0	0	0	0	0	0	0	2	2.5	10	0.35	3	0	0	0	0	0	0	0	0	0	0	0	0	0	57.6
E5	19.9					0.2																															20.1
MW7												0.25	0.25	0.25																							0.8
MW8	0.7																																				0.7
MW22														0.5																							0.5
MW23	2.35	0.5	0.25	0.38	0.38	0.75						2		0.9																							7.5
MW24	0		1.5			1						4.5		1.75																							8.8
PR20	1.9		13			5.75	5	3	2.5	2	1.5	1	0.75	0.5	0.5	0.25																						37.7
PR21	16.9	3.25	1	1	1	4	3					1.5		0.9																							32.6
PR22	8.6	0.75	0.75	0.75	1	3.5			0.25	2	1	1	1	1.1																							21.7
PR23	0.25											0.25																									0.5
PR26	1.25	0.25										0.1																									1.6
PR34	10.9	1.25	0.25	0.63	0.5	2							0.75	1	0.75	0.5	0.25	0.1	0.1	0.25	1.4	0.25	0	0	1	1	0.5	1.1	2.2	0.75	1.5	0.5	1.25	0.75	0.75	1	1	34.2
PR35	1.6	0.75	0.13		0.25	0.5						1		0.25																							4.5
PR36	0.5	0.25	0.13																																		0.9
PR37	1.8	0.25	0.13		0.13	0.5						0.5		0.25																							3.6
PR47												0.5																									0.5
PR48	3.4	1.25	1	1	0.75	3						2.5		0.9																							13.8
PR53	0.65	0.5	0.5	0.25	0.25	0.75						1		0.5																							4.4
PR58	10.4	1.25	1	1.2	1	2						1.25					0.5	0.4	0.2	0	0[a]	0	0.75	1	2	1.5	1.5	2		2.5	1.5	1.25	1.5	1.5	1.5	1.25	1	40.0
PR61	6	0.75	0.5	0.2	0.63	1.5						2		0.75				0.25	0	0	0	0	0.25	0	0.75	0.75	0.5	0.6	1.5	0.25	0.75	0.25	0.55	0.25	0.5	0.5	0.25	20.2
PR64	8.5	3.5	2.5	3	2	2.75	3	2	3	2	1	2	0.75	1.5	1	1.25	0.75																						40.5
PR67												0.25		0.25																							0.5
Total (liters)	134	15	23	8	8	29	11	5	6	6	4	22	4	11	2	2	2	1	2	3	11	1	4	1	4	3	3	4	4	4	4	2	3	3	3	3	2	353
Total (gal)	35	4	6	2	2	8	3	1	2	2	1	6	1	3	1	1	0	0	1	1	3	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	93

a. The skimmer in PR58 was found broken 12/17/96. The part attached to the well cap was removed; the remainder was left in the well.

TABLE 3 GAUGING DATA FOR MONITORING WELLS AT THE FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1994–1997

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	--	6.08
	03/18/94		--	8.51	--	7.98
	06/02/94		--	10.83	--	5.66
MW-2	02/24/94	15.11	--	9.21	--	5.90
	03/18/94		--	7.47	--	7.64
	06/02/94		--	9.65	--	5.46
	08/31/94		--	10.49	--	4.62
	12/22/94		--	8.74	--	6.37
	03/13/95		--	6.87	--	8.24
	06/09/95		--	8.47	--	6.64
	09/22/95		--	9.42	--	5.69
	12/12/95		--	10.23	--	4.88
	12/18/95		--	9.87	--	5.24
	03/12/96		--	6.70	--	8.41
	06/21/96		--	8.22	--	6.89
	08/29/96		--	9.59	--	5.52
	01/16/97		--	7.07	--	8.04
	04/15/97		--	8.21	--	6.90
	07/07/97		**--**	**9.40**	--	**5.71**
MW-3	02/24/94	14.30	--	8.47	--	5.83
	03/18/94		--	7.23	--	7.07
	06/02/94		--	8.93	--	5.37
	08/31/94		--	9.91	--	4.39
	12/22/94		--	8.14	--	6.16
	03/13/95		--	6.64	--	7.66
	06/09/95		--	7.82	--	6.48
	09/22/95		--	9.08	--	5.22
	12/06/95		--	9.97	--	4.33
	12/12/95		--	9.53	--	4.77
	12/18/95		--	9.21	--	5.09
	03/12/96		--	6.31	--	7.99
	06/21/96		--	7.78	--	6.52
	08/29/96		--	9.05	--	5.25
	01/16/97		--	7.12	--	7.18
	04/15/97		--	7.78	--	6.52
	07/07/97		--	**8.82**	--	**5.48**
MW-4	02/24/94	14.42	--	8.09	--	6.33
	03/18/94		--	7.00	--	7.42
	12/18/95		--	dry		--
	03/12/96		--	6.45	--	7.97
MW-5	02/24/94	14.41	--	8.08	--	6.33
	03/18/94		--	7.14	--	7.27
	06/02/94		--	9.09	--	5.32

TABLE 3 (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	08/31/94	14.41	--	9.95	--	4.46
	12/22/94		--	8.22	--	6.19
	12/12/95		--	9.60	--	4.81
	03/12/96		--	6.46	--	7.95
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
	08/29/96		--	8.93	--	5.19
	01/16/97		--	6.92	--	7.20
	04/15/97		--	7.65	--	6.47
	07/07/97		**--**	**8.67**	**--**	**5.45**
MW-7	02/24/94	14.29	8.64	9.78	1.14	4.51
	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
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
	12/06/95		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

