ETIC
Engineering, Inc.

R018

OCT 03 2001

26 September 2001

James Yoo
Alameda County Public Works Agency
Water Resources Section
399 Elmhurst Street
Hayward, California 94545

RE: Well Installation Report for the former Nestlé facility located at 1310 14th Street, Oakland, California

Dear Mr. Yoo:

Attached for your review and comment is a copy of the Well Installation Report dated September 2001 for the above-referenced site. The report details the installation of one additional onsite groundwater monitoring well. The work was performed as part of investigative and remedial activities for the former Nestlé facility.

If you have any questions I can be reached at (925) 602-4710, extension 22.

Sincerely,

Brent Searcy

Brent Searcy
Project Manager

Attachment

cc: Binayak Acharya, Nestlé USA, Inc.
Chuck Headlee, Regional Water Quality Control Board
Barney Chan, Alameda County Health Agency

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R018

Well Installation Report

Nestlé USA, Inc. Facility
1310 14th Street
Oakland, California

Prepared for

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

Prepared by

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, California 94523
(925) 602-4710

Brent Searcy — 9/6/01

Brent Searcy
Project Manager — Date

Heidi Dieffenbach-Carle — September 6, 2001

Heidi Dieffenbach-Carle, R.G. #6793
Senior Geologist — Date

REGISTERED GEOLOGIST
HEIDI L. DIEFFENBACH-CARLE
No. 6793
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STATE OF CALIFORNIA

September 2001

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Former Nestlé Facility, 1310 14th Street, Oakland, California

SITE CONTACTS

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	Chuck Headlee California Environmental Protection Agency California Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, California 94612 (510) 622-2433

1. INTRODUCTION

This report documents the installation of one groundwater monitoring well (MW100) as part of investigative and remedial activities for the former Carnation Dairy Facility located at 1310 14th Street in Oakland, California (Figures 1 and 2). ETIC Engineering, Inc. (ETIC), at the request of Nestlé USA, Inc. (Nestlé), directed and supervised the installation of the well.

The work was performed pursuant to a June 2001 meeting and agreement with the Alameda County Health Agency (ACHA), the Regional Water Quality Control Board (RWQCB), Nestlé, and ETIC.

The investigation consisted of the following activities:

- A well installation permit was obtained from the Alameda County Public Works Agency (ACPWA) on 14 June 2001.
- On 29 June 2001, one soil boring was drilled onsite and completed as groundwater monitoring well MW100.
- Soil samples were collected at intervals of 5 feet or less during drilling for examination of lithology.
- Groundwater monitoring well MW100 was developed following the installation of the sand pack.
- On 6 July 2001, well MW100 was purged and groundwater samples were collected to provide baseline analytical results. Results for MW100 groundwater samples are discussed in this report.

2. SITE BACKGROUND

2.1 SITE LOCATION AND LAND USE

The former Nestlé property is located at 1310 14th Street, Oakland, California. The property covers two city blocks and is bounded by 14th Street, 16th Street, Poplar Street, and Mandela Parkway (Figures 1 and 2). The entire property was sold by Nestlé to Encinal 14th Street, LLC in July 2000. Prior to the sale of the property, a Covenant and Environmental Restriction document was developed for the northwest portion of the property. The restrictions were reviewed by the ACHA, the RWQCB, and were signed by the City of Oakland Fire Services in June 2000 (ETIC 2001a).

The topography slopes gently to the west, toward San Francisco Bay. Land use in the immediate area is primarily light industrial, with some commercial property and residences located east and west of the property.

2.2 SITE HISTORY AND PAST REMEDIAL ACTIONS

The former facility was used to manufacture ice cream and packaged milk. The facility was also used for the distribution of ice cream and packaged fresh milk by trucks. A maintenance yard for vehicles used in the distribution of dairy products operated at the facility and included underground fuel and waste oil storage tanks.

Facilities at the property were originally constructed by American Creamery in 1915. Carnation purchased the property in 1929 and made additions and improvements to the buildings between 1946 and 1973 for dairy product processing and distribution. Nestlé USA, Inc. assumed operation of the property following its purchase of Carnation in 1985. Nestlé ceased operations at the property in 1991 (HLA 1991).

2.2.1 Tank, Line, and Dispenser Removal

Four fuel underground storage tanks (USTs) were removed from the site in 1989. During removal of the USTs, gasoline and diesel fuel was observed as floating product in the tank cavity. Approximately 1,200 cubic yards of soil was excavated from the tank cavity and stockpiled onsite. Nutrients were applied to the soil stockpile in an attempt to bioremediate the soil (AGE 1989a). Removal of the tanks and piping eliminated the primary source of chemical release to the subsurface.

2.2.2 Summary of Site Investigations and Remedial Actions

Previous environmental investigations conducted at the former Nestlé property are briefly summarized below. More complete and detailed documentation of previous investigations and remediation activities is provided in the Comprehensive Site Characterization Report (CSCR) dated January 2001 (ETIC 2001b).

Anania Geological Engineering (AGE) was retained by Nestlé in 1989 to conduct a preliminary site characterization and to implement several interim remedial measures designed to contain and eliminate the presence of petroleum hydrocarbons in the soil and groundwater (AGE 1989b). A number of interim remedial actions were implemented, including installation of product recovery wells and the removal of floating product, installation and operation of groundwater extraction and

vapor extraction systems, and ex-situ bioremediation of soil. Thirty-three groundwater monitoring wells and 103 product recovery wells were installed at the site. Approximately 1.5 million gallons of groundwater were pumped and treated by carbon adsorption, resulting in the removal of approximately 5,000 gallons of gasoline and diesel fuel from soil and groundwater (HLA 1991).

In December 1990, Harding Lawson Associates was retained to review the preliminary site characterization and remediation data and to conduct additional site investigations. Between April and August 1991, HLA oversaw the installation of 20 soil borings. A soil vapor extraction (SVE) system was operated from January 1994 to December 1995 and removed an estimated 5,200 gallons of hydrocarbon equivalent (Park 1994; EA 1996).

At the end of 1995 the SVE system had removed most of the hydrocarbons that this technology is capable of removing, but floating product or liquid-phase hydrocarbons (LPH) was still present in a number of wells. A multi-phase extraction system was installed and operated from August 1997 through June 2000. The system was installed to remove LPH trapped in the soil and floating on the groundwater. A total of 10,875 pounds of hydrocarbons have been removed since August 1997. Overall product levels have decreased since August 1997, and the hydrocarbon recovery rate has reached an asymptotic level (ETIC 2001b).

A risk-based corrective action (RBCA) analysis for the site is included in the January 2001 Comprehensive Site Characterization Report submitted to the RWQCB and ACHA. Based on the results of the RBCA analysis (JCI 2000), the chemicals of potential concern observed at the site do not pose a significant risk to daily site occupants (ETIC 2001b). Accordingly, additional remediation at the site is not warranted, provided that future development will maintain a surface cap of the soil, exclusive of minor landscape areas and by buildings or paved surfaces. In order to protect the health and safety of construction workers that may come into direct contact with chemicals beneath the site during future property redevelopment, the implementation of risk management practices, as outlined in Section 5 of the Risk Management Plan document, is recommended (ETIC 2001a).

2.3 LOCAL GEOLOGY AND HYDROGEOLOGY

The site is underlain by clayey or silty sands with a hydraulic conductivity of about 30 ft/day (HLA 1991). The site is located in an area underlain by Merritt Sand. Due to its limited extent and thickness, the Merritt Sand is generally not considered a drinking water resource (ACFCD 1988). The geologic cross-sections of the site are presented in Figures 9-12 of the CSCR (ETIC 2001b).

A rose diagram indicating historical groundwater flow directions for the period between December 1995 and April 2000 is shown in Figure 13 of the CSCR (ETIC 2001b). The average flow direction, as shown on the rose diagram, is N15W at an average gradient of 0.0027 ft/ft. The diagram shows that the groundwater flow direction has been consistent during the time it has been monitored and does not change significantly throughout the annual hydraulic cycle (ETIC 2001b).

