EA Engineering, Science, and Technology

3468 Mt. Diablo Boulevard
Suite B-100
Lafayette, CA 94549
Telephone: 925-283-7077
Fax: 925-283-3894

LS

11 December 1998

Tom Peacock
Alameda County Health Agency
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

RE: Quarterly Monitoring Report for the Nestle Oakland Facility at
1310 14th Street, Oakland, California

Dear Mr. Peacock:

Attached is the Third and Fourth Quarters 1998 Monitoring Report for the above-referenced site. Per my conversation with Larry Seto in September 1998, Nestle will be submitting quarterly monitoring results twice per year in the months of June and December.

If you have any questions I can be reached at (925) 283-7077.

Sincerely,

Douglas Oram/dh

Douglas Oram
Project Manager

DEO/dh 60966.01.Q7-1098

Enclosure
cc: Binayak Acharya, Nestle USA, Inc.

Third and Fourth Quarters 1998
Monitoring Report
Nestle Facility
1310 14th Street
Oakland, California

Prepared for

Nestle USA, Inc.

Prepared by

EA Engineering, Science, and Technology

December 1998

60966.01.0008

60966.01.0008

Third and Fourth Quarters 1998
Monitoring Report
Nestle Facility
1310 14th Street
Oakland, California

Prepared for

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

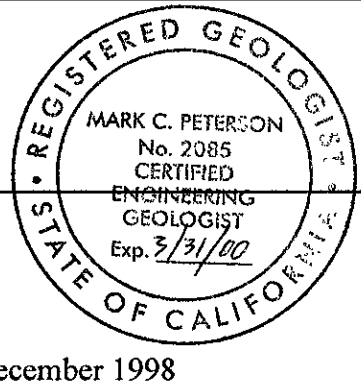
Prepared by

EA Engineering, Science, and Technology
3468 Mt. Diablo Boulevard, Suite B-100
Lafayette, California 94549
(925) 283-7077

12/7/98

Douglas E. Oram, Ph.D.
Project Manager

Date



12/9/98

Mark C. Peterson, C.E.G. #2085
Senior Geologist

Date

December 1998

CONTENTS

SITE CONTACTS

Site Address:	1310 14th Street Oakland, California
Nestle USA, Inc. Contact:	Binayak Acharya Nestle USA, Inc. 800 North Brand Boulevard Glendale, California 91203 (818) 549-5948
Consultant to Nestle USA, Inc.:	EA Engineering, Science, and Technology 3468 Mt. Diablo Boulevard, Suite B-100 Lafayette, California 94549 (925) 283-7077
EA Project Manager:	Douglas E. Oram
Regulatory Oversight:	Tom Peacock Alameda County Health Agency Division of Environmental Protection 1131 Harbor Bay Parkway, 2nd Floor Alameda, California 94502 (510) 567-6700

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 been providing environmental services for the site since December 1995.

This report presents the results for quarterly sampling for the third and fourth quarters of 1998, conducted on 22 July and 21 October 1998, and the results for well gauging and remediation system monitoring. The number of wells sampled each quarter alternates between three and nine. During the first and third quarters, wells MW2, MW3, MW6, MW25, MW26, MW28, MW29, MW30, and MW32 are gauged and sampled. During the second and fourth quarters, all nine wells are gauged but only wells MW3, MW26, and MW28 are sampled. During the third quarter of 1998, well MW27 was also gauged and sampled.

During the fourth quarter of 1997 and first quarter of 1998, a multiphase extraction (MPE) remediation system was installed. The focus of the remedial effort is the recovery of non-aqueous phase liquid (NAPL). Remediation system monitoring results are summarized in Section 4.

2. FIELD PROCEDURES

2.1 NAPL GAUGING

A total of 58 wells were gauged during the third and fourth quarters to determine the presence and thickness of NAPL, using an interface probe. The set of wells used to monitor the location of NAPL in the subsurface will vary as remediation progresses, but in general 40 or more wells are gauged each quarter.

2.2 PURGING AND SAMPLING OF GROUNDWATER

After depths to groundwater were measured in wells on 22 July and 21 October 1998, each well to be sampled was purged, using a dedicated PVC pipe attached to a vacuum truck. Approximately 3 well casing volumes of water were removed from each well. The temperature, pH, and electrical conductance of the purged water were recorded at approximately each well casing volume as each 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 and groundwater samples were collected. The samples were collected from each well with factory-cleaned disposable polyethylene bailers and poured into 40-mL glass VOA vials and placed in an ice-filled cooler. A field-prepared sampling equipment rinse blank and a laboratory-prepared trip blank were 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, where they were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) by the California DOHS method described in the October 1989 LUFT Field Manual, and for benzene, toluene,

ethylbenzene, and xylenes (BTEX) and methyl t-butyl ether (MTBE) by EPA Method 8020. In addition, selected samples were analyzed for Total Petroleum Hydrocarbons as diesel (TPH-d) by the California DOHS method and for halogenated volatile organic compounds (HVOCs) by EPA Method 8010.

3. SUMMARY OF RESULTS

3.1 NAPL GAUGING AND MONITORING

NAPL monitoring data for a representative number of wells monitored since November 1993 are summarized in Table 1. Of the 58 wells monitored from 18 May to 2 November 1998, 31 contained no detectable NAPL, 21 contained between 0.01 and 1.0 feet of NAPL, and 6 contained >1.0 feet of NAPL. The spacial distribution of these wells containing the different thicknesses of NAPL is shown in Figure 2.

Gauging results indicate that the MPE system is decreasing the amount of NAPL in the subsurface. The results for some of the wells that have historically contained large thicknesses of NAPL are summarized below.

Well	Maximum NAPL Thickness (feet)			
	February 1998	April 1998	August 1998	November 1998
PR21	4.28	0.03	<0.01	Dry
PR22	4.54	<0.01	0.20	<0.01
PR26	3.39	<0.01	0.04	<0.01
PR34	3.18	<0.01	0.17	<0.01
PR48	1.30	0.01	0.71	0.04
PR58	4.25	4.25	--	0.03
PR64	2.93	4.52	--	<0.01
MW23	0.51	0.37	1.00	<0.01

-- not monitored.

3.2 DEPTH TO GROUNDWATER IN MONITORING WELLS

The depth to groundwater in monitoring wells on 22 July 1998 ranged from 6.45 feet (MW29) to 8.44 feet (MW30), and groundwater elevations ranged from 6.10 (MW30) to 6.70 (MW32) feet above mean sea level (Table 2). Groundwater elevations had decreased between 1.45 feet (MW25) and 2.06 feet (MW2) since the 22 April 1998 monitoring event. A groundwater elevation contour map for 22 July 1998 is shown in Figure 3. The direction of groundwater flow

in July was toward the north-northwest, at a gradient of approximately 0.002 feet per foot. Field documentation is provided in Appendix A.

The depth to groundwater in monitoring wells on 21 October 1998 ranged from 7.64 feet (MW26) to 9.74 feet (MW2), and groundwater elevations ranged from 4.94 (MW30) to 5.41 (MW32) feet above mean sea level (Table 2). Groundwater elevations had decreased between 1.16 feet (MW28, MW30) and 1.39 feet (MW25) since the 22 July 1998 monitoring event. A groundwater elevation contour map for 21 October 1998 is shown in Figure 4. The direction of groundwater flow in October was 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

The analytical results for the groundwater samples collected on 22 July and 21 October 1998 are presented in Table 3, along with previous results. The distribution of BTEX, TPH-g, TPH-d, and HVOCs in the groundwater samples is shown in Figures 5 and 6. Laboratory analytical reports and chain-of-custody documentation are included in Appendix B.

4. REMEDIATION SYSTEM MONITORING

The monitoring results through 13 November 1998 for the MPE water and vapor treatment systems are summarized in Tables 4 and 5, respectively. An estimated 175 pounds of hydrocarbons has been removed from extracted water, and an estimated 569 pounds of NAPL has been removed by the oil/water separator (Table 4). The estimated amount of NAPL fluctuates due to accumulation of water in the product storage tank. An estimated 5,946 pounds of hydrocarbons has been removed from extracted soil vapor (Table 5). Figure 7 graphically depicts the number of pounds of hydrocarbons removed from groundwater, vapor effluent, and as free product. An estimated combined total of 6,690 pounds of hydrocarbons has been removed and treated since system installation.

The MPE system was shut off on 1 June 1998, due to the addition of a thermal oxidizer. Installation of the oxidizer was completed, and the MPE system was restarted on 16 September 1998. During this period of downtime, the two 1,000-pound vapor phase carbon vessels were converted to liquid phase carbon vessels. The groundwater portion of the system was reconfigured to operate through two sets of two 200-pound liquid phase carbon vessels in parallel followed by the two 1,000-pound liquid phase carbon vessels in series. After restarting, the MPE system was adjusted to operate with different wells, most of which had measurable NAPL. Wells at the site will continue to be gauged for NAPL, and the MPE system will be adjusted to maximize NAPL removal from the subsurface.

5. WORK PROPOSED FOR THE NEXT QUARTER

During the first and second quarters of 1999, groundwater in selected wells will be sampled and analyzed for BTEX and TPH-g. Selected samples will also be analyzed for TPH-d and HVOCs. As discussed with Tom Peacock of the Alameda County Health Agency on 8 December 1998,

the wells to be monitored will be changed each quarter so that it can be determined which wells can be destroyed.

The MPE system will be monitored and adjusted to concentrate on extraction from wells containing NAPL. In January 1999, the system will be turned off for 1 week, after which time approximately 58 wells will be gauged for the presence of NAPL. The MPE system may be turned off periodically to allow the subsurface conditions to equilibrate so that NAPL recharge can be evaluated.

Figures

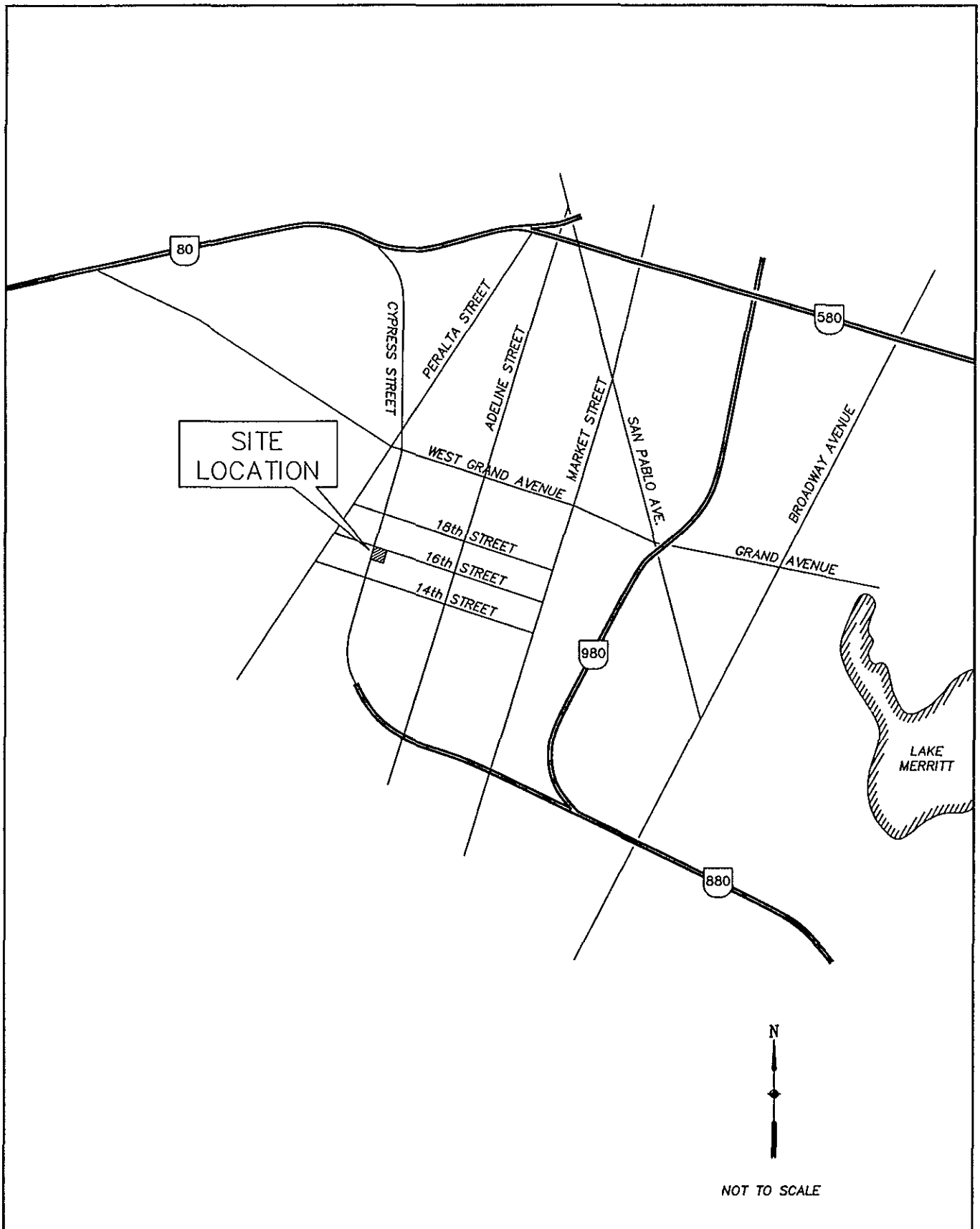
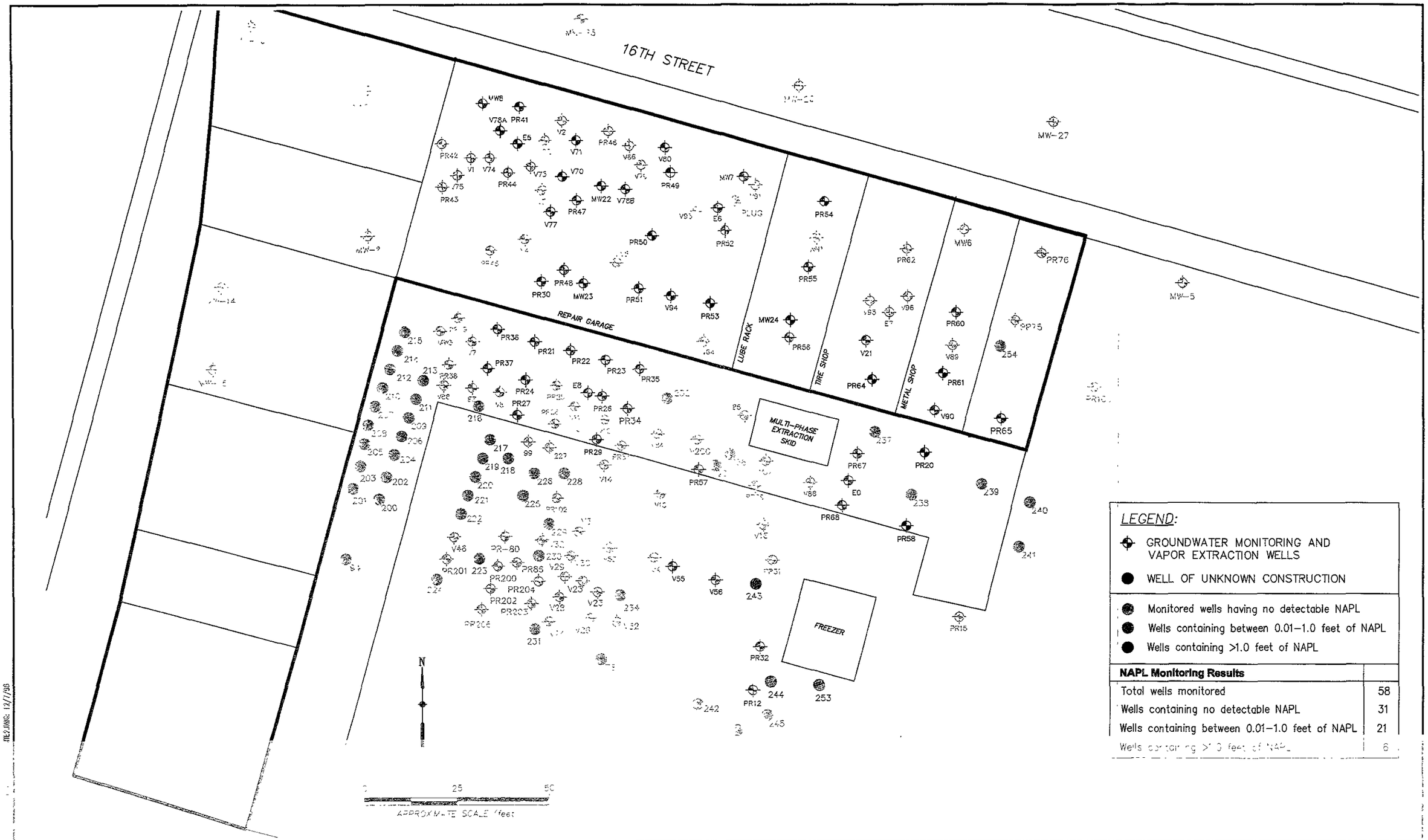