TABLE 3 (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	12/28/95	14.20	9.22	9.27	0.05	4.93
MW-9	06/02/94	14.96	--	9.46	--	5.50
MW-10	02/24/94	15.73	--	9.59	--	6.14
	03/18/94		--	--	--	--
	06/02/94		--	10.17	--	5.56
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
	12/18/95		--	9.29	--	5.26
	03/12/96		--	5.95	--	8.60
MW-12	03/18/94	15.28	--	7.62	--	7.66
	12/18/95		--	10.03	--	5.25
	07/07/97		**--**	**9.48**	**--**	**5.80**
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
	12/12/95		--	9.94	--	4.91
	12/18/95		--	9.60	--	5.25
	03/12/96		--	6.40	--	8.45
MW-14	02/24/94	14.10	--	dry	--	--
	03/18/94		--	dry	--	--
	12/06/95		--	dry	--	--
MW-15	12/06/95	14.17	--	dry	--	--
MW-16	12/06/95	14.11	--	dry	--	--
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

TABLE 3 (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-22	12/18/95	14.44	--	9.35	--	5.09
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
	12/19/95		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
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
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
	08/29/96		--	7.72	--	5.14
	01/16/97		--	6.00	--	6.86
	04/15/97		--	6.44	--	6.42
	07/07/97		--	**7.53**	--	**5.33**

TABLE 3 (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	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
	06/21/96		--	6.30	--	6.41
	08/29/96		--	7.51	--	5.20
	01/16/97		--	5.70	--	7.01
	04/15/97		--	7.48	--	5.23
	07/07/97		**--**	**7.38**	**--**	**5.33**
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
	12/12/95		--	9.30	--	4.74
	03/12/96					
	06/21/96		--	7.64	--	6.40
	08/29/96		--	8.82	--	5.22
	01/16/97		--	7.06	--	6.98
	04/15/97		--	7.36	--	6.68
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
	06/09/95		--	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
	08/29/96		--	9.30	--	4.15
	01/16/97		--	6.50	--	6.95
	04/15/97		--	7.17	--	6.28
	07/07/97		**--**	**8.26**	**--**	**5.19**

TABLE 3 (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-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
	08/29/96		--	7.50	--	5.10
	01/16/97		--	5.78	--	6.82
	04/15/97		--	6.36	--	6.24
	07/07/97		**--**	**7.33**	**--**	**5.27**
MW-30	02/24/94	14.54	--	8.95	--	5.59
	03/18/94		--	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
	08/29/96		--	9.53	--	5.01
	01/16/97		--	7.72	--	6.82
	04/15/97		--	8.31	--	6.23
	07/07/97		**--**	**9.28**	**--**	**5.26**
MW-31	06/02/94	14.92	--	9.42	--	5.50
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

TABLE 3 (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-32	03/12/96	14.76	--	6.23	--	8.53
	06/21/96		--	7.85	--	6.91
	08/29/96		--	9.22	--	5.54
	01/16/97		--	7.14	--	7.62
	04/15/97		--	7.89	--	6.87
	07/07/97		--	**9.00**	--	**5.76**

-- Product not present.

TABLE 4 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–1997

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,2-DCA	1,1-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-2	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	--	--	--	--	--	--	--	--	--	--	--	
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.8	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	0.7	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	<0.5	<0.5	<0.5	<0.5	<50	<150	<0.5	0.7	<0.5	<0.5	--	
	07/07/97	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<150**	**--**	**--**	**--**	**--**	**<0.5**	
MW-3	03/23/93	35	2.9	2	3.2	300	ND	--	--	--	--	--	
	07/27/93	97	1	4	1.1	220	ND	--	--	--	--	--	
	11/05/93	4.9	ND	ND	1.2	170	ND	--	--	--	--	--	
	02/25/94	42	<1	<1	<1	100	<1,000	--	--	--	--	--	
	06/03/94	120	8.2	8.4	4.5	320	<20,000	--	--	--	--	--	
	08/31/94	83	1.1	5.3	2.9	<500	<500	--	--	--	--	--	
	12/22/94	1,460	18	100	50	3,800	270	--	--	--	--	--	
	03/13/95	3,600	260	270	280	14,000	1,700	--	--	--	--	--	
	06/09/95	4,700	58	140	71	3,700	120	--	--	--	--	--	
	09/21/95	9,800	58	600	95	14,000	300	--	--	--	--	--	
	12/12/95	330	2.1	47	5.3	700	<50	--	--	--	--	--	
	03/12/96	350	4.6	23	8.7	600	<50	--	--	--	--	--	
	06/21/96	940	76	98	57	1,900	<50	--	--	--	--	--	
	08/29/96	420	29	44	28	900	<150	--	--	--	--	--	
	01/16/97	1,600	270	120	194	3,600	700	9.2	<0.5	<0.5	<0.5	--	
	04/15/97	1,300	300	180	160	4,300	800	16	<0.5	<0.5	1.1	6.9	

