

ENVIRONMENTAL
FILE COLLECTION
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**Report of Quarterly Sampling and Analysis
Nestle USA, Inc.
Former Carnation Dairy Facility
1310 14th Street
Oakland, California**

Prepared for
Nestle USA, Inc.

Prepared by
EA Engineering, Science, and Technology

February 1996

60966.01

NESTLÉ USA, INC.

RECEIVED
95 FEB 23 1996
- 800 NORTH BRAND BLVD
GLENDALE, CA 91203
ENVIRONMENTAL STRATEGY/PLANNING

February 23, 1996

Department of Environmental Health
UST Local Oversight Program
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Attn.: Jennifer Eberle

**Ref.: Fourth Quarter 1995, Groundwater Monitoring Report
Nestlé Food Company (Former Carnation Dairy Facility)
1310 14th Street, Oakland, CA 94607**

Dear Ms. Eberle:

Enclosed is the Fourth Quarter 1995, Groundwater Monitoring Report for the above referenced facility. Per our plans that we discussed during our meeting, NAPL recovery tests on 18 wells have been completed. We will forward you a report with an action plan as soon as we complete the review of the data gathered during the test.

Should you have any questions, please contact me at (818) 549-5948.

With Regards,



Binayak P. Acharya
Senior Environmental Engineer

cc: Celeste Miller - 15 W/O
Mark Litzau - EA Engineering W/O

Oakland/gw4.1995

Report of Quarterly Sampling and Analysis
Nestle USA, Inc.
Former Carnation Dairy Facility
1310 14th Street
Oakland, California

Prepared for

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

Prepared by

EA Engineering, Science, and Technology
3468 Mt. Diablo Boulevard, Suite B-100
Lafayette, California 94549
(510) 283-7077

Mark C. Litzau

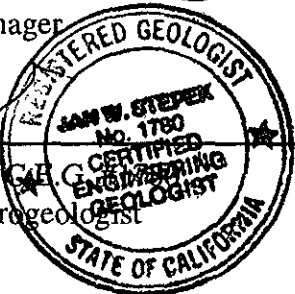
Mark C. Litzau
Project Manager

2-21-96

Date

Jan Stepek

Jan Stepek, C.E.G.
Senior Hydrogeologist



21 Feb. 1996

Date

SITE CONTACTS

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Oakland, California

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Lafayette, California 94549
(510) 283-7077

EA Project Manager: Mark C. Litzau

Regulatory Oversight: Jennifer Eberle
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 former Carnation facility at 1310 14th Street, Oakland, California. A site location map is shown in Figure 1. EA has prepared this report of quarterly groundwater sampling and analysis for the fourth quarter of 1995. This report contains a summary of groundwater monitoring and sampling procedures, and analytical results.

On 6 December 1995, groundwater in all vapor extraction, groundwater extraction, and groundwater monitoring wells was gauged and monitored for non-aqueous phase liquid (NAPL) with an optical oil/water interface probe. A NAPL recharge test was conducted on all wells where NAPL was detected.

On 12 December 1995, 10 groundwater monitoring wells (MW-2, MW-3, MW-6, MW-25 through MW-30, and MW-32) were gauged and monitored for NAPL with an optical oil/water interface probe, and groundwater samples were collected from the wells. All samples were analyzed for petroleum hydrocarbons, and the samples from two wells (MW-26, MW-32) were also analyzed for halogenated volatile organics (HVOCs).

2. PROCEDURES

2.1 Gauging of NAPL/NAPL Recharge Test

The wells were gauged with an interface probe capable of distinguishing between NAPL and groundwater to determine the thickness of NAPL. After gauging, a NAPL recharge test was performed by the following method. A semi-rigid tube was inserted into the well at the estimated NAPL level. The NAPL was purged with a peristaltic pump, and the volume was registered. After the initial NAPL removal, the well was gauged periodically to determine if NAPL recharged the well. NAPL was temporarily stored in 55-gallon drums with secondary containment to await proper disposal.

2.2 Purging and Sampling

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

field-prepared sampling equipment rinse 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 Nestle Quality Assurance Laboratory (NQAL), where they were analyzed for gasoline-range organics (GRO) and diesel-range organics (DRO) by the California DOHS method found in the LUFT Field Manual, October 1989. Samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 602. Groundwater samples collected from MW-26 and MW-32 were also analyzed for HVOCs by EPA Method 8010.

3. RESULTS

3.1 NAPL Monitoring

On 6 December, a total of 128 wells (Figure 2) were gauged to monitor for the presence of NAPL. A total of 18 groundwater monitoring, vapor extraction, and/or groundwater extraction wells contained NAPL. NAPL was removed when the thickness was greater than 0.05 feet in these wells. NAPL was subsequently removed from 14 wells. The wells were allowed to recharge over a 5-day period. NAPL recovered to its original thickness in 6 of the 14 wells, with E-5 having the greatest thickness of NAPL (1.5 feet). NAPL measurements are included in Tables 1 and 2.

3.1 Depth-to-Groundwater Measurements

On 12 December 1995, the depth to groundwater was measured in selected monitoring wells. The depth to groundwater ranged from 7.99 feet (MW-26) to 10.23 feet (MW-2) below ground surface (bgs). Groundwater elevations have generally decreased approximately 0.70 feet since groundwater measurements were taken on 22 September 1995 (Table 1). A groundwater elevation contour map for 12 December 1995 is shown in Figure 3. Field documentation is provided in Appendix A.

3.2 Analyses

Laboratory test results for GRO, DRO, BTEX, and HVOC analyses of groundwater samples collected on 12 December 1995, as well as the results of previous quarterly sampling events since March 1993, are summarized in Table 3. The laboratory analytical report for 12 December is included in Appendix B.

The concentration of benzene in groundwater samples is shown in Figure 4. Benzene was detected in groundwater samples collected from MW-3 (330 ug/L), MW-26 (13,000 ug/L), and MW-32 (230 ug/L). The concentrations of benzene in MW-3 and MW-32 have decreased since the September 1995 sampling event. Benzene has increased in MW-26 since September 1995.

The concentration of GRO in groundwater samples is shown in Figure 5. GRO concentrations were detected in MW-3 (700 ug/L), MW-26 (25,000 ug/L), and MW-32 (500 ug/L). The concentrations of GRO in MW-3 and MW-32 have decreased since the September 1995 sampling event. GRO has increased in MW-26 since September 1995.

HVOCs were detected in MW-32 and MW-26. 1,2-Dichloroethane was detected in MW-32, at a concentration of 28 ug/L. 1,2-Dichloroethane and 1,1-Dichloroethane were detected in MW-26, at concentrations of 180 ug/L and 1.4 ug/L, respectively.