FIGURE 1.
SITE LOCATION MAP
NESTLE FACILITY, 1310 14th STREET,
OAKLAND, CALIFORNIA.

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

PROJECT NO:	DATE
60966.01.0008	5/14/97
FILE NAME:	REVIEWED BY:
LOCATION.DWG	Joe Muehleck



LEGEND:

- GROUNDWATER MONITORING AND VAPOR EXTRACTION WELLS
- WELL OF UNKNOWN CONSTRUCTION

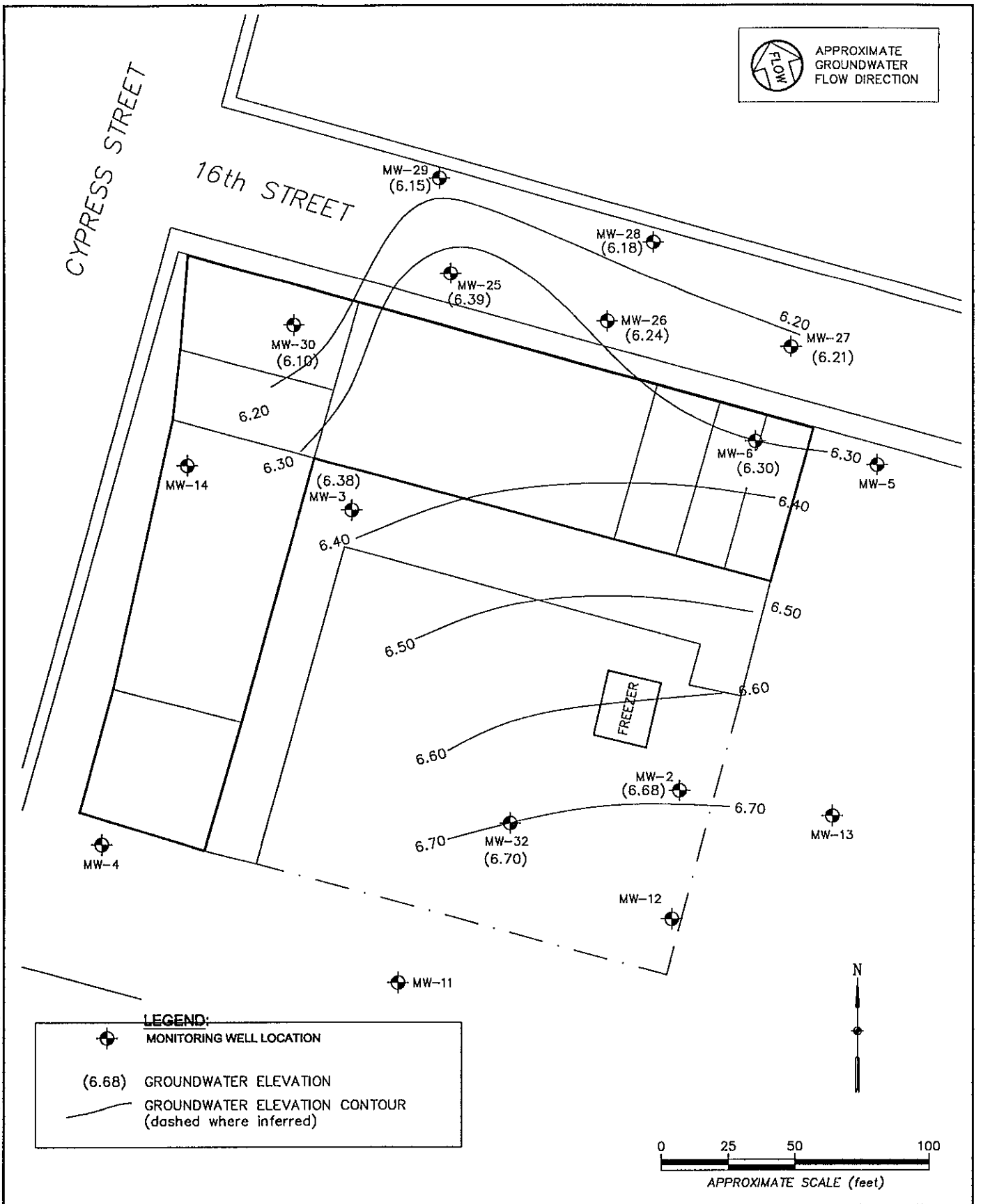
- Monitored wells having no detectable NAPL
- Wells containing between 0.01–1.0 feet of NAPL
- Wells containing >1.0 feet of NAPL

NAPL Monitoring Results	
Total wells monitored	58
Wells containing no detectable NAPL	31
Wells containing between 0.01–1.0 feet of NAPL	21
Wells containing >1.0 feet of NAPL	6

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

Figure 2. Site plan showing distribution of NAPL, Nestle USA Facility, 1310 14th Street, Oakland, California, May-November 1998.

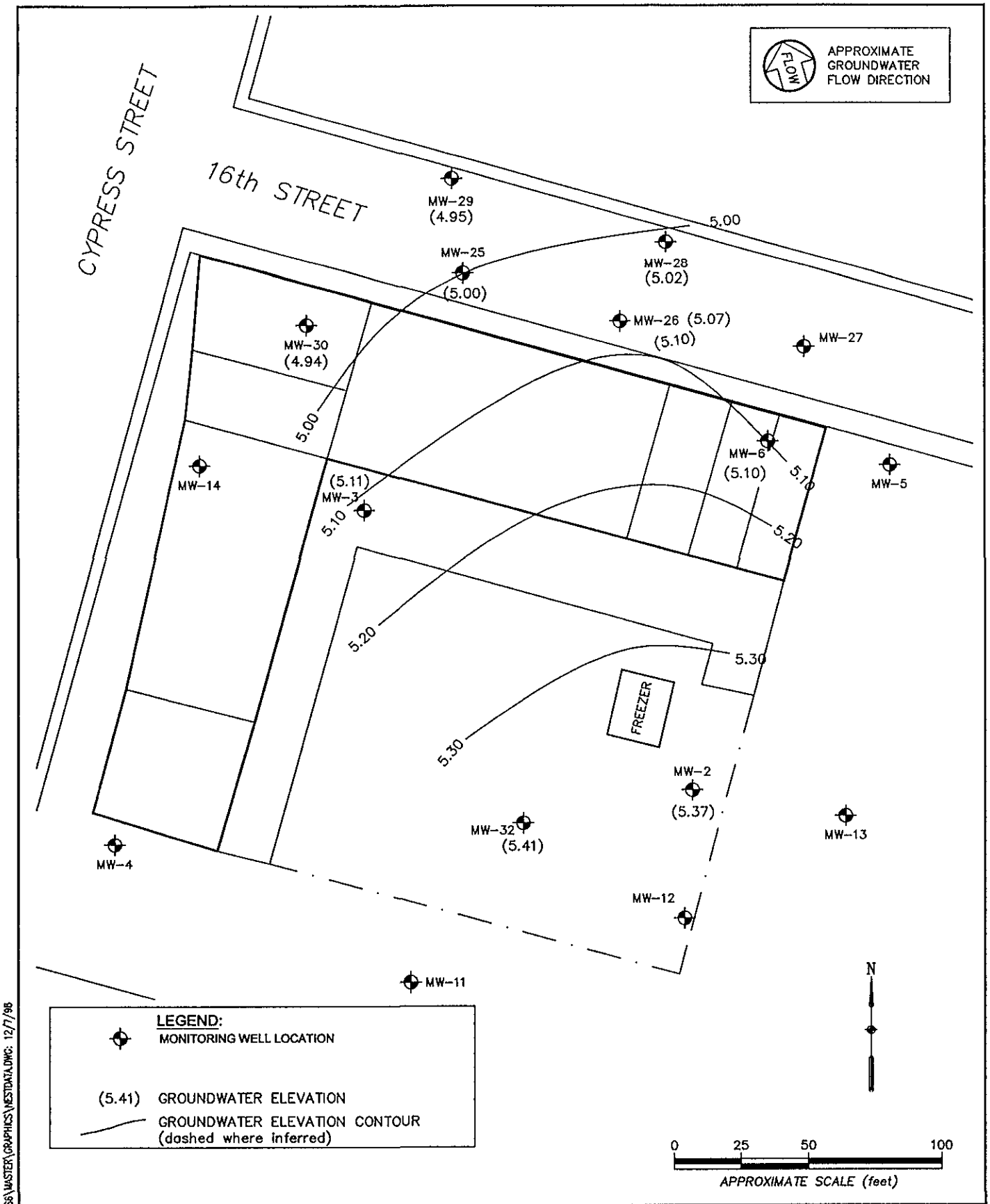
FILE NAME: 13/1/98



EA ENGINEERING, SCIENCE, AND TECHNOLOGY

Figure 3. Groundwater elevations in wells sampled for dissolved hydrocarbons, Nestle Facility, Oakland, California. 22 July 1998

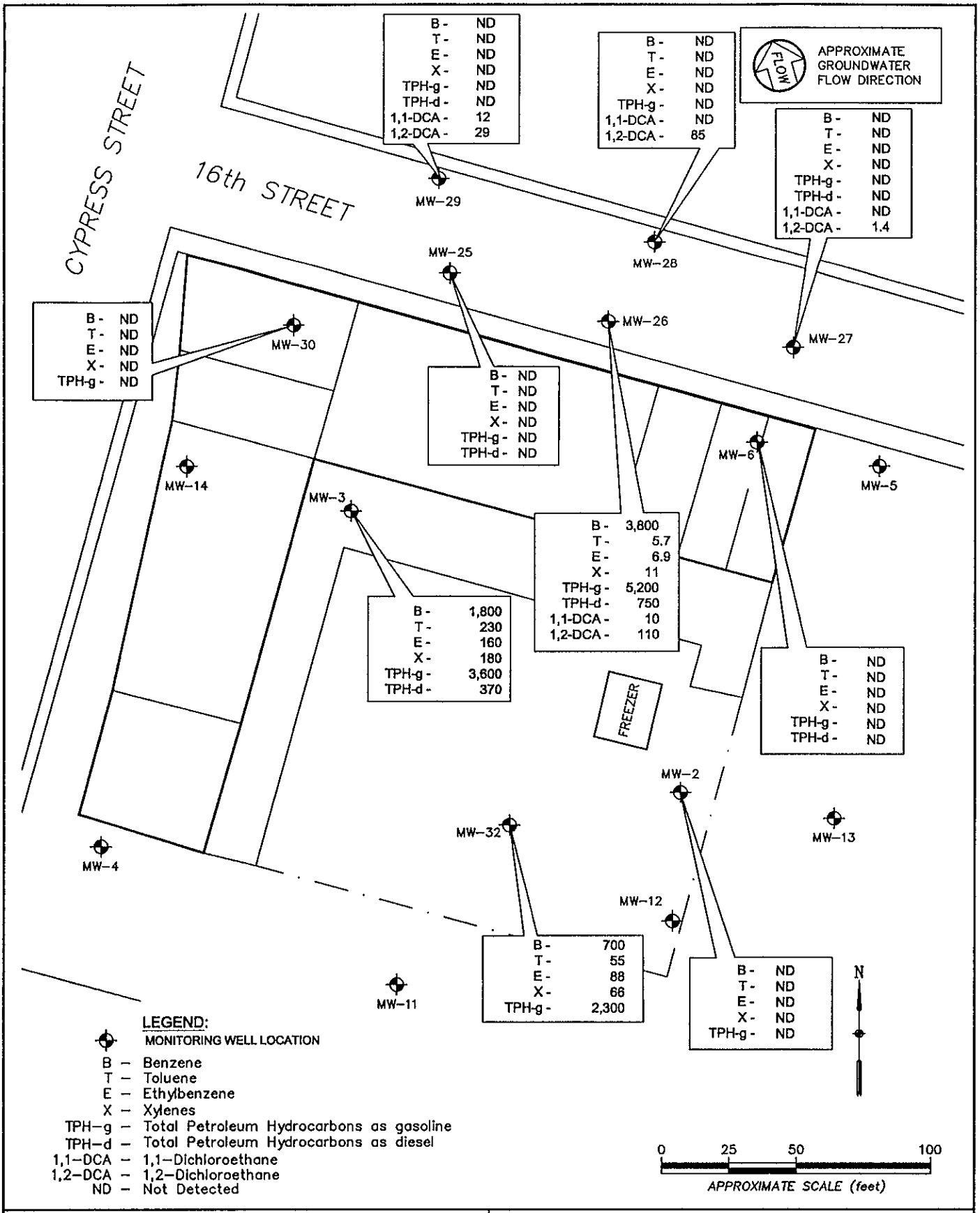
FILE: F:\PROJECTS\60966\MASTER\GRAPHICS\WESTDATA.DWG; 12/7/98