TABLE 4 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,2-DCA	1,1-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-3	**07/07/97**	**100**	**84**	**100**	**67**	**1,900**	**350**	--	--	--	--	**3.8**	
MW-6	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	02/25/94	<1	<1	<1	3.5	<100	<1,000	--	--	--	--	--	
	06/03/94	2.7	<0.5	<0.5	<0.5	69	<20,000	--	--	--	--	--	
	08/31/94	<0.3	8.7	1.6	3.5	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	03/13/95	1.2	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	a
	06/09/95	0.6	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	5.5	16	2.9	16	140	220	6.3	<0.5	<0.5	<0.5	--	
	07/07/97	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<150**	--	--	--	--	**<0.5**	
MW-25	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	4.2	4.4	2.5	20	170	ND	--	--	--	--	--	
	02/25/94	2.1	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	2.4	14	<0.5	3.4	97	<20,000	--	--	--	--	--	
	08/31/94	0.5	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	03/13/95	0.58	<0.5	<0.5	<0.5	150	950	--	--	--	--	--	a
	06/09/95	0.8	<0.5	<0.5	<0.5	<100	60	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	120	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	90	<150	--	--	--	--	--	

TABLE 4 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,2-DCA	1,1-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-25	01/16/97	0.6	<0.5	<0.5	<0.5	80	<150	41	25	<0.5	<0.5	--	
	07/07/97	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**140**	**<150**	**--**	**--**	**--**	**--**	**11**	
MW-26	03/23/93	180	190	55	330	7,000	1,300	ND	ND	ND	ND	--	
	07/27/93	470	96	30	80	1,800	ND	140	ND	ND	ND	--	
	11/05/93	4,700	1,300	9	1,400	19,000	ND	120	ND	ND	ND	--	
	02/25/94	4,800	570	200	860	14,000	<1,000	28	<1	<1	<1	--	
	06/03/94	4,100	300	120	230	12,000	<20,000	140	1.7	<0.5	<0.5	--	c
	08/31/94	4,100	360	170	450	93,000	1,400	<4.0	<4.0	<4.0	<4.0	--	
	12/22/94	1,030	170	85	290	5,000	560	<2.0	<2.0	<2.0	<2.0	--	d
	03/13/95	320	19	23	66	3,000	810	5.8	53	<0.5	<0.5	--	
	06/09/95	14,000	64	31	230	10,800	310	3.1	240	1	<0.5	--	
	09/21/95	1,900	160	160	330	8,000	200	120	1.3	<0.5	<0.5	--	
	12/12/95	13,000	38	36	120	25,000	0.6	180	1.4	<0.5	<0.5	--	b
	03/12/96	9,000	33	30	65	4,400	<50	180	<0.5	<0.5	<0.5	--	
	06/21/96	14,000	27	16	66	5,400	<50	170	3.2	<0.5	<0.5	--	
	08/29/96	8,500	26	28	74	19,000	<150	160	<0.5	<0.5	<0.5	--	
	01/16/97	6,500	21	31	47	4,600	--	>50	4.3	<0.5	<0.5	26	
	04/15/97	16,000	33	40	160	26,000	2,200	97	3.5	<0.5	2.4	40	e
	07/07/97	**22,000**	**44**	**170**	**200**	**28,000**	**1,100**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**95**	
MW-27	06/21/96	<0.5	<0.5	<0.5	<0.5	<50	<50	6.8	<0.5	<0.5	<0.5	--	
	08/29/96	--	--	--	--	--	--	--	--	--	--	--	
	01/16/97	12	5.0	<0.5	2.6	70	<150	5.7	<0.5	<0.5	<0.5	--	
MW-28	03/23/93	ND	ND	ND	ND	110	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	ND	2.1	ND	ND	--	--	--	--	--	
	02/25/94	<1	<1	<1	<1	<100	<1	--	--	--	--	--	
	06/03/94	3.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	1.4	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.91	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	

TABLE 4 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,2-DCA	1,1-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-28	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	06/21/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	18	20	2.2	13	220	<150	85	5.1	<0.5	<0.5	8.2	
	04/15/97	<0.5	<0.5	<0.5	<0.5	120	<150	150	1.1	<0.5	<0.5	7.1	
	07/07/97	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**110**	**<150**	**170**	**<5.0**	**<5.0**	**<5.0**	**7.2**	
MW-29	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	2.1	11	ND	ND	--	--	--	--	--	
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.59	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	6.6	8.9	0.6	9.3	120	<150	24	47	<0.5	<0.5	1.8	
	07/07/97	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<150**	**21**	**52**	**<5.0**	**<5.0**	**1.2**	
MW-30	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	ND	2.8	ND	ND	--	--	--	--	--	
	02/25/94	1.3	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	1.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	0.8	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	