Figures

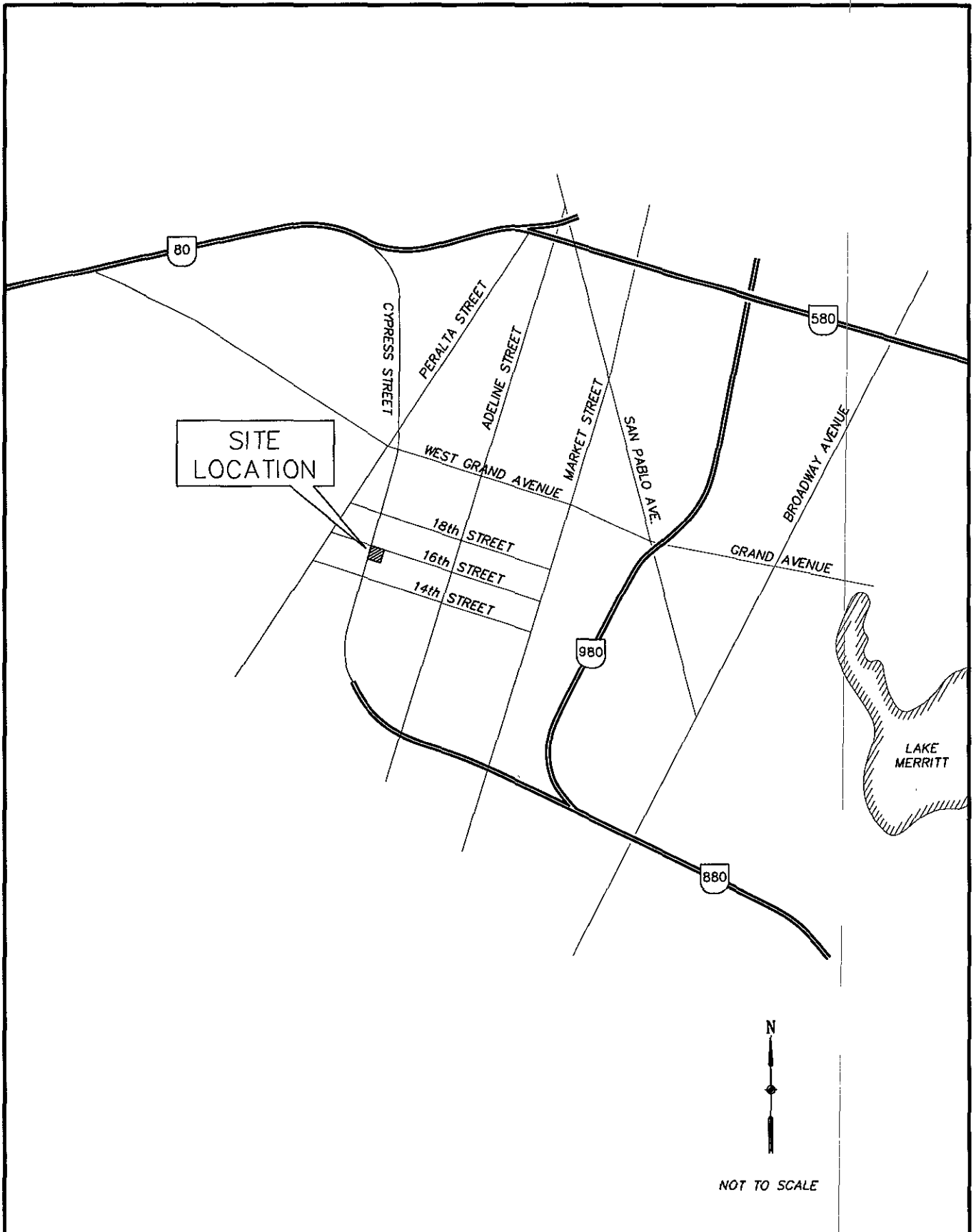


FIGURE 1.
 SITE LOCATION MAP
 NESTLE FACILITY
 OAKLAND, CALIFORNIA

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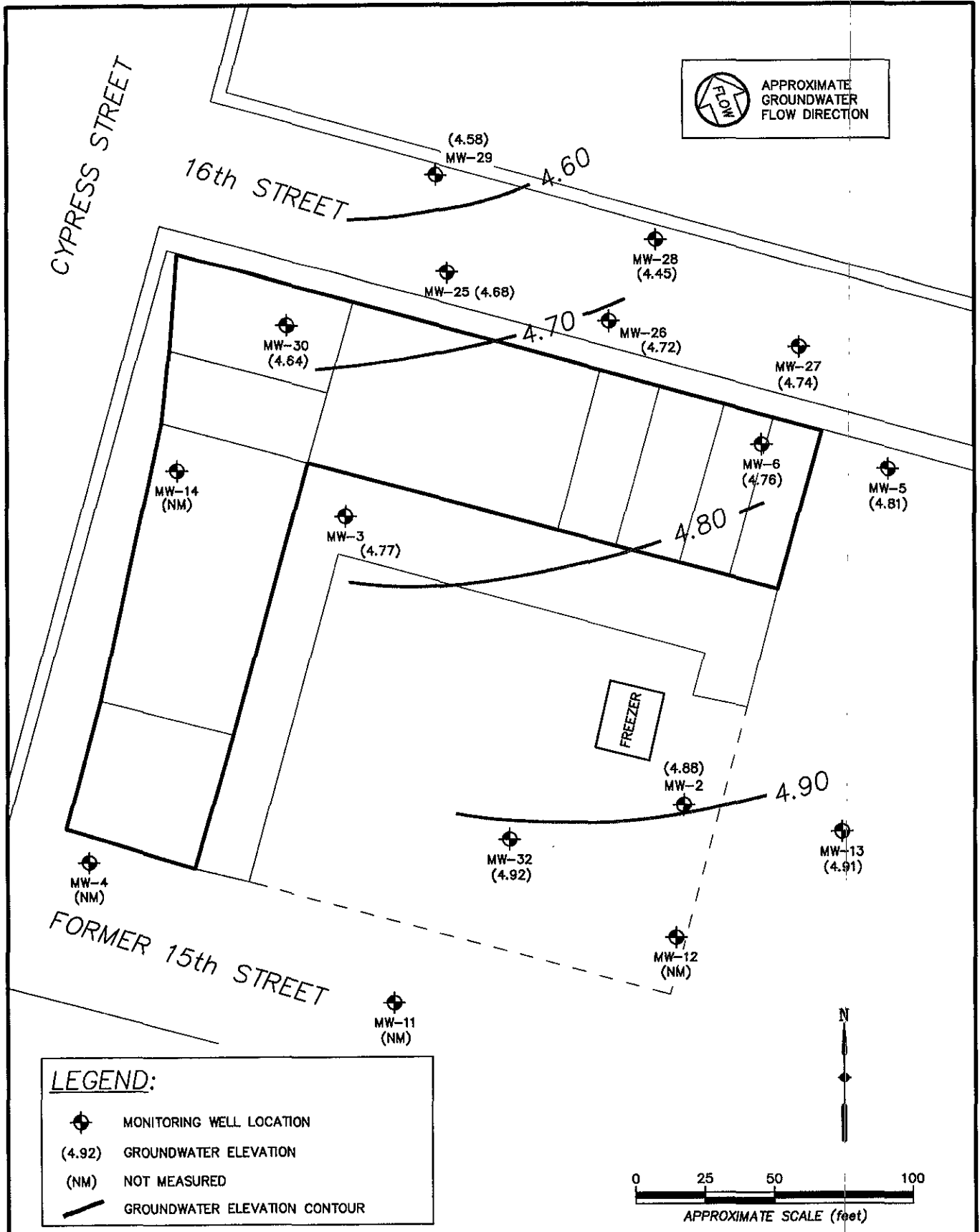
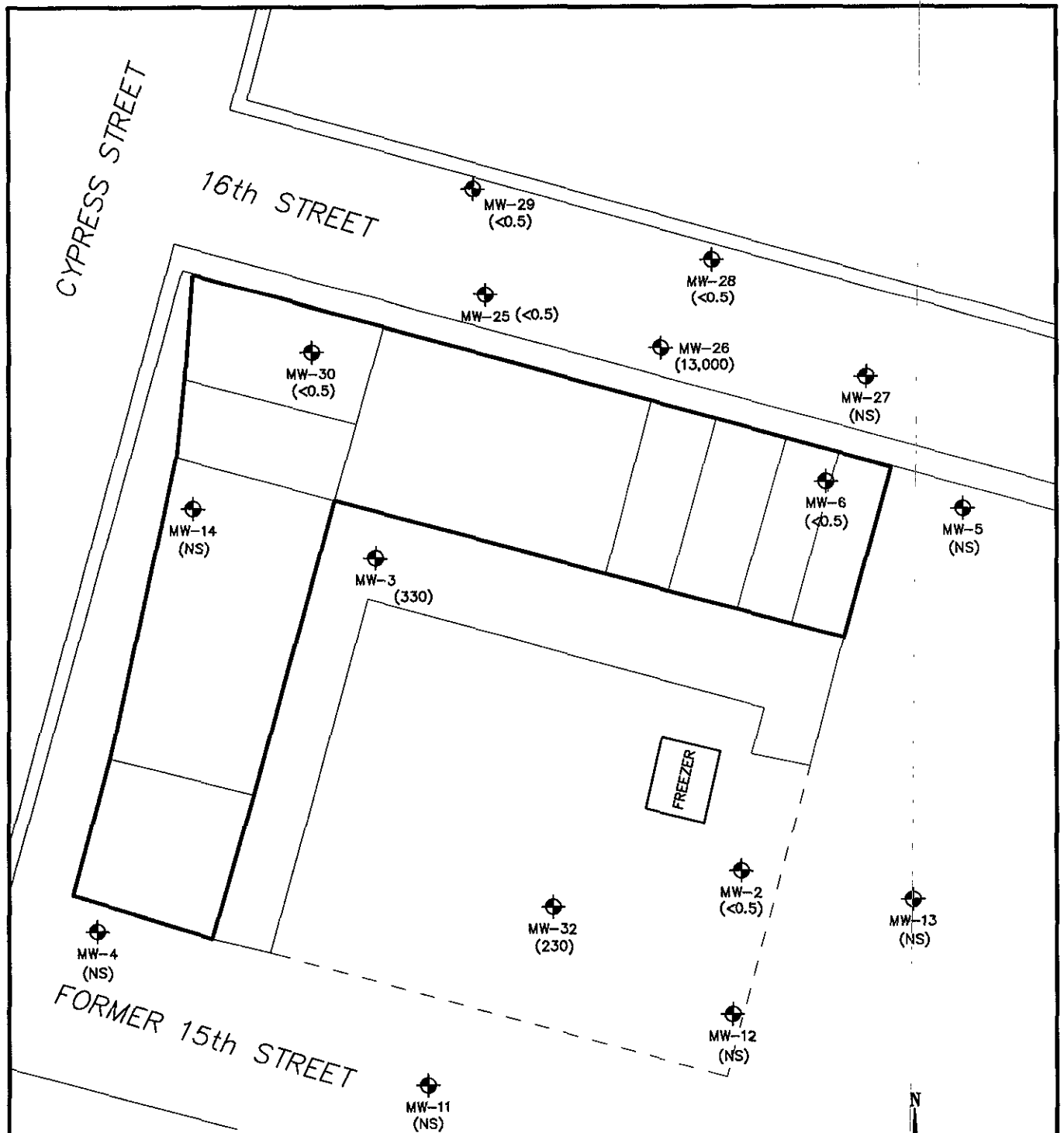



FIGURE 3.
GROUNDWATER ELEVATIONS
NESTLE FACILITY, OAKLAND, CALIFORNIA
12 DECEMBER 1995

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FILE NAME:	NESTLE.DWG	REVIEWED BY:	A. MOORE



LEGEND:

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

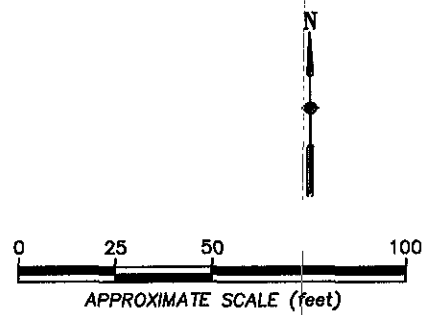
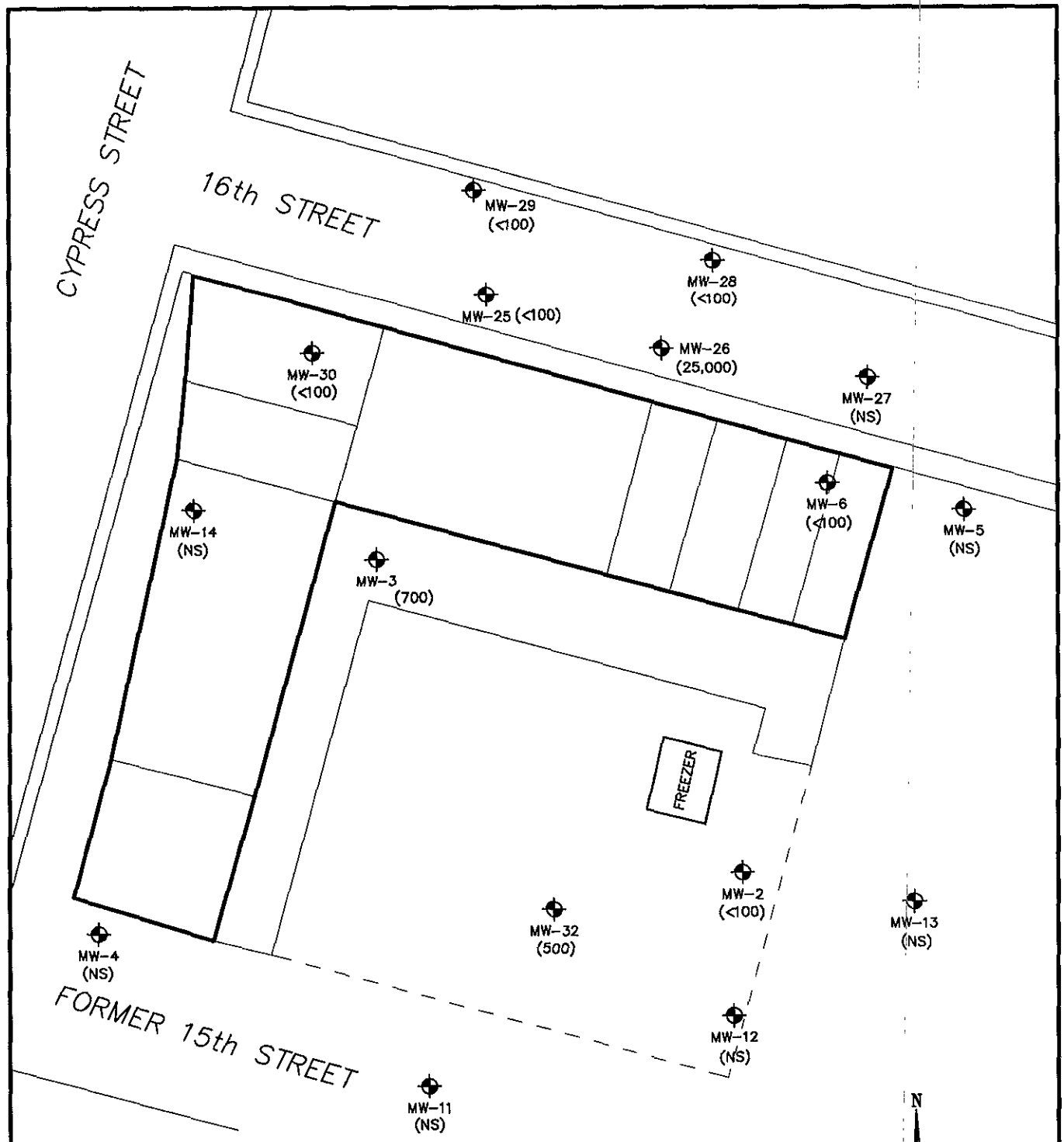


FIGURE 4.
GROUNDWATER SAMPLING
ANALYTICAL RESULTS FOR BENZENE (ug/L)
NESTLE FACILITY, OAKLAND, CALIFORNIA
12 DECEMBER 1995

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LEGEND:



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

FIGURE 5.
GROUNDWATER SAMPLING
ANALYTICAL RESULTS FOR GRO (ug/L)
NESTLE FACILITY, OAKLAND, CALIFORNIA
12 DECEMBER 1995

 EA ENGINEERING, SCIENCE, AND TECHNOLOGY	
FILE NAME: NESTLE.DWG	REVIEWED BY: A. MOORE

Tables

TABLE 1 GAUGING DATA, FEBRUARY 1994 - DECEMBER 1995, NESTLE FACILITY,
1310 14TH STREET, OAKLAND, CALIFORNIA

Well No.	Gauging Date	Time	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	--	16.49	--	8.51	--	7.98
	06/02/94	--	16.49	--	10.83	--	5.66
MW-2	02/24/94	--	15.11	--	9.21	--	5.90
	03/18/94	--	15.11	--	7.47	--	7.64
	06/02/94	--	15.11	--	9.65	--	5.46
	08/31/94	--	15.11	--	10.49	--	4.62
	12/22/94	--	15.11	--	8.74	--	6.37
	03/13/95	--	15.11	--	6.87	--	8.24
	06/09/95	--	15.11	--	8.47	--	6.64
	09/22/95	--	15.11	--	9.42	--	5.69
	12/12/95	--	15.11	--	10.23	--	4.88
	12/18/95	--	15.11	--	9.87	--	5.24
MW-3	02/24/94	--	14.30	--	8.47	--	5.83
	03/18/94	--	14.30	--	7.23	--	7.07
	06/02/94	--	14.30	--	8.93	--	5.37
	08/31/94	--	14.30	--	9.91	--	4.39
	12/22/94	--	14.30	--	8.14	--	6.16
	03/13/95	--	14.30	--	6.64	--	7.66
	06/09/95	--	14.30	--	7.82	--	6.48
	09/22/95	--	14.30	--	9.08	--	5.22
	12/06/95	--	14.30	--	9.97	--	4.33
	12/12/95	--	14.30	--	9.53	--	4.77
	12/18/95	--	14.30	--	9.21	--	5.09
MW-4	02/24/94	--	14.42	--	8.09	--	6.33
	03/18/94	--	14.42	--	7.00	--	7.42
	12/18/95	--	14.42	--	dry	--	--
MW-5	02/24/94	--	14.41	--	8.08	--	6.33
	03/18/94	--	14.41	--	7.14	--	7.27
	06/02/94	--	14.41	--	9.09	--	5.32
	08/31/94	--	14.41	--	9.95	--	4.46
	12/22/94	--	14.41	--	8.22	--	6.19
	03/13/95	--	14.41	--	--	--	--
	06/09/95	--	14.41	--	--	--	--
	09/22/95	--	14.41	--	--	--	--
	12/12/95	--	14.41	--	9.60	--	4.81
	MW-6	02/24/94	--	14.12	--	8.34	--
03/18/94		--	14.12	--	7.04	--	7.08
06/02/94		--	14.12	--	8.88	--	5.24
08/31/94		--	14.12	--	9.65	--	4.47
12/22/94		--	14.12	--	7.99	--	6.13

TABLE 1 (continued)

Well No.	Gauging Date	Time	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-6	03/13/95	--	14.12	--	6.32	--	7.80
	06/09/95	--	14.12	--	8.53	--	5.59
	09/22/95	--	14.12	--	8.63	--	5.49
	12/12/95	--	14.12	--	9.36	--	4.76
	12/18/95	--	14.12	--	9.16	--	4.96
MW-7	02/24/94	--	14.29	8.64	9.78	1.14	4.51
	03/18/94	--	14.29	6.56	9.38	2.82	4.91
	06/02/94	--	14.29	9.12	9.38	0.26	4.91
	08/31/94	--	14.29	9.87	9.88	0.01	4.41
	12/22/94	--	14.29	8.29	8.33	0.04	5.96
	03/13/95	--	14.29	--	6.72	--	7.57
	06/09/95	--	14.29	--	8.79	--	5.50
	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	--	14.20	7.34	7.64	0.30	6.56
	06/02/94	--	14.20	8.93	9.24	0.31	4.96
	08/31/94	--	14.20	9.82	10.13	0.31	4.07
	12/22/94	--	14.20	8.21	8.47	0.26	5.73
	03/13/95	--	14.20	6.77	6.85	0.08	7.35
	06/09/95	--	14.20	8.81	8.90	0.09	5.30
	07/27/95	--	14.20	8.32	8.55	0.23	5.65
	09/22/95	--	14.20	9.29	9.53	0.24	4.67
	12/06/95	--	14.20	9.94	10.18	0.24	4.02
	12/18/95	--	14.20	9.16	9.36	0.20	4.84
	12/18/95	2:20	14.20	--	9.62	--	4.58
	12/18/95	2:57	14.20	--	9.25	--	4.95
	12/19/95	9:00	14.20	9.21	9.30	0.09	4.90
	12/19/95	11:50	14.20	9.34	9.35	0.01	4.85
12/19/95	12:20	14.20	9.25	9.28	0.03	4.92	
12/28/95	9:30	14.20	9.22	9.27	0.05	4.93	
MW-9	06/02/94	--	14.96	--	9.46	--	5.50
MW-10	02/24/94	--	15.73	--	9.59	--	6.14
	03/18/94	--	15.73	--	--	--	--
	06/02/94	--	15.73	--	10.17	--	5.56
MW-11	03/18/94	--	14.55	--	6.95	--	7.60
	06/02/94	--	14.55	--	8.99	--	5.56
	08/31/94	--	14.55	--	9.80	--	4.75
	12/22/94	--	14.55	--	8.15	--	6.40
	03/13/95	--	14.55	--	--	--	--
	06/09/95	--	14.55	--	--	--	--
	09/22/95	--	14.55	--	--	--	--

TABLE 1 (continued)