FILE: F:\PROJECTS\60966\MASTER\GRAPHICS\NESTDATA.DWG: 12/7/98

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

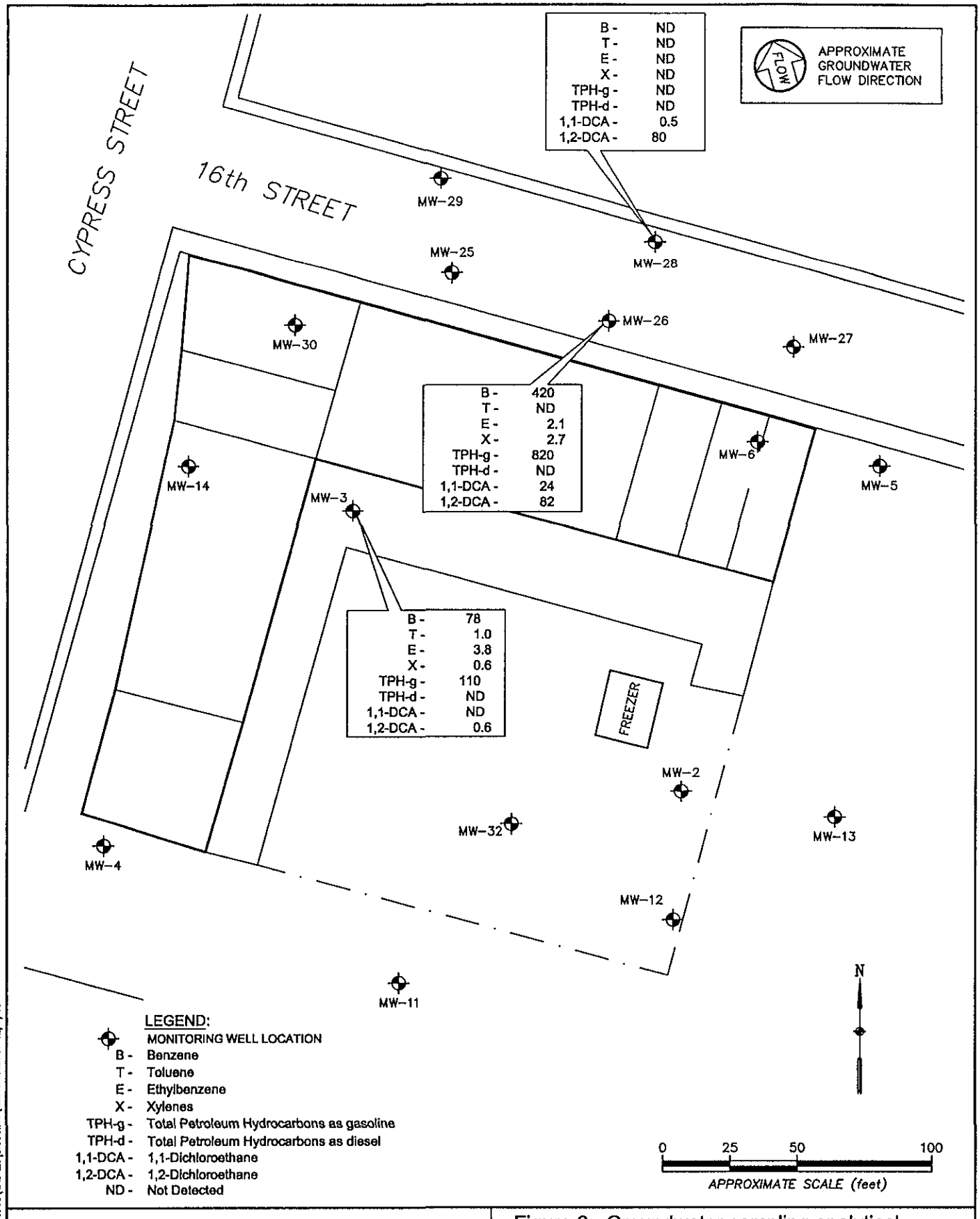
Figure 4. Groundwater elevations in wells sampled for dissolved hydrocarbons, Nestle Facility, Oakland, California. 21 October 1998.



FILE: F:\PROJECTS\60966\MASTER\GRAPHICS\NESTDATA.DWG; 12/7/98

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

Figure 5. Groundwater sampling analytical results (ug/L), Nestle Facility, Oakland, California. 22 July 1998.

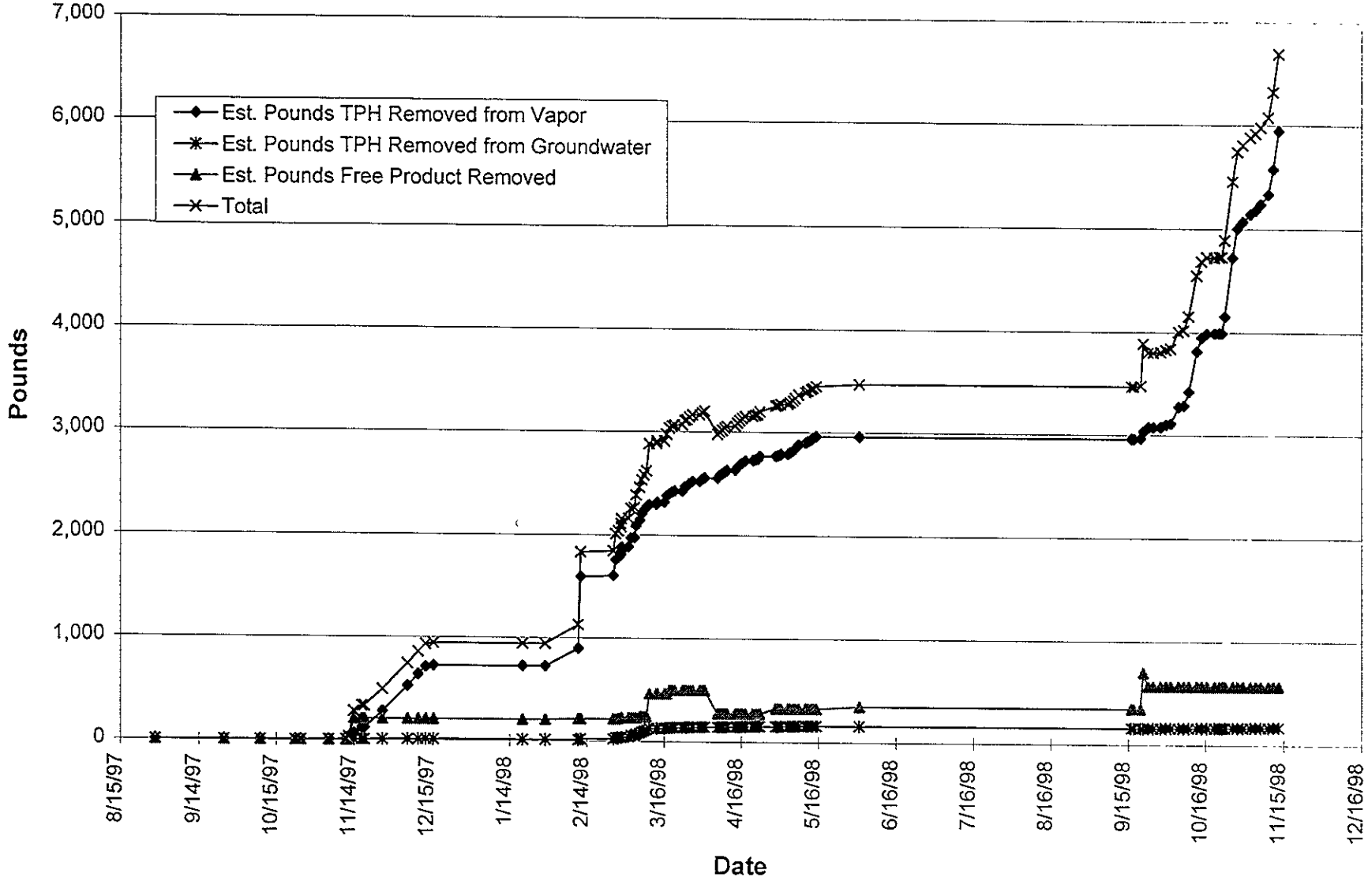


FILE: F:\PROJECTS\60966\MASTER\GRAPHICS\NESTDATA.DWG: 12/7/98

EA ENGINEERING, SCIENCE, AND TECHNOLOGY

Figure 6. Groundwater sampling analytical results (ug/L), Nestle Facility, Oakland, California. 21 October 1998.

Figure 7: Total Pounds of Hydrocarbons Removed from Groundwater and Vapor Effluents and as Free Product Nestle' Facility, 1310 14th Street, Oakland, California



Tables

TABLE 1 PRODUCT THICKNESS (ft), FORMER CARNATION DAIRY FACILITY, OAKLAND, CALIFORNIA, NOVEMBER 1993 - NOVEMBER 1998

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	0.38	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-5	--	--	--	--	--	--	--	--	--	--	1.50	0.27	0.03	0.10	0.01	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
E-8	--	--	--	--	--	--	--	--	0.10	--	0.42	0.19	0.02	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-30	--	--	--	2.81	1.21	1.97	<0.01	<0.01	--	Dry	Dry	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	1.7	0.12	0.13	0.85	0.91	0.84	0.73	0.4	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-68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PR-70	--	--	1.59	--	--	--	--	--	--	--	--	--	--	*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-8	--	--	--	--	--	--	--	--	0.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-55	--	--	--	--	--	--	--	--	--	--	0.04	--	--	<0.01	<0.01	*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-56	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-71	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-77	--	--	--	--	--	--	--	--	0.78	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-78A	--	--	--	--	--	--	--	--	0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-78B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-[illegible]	--	--	--	--	--	--	--	--	--	Dry	Dry	--	--	Dry	Dry	Dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-[illegible]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
V-[illegible]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
243	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
[illegible]	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
247	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
253	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Well not monitored

* Well inaccessible

[illegible] Product in well at 3.81 feet. Well not gauged. Probe showed oil on it

TABLE 1 (extended)

Well	7&8/97	2/10/98	3/4/98	3/18/98	4/6/98	4/17/98	5/18/98	8/31/98	11/2/98
MW-7	0.03	<0.01	<0.01	--	<0.01	--	<0.01	0.01	--
MW-8	<0.01	<0 01	<0.01	--	<0.01	--	<0.01	<0.01	--
MW-22	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	0.03	<0.01
MW-23	1.60	0.51	0.55	--	0.37	--	0.38	1.0	<0.01
MW-24	1.56	0.25	0.16	--	1.23	--	2.28	--	0 25
E-0	<0.01	0.02	0.03	--	0.03	--	0.03	--	<0.01
E-5	0 24	<0.01	<0.01	--	<0.01	--	<0.01	0.12	<0.01
E-6	--	--	--	--	--	0.01	--	--	0.01
E-8	0.25	--	0.22	--	0.19	0.19	0.18	0.16	--
PR-12	0.10	--	--	--	<0.01	--	<0.01	--	<0.01
PR-20	1.19	3.40	4.77	--	4.36	--	3.66	--	<0.01
PR-21	1.21	4.28	0.03	<0.01	0.03	--	0.1	<0.01	Dry
PR-22	0.01	4.54	0.01	--	<0.01	--	<0.01	0.20	<0.01
PR-23	0.06	<0.01	0.01	<0.01	0.01	--	<0.01	--	--
PR-24	<0.01	--	--	<0.01	--	<0.01	--	<0.01	--
PR-26	0.11	3.39	0.09	<0.01	<0.01	--	<0.01	0.04	<0.01
PR-27	<0.01	--	--	<0.01	--	<0.01	--	<0.01	--
PR-29	<0.01	--	--	<0.01	--	<0.01	--	<0.01	<0.01
PR-30	Dry	--	<0.01	<0.01	<0.01	--	<0.01	Dry	--
PR-32	<0.01	<0.01	0.02	--	<0.01	--	<0.01	--	--
PR-34	0.93	3.18	0.05	--	<0.01	--	0.04	0.17	<0.01
PR-35	0.90	0.71	<0.01	--	<0.01	--	<0.01	0.02	<0.01
PR-36	Dry	0 54	0.10	--	0.10	--	0.03	0.09	Dry
PR-37	0.31	<0.01	0.06	--	<0.01	--	0.13	0.07	<0.01
PR-41	Dry	--	<0.01	--	<0.01	<0.01	<0.01	Dry	--
PR-44	Dry	--	--	--	--	<0.01	--	--	--
PR-45	<0.01	--	--	--	--	<0.01	--	--	--
PR-47	0.02	<0.01	<0.01	--	<0.01	--	<0.01	0.06	<0.01
PR-48	--	1.30	0.01	<0.01	0.01	--	0.03	0.71	0.04
PR-49	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
PR-50	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
PR-51	Dry	--	0.17	<0.01	<0.01	Dry	<0.01	Dry	--
PR-52	<0.01	--	<0.01	--	<0.01	<0.01	<0.01	0.01	<0.01
PR-53	0.02	<0.01	<0.01	--	0.02	--	0.30	1.31	<0.01
PR-54	<0.01	--	<0.01	--	<0.01	--	<0.01	--	<0.01
PR-55	Dry	--	0.02	--	<0.01	--	<0.01	--	Dry
PR-56	Dry	--	<0.01	--	<0.01	--	<0.01	--	Dry
PR-57	<0.01	--	<0.01	--	<0.01	<0.01	<0.01	--	--
PR-58	0.85	4.25	5.22	--	4.25	--	3.63	--	0.03
PR-60	Dry	--	--	--	--	--	--	--	<0.01
PR-61	0.49	0.55	1.14	--	1.74	--	2.46	--	0.80
PR-62	<0.01	--	--	--	--	--	--	--	--
PR-64	1.42	2.93	4.61	--	4.52	--	3.75	--	<0.01
PR-65	Dry	--	<0.01	--	<0.01	--	<0.01	--	--
PR-67	<0.01	--	<0.01	--	<0.01	--	<0.01	--	--
PR-68	<0.01	--	<0.01	--	<0.01	--	<0.01	--	--
PR-70	--	--	--	--	--	--	--	--	--
V-8	Dry	--	<0.01	--	--	--	--	--	--
V-21	Dry	--	<0.01	--	<0.01	<0.01	<0.01	--	--
V-55	<0.01	--	0.05	--	0.04	--	0.14	--	0.09
V-56	0.66	--	--	--	0.03	--	0.06	--	Dry[c]
V-70	Dry	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--
V-71	Dry	--	--	<0.01	--	<0.01	--	<0.01	--
V-77	<0.01	--	--	0.19	--	--	--	0.49	Dry
V-78A	<0.01	--	<0.01	--	<0.01	<0.01	<0.01	<0.01	--
V-78B	<0.01	--	<0.01	--	--	<0.01	<0.01	<0.01	--
V-80	--	--	--	<0.01	--	<0.01	--	<0.01	--
V-90	Dry	--	--b	--	<0.01	--	<0.01	--	Dry
V-93	--	--	--	--	--	0.06	--	--	--
V-94	Dry	--	--	--	--	0.60	--	--	Dry
243	1.88	<0.01	0.01	--	0.04	--	0.01	--	<0.01
244	0.15	<0.01	<0.01	--	<0.01	--	<0.01	--	<0.01
247	<0.01	<0.01	<0.01	--	<0.01	--	<0.01	--	<0.01
253	1.13	0.66	1.04	--	1.38	--	--	--	<0.01