3. SUBSURFACE INVESTIGATION

On 29 June 2001, ETIC supervised the installation of groundwater monitoring well MW100. The well was drilled and installed by Woodward Drilling of Rio Vista, California (C-57 license number 710079). A permit (number W01-471) was obtained from the ACPWA prior to drilling. A copy of the permit is provided in Appendix A. The well was installed to collect groundwater samples to delineate groundwater quality on the northeast side of the site.

3.1 DRILLING OF SOIL BORING

The boring was drilled using a truck-mounted drill rig equipped with 8.25-inch-diameter hollow-stem augers. Prior to drilling, the borehole was cleared to a depth of 4.5 feet below ground surface (bgs) by hand augering. The borehole clearance was performed to ensure that there were no obstructions near the potential path of the drill augers. The hollow-stem augers and downhole equipment were cleaned by pressure washing before drilling began. Equipment rinsate was collected in a trough, pumped into a 55-gallon drum, and temporarily stored on the site. Field methods and procedures are described in the protocols, presented in Appendix B.

3.2 SOIL SAMPLING

Soil samples were collected continuously from 5 feet bgs to 15.5 feet bgs by driving a 2-inch-diameter California-modified split-spoon sampler containing 6-inch brass or stainless steel sleeves ahead of the augers into undisturbed soil. A sleeve from each sample interval was sealed with teflon tape, capped, labeled, and placed in an ice-packed cooler for delivery to the Nestlé Quality Assurance Laboratory. The contents of the remaining sleeves were examined for soil characteristics and screened in the field with an organic vapor analyzer (OVA) to determine the relative hydrocarbon content. Soil descriptions and OVA readings are recorded on the soil boring log presented in Appendix C.

Soil samples collected from MW100 were not analyzed due to the very low OVA readings (1.1 to 3.1 parts per million) and because the boring was located outside the source area; the samples were used for lithologic examination and description.

All soil cuttings generated during drilling were placed in 55-gallon drums, properly labeled, and temporarily stored on the site.

3.3 WELL INSTALLATION

Boring MW100 was completed as a groundwater monitoring well, in accordance with ETIC's protocols (Appendix B) and the well installation requirements issued by the ACPWA. Well construction details are shown on the soil boring log provided in Appendix C.

Groundwater monitoring well MW100 was constructed with 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) blank well casing and screened from 5 to 15 feet bgs with 0.010-inch machine-slotted Schedule 40 PVC casing. A filter pack of # 2/12 sand was placed to 1 feet above the top of the screened interval. The annular space was then sealed with a 2-foot layer of hydrated bentonite pellets, followed by neat cement grout to just below ground surface. Construction details for well

MW100 and other wells sampled as part of ongoing quarterly monitoring activities are summarized in Table 1.

3.4 WELL DEVELOPMENT

Well MW100 was developed after the installation of the sand pack and prior to the installation of neat cement grout. The well was surged with a 2-inch surge block for at least 15 minutes, to enhance the settlement of the sand pack. After surging, the well was then purged using a pressure washed bailer until sediment was removed. Well development procedures are described in Appendix B, and the records of well development are presented in Appendix D.

3.5 GROUNDWATER SAMPLING

Groundwater samples were collected from MW100 on 6 July 2001 to provide baseline results. Groundwater samples were collected with clean disposable bailers. The samples were labeled with the time, date, location, and sample identification number and placed in an ice-filled cooler for delivery to the Nestlé Quality Assurance Laboratory. Groundwater sampling procedures are described in Appendix B, and the groundwater sampling field documents are provided in Appendix D.

3.6 WASTE CONTAINMENT AND DISPOSAL

Two drums of soil were generated during drilling activities. The soil was placed in 55-gallon drums, properly labeled, and temporarily stored on the site. Soil samples will be collected from the drums and submitted to the Nestlé Quality Assurance Laboratory in order to characterize the soil for proper disposal. The waste will be removed from the site and transported to a Nestlé-approved disposal facility.

Water generated during drilling and well development activities was placed in a 55-gallon drum, properly labeled, and temporarily stored on the site. The wastewater will be removed from the site and transported to a Nestlé-approved treatment facility.

4. RESULTS

4.1 SITE GEOLOGY AND HYDROGEOLOGY

The soil stratigraphy encountered during the drilling of well MW100 was generally consistent with historical soil data for the site. The subsurface sediments consist of silty and clayey sand. Detailed soil descriptions for MW100 are presented on the boring log in Appendix C. During drilling, groundwater was first encountered at 8.5 feet bgs. The static groundwater level was measured at 9.85 feet bgs during drilling operations on 29 June 2001. On 6 July 2001, the depth to water in MW100 was 9.18 feet below top of casing.

4.2 GROUNDWATER SAMPLE ANALYTICAL METHODS AND RESULTS

Groundwater samples were collected from MW100, submitted to the Nestlé Quality Assurance Laboratory, and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) and as diesel (TPH-d) by the California DOHS method described in the October 1989 LUFT Field Manual, for benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl t-butyl ether (MTBE) by EPA Method 8020, and for halogenated volatile organic compounds (HVOCs) by EPA Method 8021. Current and historical groundwater analytical results are summarized in Table 2. Copies of the laboratory analytical report and chain-of-custody documentation are provided in Appendix E.

TPH-g, TPH-d, BTEX, MTBE, and HVOCs were not detected at concentrations greater than or equal to laboratory reporting limits in groundwater samples collected from monitoring well MW100.

5. SUMMARY

On 29 June 2001, ETIC supervised the installation of onsite groundwater monitoring well MW100. The well was installed as part of investigative and remedial activities at the former Nestlé facility in Oakland. Groundwater samples were collected from the well and analyzed for petroleum hydrocarbons, BTEX, MTBE, and HVOCs to provide additional information to characterize environmental conditions at the site.

Lithology observed in MW100 is characteristic of that observed in other borings at the site and vicinity. Soils encountered in the boring consist of silty and clayey sand.

TPH-g, TPH-d, BTEX, MTBE, and HVOCs were not detected at concentrations greater than or equal to laboratory reporting limits in groundwater samples collected from groundwater monitoring well MW100. The newly installed well will be incorporated into the quarterly monitoring schedule for the site.

REFERENCES

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AGE (Anania Geologic Engineering). 1989b. Remedial Action Plan for the Carnation Oakland Dairy Facility Located at 1310 14th Street, Oakland, California, Alameda County. AGE, Rancho Cordova, California. 3 April.