Well No.	Gauging Date	Time	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-11	12/18/95	--	14.55	--	9.29	--	5.26
MW-12	03/18/94	--	15.28	--	7.62	--	7.66
	12/18/95	--	15.28	--	10.03	--	5.25
MW-13	02/24/94	--	14.85	--	8.94	--	5.91
	03/18/94	--	14.85	--	8.62	--	6.23
	06/02/94	--	14.85	--	9.34	--	5.51
	08/31/94	--	14.85	--	10.15	--	4.70
	12/22/94	--	14.85	--	8.45	--	6.40
	03/13/95	--	14.85	--	--	--	--
	06/09/95	--	14.85	--	--	--	--
	09/22/95	--	14.85	--	--	--	--
	12/12/95	--	14.85	--	9.94	--	4.91
	12/18/95	--	14.85	--	9.60	--	5.25
MW-14	02/24/94	--	14.10	--	dry	--	--
	03/18/94	--	14.10	--	dry	--	--
	12/06/95	--	14.10	--	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	--	14.44	6.98	--	>3.0	--
	06/02/94	--	14.44	9.02	10.16	1.14	4.28
	08/31/94	--	14.44	9.97	10.16	0.19	4.28
	12/22/94	--	14.44	8.39	8.42	0.03	6.02
	03/13/95	--	14.44	--	5.92	--	8.52
	06/09/95	--	14.44	--	8.60	--	5.84
	07/27/95	--	14.44	--	8.49	--	5.95
	09/22/95	--	14.44	9.42	9.74	0.32	4.70
	12/06/95	--	14.44	10.08	10.38	0.30	4.06
12/18/95	--	14.44	--	9.35	--	5.09	
MW-23	02/24/94	--	14.48	8.87	8.94	0.07	5.54
	03/18/94	--	14.48	7.04	8.44	1.40	6.04
	06/02/94	--	14.48	8.21	10.00	1.79	4.48
	08/31/94	--	14.48	9.93	10.61	0.68	3.87
	12/22/94	--	14.48	8.32	8.73	0.41	5.75
	03/13/95	--	14.48	--	5.52	--	8.96
	06/09/95	--	14.48	8.24	8.55	0.31	5.93
	07/27/95	--	14.48	8.43	8.87	0.44	5.61
	09/22/95	--	14.48	9.35	10.06	0.71	4.42

TABLE I (continued)

Well No.	Gauging Date	Time	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-23	12/06/95	--	14.48	--	10.07	--	4.41
	12/18/95	--	14.48	9.40	9.70	0.30	4.78
	12/18/95	17:07	14.48	--	9.89	--	4.59
	12/18/95	17:55	14.48	9.46	9.49	0.03	4.99
	12/19/95	9:00	14.48	9.45	9.55	0.10	4.93
	12/19/95	10:50	14.48	--	9.88	--	4.60
	12/19/95	12:12	14.48	9.48	9.52	0.04	4.96
	12/28/95	9:30	14.48	9.40	9.52	0.12	4.96
MW-24	02/24/94	--	14.67	8.95	--	12.10	--
	03/18/94	--	14.67	7.45	--	>3.0	--
	06/02/94	--	14.67	9.11	10.08	0.97	4.59
	08/31/94	--	14.67	10.19	10.58	0.39	4.09
	12/22/94	--	14.67	--	8.55	--	6.12
	03/13/95	--	14.67	--	6.68	--	7.99
	06/09/95	--	14.67	--	9.54	--	5.13
	09/22/95	--	14.67	9.35	10.76	1.41	3.91
	12/06/95	--	14.67	10.39	10.39	--	4.28
MW-25	02/24/94	--	12.86	--	7.36	--	5.50
	03/18/94	--	12.86	--	6.14	--	6.72
	06/02/94	--	12.86	--	7.93	--	4.93
	08/31/94	--	12.86	--	8.75	--	4.11
	12/22/94	--	12.86	--	7.01	--	5.85
	03/13/95	--	12.86	--	5.77	--	7.09
	06/09/95	--	12.86	--	6.75	--	6.11
	09/22/95	--	12.86	--	7.45	--	5.41
	12/12/95	--	12.86	--	8.18	--	4.68
	12/18/95	--	12.86	--	7.84	--	5.02
MW-26	02/24/94	--	12.71	--	7.21	--	5.50
	03/18/94	--	12.71	--	5.83	--	6.88
	06/02/94	--	12.71	--	7.68	--	5.03
	08/31/94	--	12.71	--	8.47	--	4.24
	12/22/94	--	12.71	--	6.98	--	5.73
	03/13/95	--	12.71	--	5.25	--	7.46
	06/09/95	--	12.71	--	6.47	--	6.24
	09/22/95	--	12.71	--	7.23	--	5.48
	12/12/95	--	12.71	--	7.99	--	4.72
	12/18/95	--	12.71	--	7.69	--	5.02
MW-27	02/24/94	--	14.04	--	8.41	--	5.63
	03/18/94	--	14.04	--	7.23	--	6.81
	06/02/94	--	14.04	--	8.94	--	5.10
	12/22/94	--	14.04	--	--	--	--

TABLE 1 (continued)

Well No.	Gauging Date	Time	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-27	03/13/95	--	14.04	--	--	--	--
	06/09/95	--	14.04	--	--	--	--
	09/22/95	--	14.04	--	--	--	--
	12/12/95	--	14.04	--	9.30	--	4.74
MW-28	02/24/94	--	13.45	--	7.98	--	5.47
	03/18/94	--	13.45	--	6.65	--	6.80
	06/02/94	--	13.45	--	8.28	--	5.17
	08/31/94	--	13.45	--	9.03	--	4.42
	12/22/94	--	13.45	--	6.73	--	6.72
	03/13/95	--	13.45	--	5.93	--	7.52
	06/09/95	--	13.45	--	7.20	--	6.25
	09/22/95	--	13.45	--	8.37	--	5.08
	12/12/95	--	13.45	--	9.00	--	4.45
	12/18/95	--	13.45	--	8.44	--	5.01
MW-29	02/24/94	--	12.60	--	7.20	--	5.40
	03/18/94	--	12.60	--	5.82	--	6.78
	06/02/94	--	12.60	--	7.62	--	4.98
	08/31/94	--	12.60	--	8.44	--	4.16
	12/22/94	--	12.60	--	7.00	--	5.60
	03/13/95	--	12.60	--	5.55	--	7.05
	06/09/95	--	12.60	--	6.59	--	6.01
	09/22/95	--	12.60	--	7.58	--	5.02
	12/12/95	--	12.60	--	8.02	--	4.58
	12/18/95	--	12.60	--	7.76	--	4.84
MW-30	02/24/94	--	14.54	--	8.95	--	5.59
	03/18/94	--	14.54	--	7.79	--	6.75
	06/02/94	--	14.54	--	9.47	--	5.07
	08/31/94	--	14.54	--	10.27	--	4.27
	12/22/94	--	14.54	--	8.64	--	5.90
	03/13/95	--	14.54	--	7.23	--	7.31
	06/09/95	--	14.54	--	8.34	--	6.20
	09/22/95	--	14.54	--	9.41	--	5.13
	12/06/95	--	14.54	--	10.35	--	4.19
	12/12/95	--	14.54	--	9.90	--	4.64
12/18/95	--	14.54	--	9.55	--	4.99	
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	--	14.76	--	7.25	--	7.51
	06/02/94	--	14.76	--	9.28	--	5.48
	08/31/94	--	14.76	--	10.12	--	4.64
	12/22/94	--	14.76	--	8.40	--	6.36

TABLE 1 (continued)

Well No.	Gauging Date	Time	TOC Elevation (ft)	TOC Depth to Product (ft)	TOC Depth to Water (ft)	Product Thickness (ft)	Water Table Elevation (ft msl)
MW-32	03/13/95	--	14.76	--	6.63	--	8.13
	06/09/95	--	14.76	--	7.94	--	6.82
	09/22/95	--	14.76	--	9.32	--	5.44
	12/12/95	--	14.76	--	9.84	--	4.92
	12/18/95	--	14.76	--	9.53	--	5.23

TABLE 2 PRODUCT THICKNESS, NOVEMBER 1993 - DECEMBER 1995, NESTLE FACILITY, 1310 14TH STREET, OAKLAND, CALIFORNIA

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
MW-7	0.79	1.14	2.82	0.26	0.01	0.04	ND	ND	--	0.21	--
MW-8	0.47	0.44	0.30	0.31	0.31	0.26	0.08	0.09	0.23	0.24	0.24
MW-22	1.83	1.54	>3.0	1.14	0.19	0.03	ND	ND	ND	0.32	0.30
MW-23	1.21	0.07	1.40	1.79	0.68	0.41	ND	0.31	0.44	0.71	0.30
MW-24	1.77	12.10	>3.0	0.97	0.39	ND	ND	ND	--	1.41	ND
E-0	--	--	--	--	--	--	--	--	2.72	--	ND
E-1	--	--	--	--	--	--	--	--	--	--	0.27
E-5	--	--	--	--	--	--	--	--	--	--	1.50
E-6	--	--	--	--	--	--	--	--	0.08	--	ND
E-8	--	--	--	--	--	--	--	--	0.10	--	0.42
PR-20	0.91	1.15	3.41	1.45	0.88	1.04	0.14	0.16	2.54	1.12	ND
PR-21	0.63	--	2.76	1.39	0.42	2.01	4.11	2.42	1.93	0.70	0.60
PR-22	0.98	1.43	>3.0	0.90	0.47	0.04	0.60	0.71	0.68	0.71	0.23
PR-23	0.67	0.36	1.06	0.38	0.17	0.06	0.34	0.06	0.08	0.12	0.11
PR-24	--	--	--	ND	ND	ND	ND	ND	0.01	ND	ND
PR-26	0.6	0.54	2.05	0.39	0.17	ND	ND	ND	--	0.13	0.12
PR-27	--	ND	ND	ND	ND	ND	ND	ND	0.01	ND	ND
PR-30	--	--	--	2.81	1.21	1.97	ND	ND	--	Dry	Dry
PR-34	0.66	1.17	2.81	1.07	0.37	2.45	4.06	3.54	2.30	1.03	0.58
PR-35	0.62	1.26	>3.0	1.70	0.12	0.13	0.85	0.91	0.84	0.73	0.40
PR-36	-	1.13	1.43	1.13	0.37	0.19	0.15	0.23	0.22	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
PR-41	0.59	0.53	0.42	0.13	0.43	0.03	ND	ND	--	Dry	Dry
PR-44	0.24	0.22	0.19	ND	ND	ND	ND	ND	--	Dry	-
PR-45	0.17	5.27	0.10	ND	ND	ND	ND	ND	--	ND	ND
PR-47	0.75	0.41	sheen	ND	ND	0.01	ND	ND	--	0.08	0.08
PR-48	1.12	0.20	>3.0	0.83	0.07	1.43	0.64	0.65	0.94	0.50	0.54
PR-49	--	3.24	ND	ND	ND	ND	ND	ND	--	ND	ND