TABLE 4 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,2-DCA	1,1-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-30	12/22/94	0.6	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.98	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	<0.5	<0.5	<0.5	0.6	80	<150	<0.5	<0.5	<0.5	0.9	--	
	07/07/97	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<150**	**--**	**--**	**--**	**--**	**<0.5**	
MW-32	03/23/93	391	6.2	3.1	9	440	ND	60	ND	ND	ND	--	
	07/27/93	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	--	
	11/05/93	20	ND	1.8	2.1	170	ND	7.9	ND	ND	ND	--	
	02/25/94	5.6	<1	<1	<1	<100	<1,000	<1	<1	<1	<1	--	
	06/03/94	120	1.3	<0.5	1.4	350	<20,000	11	<0.5	<0.5	<0.5	--	
	08/31/94	39	0.5	2.2	1.2	<500	<500	10	<4.0	<4.0	<4.0	--	
	12/22/94	4.8	<0.5	<0.5	<0.5	<50	<50	4.6	<2.0	<2.0	<2.0	--	a
	03/13/95	220	3.6	6.5	5.8	1,100	<400	16	<0.5	<0.5	<0.5	--	
	06/09/95	1,500	7.9	43	14	2,200	180	<0.5	0.7	0.5	<0.5	--	
	09/21/95	1,200	2.4	72	4.5	2,300	60	6.7	<0.5	<0.5	1.4	--	
	12/12/95	230	<0.5	8.9	<1.0	500	<50	28	<0.5	<0.5	<0.5	--	
	03/12/96	40	<0.5	1.7	<0.5	110	<50	6.8	<0.5	<0.5	<0.5	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	150	<0.5	49	<0.5	700	<150	27	<0.5	<0.5	<0.5	--	
	01/16/97	14	<0.5	1.9	<0.5	150	<150	10	<0.5	<0.5	0.7	--	f
	07/07/97	**370**	**11**	**110**	**21**	**1,600**	**190**	**--**	**--**	**--**	**--**	**11**	g
Rinse Blank	**07/07/97**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<150**	**--**	**--**	**--**	**--**	**<0.5**	
Trip Blank	**07/07/97**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**--**	**--**	**--**	**--**	**--**	**<0.5**	g

TABLE 4 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,2-DCA	1,1-DCA	1,1,1-TCA	TCE	MTBE	Notes

Notes:
a. Non-diesel peak reported.
b. No diesel pattern detected; result due to high gasoline concentration.
c. Bromodichloromethane detected, 0.84 µg/L.
d. 8 other volatiles detected by 8260
e. c 1,2-DCE detected, 0.7 µg/L.
f. c 1,2-DCE detected, 0.8 µg/L.
g. Values for benzene and ethylbenzene are estimated.

ND Not detected.
-- Not analyzed or not sampled.

TPH-d Total Petroleum Hydrocarbons as diesel.
TPH-g Total Petroleum Hydrocarbons as gasoline.
1,1-DCA 1,1-Dichloroethane.
1,2-DCA 1,2-Dichloroethane.
1,1,1-TCA 1,1,1-Trichloroethane.
c 1,2-DCE cis 1,2-Dichloroethylene.
TCE Trichloroethene.
MTBE Methyl t-butyl ether.

Appendix A

Field Documents

MONITORING WELL DATA FORM

Client: Exxon Nestle DEO

Date: 7/7/97

Project Number: 609660 1.0006

Station Number:

Site Location: West Oakland

Samplers: RB

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
MW2		9.40					23.06
MW3		8.82					24.56
MW12		9.48					22.82
MW19		8.67					15.67
MW25		7.53					19.28
MW26		7.38					25.05
MW28		8.26					25.28
MW29		7.33					23.32
MW30		9.28					20.95
MW32		9.00					23.14

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW2 Date 7/7/97

Project No: 609660l.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			=	Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6				
	23.06		9.40		13.66		0.16	0.64	1.44		8.74		26.23

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 5.2 gpm

Time	10:00	10:02	10:03	10:05			
Volume Purges (gal)	0	8.	17	26			
Temperature (°C)	24.2	22.5	21.5	21.3			
pH	7.72	7.76	7.81	7.76			
Specific Conductivity (umhos)	~~944~~	977	995	964			
Turbidity/Color	low brown	low clear	low brown	low lt. brown			
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 10:08 Approx. Depth to Water During Sampling: 18

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
MW2	3	voa	HCl	40 mL	low	brown	yes	TPHg BTEX	
↓	1	amber	–	1L	↓	↓	↓	TPHd	

Total Purge Volume: 26 Disposal/Containment Method: drums on site

Weather Conditions: sunny, hot

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

Project Name: Nestle Well No: MW3 Date 7/7/97

Project No: 60960601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	24.56		8.82		15.74		0.16	0.64	1.44	10.07		30.22

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 5.1 gpm

Time	09:16	09:18	09:20	09:22			
Volume Purges (gal)	0	10	20	30.5			
Temperature (°C)	19.4	20.1	20.1	19.7			
pH	7.56	7.49	7.58	7.62			
Specific Conductivity (umhos)	790	875	962	983			
Turbidity/Color	low black	low clear	low clear	low clear			
Odor	HC	HC	HC	HC			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 09:25 Approx. Depth to Water During Sampling: 22

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	voa	HCl	40 mL	low	clear	yes	TPHg BTEX	
↓	1	amber	–	1L	↓	↓	↓	TPHd	

Total Purge Volume: 30.5 Disposal/Containment Method: drums on site

Weather Conditions: Sunny, hot

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

Project Name: Nestle Well No: MW6 Date 7/7/97

Project No: 60966601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	4	6			
	15.67		8.67		7.00		0.16	0.64	1.44	1.12		3.36

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 1.3 gpm

Time	10:10	10:11	10:12	10:13			
Volume Purges (gal)	0	1	2	4			
Temperature (°C)	20.6	18.8	18.0	17.1			
pH	8.01	8.14	8.20	8.24			
Specific Conductivity (umhos)	746	652	638	620			
Turbidity/Color	medium brown	low brown	low brown	low lt. brown			
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 10:10 Approx. Depth to Water During Sampling: 12

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
MW6	3	voa	HCl	40 mL	low	brown	yes	TPHg BTEX	
↓	1	amber	–	1L	↓	↓	↓	TPHd	

Total Purge Volume: 4 Disposal/Containment Method: drums on site

Weather Conditions: sunny, hot

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: _____

Comments: _____

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801-1024

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW12 Date 7/7/97

Project No: 0960601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	22.82		9.48		13.34		0.16	0.64	1.44	8.54		25.61