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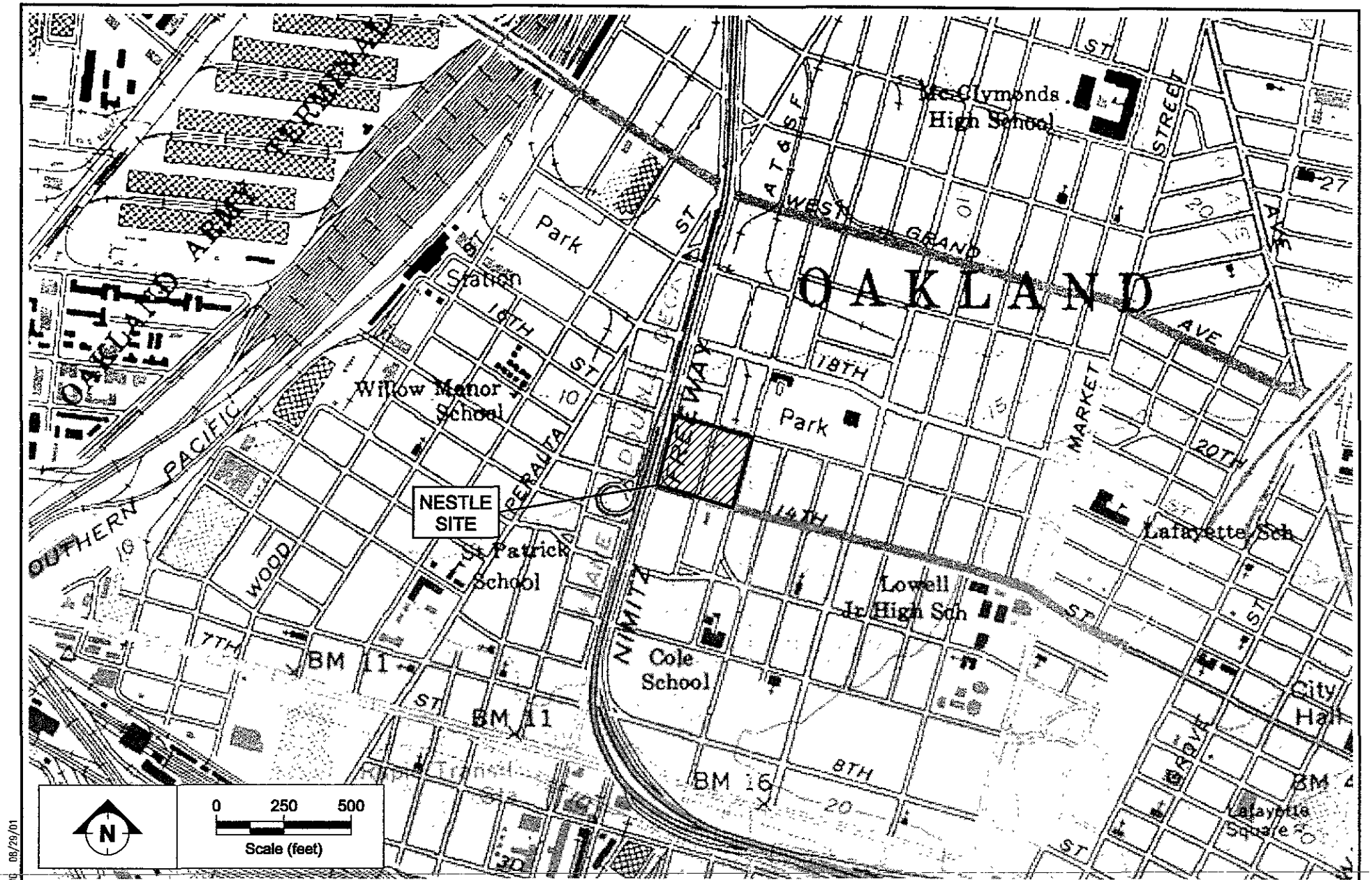
Park (Park Environmental). 1994. Vapor Extraction Remediation Update, October 1993 through April 1994, Carnation Company Facility, 1310 14th Street, Oakland, California. Park, Rocklin, California. 19 May.

Figures

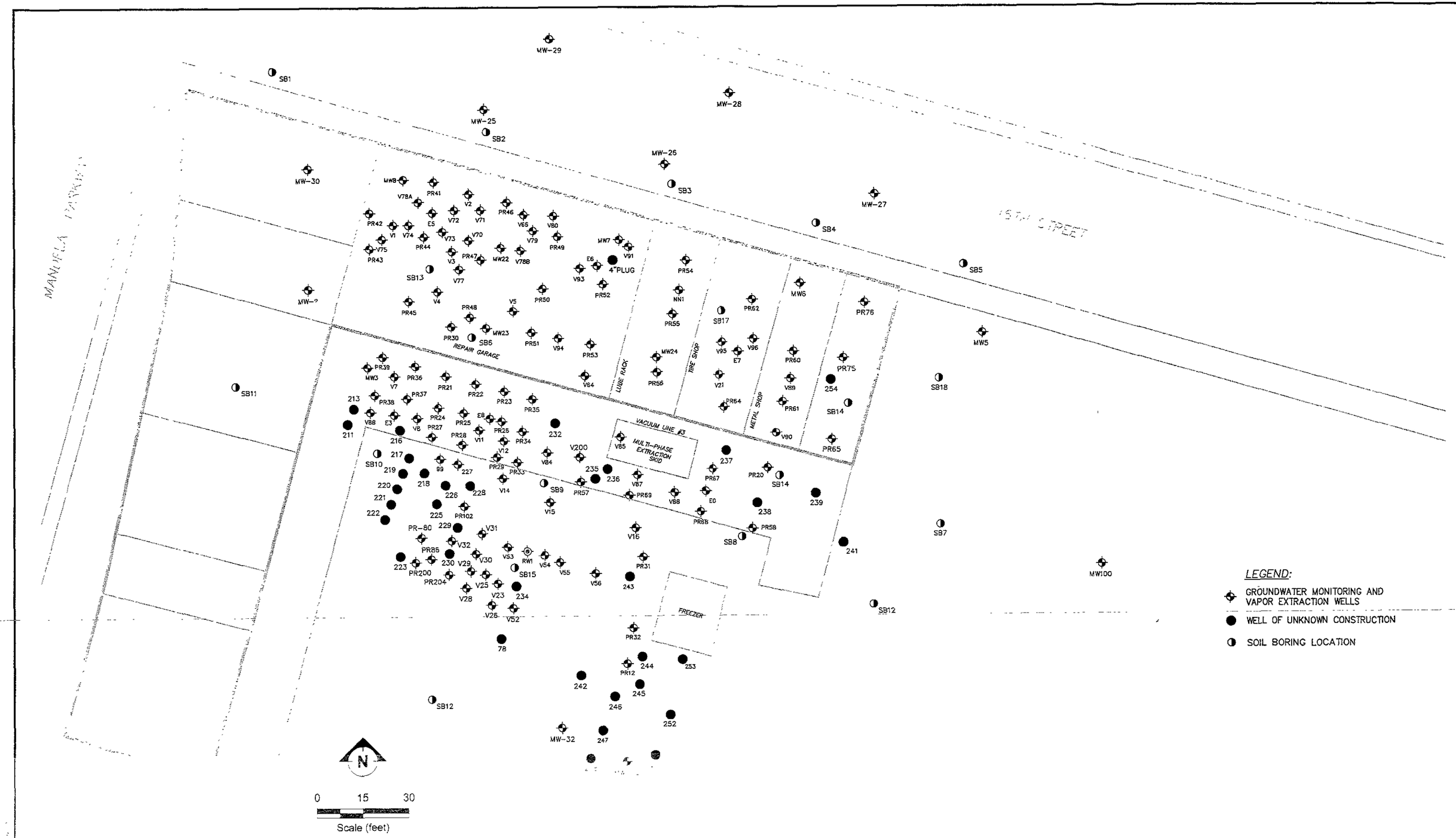


ETIC Engineering, Inc.

LOCATION AND VICINITY MAP
NESTLE OAKLAND FACILITY
1310 14th STREET, OAKLAND, CALIFORNIA

FIGURE: 1

FILENAME: TOPO0801.DWG 08/29/01



LEGEND:

- GROUNDWATER MONITORING AND VAPOR EXTRACTION WELLS
- WELL OF UNKNOWN CONSTRUCTION
- SOIL BORING LOCATION

ETIC Engineering, Inc.