TABLE 2 (continued)

Well	11/4/93	2/24/93	3/18/94	6/2/94	8/31/94	12/22/94	3/13/95	6/9/95	7/27/95	9/22/95	12/6-28/95
PR-50	1.08	1.58	0.89	ND	ND	ND	ND	ND	ND	ND	ND
PR-51	--	6.57	>3.0	0.01	0.72	2.02	ND	ND	ND	ND	ND
PR-52	1.01	5.09	1.16	0.45	0.05	0.03	ND	ND	ND	ND	-
PR-53	1.15	3.01	>3.0	0.61	0.49	1.52	ND	1.55	1.47	1.08	0.17
PR-54	0.97	0.99	1.20	ND	0.08	0.01	ND	ND	--	ND	ND
PR-55	1.48	0.07	1.31	0.87	ND	0.01	ND	Dry	Dry	Dry	-
PR-56	0.90	1.30	--	0.89	0.15	1.48	ND	ND	0.01	ND	-
PR-57	--	6.40	--	ND	ND	ND	ND	ND	--	ND	-
PR-58	0.96	0.85	--	1.48	0.89	2.15	1.41	1.34	2.40	1.18	0.57
PR-60	--	ND	--	ND	ND	ND	ND	ND	0.01	ND	ND
PR-61	0.25	0.39	0.35	1.03	ND	0.01	ND	ND	1.30	ND	ND
PR-62	0.04	--	0.07	0.09	ND	ND	ND	ND	--	ND	ND
PR-64	1.49	0.11	>3.0	--	1.06	2.15	1.03	1.17	2.12	1.15	0.58
PR-65	0.04	0.02	0.09	0.08	ND	ND	ND	ND	ND	ND	ND
PR-67	1.05	0.65	0.81	--	--	--	--	--	0.05	--	ND
PR-70	--	--	1.59	--	--	--	--	--	--	--	--
V-8	--	--	--	--	--	--	--	--	0.01	--	ND
V-55	--	--	--	--	--	--	--	--	--	--	0.04
V-77	--	--	--	--	--	--	--	--	0.78	Dry	--
V-78	--	--	--	--	--	--	--	--	0.01	--	ND
V-90	--	1.41	--	0.94	0.16	1.68	0.02	0.02	Dry	Dry	ND
V-94	--	--	--	--	--	--	--	--	0.01	--	--
--	No information.										
ND	None detected.										

TABLE 3

CONCENTRATIONS ($\mu\text{g/L}$) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES,
MARCH 1993 - DECEMBER 1995, NESTLE FACILITY, OAKLAND, CALIFORNIA

Well No.	Date Sampled	Concentration ($\mu\text{g/L}$)										Analysis Method	
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH GRO	TPH DRO	1,2-DCA	1,1-DCA	BDCM	1,1,1-TCA		TCE
MW-2 <i>semi</i>	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	--	--	--	--	--	--	--	--	--	--	--	1,2
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	1,2
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.8	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	0.7	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2	
MW-3 <i>P</i>	03/23/93	35	2.9	2	3.2	300	ND	--	--	--	--	--	1,2
	07/27/93	97	1	4	1.1	220	ND	--	--	--	--	--	1,2
	11/05/93	4.9	ND	ND	1.2	170	ND	--	--	--	--	--	1,2
	02/25/94	42	<1	<1	<1	100	<1,000	--	--	--	--	--	1,2
	06/03/94	120	8.2	8.4	4.5	320	<20,000	--	--	--	--	--	1,2
	08/31/94	83	1.1	5.3	2.9	<500	<500	--	--	--	--	--	4,2
	12/22/94	1,460	18	100	50	3,800	270	--	--	--	--	--	4,2
	03/13/95	3,600	260	270	280	14,000	1,700	--	--	--	--	--	1,2
	06/09/95	4,700	58	140	71	3,700	120	--	--	--	--	--	1,2
	09/21/95	9,800	58	600	95	14,000	300	--	--	--	--	--	1,2
12/12/95	330	2.1	47	5.3	700	<50	--	--	--	--	--	4,2	
MW-6 <i>semi-ann</i>	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	02/25/94	<1	<1	<1	3.5	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	2.7	<0.5	<0.5	<0.5	69	<20,000	--	--	--	--	--	1,2
	08/31/94	<0.3	8.7	1.6	3.5	<500	<500	--	--	--	--	--	4,2
12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2	
03/13/95	1.2	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2	

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L)										Analysis Method	
		Benzene	Toluene	Ethyl-benzene	Xylenes	TPH GRO	TPH DRO	1,2-DCA	1,1-DCA	BDCM	1,1,1-TCA		TCE
MW-6	06/09/95	0.6	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
MW-25 <i>Semi</i>	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	4.2	4.4	2.5	20	170	ND	--	--	--	--	--	1,2
	02/25/94	2.1	<1	<1	<1	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	2.4	14	<0.5	3.4	97	<20,000	--	--	--	--	--	1,2
	08/31/94	0.5	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.58	<0.5	<0.5	<0.5	150	950	--	--	--	--	--	1,2
	06/09/95	0.8	<0.5	<0.5	<0.5	<100	60	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
MW-26 <i>Q</i>	03/23/93	180	190	55	330	7,000	1,300	ND	ND	ND	ND	ND	1,2,3
	07/27/93	470	96	30	80	1,800	ND	140	ND	ND	ND	ND	1,2,3
	11/05/93	4,700	1,300	9	1,400	19,000	ND	120	ND	ND	ND	ND	1,2,3
	02/25/94	4,800	570	200	860	14,000	<1,000	28	<1	<1	<1	<1	1,2,3
	06/03/94	4,100	300	120	230	12,000	<20,000	140	1.7	0.84	<0.5	<0.5	1,2,3
	08/31/94	4,100	360	170	450	93,000	1,400	<4.0	<4.0	<4.0	<4.0	<4.0	4,2,7
	12/22/94	1,030	170	85	290	5,000	560	<2.0	<2.0	<2.0	<2.0	<2.0	4,2,7
	03/13/95	320	19	23	66	3,000	810	5.8	53	<0.5	<0.5	<0.5	1,2,9
	06/09/95	14,000	64	31	230	10,800	310	3.1	240	<0.5	1	<0.5	1,2,3
	09/21/95	1,900	160	160	330	8,000	200	120	1.3	<0.5	<0.5	<0.5	1,2,3
	12/12/95	13,000	38	36	120	25,000	0.6 ^b	180	1.4	<0.5	<0.5	<0.5	4,2,3
MW-28	03/23/93	ND	ND	ND	ND	110	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	ND	ND	ND	2.1	ND	ND	--	--	--	--	--	1,2
	02/25/94	<1	<1	<1	<1	<100	<1	--	--	--	--	--	1,2

TABLE 3 (continued)

Well No.	Date Sampled	Concentration (µg/L)										Analysis Method	
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH GRO	TPH DRO	1,2-DCA	1,1-DCA	BDCM	1,1,1-TCA		TCE
Q MW-28	06/03/94	3.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	1,2
	08/31/94	1.4	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.91	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2
Semi MW-29	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	ND	ND	2.1	11	ND	ND	--	--	--	--	--	1,2
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	1,2
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.59	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2	
Semi MW-30	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	1,2
	11/05/93	ND	ND	ND	2.8	ND	ND	--	--	--	--	--	1,2
	02/25/94	1.3	<1	<1	<1	<100	<1,000	--	--	--	--	--	1,2
	06/03/94	1.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	1,2
	08/31/94	0.8	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	4,2
	12/22/94	0.6	<0.5	<0.5	<0.5	<50	<50 ^a	--	--	--	--	--	4,2
	03/13/95	0.98	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	1,2
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	1,2
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	1,2
12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	4,2	

TABLE 3 (continued)

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

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

Analytical Methods:

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

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

ND Not detected.

Appendix A

Field Documents

FIELD SUMMARY REPORT

Client and Station #: HESTLE

EA Project #: Pending

Sample Team: H. Legge

Date: 12 12 95

Number of Drums on Site: Water 3 Soil _____ Empty _____

Summary:

I arrived on site at 0800
and opened and gauged wells listed.

I could not locate MW4 and
MW11 on former 15th ST

The nine requested wells were
purged and sampled according
to protocol.

No problems were encountered
on site.

H.L.

NOTE: PH meter shorted out from rain
PH was and could not be taken.

Well Integrity is poor on majority
of wells, caps and well boxes should
be replaced.