-- Well not monitored.

* Well inaccessible.

a = Lots of oil in well; b = mud in well at 3.80 feet; c = well was dry, but probe showed oil on it.

TABLE 2 GAUGING DATA FOR MONITORING WELLS AT THE FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1994–1998

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
	10/27/97		--	10.25	--	4.86
	01/27/98		--	6.74	--	8.37
	04/22/98		--	6.37	--	8.74
	07/22/98		--	**8.43**	--	**6.68**
	10/21/98		--	**9.74**	--	**5.37**
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
	10/27/97		--	9.60	--	4.70
	01/27/98		--	6.40	--	7.90

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-3	04/22/98	14.30	--	6.15	--	8.15
	07/22/98		--	**7.92**	--	**6.38**
	10/21/98		--	**9.19**	--	**5.11**
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
	08/31/94		--	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
	10/27/97		--	9.43	--	4.69
	04/22/98		--	5.91	--	8.21
	07/22/98		--	**7.82**	--	**6.30**
	10/21/98		--	**9.02**	--	**5.10**
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

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-7	09/22/95	14.29	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
	12/28/95		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

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-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
	12/18/95		--	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

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-24	03/13/95	14.67	--	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
	10/27/97		--	8.34	--	4.52
	01/27/98		--	5.37	--	7.49
	04/22/98		--	5.02	--	7.84
	07/22/98		--	**6.47**	--	**6.39**
	10/21/98		--	**7.86**	--	**5.00**
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

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	10/27/97	12.71	--	8.15	--	4.56
	01/27/98		--	5.12	--	7.59
	04/22/98		--	4.90	--	7.81
	07/22/98		--	**6.47**	--	**6.24**
	10/21/98		--	**7.64**	--	**5.07**
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
	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
	07/22/98		--	**7.83**	--	**6.21**
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
	10/27/97		--	8.93	--	4.52
	01/27/98		--	5.81	--	7.64
	04/22/98		--	5.60	--	7.85
	07/22/98		--	**7.27**	--	**6.18**
	10/21/98		--	**8.43**	--	**5.02**
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

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-29	06/09/95	12.60	--	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
	10/27/97		--	8.11	--	4.49
	01/27/98		--	5.15	--	7.45
	04/22/98		--	4.95	--	7.65
	07/22/98		--	**6.45**	--	**6.15**
	10/21/98		--	**7.65**	--	**4.95**
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
	10/27/97		--	10.02	--	4.52
	01/27/98		--	7.04	--	7.50
	04/22/98		--	6.91	--	7.63
	07/22/98		--	**8.44**	--	**6.10**
	10/21/98		--	**9.60**	--	**4.94**
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

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-32	12/22/94	14.76	--	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
	06/21/96		--	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
	10/27/97		--	9.86	--	4.90
	01/27/98		--	6.35	--	8.41
	04/22/98		--	6.05	--	8.71
	07/22/98		**--**	**8.06**	**--**	**6.70**
	10/21/98		**--**	**9.35**	**--**	**5.41**

-- Product not present.

TABLE 3 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–1998

Well No.	Date Sampled	Concentration (µg/L)											
		Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-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	0.7	<0.5	<0.5	<0.5	--	
	07/07/97	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	<0.5	
	01/27/98	<0.5	<0.5	<0.5	<0.5	100	<150	--	--	--	--	<0.5	
	07/22/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	--	--	--	--	--	**<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	--	--	--	--	--	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-3	01/16/97	1,600	270	120	194	3,600	700	<0.5	9.2	<0.5	<0.5	--	
	04/15/97	1,300	300	180	160	4,300	800	<0.5	16	<0.5	1.1	6.9	
	07/07/97	100	84	100	67	1,900	350	--	--	--	--	3.8	
	10/27/97	1,030	60	54	40	2,200	--	<0.5	2.4	<0.5	<0.5	3.1	
	01/27/98	1,070	98	73	69	3,200	--	--	--	--	--	3.9	
	04/22/98	610	56	49	54	1,800	--	<0.5	3.0	<0.5	<0.5	1.1	
	07/22/98	**1,800**	**230**	**160**	**180**	**3,600**	**370**	--	--	--	--	**5.0**	
	10/21/98	**78**	**1.0**	**3.8**	**0.6**	**110**	**<250**	**<0.5**	**0.6**	**<0.5**	**<0.5**	**<0.5**	
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	--	--	--	--	--	a
	03/13/95	1.2	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	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	<0.5	6.3	<0.5	<0.5	--	
	07/07/97	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	<0.5	
	07/22/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<250**	--	--	--	--	**<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	--	--	--	--	--	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-25	12/22/94	0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.58	<0.5	<0.5	<0.5	150	950	--	--	--	--	--	
	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	--	--	--	--	--	
	01/16/97	0.6	<0.5	<0.5	<0.5	80	<150	25	41	<0.5	<0.5	--	
	07/07/97	<0.5	<0.5	<0.5	<0.5	140	<150	--	--	--	--	11	
	01/27/98	<0.5	<0.5	<0.5	<0.5	<100	--	--	--	--	--	10	
	07/22/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<250**	--	--	--	--	**24**	
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	ND	140	ND	ND	--	
	11/05/93	4,700	1,300	9	1,400	19,000	ND	ND	120	ND	ND	--	
	02/25/94	4,800	570	200	860	14,000	<1,000	<1	28	<1	<1	--	
	06/03/94	4,100	300	120	230	12,000	<20,000	1.7	140	<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	53	5.8	<0.5	<0.5	--	
	06/09/95	14,000	64	31	230	10,800	310	240	3.1	1	<0.5	--	
	09/21/95	1,900	160	160	330	8,000	200	1.3	120	<0.5	<0.5	--	
	12/12/95	13,000	38	36	120	25,000	0.6	1.4	180	<0.5	<0.5	--	b
	03/12/96	9,000	33	30	65	4,400	<50	<0.5	180	<0.5	<0.5	--	
	06/21/96	14,000	27	16	66	5,400	<50	3.2	170	<0.5	<0.5	--	
	08/29/96	8,500	26	28	74	19,000	<150	<0.5	160	<0.5	<0.5	--	
	01/16/97	6,500	21	31	47	4,600	--	4.3	>50	<0.5	<0.5	26	
	04/15/97	16,000	33	40	160	26,000	2,200	3.5	97	<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	
	10/27/97	16,000	26	100	37	30,000	--	3.6	92	<0.5	<0.5	38	
	01/27/98	23,600	<5.0	<5.0	<5.0	26,000	420	8.3	100	<0.5	<0.5	100	
	04/22/98	5,000	4.3	9.2	16	14,000	--	13	130	<0.5	<0.5	27	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-26	**07/22/98**	**3,800**	**5.7**	**6.9**	**11**	**5,200**	**750**	**10**	**110**	**--**	**<1.0**	**33**	
	10/21/98	**420**	**<0.5**	**2.1**	**2.7**	**820**	**<250**	**24**	**82**	**<0.5**	**<0.5**	**31**	
MW-27	06/21/96	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5	6.8	<0.5	<0.5	--	
	08/29/96	--	--	--	--	--	--	--	--	--	--	--	
	01/16/97	12	5.0	<0.5	2.6	70	<150	<0.5	5.7	<0.5	<0.5	--	
	07/22/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<250**	**<1.0**	**1.4**	**--**	**<1.0**	**<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	--	--	--	--	--	
	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	5.1	85	<0.5	<0.5	8.2	
	04/15/97	<0.5	<0.5	<0.5	<0.5	120	<150	1.1	150	<0.5	<0.5	7.1	
	07/07/97	<0.5	<0.5	<0.5	<0.5	110	<150	<5.0	170	<5.0	<5.0	7.2	
	10/27/97	3.6	<0.5	<0.5	<0.5	300	--	6.2	120	<0.5	<0.5	36	
	01/27/98	7.6	<0.5	<0.5	<0.5	500	<150	--	--	--	--	56	
	04/22/98	<0.5	<0.5	<0.5	<0.5	<50	--	1.0	89	<0.5	<0.5	8.6	
	07/22/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**--**	**<1.0**	**85**	**--**	**<1.0**	**18**	
	10/21/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<250**	**0.5**	**80**	**<0.5**	**<0.5**	**12**	
MW-29	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-29	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	47	24	<0.5	<0.5	1.8	
	07/07/97	<0.5	<0.5	<0.5	<0.5	<50	<150	52	21	<5.0	<5.0	1.2	
	01/27/98	<0.5	<0.5	<0.5	<0.5	100	<150	--	--	--	--	8.0	
	07/22/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<250**	**12**	**29**	**--**	**<1.0**	**7.8**	
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	--	--	--	--	--	
	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	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L) Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	1,1-DCA	1,2-DCA	1,1,1-TCA	TCE	MTBE	Notes
MW-30	01/27/98	5.4	<0.5	<0.5	<0.5	100	--	--	--	--	--	<0.5	
	07/22/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	--	--	--	--	--	**<0.5**	
MW-32	03/23/93	391	6.2	3.1	9	440	ND	ND	60	ND	ND	--	
	07/27/93	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	--	
	11/05/93	20	ND	1.8	2.1	170	ND	ND	7.9	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	<0.5	11	<0.5	<0.5	--	
	08/31/94	39	0.5	2.2	1.2	<500	<500	<4.0	10	<4.0	<4.0	--	
	12/22/94	4.8	<0.5	<0.5	<0.5	<50	<50	<2.0	4.6	<2.0	<2.0	--	a
	03/13/95	220	3.6	6.5	5.8	1,100	<400	<0.5	16	<0.5	<0.5	--	
	06/09/95	1,500	7.9	43	14	2,200	180	0.7	<0.5	0.5	<0.5	--	
	09/21/95	1,200	2.4	72	4.5	2,300	60	<0.5	6.7	<0.5	1.4	--	
	12/12/95	230	<0.5	8.9	<1.0	500	<50	<0.5	28	<0.5	<0.5	--	
	03/12/96	40	<0.5	1.7	<0.5	110	<50	<0.5	6.8	<0.5	<0.5	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	150	<0.5	49	<0.5	700	<150	<0.5	27	<0.5	<0.5	--	
	01/16/97	14	<0.5	1.9	<0.5	150	<150	<0.5	10	<0.5	0.7	--	f
	07/07/97	370	11	110	21	1,600	190	--	--	--	--	11	g
	01/27/98	13	<0.5	1.0	<0.5	300	--	<0.5	7.5	<0.5	<0.5	2.5	
	07/22/98	**700**	**55**	**88**	**66**	**2,300**	--	--	--	--	--	**14**	
Rinse Blank	**07/22/98**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	**<250**	--	--	--	--	**<0.5**	
Trip Blank	**07/22/98**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	--	**<1.0**	**<1.0**	--	**<1.0**	**<0.5**	
	10/21/98	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<50**	--	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	

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.

TABLE 3 (continued)

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

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.
µg/L	Micrograms per liter.
TPH-g	Total Petroleum Hydrocarbons as gasoline.
TPH-d	Total Petroleum Hydrocarbons as diesel.
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.