SITE PLAN SHOWING WELL AND BORING LOCATIONS
FORMER NESTLE OAKLAND FACILITY
1310 14th STREET, OAKLAND, CALIFORNIA

FIGURE 2

Tables

TABLE 1 CONSTRUCTION DETAILS FOR WELLS SAMPLED AS PART OF ONGOING QUARTERLY MONITORING PLAN
FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA

Well Type	Well Name	Casing Diameter (in.)	Total Casing Depth (ft. bgs)	Top of Screen (ft. bgs)	Bottom of Screen (ft. bgs)	Length of Screened Interval (ft.)	Screen Slot Size (in.)	Filter Pack Type	Seal Type	Seal Top Depth (ft. bgs)	Seal Base Depth (ft. bgs)
Groundwater Monitoring Well	MW3	4.0	25.0	7.0	25.0	18.0	0.030	#3 Sand	Bentonite	4.0	5.0
Groundwater Monitoring Well	MW6	4.0	17.0	7.0	17.0	10.0	0.030	#3 Sand	Bentonite	4.0	5.0
Groundwater Monitoring Well	MW25	4.0	22.5	7.5	22.5	15.0	0.020	#2/16 Sand	Bentonite	5.0	6.5
Groundwater Monitoring Well	MW26	4.0	25.0	10.0	25.0	15.0	0.020	#2/16 Sand	Bentonite	7.5	9.0
Groundwater Monitoring Well	MW27	4.0	24.5	9.0	24.0	15.0	0.020	#2/16 Sand	Bentonite	6.5	8.0
Groundwater Monitoring Well	MW28	4.0	27.0	9.0	27.0	18.0	0.020	#2/16 Sand	Bentonite	6.5	8.0
Groundwater Monitoring Well	MW29	4.0	25.0	9.0	25.0	16.0	0.020	#2/16 Sand	Bentonite	6.5	8.0
Groundwater Monitoring Well	MW30*	2.0	15.6	5.8	15.6	9.9	NR	NR	NR	NR	NR
Groundwater Monitoring Well	MW32*	4.0	23.3	3.6	23.3	19.7	NR	NR	NR	NR	NR
Groundwater Monitoring Well	MW33*	4.0	25.0	2.8	25.0	22.2	NR	NR	NR	NR	NR
Groundwater Monitoring Well	**MW100**	**2.0**	**15.0**	**5.0**	**15.0**	**10.0**	**0.010**	**#2/12 Sand**	**Bentonite**	**2.0**	**4.0**
Product Recovery Well	PR45	2.0	15.0	5.0	15.0	10.0	0.030	#3 Sand	Bentonite	3.0	4.0
Product Recovery Well	PR52	2.0	15.0	5.0	15.0	10.0	0.030	#3 Sand	Bentonite	3.0	4.0
Product Recovery Well	PR53	2.0	15.0	5.0	15.0	10.0	0.030	#3 Sand	Bentonite	3.0	4.0
Product Recovery Well	PR54	2.0	15.0	5.0	15.0	10.0	0.030	#3 Sand	Bentonite	3.0	4.0
Product Recovery Well	PR64	2.0	15.0	5.0	15.0	10.0	0.030	#3 Sand	Bentonite	3.0	4.0
"Numbered" Well	CC1*	2.0	11.4	7.5	11.4	3.9	NR	NR	NR	NR	NR
"Numbered" Well	CC2*	2.0	12.1	7.3	12.1	4.8	NR	NR	NR	NR	NR
"Numbered" Well	223*	2.0	15.0	5.5	15.0	9.5	NR	NR	NR	NR	NR
"Numbered" Well	239*	2.0	14.5	5.3	14.5	9.3	NR	NR	NR	NR	NR
Vapor Well	V55*	4.0	8.5	0.7	8.5	7.8	NR	NR	NR	NR	NR
Vapor Well	V72	4.0	11.6	2.2	11.6	9.5	NR	NR	NR	NR	NR
Vapor Well	V84*	4.0	10.8	1.2	10.8	9.6	NR	NR	NR	NR	NR

NR = Not reported.
* = Data from 08/28/00 video logging.