GROUNDWATER PURGE AND SAMPLE FORM

Date: 12/16/13

Project Name: NESTLE Well Number: MW2

Project Number: _____ Personnel: K Legge

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 Rec'd Purge Volume (gal)
	-	=	X	2	4	6	=	
	2300	1023	1277	0.16	0.64	1.44	8.1	24.5

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 4gpm

Time	1115	1117	1119	1121
Volume Purged (gal)	0	8	16	24.5
Temperature (°C)	63.5°	65°	65°	65°
pH	N/A			→
Specific Conductivity (µmhos)	660	720	740	740
Turbidity / Color	Low AT Brn	Low CLR	Low CLR	Low CLR
Odor	N	N	N	N
Casing Volumes Removed	0	1	2	3
Dewatered?	N	N	N	N

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1123 Approx. Depth to Water During Sampling: 14'

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
<u>MW2</u>	<u>3</u>	<u>VOA</u>	<u>HCl</u>	<u>40ml</u>	<u>Low</u>	<u>CLR</u>	<u>yes</u>	<u>TPH/BTEX</u>	<u>Y</u>
								<u>SOIC</u>	<u>N</u>
	<u>1</u>	<u>Amber</u>	<u>NONE</u>	<u>1 liter</u>	<u>Low</u>	<u>CLR</u>	<u>yes</u>	<u>TPH/diesel</u>	<u>Y</u>

Total Purge Volume: 24.5 Disposal/Containment Method: Drums

Weather Conditions: RAIN

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

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

Problems Encountered During Purging and Sampling: N

Comments: N

GROUNDWATER PURGE AND SAMPLE FORM

Date: 12/16/15

Project Name: Nestle Well Number: MW3

Project Number: _____ Personnel: K Legge

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	=	
	24.55	9.53	1502	0.16	0.64	1.44	9.6	28.8

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 2gpm

Time	1140	1143	1147	1153		
Volume Purged (gal)	0	10	20	30		
Temperature (°F)	64	65	65	65		
pH	N/A			>		
Specific Conductivity (µmhos)	715	810	815	815		
Turbidity / Color	low / CLR	low / CLR	low / CLR	low / CLR		
Odor	HC	HC	HC	HC		
Casing Volumes Removed	0	1	2	3		
Dewatered?	H	H	H	H		

Comments/Observations: MUST Purge well slow or Dewater

SAMPLING DATA

Time Sampled: 1155 Approx. Depth to Water During Sampling: 23'

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or l)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
MW3	3	Voa	HCl	40ml	low	CLR	Yes	TPH/BTEX	Y
							NO	SOIC	N
	1	Amber	HCl	1 Litre	low	CLR	Yes	TPH/diox	Y

Total Purge Volume: 30 gals Discosav/Containment Method: Drums

Weather Conditions: RAIN

Condition of Well Box and Casing at Time of Sampling: Box should be raised above ground gradient

Well Head Conditions Requiring Correction (leaks, damaged casing or well box, etc.): Needs new cap

Problems Encountered During Purging and Sampling: N

Comments: N

GROUNDWATER PURGE AND SAMPLE FORM

Date: 12/14/95

Project Name: HESTIE Well Number: MW6

Project Number: _____ Personnel: K Legge

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 Recirc Purge Volume (gal)
	-	=	X	(2)	4	6	=	
	15.35	9.36	5.99	0.16	0.64	1.44	-95	3

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: SCREEN Purge Rate: 1 gpm

Time	1200	1201	1202	1203
Volume Purged (gal)	0	1	2	3
Temperature (°F)	58	58	58	58
pH	N/A			→
Specific Conductivity (µmhos)	515	450	445	448
Turbidity / Color	High BRN	Med BRN	Med BRN	Med BRN
Odor	H	N	N	H
Casing Volumes Removed	0	1	2	3
Dewatered?	H	H	N	H

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1205 Approx. Depth to Water During Sampling: 12'

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or l)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analyzes Method	Comments
<u>MW6</u>	<u>3</u>	<u>VOA</u>	<u>HCl</u>	<u>40ml</u>	<u>LOW</u>	<u>BRN</u>	<u>Yes</u>	<u>TPH, BTEX</u>	<u>Y</u>
								<u>SCIC</u>	<u>N</u>
	<u>1</u>	<u>AMBLY</u>	<u>HCl</u>	<u>1litre</u>	<u>LOW</u>	<u>BRN</u>	<u>Yes</u>	<u>TPH, DISC</u>	<u>Y</u>

Total Purge Volume: 3 gals Disposal/Containment Method: DRUMS

Weather Conditions: RAIN

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

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

Problems Encountered During Purging and Sampling: N

Comments: N

GROUNDWATER PURGE AND SAMPLE FORM

Date: 12/12/15

Project Name: NESTLE Well Number: MW25

Project Number: _____ Personnel: K Legge

GAUGING DATA

Water Level Measuring Method: Interfacc 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 Rec'd Purge Volume (gal)
	-	=	X	2	4	6	=	
	19.30	8.18	11.12	0.16	0.64	1.44	7.1	21.3

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 1.5 gpm

Time	1039	1043	1047	1051		
Volume Purged (gal)	0	7	14	21.5		
Temperature (°C)	62	62	62	62		
pH	N/A					
Specific Conductivity (µmhos)	820	860	855	855		
Turbidity / Color	LOW LT Brw	LOW LT Brw	LOW LT Brw	LOW LT Brw		
Odor	H	H	H	H		
Casing Volumes Removed	0	1	2	3		
Dewatered?	N	H	H	H		

Comments/Observations: Purge slow, almost dewatered

SAMPLING DATA

Time Sampled: 1055 Approx. Depth to Water During Sampling: 18'

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or l)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
<u>MW25</u>	<u>3</u>	<u>100</u>	<u>HCl</u>	<u>400ml</u>	<u>Low</u>	<u>LT Brw</u>	<u>YES</u>	<u>TPH/STEX</u>	<u>Y</u>
								<u>8010</u>	<u>N</u>
	<u>1</u>	<u>Amber</u>	<u>NONE</u>	<u>1 litre</u>	<u>Low</u>	<u>LT Brw</u>	<u>YES</u>	<u>TPH/DISE</u>	<u>Y</u>

Total Purge Volume: 21.5 gals Disposal/Containment Method: Drums

Weather Conditions: RAIN

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

Well Head Conditions Requiring Correction (rocks, damaged casing or well box, etc.): Needs New Cap

Problems Encountered During Purging and Sampling: N

Comments: N

GROUNDWATER PURGE AND SAMPLE FORM

Date: 12/16/95

Project Name: HESTIE Well Number: MW26

Project Number: _____ Personnel: K Legge

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 Rec Purge Volume (gal)
	-	=	X	2	0	6	=	
	2495	7.99	1696	0.16	0.64	1.44	10.8	325

PURGING DATA

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

Time	1057	1059	1101	1104			
Volume Purged (gal)	0	11	22	32.5			
Temperature (°F)	62	62	62	62			
pH	N/A	→					
Specific Conductivity (µmhos)	650	655	650	650			
Turbidity / Color	LOW / CLR	LOW / CLR	LOW / CLR	LOW / CLR			
Odor	HC	HC	HC	HC			
Casing Volumes Removed	0	1	2	3			
Dewatered?	N	N	N	N			

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1105 Approx. Depth to Water During Sampling: _____

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or l)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
<u>MW26</u>	3	<u>VOG</u>	<u>HCl</u>	<u>40ml</u>	<u>LOW</u>	<u>CLR</u>	YES	<u>TPH/BTEX</u>	Y
	3	<u>VOG</u>	<u>HCl</u>	<u>40ml</u>	<u>LOW</u>	<u>CLR</u>	YES	<u>8010</u>	Y
	1	<u>Amber</u>	<u>NONE</u>	<u>16.7ml</u>	<u>LOW</u>	<u>CLR</u>	YES	<u>TPH/DICSD</u>	Y

Total Purge Volume: 32.5 gal Disposal/Containment Method: DRUMS

Weather Conditions: RAIN

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

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

Problems Encountered During Purging and Sampling: N

Comments: N

GROUNDWATER PURGE AND SAMPLE FORM

Date: 11/14/95

Project Name: NESTLE Well Number: MW28

Project Number: _____ Personnel: K Legge

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 Rec'd Purge Volume (gal)
	-	=	X	2	4	6	=	
	2500	9.00	16.00	0.16	0.64	1.44	10.24	30.72

PURGING DATA

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

Time	1016	1018	1020	1022		
Volume Purged (gal)	0	10	20	31		
Temperature (°C)	63	64	65	65		
pH	N/A			>		
Specific Conductivity (µmhos)	550	350	351	354		
Turbidity / Color	LOW HT Brk	LOW CLR	LOW CLR	LOW HT Brk		
Odor	H	H	H	H		
Casing Volumes Removed	0	1	2	3		
Dewatered?	H	H	H	H		

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1024 Approx. Depth to Water During Sampling: 19'

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
<u>MW28</u>	<u>3</u>	<u>var</u>	<u>HCl</u>	<u>40 ml</u>	<u>LOW</u>	<u>HT Brk</u>	<u>YES</u>	<u>TPH/BTEX</u>	<u>Y</u>
								<u>SO10</u>	<u>N</u>
	<u>1</u>	<u>Amber</u>	<u>HONS</u>	<u>1 litre</u>	<u>LOW</u>	<u>HT Brk</u>	<u>YES</u>	<u>TPH/Diesel</u>	<u>Y</u>

Total Purge Volume: 31 gals Disposal/Containment Method: Drums

Weather Conditions: RAIN

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

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

Problems Encountered During Purging and Sampling: N

Comments: N

GROUNDWATER PURGE AND SAMPLE FORM

Date: 12/14/95

Project Name: NESTLE Well Number: MW29

Project Number: _____ Personnel: K Legge

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 Required Purge Volume (gal)
	-	=	X	2	6	6	=	
	2300	8.02	1498	0.16	0.64	1.44	9.5	28.5

PURGING DATA

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

Time	1028	1030	1032	1034
Volume Purged (gal)	0	9.5	19	28.5
Temperature (°C)	64	64	65	65
pH	N/A			>
Specific Conductivity (µmhos)	325	328	300	300
Turbidity / Color	Low / CLR	Low / CLR	Low / CLR	Low / CLR
Odor	N	N	N	N
Casing Volumes Removed	0	1	2	3
Dewatered?	N	N	N	N

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1036 Approx. Depth to Water During Sampling: 17'

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or l)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
<u>MW29</u>	<u>3</u>	<u>VOG</u>	<u>HCl</u>	<u>40 ml</u>	<u>Low</u>	<u>CLR</u>	<u>Yes</u>	<u>TPH/BTEX</u>	<u>Y</u>
								<u>8010</u>	<u>N</u>
	<u>1</u>	<u>Amber</u>	<u>None</u>	<u>12.5 l</u>	<u>Low</u>	<u>CLR</u>	<u>Yes</u>	<u>TPH/Diox</u>	<u>Y</u>