TABLE 4 OPERATION AND PERFORMANCE DATA- GROUNDWATER EXTRACTION SYSTEM
NESTLE' FORMER CARNATION FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

Date	Hours of Operation	Percent Operational[1]	Flow Total (gallons)	Average Operational Flow Rate (gpm)[2]	Total Influent TPH Conc. (µg/L)	Est. Pounds TPH in Water Removed[3]	Est. Cumulative Pounds Free Product Removed[4]	
			350					
8/28/97	15.0	NA	700	NM		0.00	0	Startup and testing. Repair needed.
9/24/97	0.0	0%	NM	NM		NM	0	
10/8/97	0.0	0%	NM	NM		NM	0	
10/22/97	0.0	0%	NM	NM		NM	0	
10/24/97	0.0	0%	NM	NM		NM	0	
11/4/97	0.2	0%	NM	NM	471,000	NM	0	Restart after repairs.
11/11/97	0.0	0%	1,440	NM		2.34	0	2 x 200 lb LGAC changed out
11/12/97	2.0	8%	1,446	0.05	286,000	0.02	0	
11/14/97	2.6	5%	1,820	2.40		0.99	209	
11/17/97	3.7	5%	2,610	3.56		2 09	209	
11/18/97	0.7	3%	2,820	5 00		0.56	209	
11/25/97	2.8	2%	2,870	NM		0 13	209	
12/5/97	3.0	1%	3,890	5.67		2.70	209	2 more 200 lb LGAC added in series
12/9/97	1.7	2%	4,380	4 80		1.30	209	
12/12/97	2 3	3%	4,900	3 77		1 38	209	
12/15/97	0.3	0%	5,020	6.67		0.32	209	
1/19/98	0.0	0%	NM	NM		NM	209	
1/28/98	0.0	0%	NM	NM		NM	209	
2/10/98	1.7	1%	5,369	NM	350,000	0 92	217	Restarted after additional repairs.
2/11/98	11.6	47%	7,830	3.54		9.23	217	Shut down for VGAC changeout
2/24/98	0.6	0%	7,980	4.17		0.56	217	Restart
2/25/98	11.6	49%	10,855	4.13	550,000	10.79	217	
2/26/98	1.9	8%	11,384	4.64		2.50	222	LGAC high pressure shutdown
2/27/98	2.3	9%	12,041	4 76		3.11	231	LGAC high pressure shutdown
2/27/98	1.7	93%	12,271	2.25		1.09	231	
2/27/98	2.2	50%	12,790	3 93		2.45	231	Shut down for weekend.
3/2/98	0.3	0%	13,080	16.11		1 37	231	Restart, open Line #2
3/3/98	12.1	50%	16,211	4.31		14.80	231	Shut down for LGAC, VGAC changeout
3/4/98	0.5	2%	16,400	6.30		0.89	231	Restart, 2x200lb LGAC changed out
3/5/98	8.2	48%	18,750	4.78	584,000	11.11	231	
3/6/98	8.0	25%	21,195	5.09		10.19	240	False high level in Tank #3. Restarted
3/7/98	10.6	49%	23,968	4.36		11.56	240	
3/8/98	11.5	53%	26,380	3.50		10 05	240	
3/9/98	11.6	50%	28,980	3.74		10 84	240	
3/10/98	15.8	57%	32,094	3.28	416,000	12.98	463	Shut down for VGAC and LGAC changeout.
3/13/98	0.6	1%	32,293	5.53		0.37	463	Restart, 3 x 200 lb LGAC changed out
3/13/98	2.6	43%	32,850	3.57		1 04	463	Shut down for weekend.
3/16/98	0.3	0%	33,055	11.39		0.38	463	Restarted after weekend
3/17/98	9 4	45%	34,792	3.08		3.23	463	
3/18/98	9.3	36%	37,139	4.21	30,000	4.36	498	
3/19/98	12.2	44%	39,437	3.14		1.40	498	
3/20/98	7.3	33%	41,135	3 88		1.03	498	Shut down for weekend.
3/23/98	0.3	0%	41,155	1.11		0.01	498	Restarted after weekend.
3/24/98	9.0	41%	43,100	3.60		1.18	498	
3/25/98	4.1	20%	44,178	4.38	116,000	0 66	498	Separation samples collected
3/26/98	11.2	47%	46,200	3.01		1.31	498	Separation samples collected
3/27/98	10.0	38%	48,445	3.74		1.46	498	Shut down for weekend.
3/30/98	0.5	1%	48,656	7.03		0 14	498	
3/31/98	12.3	51%	51,166	3 40	40,000	1.63	498	
4/1/98	8.5	36%	52,750	3.11		0.47	498	Shut down for vapor phase carbon changeout.

TABLE 4 OPERATION AND PERFORMANCE DATA- GROUNDWATER EXTRACTION SYSTEM
NESTLE' FORMER CARNATION FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

Date	Hours of Operation	Percent Operational[1]	Flow Total (gallons)	Average Operational Flow Rate (gpm)[2]	Total Influent TPH Conc. (µg/L)	Est. Pounds TPH in Water Removed[3]	Est. Cumulative Pounds Free Product Removed[4]	
4/6/98	0.0	0%	53,098	0.00		0 10	274	Restart after changeout Drained water from product tank.
4/7/98	12 8	68%	54,971	2.44		0 56	274	
4/8/98	13.5	61%	57,087	2 61	31,500	0.63	274	Shut down for upgrades to system
4/8/98	0.9	17%	57,515	7 93		0 13	274	
4/9/98	12.1	56%	59,670	2.97		0.72	274	
4/10/98	10.4	46%	61,678	3.22		0.67	274	Shut down for the weekend
4/13/98	0 5	1%	61,932	8.47		0.08	274	Restart after weekend
4/14/98	4.7	22%	63,462	5 43	48,500	0 51	274	Shut down from clogged filter
4/15/98	10.0	44%	66,411	4 92		0 98	274	
4/16/98	9.6	40%	69,230	4.89		1.40	274	Shut down from clogged filter
4/17/98	10.1	37%	72,380	5 20		1 57	274	Shut down from clogged filter. Shut down for weekend
4/20/98	2.3	3%	72,751	2 69		0 18	274	Restarted after weekend
4/21/98	3.4	14%	74,261	7.40		0.75	274	Shut down from clogged filter
4/22/98	2.0	9%	NM	NM	71,000	NM	274	Shut down from clogged filter
4/23/98	8.9	46%	76,970	4.14		1.50	274	Shut down for VGAC and LGAC changeout
4/29/98	1.6	1%	77,820	8.85		0.47	327	Restart after GAC changeout
4/30/98	1.6	8%	78,320	5.21		0 28	327	Filter fouling.
5/1/98	1.8	7%	79,136	7.56		0.45	327	Filter fouling. Shut down for weekend
5/4/98	1.3	2%	79,290	1.97	61,600	0.09	327	Restart after weekend
5/5/98	9.4	43%	81,382	3.71		0 71	327	
5/6/98	15.1	53%	84,062	2.96		0.91	327	
5/7/98	8.6	47%	86,055	3.86		0.68	327	
5/8/98	14.2	47%	89,207	3.70		1.07	327	
5/11/98	16.2	24%	92,465	3.35		1.11	327	System operated over weekend. Shutdown from low water level in separator #2.
5/12/98	4.9	23%	93,541	3.66		0.37	327	
5/13/98	6.1	19%	94,944	3.83		0.48	327	
5/14/98	8.3	50%	96,655	3.44	19,900	0.58	327	
5/15/98	16.3	52%	99,890	3 31		0 54	327	Shut down for vapor breakthrough
6/1/98	0.3	0%	99,930	2.22		0.01	347	
RESTART SYSTEM WITH THERMAL OXIDIZER						0.00	0	
9/16/98	7.4	0%	100,470	1 22		0 04	347	
9/17/98	3.9	14%	100,520	0.21		0 00	347	
9/20/98	2.1	3%	100,630	0.87		0.01	347	
9/21/98	21.4	98%	101,980	1.05	9,600	0.11	698	
9/23/98	10.0	21%	102,700	1.20		0.05	569	
9/25/98	24.2	51%	104,570	1.29		0.14	569	
9/28/98	2 2	3%	104,920	2.65		0.03	569	
9/30/98	15.8	31%	106,450	1 61		0.11	569	
10/2/98	12.4	27%	107,350	1.21		0.07	569	
10/5/98	72.3	98%	113,720	1.47		0.48	569	
10/7/98	5.5	11%	114,150	1 30	8,300	0.08	569	
10/9/98	44.7	97%	119,490	1.99		1.05	569	
10/12/98	74.9	100%	125,060	1.24		1.10	569	
10/14/98	29.8	67%	131,310	3.50		1.23	569	
10/16/98	26.4	52%	133,680	1.50		0.47	569	
10/19/98	1.6	2%	133,820	1 46		0.03	569	
10/21/98	3.5	8%	134,140	1.52		0 06	569	
10/22/98	5.9	24%	134,730	1.67		0 12	569	
10/23/98	26.5	99%	137,250	1.58		0.50	569	
10/26/98	73.4	101%	140,510	0.74	38,900	0.64	569	
10/28/98	45.4	99%	NM	NM		0.00	569	

TABLE 4 OPERATION AND PERFORMANCE DATA- GROUNDWATER EXTRACTION SYSTEM
NESTLE' FORMER CARNATION FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

Date	Hours of Operation	Percent Operational[1]	Flow Total (gallons)	Average Operational Flow Rate (gpm)[2]	Total Influent TPH Conc. (µg/L)	Est. Pounds TPH in Water Removed[3]	Est. Cumulative Pounds Free Product Removed[4]	
10/30/98	22.1	44%	146,360	4 41		1 15	569	
11/2/98	28.5	40%	150,710	2.54		0 86	569	
11/4/98	14.7	29%	153,050	2 65		0 46	569	
11/6/98	17.1	37%	155,490	2.38		0 48	569	
11/9/98	31.8	44%	160,010	2.37		0 89	569	
11/11/98	31.5	71%	165,613	2.96		1.10	569	
11/13/98	51.5	99%	172,640	2 27		1 38	569	Shut down for LGAC changeout
Total	1157.5		172,640			175.11	569	

1 Percent operational = hours of blower operation / days between readings * 24 hours/day * 100%

2 Average operational flow rate = total flow in period/hours of operation in period

3 Est TPH Pounds Removed = Average Influent conc (µg/L) (using latest sampling) * period flow total (gallons) * 1 lb/454 g * 1/1,000,000 * 3 785 L/gallon

4 Est Cumulative Pounds Free Product Removed assumes all liquid tank is 100% product, specific gravity = 0 8

gpm = gallons per minute

Total TPH = Total of TPH-gas and TPH-diesel

µg/L = micrograms per liter

TABLE 5 OPERATION AND PERFORMANCE DATA - VAPOR EXTRACTION SYSTEM
NESTLE' FORMER CARNATION FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

Date	Hours Blower Operational	Percent Blower Operational	Average Oxidizer Flowrate (CFM)	FID Concentrations (ppmv) Oxidizer Influent (ppmv)	FID Concentrations (ppmv) Oxidizer Effluent (ppmv)	Estimated Pounds of TPH-g Removed*	
8/28/97	15	NA	25	120	0	0.8	Startup and testing. Repair needed.
9/24/97	0	0.0%	NM	NM	NM	0.0	
10/8/97	0	0.0%	NM	NM	NM	0.0	
10/22/97	0	0.0%	NM	NM	NM	0.0	
10/24/97	0	0.0%	NM	NM	NM	0.0	
11/4/97	0.2	0.1%	53	>1000	0	1.8	Restart after repairs.
11/11/97	0	0.0%	NM	NM	NM	0.0	2,000 lb VGAC Change out.
11/12/97	2	8.2%	NM	>1000	0	27.4	
11/14/97	2.6	5.5%	50.5	16,000	0	36.0	
11/17/97	3.7	4.9%	NM	>10,000	0	50.7	VGAC flooded by water.
11/18/97	0.7	3.0%	NM	950	100	0.6	
11/25/97	2.8	1.7%	55	61,000	0	160.8	2,000 lb VGAC change out, restart.
12/5/97	3	1.3%	NM	NM	NM	245.9	
12/9/97	1.7	1.7%	76	42,000	60	113.9	
12/12/97	2.3	3.2%	67	13,000	0	72.5	
12/15/97	0.3	0.4%	70	52,000	0	11.7	
1/19/98	0	0.0%	NM	NM	NM	0.0	
1/28/98	0	0.0%	NM	NM	NM	0.0	
2/10/98	1.7	0.5%	55	110,000	0.2	176.0	Restarted after additional repairs.
2/11/98	11.6	47.3%	54	20,000	0.2	696.9	Shutdown for VGAC changeout.
2/24/98	0.6	0.2%	55.5	20,000	0.3	11.4	Restart, 2,000 lb VGAC changeout 2/23
2/25/98	11.6	49.4%	55	8,020	0.1	153.0	
2/26/98	1.9	7.7%	54.5	16,000	0	21.3	
2/27/98	2.3	9.4%	56	8,089	0	26.6	
2/27/98	1.7	92.7%	53	29,000	0	28.6	
2/27/98	2.2	49.8%	54	14,500	0	44.2	Shut down for weekend.
3/2/98	0.3	0.5%	65	9,360	0	4.0	Restart, open Line #2
3/3/98	12.1	50.4%	58.5	4,386	0	83.3	Shutdown for VGAC changeout.
3/4/98	0.5	1.6%	NM	23,000	0	6.4	Restart. 1,000 lb VGAC changeout.
3/5/98	8.2	47.5%	51.5	8,740	2.8	114.7	
3/6/98	8	25.2%	47.5	7,720	0	53.5	
3/7/98	10.6	49.1%	64.5	2,586	0	60.3	
3/8/98	11.5	53.5%	69	3,130	0.1	38.8	
3/9/98	11.6	50.4%	62	1,420	0	28.0	
3/10/98	15.8	56.6%	60	1,574	0	24.3	Shutdown for VGAC changeout.
3/13/98	0.6	0.9%	44	12,000	0	3.1	1,000 lb VGAC changeout.
3/13/98	2.6	43.3%	50	8,100	0	22.4	Shutdown for weekend.
3/16/98	0.3	0.4%	55	10,400	0	2.6	Restart after weekend
3/17/98	9.4	45.3%	60	2,069	0	60.2	
3/18/98	9.3	36.4%	68	1,454	0	19.1	
3/19/98	12.2	44.2%	60	1,384	0	17.8	
3/20/98	7.3	32.9%	49	1,568	0	9.0	Shutdown for weekend.
3/23/98	0.3	0.4%	60	6,510	0	1.2	Restart after weekend
3/24/98	9	40.8%	64	1,977	0	41.8	
3/25/98	4.1	20.2%	58	1,338	0	6.7	

TABLE 5 OPERATION AND PERFORMANCE DATA - VAPOR EXTRACTION SYSTEM
NESTLE' FORMER CARNATION FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