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 5.2 gpm

Time	09:39	09:41	09:42	09:44			
Volume Purges (gal)	0	8	17	26			
Temperature (°C)	23.3	22.2	21.2	21.0			
pH	7.68	7.73	7.76	7.77			
Specific Conductivity (umhos)	1051	1103	1055	1036			
Turbidity/Color	low clear	low clear	low clear	high brown			
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 09:48 Approx. Depth to Water During Sampling: 20

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
MW12	3	voa	HCl	40 mL			yes	TPHg BTEX	
↓	1	amber	–	1 L			↓	TPHd	

Total Purge Volume: 26 Disposal/Containment Method: drums on site

Weather Conditions: sunny, hot

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

Project Name: Nestle Well No: MW25 Date 7/7/97

Project No: 609G601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	19.28		7.53		11.75		0.16	0.64	1.44	7.52		22.56

PURGING DATA

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

Time	08:06	08:07	08:09	08:10			
Volume Purges (gal)	0	7.5	15	23			
Temperature (°C)	20.8	19.6	19.0	18.6			
pH	7.80	7.84	7.89	7.88			
Specific Conductivity (umhos)	1324	1338	1340	1358			
Turbidity / Color	low clear	low clear	low clear	low clear			
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 08:14 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
MW25	3	voa	HCl	40 mL	low	clear	yes	TPH-g BTEX	
↓	1	amber	–	1 L	↓	↓	↓	TPH-d	

Total Purge Volume: 23 Disposal/Containment Method: drums on site

Weather Conditions: sunny warm

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

Project Name: Nestle Well No: MW26 Date 7/7/97

Project No: 60960601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	25.05		7.38		17.67		0.16	0.64	1.44	11.31		33.93

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 5.7 gpm

Time	08:21	08:23	08:25	08:27			
Volume Purges (gal)	0	11	22	34			
Temperature (°C)	20.1	19.1	18.7	18.4			
pH	8.09	7.94	7.76	7.70			
Specific Conductivity (umhos)	1017	969	955	945			
Turbidity/Color	low / brown	low / clear	low / clear	low / clear	/	/	/
Odor	N	HC	HC	HC			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 08:30 Approx. Depth to Water During Sampling: 22

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	voa	HCl	40 mL	low	clear	yes	TPHg BTEX	
↓	1	amber	–	1 L	↓	↓	↓	TPHd	

Total Purge Volume: 34 Disposal/Containment Method: drums on site

Weather Conditions: sunny, hot

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

Project Name: Nestle Well No: MW28 Date 7/7/97

Project No: 609G601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	25.28		8.26		17.02		0.16	0.64	1.44	10.89		32.68

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 55 gpm

Time	11:50	11:52	11:54	11:56			
Volume Purges (gal)	0	11	22	33			
Temperature (°C)	23.0	21.3	20.8	20.4			
pH	8.06	8.24	8.17	8.18			
Specific Conductivity (umhos)	814	830	854	858			
Turbidity / Color	low / clear	low / lt. brown	low / clear	low / clear	/	/	/
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 12:00 Approx. Depth to Water During Sampling: 18

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	voa	HCl	40 mL	low	clear	yes	TPHg BTEX	
↓	1	amber	–	1L	1	↓	↓	TPHd	

Total Purge Volume: 33 Disposal/Containment Method: drums on site

Weather Conditions: sunny, hot

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

Project Name: Nestle Well No: MW29 Date 7/7/97

Project No: 0960601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	23.32		7.33		15.99		0.16	0.64	1.44	10.23		30.70

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 5.17

Time	11:18	11:20	11:22	11:24			
Volume Purges (gal)	0	10	20	31			
Temperature (°C)	24.6	23.0	21.5	20.6			
pH	8.24	8.24	8.21	8.12			
Specific Conductivity (umhos)	565	541	512	575			
Turbidity / Color	medium brown	low clear	low clear	low clear			
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 11:28 Approx. Depth to Water During Sampling: _____

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
MW29	3	voa	HCl	40 mL			yes	TPH-g BTEX	
↓	1	amber	–	1L			↓	TPH-d	

Total Purge Volume: 31 Disposal/Containment Method: drums on site

Weather Conditions: sunny, hot

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

Project Name: Nestle Well No: MW30 Date 7/7/97

Project No: 609(6601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	20.95		9.28		11.67		0.16	0.64	1.44	7.47		22.40

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 4.5 gpm

Time	09:00	09:01	09:03	09:05			
Volume Purges (gal)	0	7	15	22.5			
Temperature (°C)	18.2	17.2	16.8	16.8			
pH	8.21	8.14	8.10	8.02			
Specific Conductivity (umhos)	667	543	517	532			
Turbidity / Color	low brown	low H. brown	low clear	low clear			
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 09:05 Approx. Depth to Water During Sampling: 17

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
MW30	3	voa	HCl	40 mL	low	clear	yes	TPH-g BTEX	
↓	1	amber	–	1 L	↓	↓	↓	TPH-d	

Total Purge Volume: 22.5 Disposal/Containment Method: drums on site

Weather Conditions: sunny, hot

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

Project Name: Nestle Well No: MW32 Date 7/7/97

Project No: 609G601.0006 Personnel: RB

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)	X	Multiplier for Casing Diameter			Casing Volume (gal)	=	Total Req'd Purge Volume (gal)
							2	(4)	6			
	23.14		9.00		14.14		0.16	0.64	1.44	9.05		27.15