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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	
	07/22/99	<0.5	<0.5	<0.5	<0.5	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-3	03/23/93	35	2.9	2	3.2	300	ND	--	--	--	--	--	
	07/27/93	97	1	4	1.1	220	ND	--	--	--	--	--	
	11/05/93	4.9	ND	ND	1.2	170	ND	--	--	--	--	--	
	02/25/94	42	<1	<1	<1	100	<1,000	--	--	--	--	--	
	06/03/94	120	8.2	8.4	4.5	320	<20,000	--	--	--	--	--	
	08/31/94	83	1.1	5.3	2.9	<500	<500	--	--	--	--	--	
	12/22/94	1,460	18	100	50	3,800	270	--	--	--	--	--	
	03/13/95	3,600	260	270	280	14,000	1,700	--	--	--	--	--	
	06/09/95	4,700	58	140	71	3,700	120	--	--	--	--	--	
	09/21/95	9,800	58	600	95	14,000	300	--	--	--	--	--	
	12/12/95	330	2.1	47	5.3	700	<50	--	--	--	--	--	
	03/12/96	350	4.6	23	8.7	600	<50	--	--	--	--	--	
	06/21/96	940	76	98	57	1,900	<50	--	--	--	--	--	
	08/29/96	420	29	44	28	900	<150	--	--	--	--	--	
	01/16/97	1,600	270	120	194	3,600	700	<0.5	9.2	<0.5	<0.5	--	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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	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	
	07/23/99	1,500	140	76.0	260	4,000	790	<0.5	1.0	<0.5	<0.5	5.60	
	10/28/99	1,100	43	58	102	3,000	600	<0.5	0.9	--	<0.5	--	
	02/10/00	690	22	36	49	1,400	520	<0.5	<0.5	<0.5	<0.5	2.20	
	04/27/00	1,100	140	73	163	2,400	250	<0.5	0.6	<0.5	<0.5	<0.5	
	08/03/00	520	7.7	21	27	1,100	750	<0.5	0.6	<0.5	<0.5	<0.5	
	10/23/00	2,000	16	22	46	3,800	760	<0.5	0.7	<0.5	<0.5	<0.5	
	01/31/01	360	8.6	14	28	860	300	<0.5	0.6	<0.5	<0.5	<0.5	
	04/26/01	808	60.6	46.8	115	1,530	280	<0.5	0.8	<0.5	<0.5	<0.5	
MW-5	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	<150	<0.5	<0.5	<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	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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-6	10/24/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	7.7	<0.5	<0.5	<0.5	
	01/31/01	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	6.9	<0.5	<0.5	<0.5	
	04/27/01	<0.5	<0.5	<0.5	<0.5	<200	<250	<0.5	6.6	<0.5	<0.5	<0.5	
MW-11	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	<0.5	
MW-12	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	<0.5	
MW-13	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	<0.5	
MW-15	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	430	<0.5	<0.5	<0.5	<0.5	<0.5	
	07/22/99	<0.5	<0.5	<0.5	<0.5	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-25	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	4.2	4.4	2.5	20	170	ND	--	--	--	--	--	
	02/25/94	2.1	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	2.4	14	<0.5	3.4	97	<20,000	--	--	--	--	--	
	08/31/94	0.5	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	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	
	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	340	28	59	<0.5	<0.5	28	h
	04/07/99	<0.5	<0.5	<0.5	<0.5	<50	<250	27	72	<0.5	<0.5	27	i
	07/23/99	1.80	<0.5	<0.5	<0.5	<50	<200	30	58	<0.5	<0.5	23.0	
	10/27/99	<0.5	1.4	<0.5	1.0	<100	<200	35	47	--	<0.5	--	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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	02/08/00	<0.5	<0.5	<0.5	<0.5	100	<250	39	41	<0.5	<0.5	29.0	q
	04/26/00	<0.5	<0.5	<0.5	<0.5	<100	<250	51	38	<0.5	<0.5	18	t
	08/03/00	<0.5	<0.5	<0.5	<0.5	<50	<250	40	57	<0.5	<0.5	27	w
	10/23/00	<0.5	<0.5	<0.5	<0.5	<50	<250	54	68	<0.5	<0.5	38	B
	01/31/01	<0.5	<0.5	<0.5	<0.5	90	<250	52	46	<0.5	<0.5	22	D
	04/26/01	<0.5	0.62	<0.5	<0.5	<200	<250	49	37	<0.5	<0.5	15.8	L
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	
	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	
	02/05/99	20	<0.5	0.60	0.80	230	230	10	51	<0.5	<0.5	29	
	04/07/99	<0.5	<0.5	<0.5	<0.5	80	<250	15	54	<0.5	<0.5	25	
	07/23/99	7.10	<0.5	<0.5	0.80	180	<200	12	32	<0.5	<0.5	12.0	
	10/27/99	14	1.4	2.9	7.8	400	<200	13	30	--	<0.5	--	
	02/08/00	<0.5	<0.5	<0.5	<0.5	80	<250	13	32	<0.5	<0.5	28.0	
	04/26/00	0.7	<0.5	0.6	<0.5	200	340	7.5	39	<0.5	<0.5	22	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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	08/03/00	6.8	<0.5	0.6	1.4	<50	<250	7.4	19	<0.5	<0.5	19	
	10/23/00	10	0.8	1.7	1.7	80	<250	5.1	37	<0.5	<0.5	26	
	01/31/01	26	0.70	2.4	2.2	390	320	5.7	51	<0.5	<0.5	33	
	04/26/01	10.6	<0.5	0.70	1.04	400	350	16	39	<0.5	<0.5	28.5	
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	
	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	<150	<0.5	0.7	<0.5	<0.5	<0.5	
	07/23/99	<0.5	<0.5	<0.5	<0.5	<50	<200	<0.5	0.7	<0.5	<0.5	<0.5	
	10/27/99	<0.5	<0.5	<0.5	<0.5	<100	<200	<0.5	<0.5	--	<0.5	--	
	02/08/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/27/00	<0.5	<0.5	<0.5	<0.5	<100	250	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/16/00	<0.5	<0.5	<0.5	<0.5	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	
	10/23/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	01/31/01	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/26/01	<0.5	<0.5	<0.5	<0.5	<200	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
MW-28	03/23/93	ND	ND	ND	ND	110	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	ND	2.1	ND	ND	--	--	--	--	--	
	02/25/94	<1	<1	<1	<1	<100	<1	--	--	--	--	--	
	06/03/94	3.1	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	1.4	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.91	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	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	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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-28	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	
	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	<150	32	29	<0.5	<0.5	5.0	h
	04/07/99	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	62	<0.5	<0.5	4.5	
	07/23/99	<0.5	<0.5	<0.5	<0.5	<50	<200	<0.5	50	<0.5	<0.5	1.80	
	10/27/99	--	--	--	--	--	<200	--	--	--	--	--	
	11/02/99	0.7	<0.5	<0.5	<0.5	<100	--	<0.5	32	--	<0.5	--	
	02/08/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	39	<0.5	<0.5	4.30	
	04/26/00	<0.5	<0.5	<0.5	<0.5	<100	<250	<0.5	50	<0.5	<0.5	1.5	
	08/03/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	47	<0.5	<0.5	3.7	
	10/23/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	57	<0.5	<0.5	4.7	
	01/31/01	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	46	<0.5	<0.5	4.4	
	04/26/01	<0.5	<0.5	<0.5	<0.5	<200	<250	<0.5	26	<0.5	<0.5	1.98	
MW-29	03/23/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	07/27/93	ND	ND	ND	ND	ND	ND	--	--	--	--	--	
	11/05/93	ND	ND	2.1	11	ND	ND	--	--	--	--	--	
	02/25/94	<1	<1	<1	<1	<100	<1,000	--	--	--	--	--	
	06/03/94	<0.5	<0.5	<0.5	<0.5	<50	<20,000	--	--	--	--	--	
	08/31/94	<0.3	<0.3	<0.3	<0.6	<500	<500	--	--	--	--	--	
	12/22/94	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	a
	03/13/95	0.59	<0.5	<0.5	<0.5	<50	<400	--	--	--	--	--	
	06/09/95	<0.5	<0.5	<0.5	<0.5	<100	<50	--	--	--	--	--	
	09/21/95	<0.5	<0.5	<0.5	<0.5	<50	<50	--	--	--	--	--	
	12/12/95	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	03/12/96	<0.5	<0.5	<0.5	<1.0	<100	<50	--	--	--	--	--	
	06/21/96	--	--	--	--	--	--	--	--	--	--	--	
	08/29/96	<0.5	<0.5	<0.5	<0.5	<50	<150	--	--	--	--	--	
	01/16/97	6.6	8.9	0.6	9.3	120	<150	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	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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	07/22/98	<0.5	<0.5	<0.5	<0.5	<50	<250	12	29	--	<1.0	7.8	
	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	<150	<0.5	68	<0.5	<0.5	8.5	
	04/07/99	<0.5	<0.5	<0.5	<0.5	<50	<250	30	38	<0.5	<0.5	4.9	j
	07/23/99	<0.5	<0.5	<0.5	<0.5	<50	<200	44	33	<0.5	1.9	4.70	k, l
	10/27/99	<0.5	<0.5	<0.5	<0.5	<100	<200	36	23	--	<0.5	--	
	02/08/00	<0.5	<0.5	<0.5	<0.5	<50	<250	87	25	<0.5	<0.5	18.0	s
	04/26/00	<0.5	<0.5	<0.5	<0.5	<100	<250	61	38	<0.5	<0.5	12	u
	08/16/00	<0.5	<0.5	<0.5	<0.5	<50	--	49	21	<0.5	<0.5	17	v
	10/23/00	<0.5	<0.5	<0.5	<0.5	<50	<250	94	40	<0.5	<0.5	34	C
	01/31/01	<0.5	<0.5	<0.5	<0.5	60	<250	100	35	<0.5	<0.5	26	E
	04/26/01	<0.5	<0.5	<0.5	<0.5	<200	270	87	38	<0.5	<0.5	39.1	M
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	
	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	
	04/07/99	<0.5	<0.5	<0.5	<0.5	<50	<250	--	--	--	--	<0.5	
	07/22/99	<0.5	<0.5	<0.5	<0.5	<50	--	<0.5	<0.5	<0.5	<0.5	<0.5	
	10/28/99	<0.5	<0.5	<0.5	<0.5	<100	<200	<0.5	<0.5	--	<0.5	--	
	02/08/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/27/00	<0.5	<0.5	<0.5	<0.5	<100	250	<0.5	<0.5	<0.5	<0.5	<0.5	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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	08/04/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	10/24/00	5.4	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	01/31/01	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/27/01	<0.5	<0.5	<0.5	<0.5	<200	<250	<0.5	<0.5	<0.5	<0.5	<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	
	07/22/99	59.0	0.80	1.80	<0.5	900	220	<0.5	5.9	<0.5	<0.5	8.70	
	10/28/99	95	2.5	2.1	1.6	500	<200	<0.5	12	--	<0.5	--	
	02/10/00	7.0	<0.5	<0.5	<0.5	120	<250	<0.5	4.3	<0.5	<0.5	1.10	
	04/27/00	240	7.0	12	18.8	800	250	<0.5	9.8	<0.5	<0.5	<0.5	
	08/03/00	620	3.0	14	4.1	1,300	<250	<0.5	3.0	<0.5	<0.5	<0.5	
	10/23/00	430	4.30	5.50	8.80	1,200	260	<0.5	7.8	<0.5	<0.5	<0.5	
	01/31/01	42	1.5	0.90	2.8	280	<250	<0.5	5.7	<0.5	<0.5	3.6	
	04/26/01	268	13.0	22.1	22.0	780	<250	<0.5	6.3	<0.5	<0.5	<0.5	
MW-33	04/07/99	0.60	<0.5	0.90	<0.5	<50	<250	--	--	--	--	<0.5	
	07/22/99	8.90	<0.5	1.00	<0.5	<50	<200	0.6	0.7	<0.5	<0.5	<0.5	
	10/28/99	40	0.9	21	3.8	200	<200	0.8	1.3	--	<0.5	--	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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-33	02/10/00	20	0.7	12	10.0	380	<250	0.9	0.6	<0.5	<0.5	1.30	
	04/27/00	6.9	<0.5	6.4	<0.5	<100	250	4.3	0.9	<0.5	<0.5	<0.5	
	08/03/00	31	0.5	20	1.0	150	550	<0.5	0.6	<0.5	<0.5	<0.5	
	10/23/00	89	1.5	36	3.9	350	<250	<0.5	2.1	<0.5	<0.5	<0.5	
	01/31/01	6.8	<0.5	2.0	<0.5	<50	<250	1.9	0.6	<0.5	<0.5	0.7	
	04/26/01	6.61	0.56	1.63	0.61	<200	<250	2.6	<0.5	<0.5	<0.5	<0.5	
MW100	**07/06/01**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<200**	**<250**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	
MW-?	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	430	--	--	--	--	<0.5	
PR-26	07/26/99	20,000	15,000	1,100	7,250	82,500	11,000	--	--	--	--	33.0	
	10/26/99	28,000	25,000	2,300	8,400	110,000	60,000	<0.5	24	--	<0.5	--	
PR-45	07/26/99	13,200	8,200	2,600	15,600	82,500	39,000	--	--	--	--	35.0	
	10/28/99	12,000	8,200	1,700	8,500	45,000	25,000	<0.5	<0.5	--	<0.5	--	
	02/09/00	24,000	25,000	10,000	53,000	360,000	82,000	<0.5	4.0	<0.5	<0.5	1,000	
	04/27/00	17,000	9,500	16,000	92,000	1,300,000	20,300	<5.0	<5.0	<5.0	<5.0	<5.0	
	08/04/00	20,000	8,800	2,600	16,000	73,000	54,500	<0.5	1.0	<0.5	<0.5	<0.5	
	10/23/00	26,000	12,000	4,000	20,000	96,000	36,000	<0.5	1.2	<0.5	<0.5	<5.0	x
	04/27/01	16,200	8,600	3,220	19,000	178,000	22,700	<0.5	14	<0.5	<0.5	<25	O
PR-52	07/26/99	12,000	1,720	750	12,400	172,000	40,000	<0.5	1.8	<0.5	<0.5	217	m
	10/28/99	19,000	530	1,800	5,800	40,000	450,000	<0.5	<0.5	--	<0.5	--	
	02/09/00	22,000	1,600	4,100	15,800	200,000	140,000	<0.5	1.3	<0.5	<0.5	430	
	04/28/00	20,000	2,200	4,700	18,600	270,000	88,000	<1.0	<1.0	<1.0	<1.0	<5.0	
	08/04/00	26,000	1,600	2,900	15,000	150,000	110,000	<0.5	2.3	<0.5	<0.5	<0.5	
	10/24/00	52,000	13,000	41,000	180,000	650,000	280,000	<5.0	<5.0	<5.0	<5.0	<5.0	
	01/31/01	81,000	840	57,000	210,000	5,300,000	276,000	<0.5	1.0	<0.5	<0.5	500	J, K
	04/27/01	25,000	16,300	14,700	55,000	886,000	134,000	<0.5	<0.5	<0.5	<0.5	1,040	R
PR-53	07/26/99	31,000	12,000	1,900	8,800	110,000	98,000	<0.5	43	<0.5	<0.5	43.0	n
	10/27/99	17,000	3,900	890	3,320	54,000	16,000	<0.5	18	--	<0.5	--	
	02/09/00	21,000	5,000	1,200	5,300	65,000	9,400	0.6	20	<0.5	<0.5	67.0	r
	04/28/00	34,000	30,000	9,300	51,000	730,000	104,000	<1.0	<1.0	<1.0	<1.0	340	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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
PR-53	08/04/00	35,000	17,000	3,800	24,000	180,000	69,500	<0.5	1.7	<0.5	<0.5	110	
	10/24/00	99,000	110,000	80,000	640,000	580,000	380,000	<5.0	5.0	<5.0	<5.0	380	
	01/31/01	66,000	15,000	28,000	140,000	2,400,000	960,000	<0.5	1.5	<0.5	<0.5	660	H, I
	04/27/01	55,500	10,000	23,700	137,000	4,240,000	806,000	<0.5	<0.5	<0.5	<0.5	<5,000	Q
PR-54	07/26/99	32,000	22,000	1,500	21,800	170,000	28,000	<0.5	3.0	<0.5	<0.5	56.0	o
	10/26/99	27,000	10,000	3,700	19,500	190,000	350,000	<0.5	<0.5	--	<0.5	--	
	02/09/00	27,000	23,000	9,900	50,000	960,000	110,000	<0.5	3.9	<0.5	<0.5	1,000	
	04/28/00	24,000	14,000	1,200	9,000	76,000	80,000	<1.0	1.6	<1.0	<1.0	300	
	08/04/00	27,000	7,600	1,400	11,000	120,000	54,500	<0.5	2.0	<0.5	<0.5	200	
	10/24/00	23,000	4,400	2,000	13,000	140,000	96,000	<0.5	2.3	<0.5	<0.5	<100	y, z
	01/31/01	30,000	8,300	3,300	21,000	220,000	236,000	<0.5	2.6	<0.5	<0.5	480	F, G
	04/27/01	26,100	8,650	2,120	15,900	51,300	108,000	<0.5	<0.5	<0.5	<0.5	<500	P
PR-64	07/26/99	22,000	18,000	1,700	10,300	110,000	--	<0.5	130	<0.5	<0.5	35.0	p
	10/27/99	11,000	7,400	1,200	3,900	66,000	50,000	<0.5	110	--	<0.5	--	
	02/09/00	22,000	20,000	6,000	17,000	120,000	40,000	<0.5	>50	<0.5	<0.5	110	
	04/28/00	19,000	16,000	1,800	13,900	130,000	78,000	<1.0	67	<1.0	<1.0	300	
PR-65	07/26/99	12,000	1,400	1,300	13,000	68,000	16,500	<0.5	2.6	<0.5	<0.5	20.0	
	10/26/99	14,000	2,300	1,800	11,000	65,000	50,000	<0.5	<0.5	--	<0.5	--	
PR-68	07/26/99	1,900	24.0	27.0	62.0	4,900	11,000	<0.5	1.2	<0.5	<0.5	4.40	
	10/26/99	2,800	36	86	62	8,000	2,800	<0.5	<0.5	--	<0.5	--	
PR-76	04/07/99	<0.5	<0.5	<0.5	<0.5	<50	<250	--	--	--	--	<0.5	
V-24	04/07/99	<0.5	<0.5	<0.5	<0.5	120	<250	--	--	--	--	0.5	
V-31	07/26/99	7,000	600	550	1,370	17,500	5,350	--	--	--	--	19.0	
	10/26/99	7,000	120	850	950	18,000	3,000	<0.5	<0.5	--	<0.5	--	
V-46	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	270	<0.5	<0.5	<0.5	<0.5	<0.5	
V-55	07/22/99	8,000	480	740	2,880	30,000	2,100	<0.5	<0.5	<0.5	<0.5	13.0	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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
V-55	10/28/99	11,000	59	1,200	317	28,000	38,000	<0.5	<0.5	--	<0.5	--	
	02/09/00	2,200	59	760	350	7,900	10,000	<0.5	<0.5	<0.5	<0.5	9.70	
	04/28/00	2,900	510	440	2,340	14,000	26,500	<5.0	<5.0	<5.0	<5.0	<5.0	
	08/03/00	9,400	380	720	2,200	28,000	70,000	<0.5	<0.5	<0.5	<0.5	<0.5	
	10/23/00	11,000	140	900	1,300	30,000	51,000	<0.5	<0.5	<0.5	<0.5	<12	
	01/31/01	4,600	57	550	1,200	34,000	88,500	<0.5	<0.5	<0.5	<0.5	44	
	04/26/01	6,400	61.5	250	336	34,200	227,000	<0.5	<0.5	<0.5	<0.5	<25	
V-72	07/26/99	13,500	6.80	1.10	3.90	3,900	12,900	<0.5	11	<0.5	<0.5	<0.5	
	10/28/99	2,900	58	21	47.7	6,000	48,000	<0.5	3.4	--	<0.5	--	
	02/09/00	670	8.2	<0.5	17.8	890	6,100	<0.5	3.0	<0.5	<0.5	<0.5	
	04/28/00	130	<0.5	<0.5	<0.5	200	5,950	<0.5	0.7	<0.5	<0.5	<0.5	
	08/04/00	460	0.8	<0.5	0.6	440	4,120	<0.5	2.8	<0.5	<0.5	<0.5	
	10/24/00	2,700	3.2	0.5	2.3	3,500	17,000	<0.5	4.0	<0.5	<0.5	<0.5	
	04/27/01	1,240	2.05	<0.5	2.78	1,310	6,290	<0.5	5.1	<0.5	<0.5	<0.5	S
V-84	07/26/99	2,400	440	80.0	340	8,700	2,350	<0.5	2.4	<0.5	<0.5	6.40	
	10/26/99	1,100	130	46	108	4,000	700	<0.5	<0.5	--	<0.5	--	
	02/09/00	300	30	8.9	53	2,300	1,100	<0.5	1.2	<0.5	<0.5	<0.5	
	04/28/00	30	1.9	<0.5	<0.5	100	550	<5.0	<5.0	<5.0	<5.0	<0.5	
	08/04/00	900	110	34	120	2,700	1,380	<0.5	1.0	<0.5	<0.5	<0.5	
	10/24/00	2,000	480	24	110	48,000	1,900	<0.5	1.0	<0.5	<0.5	<0.5	
	01/31/01	68	1.3	5.3	8.2	970	1,820	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/26/01	925	97.0	45.4	59.7	2,360	1,180	<0.5	0.8	<0.5	<0.5	<0.5	
29 (CC-1)	07/23/99	<0.5	<0.5	<0.5	<0.5	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	
	10/28/99	<0.5	<0.5	<0.5	<0.5	<100	<200	<0.5	<0.5	--	<0.5	--	
	02/08/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/26/00	<0.5	<0.5	<0.5	<0.5	<100	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/03/00	1.4	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	10/23/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	01/31/01	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/26/01	<0.5	<0.5	<0.5	<0.5	<200	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
30 (CC-2)	07/22/99	0.90	<0.5	<0.5	<0.5	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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
30 (CC-2)	10/28/99	<0.5	<0.5	<0.5	<0.5	<100	<200	<0.5	<0.5	--	<0.5	--	
	02/08/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/26/00	<0.5	<0.5	<0.5	<0.5	<100	<250	<0.5	0.7	<0.5	<0.5	<0.5	
	08/03/00	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	10/23/00	<0.5	<0.5	<0.5	<0.5	<50	340	<0.5	0.9	<0.5	<0.5	<2.5	
	01/31/01	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/26/01	<0.5	<0.5	<0.5	<0.5	<200	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
81	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	<150	<0.5	<0.5	<0.5	<0.5	<0.5	
	07/22/99	0.70	<0.5	<0.5	<0.5	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	
94	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	170	--	--	--	--	<0.5	
	07/22/99	<0.5	<0.5	<0.5	<0.5	<50	<200	<0.5	<0.5	<0.5	<0.5	<0.5	
210	02/05/99	<0.5	<0.5	<0.5	<0.5	<50	960	--	--	--	--	<0.5	
223	10/26/99	<0.5	<0.5	<0.5	<0.5	<100	<200	<0.5	<0.5	--	<0.5	--	
	02/10/00	<0.5	<0.5	<0.5	<0.5	<50	640	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/27/00	<0.5	<0.5	<0.5	<0.5	<100	250	<0.5	<0.5	<0.5	<0.5	<0.5	
	08/03/00	<0.5	<0.5	<0.5	<0.5	<50	680	<0.5	<0.5	<0.5	<0.5	<0.5	
	10/23/00	1.30	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	A
	01/31/01	<0.5	<0.5	<0.5	<0.5	<50	<250	<0.5	<0.5	<0.5	<0.5	<0.5	
	04/26/01	<0.5	<0.5	<0.5	<0.5	<200	390	<0.5	<0.5	<0.5	<0.5	<0.5	N
224	07/26/99	<0.5	<0.5	<0.5	<0.5	<50	640	<0.5	<0.5	<0.5	<0.5	<0.5	
239	07/26/99	55,000	85.0	1,500	190	30,000	--	<0.5	<0.5	<0.5	<0.5	5.30	
	10/26/99	23,000	53	1,500	103.2	28,000	10,000	<0.5	<0.5	--	<0.5	--	
	02/10/00	40,000	48	1,900	52	44,000	21,000	<0.5	1.0	<0.5	<0.5	14.0	
	04/28/00	25,000	540	2,000	710	36,000	12,500	<5.0	<5.0	<5.0	<5.0	<5.0	
	08/04/00	25,000	220	1,900	920	45,000	32,500	<0.5	0.6	<0.5	<0.5	<0.5	
	10/24/00	24,000	100	1,500	390	50,000	50,000	<0.5	<0.5	<0.5	<0.5	<5.0	
	01/31/01	23,000	84	1,900	200	52,000	112,000	<0.5	0.9	<0.5	<0.5	<0.5	
	04/26/01	23,900	113	1,990	590	298,000	143,000	<0.5	<0.5	<0.5	<0.5	<25	