Date	Hours Blower Operational	Percent Blower Operational	Average Oxidizer Flowrate (CFM)	FID Concentrations (ppmv) Oxidizer Influent (ppmv)	FID Concentrations (ppmv) Oxidizer Effluent (ppmv)	Estimated Pounds of TPH-g Removed*	
3/26/98	11.2	47.0%	65	2,476	0.1	23.8	
3/27/98	10	37.5%	69	1,215	0	21.8	Shutdown for weekend.
3/30/98	0.5	0.7%	63	1,170	0.3	0.6	
3/31/98	12.3	50.7%	64	1,715	0	19.4	
4/1/98	8.5	35.8%	62	1,245	0	13.3	Shutdown for vapor phase carbon changeout
4/6/98	0	0.0%	59	2,190	0	0.0	Restart after changeout.
4/7/98	12.8	67.7%	66	1,090	0	23.7	
4/8/98	13.5	61.4%	64	1,000	0	15.5	
4/8/98	0.9	17.1%	56	1,230	0	1.0	Shut down for upgrades to system
4/9/98	12.1	56.1%	67	1,370	0	18.0	
4/10/98	10.4	46.4%	65	1,370	0	15.9	Shut down for the weekend.
4/13/98	0.5	0.7%	63	8,970	0	2.8	Restart after weekend
4/14/98	4.7	22.0%	62	2,650	0	29.0	
4/15/98	10	43.8%	71	1,180	0	23.3	
4/16/98	9.6	40.0%	69	1,930	0	17.6	
4/17/98	10.1	36.8%	56	2,036	0	19.2	Shut down for weekend
4/20/98	2.3	3.2%	60	2,240	0	5.0	Restarted after weekend.
4/21/98	3.4	13.6%	62	2,150	0	7.9	
4/22/98	2	8.7%	80	2,880	0	6.9	
4/23/98	8.9	46.2%	74	1,680	0	25.7	Shut down for VGAC and LGAC changeout.
4/29/98	1.6	1.1%	NM	3,680	0	4.6	Restart after GAC changeout
4/30/98	1.6	7.6%	52	6,000	0	6.9	
5/1/98	1.8	6.9%	93	988	0	10.0	Shut down for weekend
5/4/98	1.3	1.9%	94	1,126	0	2.2	Restart after weekend
5/5/98	9.4	42.7%	99.5	579	0.3	13.6	
5/6/98	15.1	52.7%	85	918	0	16.4	
5/7/98	8.6	47.3%	91.5	2,250	0	21.3	
5/8/98	14.2	47.5%	87	1,051	0	34.9	
5/11/98	16.2	23.7%	85	927	0	23.3	Discovered system operated over weekend
5/12/98	4.9	22.7%	84	2,433	0	11.8	
5/13/98	6.1	19.0%	85	1,193	0	16.1	
5/14/98	8.3	49.8%	98	771	0.5	13.7	
5/15/98	16.3	51.7%	81	685	0	16.5	Shut down system for vapor breakthrough
6/1/98	0.3	0.1%	87	4,253	0	1.1	
9/16/98	443.4	0.1%	87	NM	NM	NA	
9/17/98	3.9	13.6%	86	NM	NM	NA	
9/20/98	2.1	3.1%	84	2,286	NM	6.9	
9/21/98	21.4	98.0%	87.6	1,646	0.3	63.1	
9/23/98	10	21.1%	89.5	3,777	0.07	41.5	
9/25/98	24.2	50.5%	84.5	NM	NM	NA	
9/28/98	2.2	3.2%	73.5	1,094	NM	3.0	
9/30/98	15.8	31.5%	83	1,053	NM	23.6	
10/2/98	12.4	27.0%	67	382	6.07	10.2	

TABLE 5 OPERATION AND PERFORMANCE DATA - VAPOR EXTRACTION SYSTEM
NESTLE' FORMER CARNATION FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

Date	Hours Blower Operational	Percent Blower Operational	Average Oxidizer Flowrate (CFM)	FID Concentrations (ppmv) Oxidizer Influent (ppmv)	FID Concentrations (ppmv) Oxidizer Effluent (ppmv)	Estimated Pounds of TPH-g Removed*	
10/5/98	72.3	98.1%	94.5	2,430	2.38	164.4	
10/7/98	5.5	11.0%	88.5	884	0.03	13.8	
10/9/98	44.7	97.5%	85	3,230	0.21	133 8	
10/12/98	74.9	99.7%	86	3,934	0.15	394.9	
10/14/98	29.8	66.7%	94	1,711	0.09	135.3	
10/16/98	26.4	52.5%	66	854	2.7	38.2	
10/19/98	1.6	2.3%	74	557	1.4	1.4	
10/21/98	3.5	7.7%	76.5	707	0.32	2.9	
10/22/98	5.9	24.3%	NM	NM	NM	0.0	
10/23/98	26.5	98.6%	81.5	1,135	1.3	163.5	
10/26/98	73.4	100.0%	102	7,711	0.7	566.7	
10/28/98	45.4	99.3%	79	1,485	0.12	282.3	
10/30/98	22.1	44.0%	80	2,726	0.11	63.7	
11/2/98	28.5	40.0%	70	1,573	0	73.4	
11/4/98	14.7	29.3%	74.5	2,258	1.4	35.9	
11/6/98	17.1	37.0%	87	2,374	1.15	59.0	
11/9/98	31.8	43.8%	70	2,671	0	96.1	
11/11/98	31.5	71.3%	92	7,158	0.74	243.8	
11/13/98	51.5	99.4%	87.5	2,395	2.85	368.4	Shut down for LGAC changeout
TOTAL	789					5946	

CFM = cubic feet per minute
FID = Flame Ionization Detector
TPH-g = Total Petroleum Hydrocarbons, as Gasoline
ppmv = parts per million by volume

* Estimated Pounds TPH Removed = Average Influent conc.(ppmv) * Average flowrate (CFM) * Hours of Operation * 60 min/hour * 1/1,000,000 ppm * 110 g/mole *1/24.055 L/mole * 1 lb/454 g * 28.32 L/ft3
(assuming average TPH-g molecular weight is 110 g/mole, at 20° C temperature)

Appendix A

Field Documents

EA Engineering, Science, and Technology

FIELD SUMMARY REPORT

Client: Nestle Station No: OAKLAND

EA Project No: 60966.01 Task No: 0006

Field Team: Chris Chatterton

Date: 7-22-98

No. of Drums on Site: ✓ Water ____ Soil ✓ Empty ✓ LPH

Summary:

Opened and gauged MW2, MW3, MW6, MW25-MW30, and MW32. Purged at least 3 casing volumes from each well with a vacuum truck and put the purgewater in the forewarding tanks + the green poly tank for storage to be put through the system when it is running in the future. Collected groundwater samples from all wells for TPHg and BTEX analysis. Collected groundwater from MW3, MW4, MW25-MW27, and MW29 for TPHd analysis. Collected groundwater samples from MW26-MW29 for 8010 analysis. Secured all wells. There are numerous drums onsite. The system is off.

MONITORING WELL DATA FORM

Client: Nestle

Date: 7-22-98

Project Number: 60966.01.0006

Station Number: Oakland

Site Location: 1310 14th Street, Oakland, California

Samplers: Phil Schulze
Chris Chatburn

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		8.43					23.11
MW3		7.52					24.91
MW6		7.82					15.60
MW25		6.47					19.32
MW26		6.47					24.99
MW28		7.27					25.05
MW29		6.45					23.25
MW30		8.44					21.00
MW32		8.06					23.10
MW27		7.83					23.80

F:\CTC\FORMS\NEST-DTW.PM5

Note: Total depth of wells recorded during first quarter.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW2 Date: 7-22-98

Project No: 60966.01.0006 Personnel: Chris Chatburn

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			
	23.11		8.43		14.68		0.16	0.64	1.44	10		30

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 5 GPM

Time	955	957	959	1001			
Volume Purges (gal)	0	10	20	30			
Temperature (°C)	19.1	17.0	19.0	20.5			
pH	7.90	7.58	7.48	7.26			
Specific Conductivity (umhos)	432.5	444.4	472.1	497.8			
Turbidity/Color	med / cloudy	low / clear	low / clear	med / cloudy	/	/	/
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1010 Approx. Depth to Water During Sampling: 10 Feet

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	clear	Y	TPH-g, BTEX	

Total Purge Volume: 30 Gallons Disposal/Containment Method: Treatment System

Weather Conditions: cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW3 Date 7-22-96

Project No: 60966.01.0006 Personnel: Chris Chatburn

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			
	24.91		7.92		16.99		0.16	0.64	1.44	11		33

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 5.5 GPM

Time	1040	1042	1044	1048			
Volume Purges (gal)	0	11	22	33			
Temperature (°C)	20.0	20.3	20.3	20.0			
pH	7.16	7.11	7.33	7.49			
Specific Conductivity (umhos)	5060	511	521	531			
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: 1100 Approx. Depth to Water During Sampling: 9 Feet

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	Y	TPH-g, BTEX	
MW3	1	Amber	None	1 Liter	"	"	Y	TPH-d	

Total Purge Volume: 33 Gallons Disposal/Containment Method: Treatment System

Weather Conditions: Cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle | Well No: MW6 | Date: 7-22-98

Project No: 60966.01.0006 | Personnel: Chris Chatburn

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			
	15.60		7.82		7.78		0.16	0.64	1.44	2		6

PURGING DATA

Purge Method: Vacuum Truck | Purge Depth: Screen | Purge Rate: 2 GPM

Time	940	941	942	943			
Volume Purges (gal)	0	2	4	6			
Temperature (°C)	15.0	15.8	16.2	16.1			
pH	7.86	7.92	8.06	8.13			
Specific Conductivity (umhos)	391.9	390.8	371.6	367.1			
Turbidity / Color	med cloudy	med cloudy	med cloudy	med cloudy			
Odor	N	N	N	N			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments / Observations: _____

SAMPLING DATA

Time Sampled: 950 | Approx. Depth to Water During Sampling: 9 Feet

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	med	cloudy	Y	TPH-g, BTEX	
MW6	1	Amber	None	1 Liter	"	"	Y	TPH-d	

Total Purge Volume: 6 Gallons | Disposal/Containment Method: Treatment System

Weather Conditions: cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW25 Date 7-22-98

Project No: 60966.01.0006 Personnel: Chris Chatburn

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			
	19.32		6.47		12.85		0.16	0.64	1.44	9		27

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 4.5 GPM

Time	825	827	829	831			
Volume Purges (gal)	0	9	18	27			
Temperature (°C)	18.0	17.9	18.0	18.8			
pH	7.49	7.49	7.53	7.57			
Specific Conductivity (umhos)	745	740	701	679			
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: 840 Approx. Depth to Water During Sampling: 8 Feet

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	Y	TPH-g, BTEX	
MW25	1	Amber	None	1 Liter	↓	↓	Y	TPH-d	

Total Purge Volume: 27 Gallons Disposal/Containment Method: Treatment System

Weather Conditions: Cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW26 Date 7-22-98

Project No: 60966.01.0006 Personnel: Chris Chatburn

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			
	24.99		6.47		18.52		0.16	0.64	1.44	12		36

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 6 GPM

Time	900	902	904	906			
Volume Purges (gal)	0	12	24	36			
Temperature (°C)	18.1	18.2	18.1	18.0			
pH	7.34	7.32	7.41	7.40			
Specific Conductivity (umhos)	693	697	697	699			
Turbidity/Color	med cloudy	med cloudy	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: 915 Approx. Depth to Water During Sampling: 8' Feet

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	6	Voa	HCL	40 ml	low	clear	Y	TPH-g, BTEX	
MW26	1	Amber	None	1 Liter	↓	↓	Y	TPH-d	

Total Purge Volume: 36 Gallons Disposal/Containment Method: Treatment System

Weather Conditions: cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments:

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW27 Date 7-22-98

Project No: 60966.01.0006 Personnel: Chris Chatburn

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			
	23.80		7.83		15.97		0.16	0.64	1.44	11		33

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 5.5 GPM

Time	920	922	924	926			
Volume Purged (gal)	0	11	22	33			
Temperature (°C)	18.3	18.0	18.0	19.3			
pH	7.35	7.34	7.52	7.61			
Specific Conductivity (umhos)	523	520	501	493.1			
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: 935 Approx. Depth to Water During Sampling: 9 Feet

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	6	Voa	HCL	40 ml	low	clear	Y	TPH-g, BTEX, 8010	
MW27	1	Amber	None	1 Liter	↓	↓	Y	TPH-d	

Total Purge Volume: 33 Gallons Disposal/Containment Method: Treatment System

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.) no

Problems Encountered During Purging and Sampling: no

Comments:

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW28 Date 7-22-98

Project No: 60966.01.0006 Personnel: Chris Chatburn

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		7.27		17.78		0.16	0.64	1.44	12		36

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 6 GPM

Time	744	746	748	750			
Volume Purges (gal)	0	12	24	36			
Temperature (°C)	19.1	19.9	19.8	18.9			
pH	6.81	7.73	7.76	7.86			
Specific Conductivity (umhos)	919	898	893	887			
Turbidity/Color:	med / cloudy	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: 800 Approx. Depth to Water During Sampling: 9 Feet

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	6	Voa	HCL	40 ml	low	clear	Y	TPH-g, BTEX, 8010	

Total Purge Volume: 36 Gallons Disposal/Containment Method: Treatment System

Weather Conditions: Cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW29 Date 7-22-98

Project No: 60966.01.0006 Personnel: Chris Chatburn

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)
		−		=		X	2	(4)	6		=	
	23.25		6.45		16.8		0.16	0.64	1.44	11		33

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 5.5 GPM

Time	805	807	809	811			
Volume Purges (gal)	0	11	22	33			
Temperature (°C)	19.1	20.2	20.0	19.2			
pH	7.69	7.83	7.89	7.86			
Specific Conductivity (umhos)	673	586	581	678			
Turbidity / Color	med / cloudy	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: 820 Approx. Depth to Water During Sampling: 8 Feet

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	6	Voa	HCL	40 ml	low	clear	Y	TPH-g, BTEX, 8010	
MW29	1	Amber	None	1 Liter	″	″	Y	TPH-d	

Total Purge Volume: 33 Gallons Disposal/Containment Method: Treatment System

Weather Conditions: cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments:

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle | Well No: MW30 | Date: 7-22-98

Project No: 60966.01.0006 | Personnel: Chris Chatburn

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			
	21.00		8.44		12.56		0.16	0.64	1.44	9		27