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: screen Purge Rate: 5.4 gpm

Time	09:28	09:30	09:31	09:33			
Volume Purges (gal)	0	9	18	27			
Temperature (°C)	23.2	22.4	21.5	21.8			
pH	7.70	7.63	7.52	7.54			
Specific Conductivity (umhos)	834	822	805	821			
Turbidity / Color	low / clear	low / clear	low / clear	low / clear	/	/	/
Odor	N	light HC	lt. HC	lt. HC			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 09:36 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
MW32	3	voa	HCl	40 mL	low	clear	yes	TPHg BTEX	
↓	1	amber	–	1 L	↓	↓	↓	TPHd	

Total Purge Volume: 27 Disposal/Containment Method: drums on site

Weather Conditions: sunny

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

Nestlé USA

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

TEL (614) 793-5319
FAX (614) 793-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252
Sample ID:	Travel Blank	**NQAL #:**	97JUL252-000
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Gasoline Range Org.	CA Luft	mg/L	ND	0.05	7/11/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	7/11/97
Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
Toluene	EPA 8020	ug/L	ND	0.5	7/11/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	7/11/97
o-Xylene	EPA 8020	ug/L	ND	0.5	7/11/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé USA

PO BOX 1516
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516

TEL (614) 793-5319
FAX (614) 793-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252
Sample ID:	MW25	**NQAL #:**	97JUL252-001
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	0.14	0.05	7/11/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	11	0.5	7/11/97
Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
Toluene	EPA 8020	ug/L	ND	0.5	7/11/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	7/11/97
o-Xylene	EPA 8020	ug/L	ND	0.5	7/11/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé USA

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6625 EITERMAN ROAD
DUBLIN, OH 43017-6516

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Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-26	**NQAL #:**	97JUL252-002
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	1.1	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	28	0.05	7/16/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	95	0.5	7/16/97
Benzene	EPA 8020	ug/L	22000	0.5	7/16/97
Toluene	EPA 8020	ug/L	44	0.5	7/16/97
Ethyl Benzene	EPA 8020	ug/L	170	0.5	7/16/97
m&p Xylenes	EPA 8020	ug/L	190	0.5	7/16/97
o-Xylene	EPA 8020	ug/L	8.0	0.5	7/16/97
Dichlorodifluoromethane	EPA 8260	µg/L	ND	5.0	7/19/97
Chlormethane	EPA 8260	µg/L	ND	5.0	7/19/97
Vinyl Chloride	EPA 8260	µg/L	ND	5.0	7/19/97
Bromomethane	EPA 8260	µg/L	ND	5.0	7/19/97
Chloroethane	EPA 8260	µg/L	ND	5.0	7/19/97
Trichlorofluoromethane	EPA 8260	µg/L	ND	5.0	7/19/97
1,1-Dichloroethylene	EPA 8260	µg/L	ND	5.0	7/19/97
Methylene Chloride	EPA 8260	µg/L	ND	5.0	7/19/97
trans-1,2-Dichloroethylene	EPA 8260	µg/L	ND	5.0	7/19/97
1,1-Dichloroethane	EPA 8260	µg/L	ND	5.0	7/19/97
c 1,2-Dichloroethene	EPA 8260	µg/L	ND	5.0	7/19/97
Chloroform	EPA 8260	µg/L	ND	5.0	7/19/97
1,1,1-Trichloroethane	EPA 8260	µg/L	ND	5.0	7/19/97
Carbon Tetrachloride	EPA 8260	µg/L	ND	5.0	7/19/97
1,2-Dichloroethane	EPA 8260	µg/L	ND	5.0	7/19/97
Trichloroethylene	EPA 8260	µg/L	ND	5.0	7/19/97

Nestlé USA

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-26	**NQAL #:**	97JUL252-002
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
1,2-Dichloropropane	EPA 8260	µg/L	ND	5.0	7/19/97
Bromodichloromethane	EPA 8260	µg/L	ND	5.0	7/19/97
cis-1,3-Dichloropropylene	EPA 8260	µg/L	ND	5.0	7/19/97
trans-1,3-Dichloropropylene	EPA 8260	µg/L	ND	5.0	7/19/97
1,1,2-Trichloroethane	EPA 8260	µg/L	ND	5.0	7/19/97
Tetrachloroethene	EPA 8260	µg/L	ND	5.0	7/19/97
Dibromochloromethane	EPA 8260	µg/L	ND	5.0	7/19/97
Chlorobenzene	EPA 8260	µg/L	ND	5.0	7/19/97
Bromoform	EPA 8260	µg/L	ND	5.0	7/19/97
1,1,2,2-Tetrachloroethane	EPA 8260	µg/L	ND	5.0	7/19/97
1,3-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/19/97
1,4-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/19/97
1,2-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/19/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-28	**NQAL #:**	97JUL252-003
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	0.11	0.05	7/16/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	7.2	0.5	7/16/97
Benzene	EPA 8020	ug/L	ND	0.5	7/16/97
Toluene	EPA 8020	ug/L	ND	0.5	7/16/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	7/16/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	7/16/97
o-Xylene	EPA 8020	ug/L	ND	0.5	7/16/97
Dichlorodifluoromethane	EPA 8260	µg/L	ND	5.0	7/18/97
Chlormethane	EPA 8260	µg/L	ND	5.0	7/18/97
Vinyl Chloride	EPA 8260	µg/L	ND	5.0	7/18/97
Bromomethane	EPA 8260	µg/L	ND	5.0	7/18/97
Chloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
Trichlorofluoromethane	EPA 8260	µg/L	ND	5.0	7/18/97
1,1-Dichloroethylene	EPA 8260	µg/L	ND	5.0	7/18/97
Methylene Chloride	EPA 8260	µg/L	ND	5.0	7/18/97
trans-1,2-Dichloroethylene	EPA 8260	µg/L	ND	5.0	7/18/97
1,1-Dichloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
c 1,2-Dichloroethene	EPA 8260	µg/L	ND	5.0	7/18/97
Chloroform	EPA 8260	µg/L	ND	5.0	7/18/97
1,1,1-Trichloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
Carbon Tetrachloride	EPA 8260	µg/L	ND	5.0	7/18/97
1,2-Dichloroethane	EPA 8260	µg/L	170	5.0	7/18/97
Trichloroethylene	EPA 8260	µg/L	ND	5.0	7/18/97