Total Purge Volume: 28.5 g Disposal/Containment Method: Drums

Weather Conditions: RAIN

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

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

Problems Encountered During Purging and Sampling: N

Comments: N

GROUNDWATER PURGE AND SAMPLE FORM

Date: 12/14/95

Project Name: NESTLE Well Number: MW30

Project Number: _____ Personnel: K Legge

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 Rec'd Purge Volume (gal)
	-	=	X	2	4	6	=	
	20.72	9.90	10.82	0.16	0.64	1.44	6.9	20.7

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 3.5 gpm

Time	1218	1220	1222	1224
Volume Purged (gal)	0	7	14	21
Temperature (°F)	60	59	59	59
pH	N/A			
Specific Conductivity (µmhos)	400	395	390	390
Turbidity / Color	LOW CLR	LOW CLR	LOW CLR	LOW CLR
Odor	N	N	N	N
Casing Volumes Removed	0	1	2	3
Dewatered?	N	N	N	N

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1226 Approx. Depth to Water During Sampling: 15'

Comments: _____

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (ml or l)	Turbidity	Color	Shipped Under Chain of Custody at 4°C (Y/N)	Analysis Method	Comments
<u>MW30</u>	<u>3</u>	<u>VOU</u>	<u>HCl</u>	<u>40ml</u>	<u>LOW</u>	<u>CLR</u>	<u>YES</u>	<u>TPH/BTEX</u>	<u>Y</u>
								<u>8010</u>	<u>N</u>
	<u>1</u>	<u>AMBER</u>	<u>MOHS</u>	<u>1litre</u>	<u>LOW</u>	<u>CLR</u>	<u>YES</u>	<u>TPH/DISE</u>	<u>Y</u>

Total Purge Volume: 21 gals Disposal/Containment Method: DRUMS

Weather Conditions: RAIN

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

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

Problems Encountered During Purging and Sampling: N

Comments: N

GROUNDWATER PURGE AND SAMPLE FORM

Date: 12/16/95

Project Name: HOSTIE Well Number: MW32

Project Number: _____ Personnel: K Legge

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 Rec'd Purge Volume (gal)
	-	=	X	2	4	6	=	
	22.88	9.84	1304	0.16	0.64	1.44	8.3	25

PURGING DATA

Purge Method: Vacuum Truck Purge Depth: Screen Purge Rate: 4.3 gpm

Time	1125	1127	1130	1133		
Volume Purged (gal)	0	8.5	17	25		
Temperature (°C)	64	66	67	67		
pH	N/A			>		
Specific Conductivity (µmhos)	600	635	636	636		
Turbidity / Color	Low / CLR	Low / CLR	Low / CLR	Low / CLR		
Odor	H	LT HC	LT HC	LT HC		
Casing Volumes Removed	0	1	2	3		
Dewatered?	H	H	H	H		

Comments/Observations: _____

SAMPLING DATA

Time Sampled: 1135 Approx. Depth to Water During Sampling: 14'

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
<u>MW32</u>	<u>3</u>	<u>vog</u>	<u>HCl</u>	<u>40ml</u>	<u>Low</u>	<u>CLR</u>	<u>yes</u>	<u>TPH/BTEX</u>	<u>Y</u>
	<u>3</u>	<u>vog</u>	<u>HCl</u>	<u>40ml</u>	<u>Low</u>	<u>CLR</u>	<u>yes</u>	<u>8010</u>	<u>Y</u>
	<u>1</u>	<u>Amber</u>	<u>NONE</u>	<u>40ml</u>	<u>Low</u>	<u>CLR</u>	<u>yes</u>	<u>TPH/DISE</u>	<u>Y</u>

Total Purge Volume: 25 gals Disposal/Containment Method: DRUMS

Weather Conditions: RAIN

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

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

Problems Encountered During Purging and Sampling: N

Comments: N

Appendix B

Laboratory Analytical Report

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

JAN 10 1996

January 4, 1996

Binayak Acharya
Nestle USA, Inc.
800 N. Brand Blvd.
Glendale, CA 91203

cc: Walt Carey
Mark Litzau

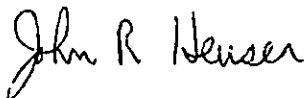
RE: OAKLAND, CA QUARTERLY MONITORING PROJECT

Dear Binayak:

Attached are the analytical reports for the eleven water samples (NQAL # 9512180148/158) submitted to NQAL by Mark Litzau (EA Engineering, Science, and Technology) for various analyses.

If you have any questions please feel free to call.

Sincerely,

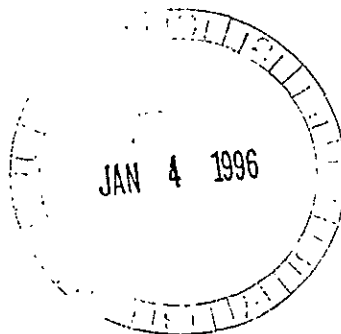


John R. Heuser, Ph.D.
Manager, Organic Contaminants

JRH:frm

Attachment

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QUALITY ASSURANCE LABORATORY

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

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

Client: Binayak Acharya
Nestle USA
Glendale, CA

Report Date: 1/4/96
Date Sampled: 12/12/95
Date Received: 12/14/95

Project: Oakland, CA Quarterly Monitoring Project

Result Summary

NQAL #	Sample ID	Benzene	Toluene	Ethyl Benzene	Total Xylenes	GRO	DRO	Date Analyzed	
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	BTEX/GRO	DRO
9512180148	Rinse Blank	ND	ND	ND	1.2	ND	ND	12/20/95	12/20/95
9512180149	MW-28	ND	ND	ND	ND	ND	ND	12/18/95	12/20/95
9512180150	MW-29	ND	ND	ND	ND	ND	ND	12/21/95	12/20/95
9512180151	MW-25	ND	ND	ND	ND	ND	ND	12/20/95	12/20/95
9512180152	MW-26	13000	38	36	120	25	0.6*	12/20/95	12/20/95
9512180153	MW-2	ND	ND	ND	ND	ND	ND	12/18/95	12/20/95
9512180154	MW-32	230	ND	8.9	ND	0.5	ND	12/18/95	12/20/95
9512180155	MW-3	330	2.1	47	5.3	0.7	ND	12/20/95	12/20/95
9512180156	MW-6	ND	ND	ND	ND	ND	ND	12/20/95	12/20/95
9512180157	MW-30	ND	ND	ND	ND	ND	ND	12/20/95	12/20/95
9512180158	Travel Blank	ND	ND	ND	ND	ND	NR	12/20/95	12/20/95

Detection Limit 0.5 0.5 0.5 1.0 0.1 0.05

ND = Not Detected

NR = Not Requested

* = no diesel pattern detected, result due to high gasoline concentration

- BTEX compounds analyzed by EPA Method 602

- Gasoline and Diesel Range Organics analyzed by the California DOHS method found in the LUFT Field Manual, October 1989

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

Client: Binayak Acharya
Company: Nestle USA
 Glendale, CA

Date of Report: 1/4/96
Date Sample Collected: 12/12/95
Date Sample Received: 12/14/95

Sample ID: Travel Blank
Sample Location: Oakland, CA Quarterly Monitoring Project
NQAL #: 9512180158

EPA 8010 Purgeable Halocarbons in Water

Analyte	Units	Result	Reporting Limit	Date Analyzed
Bromodichloromethane	µg/L	ND	0.5	12/22/95
Bromoform	µg/L	ND	0.5	12/22/95
Bromomethane	µg/L	ND	0.5	12/22/95
Carbon tetrachloride	µg/L	ND	0.5	12/22/95
Chlorobenzene	µg/L	ND	0.5	12/22/95
Chlorodibromomethane	µg/L	ND	0.5	12/22/95
Chloroethane	µg/L	ND	0.5	12/22/95
Chloroform	µg/L	ND	0.5	12/22/95
Chloromethane	µg/L	ND	0.5	12/22/95
1,2-Dichlorobenzene	µg/L	ND	0.5	12/22/95
1,3-Dichlorobenzene	µg/L	ND	0.5	12/22/95
1,4-Dichlorobenzene	µg/L	ND	0.5	12/22/95
Dichlorodifluoromethane	µg/L	ND	0.5	12/22/95
1,1-Dichloroethane	µg/L	ND	0.5	12/22/95
1,2-Dichloroethane	µg/L	ND	0.5	12/22/95
1,1-Dichloroethene	µg/L	ND	0.5	12/22/95
cis-1,2-Dichloroethene	µg/L	ND	0.5	12/22/95
trans-1,2-Dichloroethene	µg/L	ND	0.5	12/22/95
1,2-Dichloropropane	µg/L	ND	0.5	12/22/95
cis-1,3-Dichloropropene	µg/L	ND	0.5	12/22/95
trans-1,3-Dichloropropene	µg/L	ND	0.5	12/22/95
Methylene chloride	µg/L	ND	0.5	12/22/95
1,1,2,2-Tetrachloroethane	µg/L	ND	0.5	12/22/95
Tetrachloroethene	µg/L	ND	0.5	12/22/95
1,1,1-Trichloroethane	µg/L	ND	0.5	12/22/95
1,1,2-Trichloroethane	µg/L	ND	0.5	12/22/95
Trichloroethene	µg/L	ND	0.5	12/22/95
Trichlorofluoromethane	µg/L	ND	0.5	12/22/95
Vinyl chloride	µg/L	ND	0.5	12/22/95
Surrogate Recovery				
Bromofluorobenzene	%	111	43-142 %	
Bromochloromethane	%	76	40-169 %	

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

Client: Binayak Acharya
 Company: Nestle USA
 Glendale, CA

Date of Report: 1/4/96
 Date Sample Collected: 12/12/95
 Date Sample Received: 12/14/95

Sample ID: Rinse Blank
 Sample Location: Oakland, CA Quarterly Monitoring Project
 NQAL #: 9512180148