PURGING DATA

Purge Method: Vacuum Truck | Purge Depth: Screen | Purge Rate: 4.5 GPM

Time	1105	1107	1109	1111			
Volume Purges (gal)	0	9	18	27			
Temperature (°C)	17.4	17.2	17.2	17.1			
pH	7.75	7.75	7.58	7.59			
Specific Conductivity (umhos)	415.2	361.2	353.8	343.8			
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: 1120 | Approx. Depth to Water During Sampling: 10 Feet

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	Y	TPH-g, BTEX	

Total Purge Volume: 27 Gallons | Disposal/Containment Method: Treatment System

Weather Conditions: Cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) NO

Problems Encountered During Purging and Sampling: NO

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW32 Date 7-22-98

Project No: 60966.01.0006 Personnel: Chris Chatburn

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			
	23.10		8.06		15.04		0.16	0.64	1.44	10		30

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 5 GPM

Time	1020	1022	1025	1026			
Volume Purges (gal)	0	10	20	30			
Temperature (°C)	19.0	20.3	20.0	21.0			
pH	7.37	7.54	7.58	7.46			
Specific Conductivity (umhos)	447.3	438.9	447.5	453.3			
Turbidity/Color	low clear	low clear	low clear	low clear			
Odor	N	N	N	No			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	No			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1035 Approx. Depth to Water During Sampling: 10 Feet

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	Y	TPH-g, BTEX	

Total Purge Volume: 30 Gallons Disposal/Containment Method: Treatment System

Weather Conditions: Cloudy

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

Well Head Conditions Requiring Correction (locks, damaged casing or well box, etc.) No

Problems Encountered During Purging and Sampling: No

Comments:

EA Engineering, Science, and Technology

FIELD SUMMARY REPORT

Client	Nestle	**Station No.**	Oakland Facility
EA Project No.	60966.01	**Task No.**	.0006
Field Team	Chris Chatburn		
Date	10-21-98		

No. of Drums on Site: 5 Water ____ Soil 1 Empty ____ LPH ~~7~~ unused carbon 1 used Filters -3/15/98

Summary:

Opened and gauged MW2, MW3, MW25, MW26, MW28 - MW30, and MW32.
Purged at least 3 casing volumes from MW3, MW26, and MW28 with a Vacuum Truck.
Collected groundwater samples from MW3, MW26, and MW28 for TPHg, BTEX, 8010, and TPH-d analysis and mailed via FED EXPRESS TO NESTLE LAB.
Put purgewater through system and the O&M technician for the site was present. The water drums are from cleaning the oil water seperator on a previous date (4-9-98).
Secured the wells and no problems encountered. The system ~~was~~ is running.

MONITORING WELL DATA FORM

Client: Nestle

Date: 10-21-98

Project Number: 60966.01.0006

Station Number: Oakland

Site Location: 1310 14th Street, Oakland, California

Samplers: Chris Chatburn

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		9.74					23.11
MW3		9.19					24.91
MW6		9.03					15.60
MW25		7.86					19.32
MW26		7.64					24.99
MW28		8.43					25.05
MW29		7.65					23.25
MW30		9.60					21.00
MW32		9.35					23.10
MW27		NR					23.80

F:\CTC\FORMS\NEST-DTW.PM5

Note: Total depth of wells recorded during first quarter.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle Well No: MW3 Date 10-21-98

Project No: 60966.01.0006 Personnel: Chris Chatburn

GAUGING DATA

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

	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter			Casing Volume (gal)		Total Req'd Purge Volume (gal)
WELL VOLUME CALCULATION	24.91	−	9.19	=	15.72	X	2	(4)	6	10.07	=	30.21
							0.16	0.64	1.44			

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 3.3-3.7 GPM

Time	925	928	931	934			
Volume Purges (gal)	0	10	20	31			
Temperature (°C)	20.9	21.4	21.3	21.2			
pH	7.86	7.83	7.83	7.90			
Specific Conductivity (umhos)	.914	.933	.916	.910			
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: 943 Approx. Depth to Water During Sampling: 10 Feet

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	6	Voa	HCL	40 ml	low	clear	Y	TPH-g, BTEX, 8010	
MW3	1	Amber	None	1 Liter	↓	↓	Y	TPH-d	

Total Purge Volume: 31 Gallons Disposal/Containment Method: Treatment System

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.) NO

Problems Encountered During Purging and Sampling: NO

Comments:

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle | Well No: MW26 | Date: 10-21-98

Project No: 60966.01.0006 | Personnel: Chris Chatburn

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			
	24.99		7.64		17.35		0.16	0.64	1.44	11.11		33.33

PURGING DATA

Purge Method: Vacuum Truck | Purge Depth: Screen | Purge Rate: 4-5 GPM

Time	845	848	851	853			
Volume Purges (gal)	0	12	24	34			
Temperature (°C)	19.5	19.3	19.7	19.4			
pH	7.52	7.70	7.70	7.75			
Specific Conductivity (umhos)	.961	.979	.972	.967			
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: 900 | Approx. Depth to Water During Sampling: 8 Feet

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	6	Voa	HCL	40 ml	low	clear	Y	TPH-g, BTEX, 8010	
MW26	1	Amber	None	1 Liter	↓	↓	Y	TPH-d	

Total Purge Volume: 34 Gallons | Disposal/Containment Method: Treatment System

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.) no

Problems Encountered During Purging and Sampling: no

Comments: _____

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Nestle | Well No: MW28 | Date: 10-21-98

Project No: 60966.01.0006 | Personnel: Chris Chatburn

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		8.13		19.57		0.16	0.64	1.44	12.53		37.59

PURGING DATA

Purge Method: Vacuum Truck | Purge Depth: Screen | Purge Rate: 4-4.3 GPM

Time	820	823	826	829			
Volume Purges (gal)	0	13	26	38			
Temperature (°C)	19.0	19.9	19.9	20.0			
pH	5.85	6.60	6.69	6.78			
Specific Conductivity (umhos)	.884	.851	.853	.870			
Turbidity / Color	mod 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: 835 | Approx. Depth to Water During Sampling: 9 Feet

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	6	Voa	HCL	40 ml	low	clear	Y	TPH-g, BTEX, 8010	
↓	3	amber	NP	1L	↓	↓	↓	TPH-g	

Total Purge Volume: 38 Gallons | Disposal/Containment Method: Treatment System

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.) no

Problems Encountered During Purging and Sampling: no

Comments: _____

Appendix B

Laboratory Analytical Reports

Nestlé USA

P.O. BOX 1516
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Sample Description: Water-Oakland, CA
Sample ID: MW2
7/22/98 1010
PO/Ref/Disp#: 60966.01

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213406
Lab#: 98JUL8467-01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	ND	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.
This report shall not be reproduced except in full, and with written approval of NQAL.

John Heuser
Chemist

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213408
Lab#: 98JUL8467-02

Sample Description: Water-Oakland, CA
Sample ID: MW3
7/22/98 1100
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	3.60	mg/L	0.05	CA-Luft	8/4/98
Diesel Range Organics	0.37	mg/L	0.25	CA-Luft	8/14/98
Benzene	1800	µg/L	0.50	EPA 8020	8/4/98
Toluene	230	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	160	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	130	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	52.0	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	180	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	5.00	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

P.O. BOX 1518
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213409
Lab#: 98JUL8467-03

Sample Description: Water-Oakland, CA
Sample ID: MW6
7/22/98 950
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	8/14/98
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	ND	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213410
Lab#: 98JUL8467-04

Sample Description: Water-Oakland, CA
Sample ID: MW25
7/22/98 840
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	8/14/98
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	24.0	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

P.O BOX 1516
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526-5000
FAX (614) 526-5353

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213411
Lab#: 98JUL8467-05

Sample Description: Water-Oakland, CA
Sample ID: MW26
7/22/98 915
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	5.20	mg/L	0.05	CA-Luft	8/4/98
Diesel Range Organics	0.75	mg/L	0.25	CA-Luft	8/14/98
Dichlorodifluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Vinyl Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
Bromomethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Trichlorofluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Methylene Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
cis 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethane	10	µg/L	1.0	EPA 8010	8/4/98
Chloroform	ND	µg/L	1.0	EPA 8010	8/4/98
Carbon Tetrachloride	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloroethane	110	µg/L	1.0	EPA 8010	8/4/98
Trichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloropropane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromodichloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
c 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2-Trichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Tetrachloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Dibromochloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromoform	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2,2-Tetrachloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,3-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,4-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213411
Lab#: 98JUL8467-05

Sample Description: Water-Oakland, CA
Sample ID: MW26
7/22/98 915
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Chlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
Benzene	3800	µg/L	0.50	EPA 8020	8/4/98
Toluene	5.70	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	6.90	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	8.90	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	2.10	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	11.0	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	33.0	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Sample Description: Water-Oakland, CA
Sample ID: MW27
7/22/98 935
PO/Ref/Disp#: 60966.01

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213412
Lab#: 98JUL8467-06

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	8/14/98
Dichlorodifluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Vinyl Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
Bromomethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Trichlorofluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Methylene Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
cis 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloroform	ND	µg/L	1.0	EPA 8010	8/4/98
Carbon Tetrachloride	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloroethane	1.4	µg/L	1.0	EPA 8010	8/4/98
Trichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloropropane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromodichloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
c 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2-Trichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Tetrachloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Dibromochloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromoform	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2,2-Tetrachloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,3-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,4-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
Chlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213412
Lab#: 98JUL8467-06

Sample Description: Water-Oakland, CA
Sample ID: MW27
7/22/98 935
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
1,2-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	ND	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213413
Lab#: 98JUL8467-07

Sample Description: Water-Oakland, CA
Sample ID: MW28
7/22/98 800
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Dichlorodifluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Vinyl Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
Bromomethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Trichlorofluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Methylene Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
cis 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloroform	ND	µg/L	1.0	EPA 8010	8/4/98
Carbon Tetrachloride	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloroethane	85	µg/L	1.0	EPA 8010	8/4/98
Trichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloropropane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromodichloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
c 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2-Trichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Tetrachloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Dibromochloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromoform	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2,2-Tetrachloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,3-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,4-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
Chlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213413
Lab#: 98JUL8467-07

Sample Description: Water-Oakland, CA
Sample ID: MW28
7/22/98 800
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	18.0	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

P.O. BOX 1516
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Sample Description: Water-Oakland, CA
Sample ID: MW29
7/22/98 820
PO/Ref/Disp#: 60966.01

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213414
Lab#: 98JUL8467-08

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	8/14/98
Dichlorodifluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Vinyl Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
Bromomethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Trichlorofluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Methylene Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
cis 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethane	12	µg/L	1.0	EPA 8010	8/4/98
Chloroform	ND	µg/L	1.0	EPA 8010	8/4/98
Carbon Tetrachloride	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloroethane	29	µg/L	1.0	EPA 8010	8/4/98
Trichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloropropane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromodichloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
c 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2-Trichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Tetrachloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Dibromochloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromoform	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2,2-Tetrachloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,3-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,4-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Sample Description: Water-Oakland, CA
Sample ID: MW29
7/22/98 820
PO/Ref/Disp#: 60966.01

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213414
Lab#: 98JUL8467-08

Test	Result	Units	DetLim	Method	Analysis Date
Chlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	7.80	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

P.O BOX 1516
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213415
Lab#: 98JUL8467-09

Sample Description: Water-Oakland, CA
Sample ID: MW30
7/22/98 1120
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	ND	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

P O BOX 1516
6625 EITERMAN ROAD
DUBLIN, OH 43017-8516
TEL (614) 526-6000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Sample Description: Water-Oakland, CA
Sample ID: MW32
7/22/98 1035
PO/Ref/Disp#: 60966.01

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213416
Lab#: 98JUL8467-10

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	2.30	mg/L	0.05	CA-Luft	8/4/98
Benzene	700	µg/L	0.50	EPA 8020	8/4/98
Toluene	55.0	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	88.0	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	58.0	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	8.30	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	66.0	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	14.0	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 213417
Lab#: 98JUL8467-11

Sample Description: Water-Oakland, CA
Sample ID: Rinse Blank
7/22/98 1005
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	8/14/98
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	ND	µg/L	0.50	EPA 8020	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

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

TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 214965
Lab#: 98JUL8467-12

Sample Description: Water-Oakland, CA
Sample ID: Trip Blank
7/22/98
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	8/4/98
Benzene	ND	µg/L	0.50	EPA 8020	8/4/98
Toluene	ND	µg/L	0.50	EPA 8020	8/4/98
Ethylbenzene	ND	µg/L	0.50	EPA 8020	8/4/98
m&p Xylenes	ND	µg/L	0.50	EPA 8020	8/4/98
o-Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Total Xylene	ND	µg/L	0.50	EPA 8020	8/4/98
Methyl t-butyl ether	ND	µg/L	0.50	EPA 8020	8/4/98
Dichlorodifluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Vinyl chloride	ND	µg/L	1.0	EPA 8010	8/4/98
Bromomethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Trichlorofluoromethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
Methylene Chloride	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
cis 1,2-Dichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1-Dichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Chloroform	ND	µg/L	1.0	EPA 8010	8/4/98
Carbon Tetrachloride	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Trichloroethene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichloropropane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromodichloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
c 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
t 1,3-Dichloropropene	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2-Trichloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
Tetrachloroethene	ND	µg/L	1.0	EPA 8010	8/4/98

Nestlé USA

P.O. BOX 1516
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

cc: Doug Oram

Date Sampled 7/22/98
Date Received: 7/24/98
Date Reported: 8/17/98
Report Number: 214965
Lab#: 98JUL8467-12

Sample Description: Water-Oakland, CA
Sample ID: Trip Blank
7/22/98
PO/Ref/Disp#: 60966.01

Test	Result	Units	DetLim	Method	Analysis Date
Dibromochloromethane	ND	µg/L	1.0	EPA 8010	8/4/98
Bromoform	ND	µg/L	1.0	EPA 8010	8/4/98
1,1,2,2-Tetrachloroethane	ND	µg/L	1.0	EPA 8010	8/4/98
1,3-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,4-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
1,2-Dichlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98
Chlorobenzene	ND	µg/L	1.0	EPA 8010	8/4/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.
This report shall not be reproduced except in full, and with written approval of NQAL.
Nestle Confidential: This document is the property of Nestle USA, Inc.