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-28	**NQAL #:**	97JUL252-003
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
1,2-Dichloropropane	EPA 8260	µg/L	ND	5.0	7/18/97
Bromodichloromethane	EPA 8260	µg/L	ND	5.0	7/18/97
cis-1,3-Dichloropropylene	EPA 8260	µg/L	ND	5.0	7/18/97
trans-1,3-Dichloropropylene	EPA 8260	µg/L	ND	5.0	7/18/97
1,1,2-Trichloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
Tetrachloroethene	EPA 8260	µg/L	ND	5.0	7/18/97
Dibromochloromethane	EPA 8260	µg/L	ND	5.0	7/18/97
Chlorobenzene	EPA 8260	µg/L	ND	5.0	7/18/97
Bromoform	EPA 8260	µg/L	ND	5.0	7/18/97
1,1,2,2-Tetrachloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
1,3-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/18/97
1,4-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/18/97
1,2-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/18/97

ND = Not Detected, RL = Reporting Limit

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Sample conditions upon receipt were good

John R. Heuser
Chemist

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-29	**NQAL #:**	97JUL252-004
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	ND	0.05	7/11/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	1.2	0.5	7/11/97
Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
Toluene	EPA 8020	ug/L	ND	0.5	7/11/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	7/11/97
o-Xylene	EPA 8020	ug/L	ND	0.5	7/11/97
Dichlorodifluoromethane	EPA 8260	µg/L	ND	5.0	7/18/97
Chlormethane	EPA 8260	µg/L	ND	5.0	7/18/97
Vinyl Chloride	EPA 8260	µg/L	ND	5.0	7/18/97
Bromomethane	EPA 8260	µg/L	ND	5.0	7/18/97
Chloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
Trichlorofluoromethane	EPA 8260	µg/L	ND	5.0	7/18/97
1,1-Dichloroethylene	EPA 8260	µg/L	ND	5.0	7/18/97
Methylene Chloride	EPA 8260	µg/L	ND	5.0	7/18/97
trans-1,2-Dichloroethylene	EPA 8260	µg/L	ND	5.0	7/18/97
1,1-Dichloroethane	EPA 8260	µg/L	52	5.0	7/18/97
cis 1,2-Dichloroethene	EPA 8260	µg/L	ND	5.0	7/18/97
Chloroform	EPA 8260	µg/L	ND	5.0	7/18/97
1,1,1-Trichloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
Carbon Tetrachloride	EPA 8260	µg/L	ND	5.0	7/18/97
1,2-Dichloroethane	EPA 8260	µg/L	21	5.0	7/18/97
Trichloroethylene	EPA 8260	µg/L	ND	5.0	7/18/97

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-29	**NQAL #:**	97JUL252-004
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
1,2-Dichloropropane	EPA 8260	µg/L	ND	5.0	7/18/97
Bromodichloromethane	EPA 8260	µg/L	ND	5.0	7/18/97
cis-1,3-Dichloropropylene	EPA 8260	µg/L	ND	5.0	7/18/97
trans-1,3-Dichloropropylene	EPA 8260	µg/L	ND	5.0	7/18/97
1,1,2-Trichloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
Tetrachloroethene	EPA 8260	µg/L	ND	5.0	7/18/97
Dibromochloromethane	EPA 8260	µg/L	ND	5.0	7/18/97
Chlorobenzene	EPA 8260	µg/L	ND	5.0	7/18/97
Bromoform	EPA 8260	µg/L	ND	5.0	7/18/97
1,1,2,2-Tetrachloroethane	EPA 8260	µg/L	ND	5.0	7/18/97
1,3-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/18/97
1,4-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/18/97
1,2-Dichlorobenzene	EPA 8260	µg/L	ND	5.0	7/18/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé USA

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-30	**NQAL #:**	97JUL252-005
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	ND	0.05	7/11/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	7/11/97
Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
Toluene	EPA 8020	ug/L	ND	0.5	7/11/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	7/11/97
o-Xylene	EPA 8020	ug/L	ND	0.5	7/11/97

ND = Not Detected, RL = Reporting Limit

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Sample conditions upon receipt were good