EPA 8010
 Purgeable Halocarbons in Water

Analyte	Units	Result	Reporting Limit	Date Analyzed
Bromodichloromethane	µg/L	ND	0.5	12/22/95
Bromoform	µg/L	ND	0.5	12/22/95
Bromomethane	µg/L	ND	0.5	12/22/95
Carbon tetrachloride	µg/L	ND	0.5	12/22/95
Chlorobenzene	µg/L	ND	0.5	12/22/95
Chlorodibromomethane	µg/L	ND	0.5	12/22/95
Chloroethane	µg/L	ND	0.5	12/22/95
Chloroform	µg/L	ND	0.5	12/22/95
Chloromethane	µg/L	ND	0.5	12/22/95
1,2-Dichlorobenzene	µg/L	ND	0.5	12/22/95
1,3-Dichlorobenzene	µg/L	ND	0.5	12/22/95
1,4-Dichlorobenzene	µg/L	ND	0.5	12/22/95
Dichlorodifluoromethane	µg/L	ND	0.5	12/22/95
1,1-Dichloroethane	µg/L	ND	0.5	12/22/95
1,2-Dichloroethane	µg/L	ND	0.5	12/22/95
1,1-Dichloroethene	µg/L	ND	0.5	12/22/95
cis-1,2-Dichloroethene	µg/L	ND	0.5	12/22/95
trans-1,2-Dichloroethene	µg/L	ND	0.5	12/22/95
1,2-Dichloropropane	µg/L	ND	0.5	12/22/95
cis-1,3-Dichloropropene	µg/L	ND	0.5	12/22/95
trans-1,3-Dichloropropene	µg/L	ND	0.5	12/22/95
Methylene chloride	µg/L	ND	0.5	12/22/95
1,1,2,2-Tetrachloroethane	µg/L	ND	0.5	12/22/95
Tetrachloroethene	µg/L	ND	0.5	12/22/95
1,1,1-Trichloroethane	µg/L	ND	0.5	12/22/95
1,1,2-Trichloroethane	µg/L	ND	0.5	12/22/95
Trichloroethene	µg/L	ND	0.5	12/22/95
Trichlorofluoromethane	µg/L	ND	0.5	12/22/95
Vinyl chloride	µg/L	ND	0.5	12/22/95
Surrogate Recovery				
Bromofluorobenzene	%	112	43-142 %	
Bromochloromethane	%	86	40-169 %	

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Client: Binayak Acharya
 Company: Nestle USA
 Glendale, CA

Date of Report: 1/4/96
 Date Sample Collected: 12/12/95
 Date Sample Received: 12/14/95

Sample ID: MW-32 NQAL #: 9512180154
 Sample Location: Oakland, CA Quarterly Monitoring Project

EPA 8010
 Purgeable Halocarbons in Water

Analyte	Units	Result	Reporting Limit	Date Analyzed
Bromodichloromethane	µg/L	ND	0.5	12/22/95
Bromoform	µg/L	ND	0.5	12/22/95
Bromomethane	µg/L	ND	0.5	12/22/95
Carbon tetrachloride	µg/L	ND	0.5	12/22/95
Chlorobenzene	µg/L	ND	0.5	12/22/95
Chlorodibromomethane	µg/L	ND	0.5	12/22/95
Chloroethane	µg/L	ND	0.5	12/22/95
Chloroform	µg/L	ND	0.5	12/22/95
Chloromethane	µg/L	ND	0.5	12/22/95
1,2-Dichlorobenzene	µg/L	ND	0.5	12/22/95
1,3-Dichlorobenzene	µg/L	ND	0.5	12/22/95
1,4-Dichlorobenzene	µg/L	ND	0.5	12/22/95
Dichlorodifluoromethane	µg/L	ND	0.5	12/22/95
1,1-Dichloroethane	µg/L	ND	0.5	12/22/95
1,2-Dichloroethane	µg/L	28	0.5	12/22/95
1,1-Dichloroethene	µg/L	ND	0.5	12/22/95
cis-1,2-Dichloroethene	µg/L	ND	0.5	12/22/95
trans-1,2-Dichloroethene	µg/L	ND	0.5	12/22/95
1,2-Dichloropropane	µg/L	ND	0.5	12/22/95
cis-1,3-Dichloropropene	µg/L	ND	0.5	12/22/95
trans-1,3-Dichloropropene	µg/L	ND	0.5	12/22/95
Methylene chloride	µg/L	ND	0.5	12/22/95
1,1,2,2-Tetrachloroethane	µg/L	ND	0.5	12/22/95
Tetrachloroethene	µg/L	ND	0.5	12/22/95
1,1,1-Trichloroethane	µg/L	ND	0.5	12/22/95
1,1,2-Trichloroethane	µg/L	ND	0.5	12/22/95
Trichloroethene	µg/L	ND	0.5	12/22/95
Trichlorofluoromethane	µg/L	ND	0.5	12/22/95
Vinyl chloride	µg/L	ND	0.5	12/22/95
Surrogate Recovery				
Bromofluorobenzene	%	121	43-142 %	
Bromochloromethane	%	75	40-169 %	

ND = Not Detected

QUALITY ASSURANCE LABORATORY
 PO BOX 1510
 6625 EITERMAN ROAD
 DUBLIN, OH 43017-6516
 TEL (614) 791-9144
 FAX (614) 793-5353

Client: Binayak Acharya
Company: Nestle USA
 Glendale, CA

Date of Report: 1/4/96
Date Sample Collected: 12/12/95
Date Sample Received: 12/14/95

Sample ID: MW-26
Sample Location: Oakland, CA Quarterly Monitoring Project
NQAL #: 9512180152

EPA 8010 Purgeable Halocarbons in Water

Analyte	Units	Result	Reporting Limit	Date Analyzed
Bromodichloromethane	µg/L	ND	0.5	12/22/95
Bromoform	µg/L	ND	0.5	12/22/95
Bromomethane	µg/L	ND	0.5	12/22/95
Carbon tetrachloride	µg/L	ND	0.5	12/22/95
Chlorobenzene	µg/L	ND	0.5	12/22/95
Chlorodibromomethane	µg/L	ND	0.5	12/22/95
Chloroethane	µg/L	ND	0.5	12/22/95
Chloroform	µg/L	ND	0.5	12/22/95
Chloromethane	µg/L	ND	0.5	12/22/95
1,2-Dichlorobenzene	µg/L	ND	0.5	12/22/95
1,3-Dichlorobenzene	µg/L	ND	0.5	12/22/95
1,4-Dichlorobenzene	µg/L	ND	0.5	12/22/95
Dichlorodifluoromethane	µg/L	ND	0.5	12/22/95
1,1-Dichloroethane	µg/L	1.4	0.5	12/22/95
1,2-Dichloroethane	µg/L	180	0.5	12/22/95
1,1-Dichloroethene	µg/L	ND	0.5	12/22/95
cis-1,2-Dichloroethene	µg/L	ND	0.5	12/22/95
trans-1,2-Dichloroethene	µg/L	ND	0.5	12/22/95
1,2-Dichloropropane	µg/L	ND	0.5	12/22/95
cis-1,3-Dichloropropene	µg/L	ND	0.5	12/22/95
trans-1,3-Dichloropropene	µg/L	ND	0.5	12/22/95
Methylene chloride	µg/L	ND	0.5	12/22/95
1,1,2,2-Tetrachloroethane	µg/L	ND	0.5	12/22/95
Tetrachloroethene	µg/L	ND	0.5	12/22/95
1,1,1-Trichloroethane	µg/L	ND	0.5	12/22/95
1,1,2-Trichloroethane	µg/L	ND	0.5	12/22/95
Trichloroethene	µg/L	ND	0.5	12/22/95
Trichlorofluoromethane	µg/L	ND	0.5	12/22/95
Vinyl chloride	µg/L	ND	0.5	12/22/95
Surrogate Recovery				
Bromofluorobenzene	%	96	43-142 %	
Bromochloromethane	%	71	40-169 %	

QUALITY ASSURANCE LABORATORY
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Nestle USA Quality Assurance Laboratory

**EPA Method 8010
 Laboratory Control Sample**

Date Analyzed: 12/22/95
 Analyst: FRM

	Result (ug/L)	Amount Spiked (ug/L)	Recovery (%)	Limits (%)
Blank Spike Results				
1,1-Dichloroethene	22.5	20	113	63-137
Trichloroethene	21.5	20	108	77-123
Chlorobenzene	18.8	20	94	72-128
Surrogate Recoveries				
Bromofluorobenzene	35	30	117	43-142
Bromochloromethane	38	30	127	40-169

Column: Restek 502.2, 105 m
 Limits based on EPA Method 8010B

QUALITY ASSURANCE LABORATORY
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Nestle USA Quality Assurance Laboratory

**EPA Method 8010
 Matrix Spike/Matrix Spike Duplicate Report**

Date Analyzed:	12/22/95	Matrix:	Water
Matrix Sample #:	9.512E+09	Analyst:	FRM

	Result (ug/L)	Amount Spiked (ug/L)	Recovery (%)	Limits (%)
Matrix Spike Results				
1,1-Dichloroethene	16.7	20	84	56-132
Trichloroethene	20.5	20	103	62-156
Chlorobenzene	21.7	20	109	65-132
Surrogate Recoveries				
Bromofluorobenzene	36	30	120	43-142
Bromochloromethane	38	30	127	40-169
Matrix Spike Duplicate Results				
1,1-Dichloroethene	19.5	20	98	56-132
Trichloroethene	17.3	20	87	62-156
Chlorobenzene	17.8	20	89	65-132
Surrogate Recoveries				
Bromofluorobenzene	34	30	113	43-142
Bromochloromethane	34	30	113	40-169
Matrix Results				
1,1-Dichloroethene	0.0			
Trichloroethene	0.0			
Chlorobenzene	0.0			
RPD Data				
1,1-Dichloroethene	15%			<25%
Trichloroethene	17%			<25%
Chlorobenzene	20%			<25%

Column: Restek 502.2, 105 m
 Limits based on EPA Method 8010B