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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
241	04/07/99	<0.5	<0.5	<0.5	<0.5	<50	<250	--	--	--	--	<0.5	
249	07/22/99	<0.5	<0.5	<0.5	<0.5	<50	<200	<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. cis-1,2-DCE detected, 0.7 µg/L.
f. cis-1,2-DCE detected, 0.8 µg/L.
g. Values for benzene and ethylbenzene are estimated.
h. 1,1-DCE detected, 0.9 µg/L.
i. 1,1-DCE detected, 1.6 µg/L.
j. 1,1-DCE detected, 1.4 µg/L.
k. 1,1-Dichloroethene detected at 2.3 µg/L.
l. cis-1,2-Dichloroethene detected at 2.3 µg/L.
m. Methylene chloride detected at 7.9 µg/L.
n. Methylene chloride detected at 6.2 µg/L.
o. Methylene chloride detected at 2.5 µg/L.
p. Methylene chloride detected at 1.4 µg/L.
q. 1,1-Dichloroethene detected at 3.1 µg/L.
r. Methylene chloride detected at 0.8 µg/L.
s. 1,1-Dichloroethene detected at 9.6 µg/L.
t. 1,1-Dichloroethene detected at 4.2 µg/L.
u. 1,1-Dichloroethene detected at 5.2 µg/L.
v. 1,1-Dichloroethene detected at 6.0 µg/L.
w. 1,1-Dichloroethene detected at 2.6 µg/L.
x. Chloroethane detected at 6.0 µg/L.
y. Chloroethane detected at 5.3 µg/L.
z. Methylene chloride detected at 2.3 µg/L.
A. Chlorobenzene detected at 0.9 µg/L.
B. 1,1-Dichloroethene detected at 3.5 µg/L.
C. 1,1-Dichloroethene detected at 14 µg/L.
D. 1,1-Dichloroethene detected at 6.5 µg/L.