John R. Heuser
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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
c:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-32	**NQAL #:**	97JUL252-006
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	0.19	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	1.6	0.05	7/11/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	11	0.5	7/11/97
Benzene	EPA 8020	ug/L	>50	0.5	7/11/97
Toluene	EPA 8020	ug/L	11	0.5	7/11/97
Ethyl Benzene	EPA 8020	ug/L	>50	0.5	7/11/97
m&p Xylenes	EPA 8020	ug/L	18	0.5	7/11/97
o-Xylene	EPA 8020	ug/L	3.0	0.5	7/11/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
c:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-2	**NQAL #:**	97JUL252-007
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	ND	0.05	7/11/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	7/11/97
Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
Toluene	EPA 8020	ug/L	ND	0.5	7/11/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	7/11/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	7/11/97
o-Xylene	EPA 8020	ug/L	ND	0.5	7/11/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

Nestlé USA

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Nestlé

QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252

Sample ID:	MW-3	**NQAL #:**	97JUL252-008
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	0.35	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	1.9	0.05	7/17/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	3.8	0.5	7/17/97
Benzene	EPA 8020	ug/L	100	0.5	7/17/97
Toluene	EPA 8020	ug/L	84	0.5	7/17/97
Ethyl Benzene	EPA 8020	ug/L	100	0.5	7/17/97
m&p Xylenes	EPA 8020	ug/L	41	0.5	7/17/97
o-Xylene	EPA 8020	ug/L	26	0.5	7/17/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252
Sample ID:	MW-6	**NQAL #:**	97JUL252-009
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	ND	0.05	7/12/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	7/12/97
Benzene	EPA 8020	ug/L	ND	0.5	7/12/97
Toluene	EPA 8020	ug/L	ND	0.5	7/12/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	7/12/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	7/12/97
o-Xylene	EPA 8020	ug/L	ND	0.5	7/12/97

ND = Not Detected, RL = Reporting Limit

Unless you request otherwise, this sample will be discarded 90 days from the date of this report.

Sample conditions upon receipt were good

John R. Heuser
Chemist

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QUALITY ASSURANCE LABORATORY

Client:	Binayak Acharya	**Date of Report:**	7/24/97
Company:	Nestle USA Inc.	**Date Sample Collected:**	7/7/97
	800 N. Brand Blvd.	**Date Sample Received:**	7/9/97
	Glendale, CA		
cc:	Doug Oram - EA Engineering	**Report Number:**	97JUL252
Sample ID:	Rinse Blank	**NQAL #:**	97JUL252-010
Sample Location:	Oakland, CA		
Sample Submitted by:	EA Engineering		

Laboratory Report

Analyte	Method	Units	Result	RL	Date Analyzed
Diesel Range Organics	CA Luft	mg/L	ND	0.15	7/14/97
Gasoline Range Org.	CA Luft	mg/L	ND	0.05	7/12/97
Methyl-t-Butyl Ether	EPA 8020	ug/L	ND	0.5	7/12/97
Benzene	EPA 8020	ug/L	ND	0.5	7/12/97
Toluene	EPA 8020	ug/L	ND	0.5	7/12/97
Ethyl Benzene	EPA 8020	ug/L	ND	0.5	7/12/97
m&p Xylenes	EPA 8020	ug/L	ND	0.5	7/12/97
o-Xylene	EPA 8020	ug/L	ND	0.5	7/12/97

ND = Not Detected, RL = Reporting Limit

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Sample conditions upon receipt were good

John R. Heuser
Chemist

Chain of Custody Record

EA Laboratories
19 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771-4920
Fax: (410) 771-4407

Client/Project Name: EA Engineering
Project Manager: Doug Cram
Phone: (510) 283-7077
Project No.: 60900.01
Project Name: Nestle - West Oakland
Dept.: 2101 Task: 0006
Sample Storage Location:
ATO Number:
Page 1 of 1
Report #.

Parameters/Method Numbers for Analysis

Report Deliverables: 1 2 3 4 D E
EDD: Yes/No
DUE TO CLIENT:

EA Labs Accession Number: 97 July 252-000

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	TPH-g	BTEX	TPH-d		EA Labs Accession Number	Remarks
		X		TB#1	2	X	X			252-000	LPM:
7/7	08:14	X		MW25	5	X	X	X		1	Project Summary No.:
	08:30	X		MW26	5	X	X	X	X	2	
	12:00	X		MW28	4	X	X	X	X	3	NO VOA VIALS
	11:28	X		MW29	4	X	X	X	X	4	6 VOA VIALS
	09:08	X		MW30	5	X	X	X		5	
	09:36	X		MW32	4	X	X	X		6	
	10:08	X		MW21	4	X	X	X		7	
	09:25	X		MW31	4	X	X	X		8	1 extra VOA VIAL
	10:16	X		MW6	4	X	X	X		9	
↓	09:30	W		RINSE BLANK	4	X	X	X		10	

* three extra VOA vials labeled MW-12

* was informed by EA Eng. to disregard vials labeled MW-12 and use the three extra vials labeled MW-29 that correspond to the time of MW-28 as the MW-28 samples. Fm

Sampled by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Ralph Brill	7/7/97 13:00	Ralph Brill	7/8/97 1400		

Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time	Airbill Number:	Sample Shipped by: (Circle)
		Frank R Machesky	7/9/97 0945	2740510297 6.7°C 2740510376 4.1°C	(Fed Ex.) Puro. UPS Hand Carried Other:

Cooler Temp._____C pH: ☐ Yes ☐ No Comments: Custody Seals Intact ☐ Yes ☐ No

NOTE: Please indicate method number for analyses requested. This will help clarify any questions with laboratory techniques.

WHITE—EA Laboratories YELLOW—EA Laboratories PINK—Project Manager *Shaded Areas for Lab Use Only*