John Heuser
Chemist

Company Name: NESTLE

Report Manager or Contact: DOUG CRAM (949) Phone: 283-7007 ex. 205

Project No. 60946.01

Project Name: NESTLE

Dept.: 21C1 Task: 0006

Sample Storage Location: EA COOLER/REFRIGERATOR

ATO Number:

Page 1 of 1

Report #.

Parameter/Analytical Numbers for Analysis

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	TPHg (BTEX)	8010	TPH-d	REPORT LIMIT 24 HOUR	EA Labs Accession Number	Remarks
7/22/98	1010	X		MW2	3	X					LPM: 8467-01
	1100	X		MW3	4	X		X			Project Summary No.: 02
	950	X		MW6	4	X		X			03
	840	X		MW25	4	X		X			04
	915	X		MW26	7	X	X	X			05
	935	X		MW27	7	X	X	X			06
	800	X		MW28	6	X	X				07
	820	X		MW29	7	X	X	X			08
	1120	X		MW30	3	X					09
	1035	X		MW32	3	X					10
	1005	X		RINSATE BLANK	4	X		X			11
↓	NR	X		TRIP BLANK	2	X					HOLD (CHECK WITH DOUG CRAM) DO NOT LOG IN ON 7-24-98

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

Report Deliverables: 1 2 3 4 D E

EDD: Yes/No

DUE TO CLIENT: STANDARD

98 Jul

Sampled by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	7-23-98 1430			Vicki D. Holloway	7/24/98 10:20 AM
Relinquished by: (Signature)	**Date/Time**	**Received by Laboratory: (Signature)**	**Date/Time**	**Airbill Number:**	**Sample Shipped by: (Circle)**
					Fed Ex. Puro. UPS
					Hand Carried
					Other:

Cooler Temp. 8.1 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*

Nestlé USA

P O BOX 1515
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 626-5000
FAX (614) 626-5353

Nestlé

Amended Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

Doug Oram - EA Engineering

Sample Description: Water - Oakland
Sample ID: MW3
10/21/98 9:43
PO/Ref/Disp#: Proj#60966.01 /2161/0006

Date Sampled 10/21/98
Date Received: 10/22/98
Date Reported: 11/5/98
Report Number: 218827
Lab#: 98OCT8440-01

Test	Result	Units	DetLim	Method	Analysis Date
Benzene	78.0	µg/L	0.5	EPA 8020	11/2/98
Toluene	1.00	µg/L	0.5	EPA 8020	11/2/98
Ethylbenzene	3.80	µg/L	0.5	EPA 8020	11/2/98
m&p Xylenes	ND	µg/L	0.5	EPA 8020	11/2/98
o-Xylene	0.6	µg/L	0.5	EPA 8020	11/2/98
Total Xylene	0.6	µg/L	0.5	EPA 8020	11/2/98
Methyl t-butyl ether	ND	µg/L	0.5	EPA 8020	11/2/98
Gasoline Range Organics	0.11	mg/L	0.05	CA-Luft	11/2/98
Dichlorodifluoromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Vinyl chloride	ND	µg/L	0.5	EPA 8010	10/28/98
Bromomethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Trichlorofluoromethane	ND	µg/L	0.5	EPA 8010	10/28/98
1,1-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
Methylene Chloride	ND	µg/L	0.5	EPA 8010	10/28/98
t 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
cis 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
1,1-Dichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloroform	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,1-Trichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Carbon Tetrachloride	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichloroethane	0.6	µg/L	0.5	EPA 8010	10/28/98
Trichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichloropropane	ND	µg/L	0.5	EPA 8010	10/28/98
Bromodichloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
c 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	10/28/98
t 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,2-Trichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98

Nestlé USA

P.O. BOX 1518
6625 SITERMAN ROAD
DUBLIN, OH 43017-0518
TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Amended Laboratory Report

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

Doug Oram - EA Engineering

Sample Description: Water - Oakland
Sample ID: MW3
10/21/98 9:43
PO/Ref/Disp#: Proj#60966.01 /2161/0006

Date Sampled 10/21/98
Date Received: 10/22/98
Date Reported: 11/5/98
Report Number: 218827
Lab#: 98OCT8440-01

Test	Result	Units	DetLim	Method	Analysis Date
Tetrachloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
Dibromochloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Bromoform	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,2,2-Tetrachloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
1,3-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
1,4-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
Chlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	10/30/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

P.O. BOX 1519
6625 BUTTERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526 6000
FAX (614) 526 5353

Nestlé

Amended Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

Doug Oram - EA Engineering

Sample Description: Water - Oakland
Sample ID: MW26
10/21/98 9:00
PO/Ref/Disp#: Proj#60966.01 /2161/0006

Date Sampled 10/21/98
Date Received: 10/22/98
Date Reported: 11/5/98
Report Number: 218828
Lab#: 98OCT8440-02

Test	Result	Units	DetLim	Method	Analysis Date
Benzene	420	µg/L	0.5	EPA 8020	11/2/98
Toluene	ND	µg/L	0.5	EPA 8020	11/2/98
Ethylbenzene	2.10	µg/L	0.5	EPA 8020	11/2/98
m&p Xylenes	2.70	µg/L	0.5	EPA 8020	11/2/98
o-Xylene	ND	µg/L	0.5	EPA 8020	11/2/98
Total Xylene	2.70	µg/L	0.5	EPA 8020	11/2/98
Methyl t-butyl ether	31.0	µg/L	0.5	EPA 8020	11/2/98
Gasoline Range Organics	0.82	mg/L	0.05	CA-Luft	11/2/98
Dichlorodifluoromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Vinyl chloride	ND	µg/L	0.5	EPA 8010	10/28/98
Bromomethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Trichlorofluoromethane	ND	µg/L	0.5	EPA 8010	10/28/98
1,1-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
Methylene Chloride	ND	µg/L	0.5	EPA 8010	10/28/98
t 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
cis 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
1,1-Dichloroethane	24	µg/L	0.5	EPA 8010	10/28/98
Chloroform	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,1-Trichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Carbon Tetrachloride	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichloroethane	82	µg/L	0.5	EPA 8010	10/29/98
Trichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichloropropane	ND	µg/L	0.5	EPA 8010	10/28/98
Bromodichloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
c 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	10/28/98
t 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,2-Trichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98

Nestlé USA

P.O. BOX 1516
6625 BITTERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526-6000
FAX (614) 526-5063

Nestlé

Amended Laboratory Report

QUALITY ASSURANCE LABORATORY

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

Doug Oram - EA Engineering

Sample Description: Water - Oakland
Sample ID: MW26
10/21/98 9:00
PO/Ref/Disp#: Proj#60966.01 /2161/0006

Date Sampled 10/21/98
Date Received: 10/22/98
Date Reported: 11/5/98
Report Number: 218828
Lab#: 98OCT8440-02

Test	Result	Units	DetLim	Method	Analysis Date
Tetrachloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
Dibromochloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Bromoform	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,2,2-Tetrachloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
1,3-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
1,4-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
Chlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	10/30/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

PO BOX 1616
6625 EHRMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526-5000
FAX (614) 526-5252

Nestlé

QUALITY ASSURANCE LABORATORY

Amended Laboratory Report

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

Doug Oram - EA Engineering

Sample Description: Water - Oakland
Sample ID: MW28
10/21/98 8:35
PO/Ref/Disp#: Proj#60966.01 /2161/0006

Date Sampled 10/21/98
Date Received: 10/22/98
Date Reported: 11/5/98
Report Number: 218829
Lab#: 98OCT8440-03

Test	Result	Units	DetLim	Method	Analysis Date
Benzene	ND	µg/L	0.5	EPA 8020	11/2/98
Toluene	ND	µg/L	0.5	EPA 8020	11/2/98
Ethylbenzene	ND	µg/L	0.5	EPA 8020	11/2/98
m&p Xylenes	ND	µg/L	0.5	EPA 8020	11/2/98
o-Xylene	ND	µg/L	0.5	EPA 8020	11/2/98
Total Xylene	ND	µg/L	0.5	EPA 8020	11/2/98
Methyl t-butyl ether	12.0	µg/L	0.5	EPA 8020	11/2/98
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	11/2/98
Dichlorodifluoromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Vinyl chloride	ND	µg/L	0.5	EPA 8010	10/28/98
Bromomethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Trichlorofluoromethane	ND	µg/L	0.5	EPA 8010	10/28/98
1,1-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
Methylene Chloride	ND	µg/L	0.5	EPA 8010	10/28/98
t 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
cis 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
1,1-Dichloroethane	0.5	µg/L	0.5	EPA 8010	10/28/98
Chloroform	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,1-Trichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Carbon Tetrachloride	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichloroethane	80	µg/L	0.5	EPA 8010	10/29/98
Trichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichloropropane	ND	µg/L	0.5	EPA 8010	10/28/98
Bromodichloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
c 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	10/28/98
t 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,2-Trichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98

Nestlé USA

P.O. BOX 1016
6625 EITERMAN ROAD
DUBLIN, OH 43017-6516
TEL (614) 526-6000
FAX (614) 526-5363

Nestlé

QUALITY ASSURANCE LABORATORY

Amended Laboratory Report

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

Doug Oram - EA Engineering

Sample Description: Water - Oakland
Sample ID: MW28
10/21/98 8:35
PO/Ref/Disp#: Proj#60966.01 /2161/0006

Date Sampled 10/21/98
Date Received: 10/22/98
Date Reported: 11/5/98
Report Number: 218829
Lab#: 98OCT8440-03

Test	Result	Units	DetLim	Method	Analysis Date
Tetrachloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
Dibromochloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Bromoform	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,2,2-Tetrachloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
1,3-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
1,4-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
Chlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	10/30/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Nestlé USA

P.O. BOX 1515
6625 ENTERMAN ROAD
DUBLIN, OH 43017-0515
TEL (614) 526-5000
FAX (614) 526-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Amended Laboratory Report

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

Doug Oram - EA Engineering

Sample Description: Water - Oakland
Sample ID: Trip Blank
10/21/98 None
PO/Ref/Disp#: Proj#60966.01 /2161/0006

Date Sampled 10/21/98
Date Received: 10/22/98
Date Reported: 11/5/98
Report Number: 218830
Lab#: 98OCT8440-04

Test	Result	Units	DetLim	Method	Analysis Date
Benzene	ND	µg/L	0.5	EPA 8020	10/29/98
Toluene	ND	µg/L	0.5	EPA 8020	10/29/98
Ethylbenzene	ND	µg/L	0.5	EPA 8020	10/29/98
m&p Xylenes	ND	µg/L	0.5	EPA 8020	10/29/98
o-Xylene	ND	µg/L	0.5	EPA 8020	10/29/98
Total Xylene	ND	µg/L	0.5	EPA 8020	10/29/98
Methyl t-butyl ether	ND	µg/L	0.5	EPA 8020	10/29/98
Gasoline Range Organics	ND	mg/L	0.05	CA-Luft	10/29/98
Dichlorodifluoromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Vinyl chloride	ND	µg/L	0.5	EPA 8010	10/28/98
Bromomethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Trichlorofluoromethane	ND	µg/L	0.5	EPA 8010	10/28/98
1,1-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
Methylene Chloride	ND	µg/L	0.5	EPA 8010	10/28/98
t 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
cis 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
1,1-Dichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Chloroform	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,1-Trichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Carbon Tetrachloride	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
Trichloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichloropropane	ND	µg/L	0.5	EPA 8010	10/28/98
Bromodichloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
c 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	10/28/98
t 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,2-Trichloroethane	ND	µg/L	0.5	EPA 8010	10/28/98

Nestlé USA

P O BOX 1618
6625 FITTMAN ROAD
DUBLIN OH 43017-6516
TEL (614) 526-6000
FAX (614) 526-6353

Nestlé

QUALITY ASSURANCE LABORATORY

Amended Laboratory Report

Binayak Acharya
Nestle USA - Environmental Group
Glendale, CA 91203

Doug Oram - EA Engineering

Sample Description: Water - Oakland
Sample ID: Trip Blank
10/21/98 None
PO/Ref/Disp#: Proj#60966.01 /2161/0006

Date Sampled 10/21/98
Date Received: 10/22/98
Date Reported: 11/5/98
Report Number: 218830
Lab#: 98OCT8440-04

Test	Result	Units	DetLim	Method	Analysis Date
Tetrachloroethene	ND	µg/L	0.5	EPA 8010	10/28/98
Dibromochloromethane	ND	µg/L	0.5	EPA 8010	10/28/98
Bromoform	ND	µg/L	0.5	EPA 8010	10/28/98
1,1,2,2-Tetrachloroethane	ND	µg/L	0.5	EPA 8010	10/28/98
1,3-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
1,4-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
1,2-Dichlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98
Chlorobenzene	ND	µg/L	0.5	EPA 8010	10/28/98

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 90 days from from the date of this report.
Sample condition upon receipt: Good.

John Heuser
Chemist

Chain of Custody Record

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

Company Name: NESTLE	Project Manager or Contact: DOUG ORAM Phone: 925-283-7077
Project No. 609966.01 Dept.: 2161 Task: 0006	Project Name: NESTLE
Sample Storage Location: EA COOLER/REFRIGERATOR	ATO Number:
Page 1 of 1	Report #.

Report Deliverables: 1 2 3 4 D E

EDD: Yes/No

DUE TO CLIENT: STANDARD TAT

Date	Time	Water	Soil	Sample Identification 19 Characters	No. of Containers	TPH-g BTEX	8010	TPH-d	98 Oct	EA Labs Accession Number	Remarks
10/21/98	943	X		MW3	7	X	X	X	8440-01		LPM:
1	900	X		MW26	7	X	X	X	02		Project Summary No.:
	835	X		MW28	7	X	X	X	03		
↓	NONE	X		TRIPBLANK	2	X			04		

Sampled by: (Signature)	Date/Time 10-21-98 1610	Relinquished by: (Signature) Nancy Conquest	Date/Time 10/22/98	Received by: (Signature) 9:30AM	Date/Time
Relinquished by: (Signature)	Date/Time	Received by Laboratory: (Signature)	Date/Time	Airbill Number:	Sample Shipped by: (Circle) Fed Ex. Puro. UPS Hand Carried Other:

Cooler Temp. 9.1 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*