TABLE 2 CONCENTRATIONS (µg/L) OF ORGANIC COMPOUNDS IN GROUNDWATER SAMPLES, FORMER NESTLE FACILITY, OAKLAND, CALIFORNIA, 1993–2001

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

E. 1,1-Dichloroethene detected at 13 µg/L.
F. Chloroethane detected at 2.8 µg/L.
G. Methylene chloride detected at 1.7 µg/L.
H. Chloroethane detected at 1.7 µg/L.
I. Methylene chloride detected at 0.9 µg/L.
J. Chloroethane detected at 2.4 µg/L.
K. Methylene chloride detected at 0.6 µg/L.
L. 1,1-Dichloroethene detected at 6.0 µg/L.
M. 1,1-Dichloroethene detected at 12 µg/L.
N. 1,2-Dichlorobenzene detected at 0.5 µg/L.
O. Chloroethane detected at 4.6 µg/L.
P. Chloroethane detected at 3.0 µg/L.
Q. Chloroethane detected at 1.7 µg/L; methylene chloride detected at 1.1 µg/L.
R. Chloroethane detected at 1.5 µg/L.
S. Dichlorodifluoromethane detected at 0.8 µg/L.

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-DCE	1,1-Dichloroethene.
1,1,1-TCA	1,1,1-Trichloroethane.
c 1,2-DCE	cis 1,2-Dichloroethylene.
TCE	Trichloroethene.
MTBE	Methyl t-butyl ether.

Appendix A

Well Installation Permit

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554
FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Nestle Oakland Facility
1310 14th Street
Oakland, California

CLIENT
Name Nestle USA, Inc. Phone (818) 549-5948
Address 800 North Brand Blvd. Zip 91203
City Glendale, CA

APPLICANT
Name ETIC Engineering, Inc. Fax (925) 602-4720
Address Bryan Campbell Phone (925) 602-4710
Address 2285 Morello Ave Zip 94523
City Pleasant Hill

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	0	General	0
Water Supply	0	Contamination	0
Monitoring	X	Well Destruction	0

PROPOSED WATER SUPPLY WELL USE

New Domestic	0	Replacement Domestic	0
Municipal	0	Irrigation	0
Industrial	0	Other	

DRILLING METHOD:

Mud Rotary	0	Air Rotary	0
Cable	0	Other	0
		Auger	X

DRILLER'S NAME Woodward Drilling
DRILLER'S LICENSE NO. C57-710079

WELL PROJECTS
Drill Hole Diameter 8.25 in. Maximum Depth 16 ft.
Casing Diameter 4 in. Owner's Well Number MW100
Surface Seal Depth 4 ft.

GEOTECHNICAL PROJECTS
Number of Borings ____ Maximum Depth ____ ft.
Hole Diameter ____ in.

ESTIMATED STARTING DATE 6/21/01
ESTIMATED COMPLETION DATE 6/21/01

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ DATE 6/12/01

PLEASE PRINT NAME Bryan Campbell

FOR OFFICE USE

PERMIT NUMBER W01-471
WELL NUMBER
APN

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC
Fill hole anode zone with concrete placed by tremie

F. WELL DESTRUCTION
Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED _____ DATE 6-14-01

Rev. 5-13-00

Appendix B

Protocols for Well Drilling, Completion, Development, and Sampling

PROTOCOLS FOR WELL DRILLING, COMPLETION, DEVELOPMENT, AND SAMPLING

DRILLING

Prior to drilling, the proposed boring location was cleared utilizing the services of Underground Service Alert (USA) and a utility line locating service. The borehole was also cleared of underground utilities to a depth of at least 4.5 feet below ground surface (bgs) using a hand auger.

The borehole was drilled with a truck-mounted rotary drill, using hollow-stem continuous-flight augers. The diameter of the augers was selected to provide an annular space between the boring wall and the well casing of no less than 2 inches.

All augers were pressure-washed or steam-cleaned before drilling. All drill cuttings were contained in sealed 55-gallon drums. All fluids generated during decontamination of drilling equipment were contained in sealed 55-gallon drums. All waste generated during drilling activities is stored onsite until appropriate disposal is arranged. The drums were labeled with the borehole number, site description (including owner's name), and date. The drill cuttings will be disposed of at the proper facility chosen based on results of soil sample analysis.

During drilling, an ETIC geologist generated a soil boring log. The boring log contains detailed geological information, including descriptions of the soils classified according to the Unified Soil Classification System (USCS), blow counts, organic vapor analyzer (OVA) readings, moisture content of the soils, and initial and static water levels.

SOIL SAMPLING

Soil samples were collected at intervals of 5 feet or less, using a 2-inch-diameter by 18- or 24-inch long modified California split-spoon sampler containing three or four 6-inch brass or stainless steel liners. The sampler and liners were scrubbed in potable water and Alconox or equivalent detergent and rinsed with potable water after use at each sampling interval. Soil samples were collected to the total depth of the borehole. Every attempt was made to collect a soil sample just above or at the water table.

At each sample depth, the sampler was driven 18 or 24 inches ahead of the augers into undisturbed soil. When the sampler was retrieved, either the lowermost or the middle sample liner was removed and the ends of the tube were covered with Teflon liner and sealed with plastic caps. The soil-filled liner was labeled with the borehole number, sample depth, site location, date, and time. The samples were placed in zip-lock bags and stored in a cooler containing ice.

Soil from one of the liners was removed and placed in a sealed plastic bag. The soil was scanned with a flame ionization detector (FID) or a photo-ionization detector (PID). The soil from the remaining liner(s) was examined and classified according to the Unified Soil Classification System.

WELL INSTALLATION AND DEVELOPMENT

The borehole was completed as a groundwater monitoring well. The well was constructed by installing Schedule 40 PVC flush-threaded casing through the inner opening of the auger. The screened interval consisted of slotted casing of the appropriate slot size and length placed at depths

depending on soil conditions encountered during drilling. A threaded end plug was placed on the bottom of the well.

A filter pack of clean sand of appropriate size was placed in the annular space around the well screen to approximately 1 to 2 feet above the top of the screen. The sand was placed through the inner opening of the augers as they were slowly removed. The screened interval of the well was surged for approximately 15 minutes using a flapper valve surge block that was the same diameter of the well casing. This was done to enhance the settlement of the sand pack. The well was then purged, with a clean bailer until sediment was removed and the water was free of silt and apparent turbidity. A transitional seal was completed above the sand pack by adding 1 to 2 feet of bentonite pellets and hydrating them with deionized water. A surface seal was then created by placing neat cement grout containing less than 5 percent bentonite from the top of the bentonite seal to just below the ground surface.

The well was finished at the surface with a slightly raised, traffic-rated, watertight steel traffic box set in concrete. The traffic box was secured with bolts and the casing was further secured with a locking well cap.

After a minimum of 72 hours after well construction, the well was purged and sampled following ETIC groundwater sampling protocol. A record of the purging methods and volumes of water purged was maintained. All purge water was contained on the site in properly labeled 55-gallon drums. Purged water was disposed of at an appropriate facility on the basis of the laboratory analytical results.

GROUNDWATER SAMPLING

All samples were collected with a factory cleaned disposable bailer. The bailer was operated by hand on a new rope or on Teflon-coated stainless steel wire. The sampling personnel wore clean Nitrile gloves during sampling operations and while handling sample bottles.

The groundwater samples were emptied from the bailer directly into the sample bottles with a bottom-emptying device. The samples were collected in 40-ml glass VOA vials and/or 1-liter amber bottles with Teflon-lined septum caps as appropriate. The sample bottles contained appropriate preservatives, typically hydrochloric acid. The samples were filled to the top of the bottle so that there were no air bubbles.

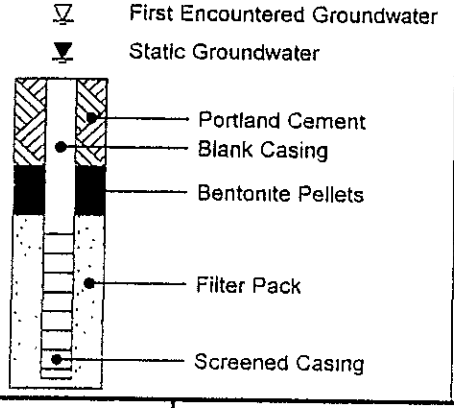
The sample bottles were labeled with well number, date, location, sampler's initials, and preservative. The sample vials were placed in an iced cooler for delivery to the laboratory for analysis. Standard chain-of-custody procedures were followed.

Appendix C

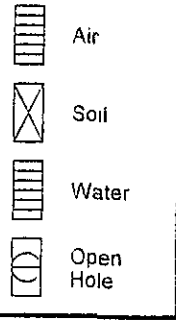
Soil Boring Log

MAJOR DIVISIONS			TYPICAL NAMES	
COARSE-GRAINED SOILS More than half is coarser than No. 200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve size	Clean gravels with little or no fines	GW	Well graded gravels with or without sand, little or no fines.
			GP	Poorly graded gravels with or without sand, little or no fines.
		Gravels with over 12% fines	GM	Silty gravels, silty gravels with sand.
			GC	Clayey gravels, clayey gravels with sand.
	SANDS more than half coarse fraction is smaller than No. 4 sieve size	Clean sands with little or no fines	SW	Well graded sands with or without gravel, little or no fines.
			SP	Poorly graded sands with or without gravels, little or no fines.
		Sands with over 12% fines	SM	Silty sands with or without gravel.
			SC	Clayey sands with or without gravel.
FINE-GRAINED SOILS More than half is finer than No. 200 sieve	SILTS AND CLAYS liquid limit 50% or less		ML	Inorganic silts and very fine sands, rock flour, silts with sands and gravels.
			CL	Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays.
			OL	Organic silts or clays of low plasticity.
	SILTS AND CLAYS liquid limit greater than 50%		MH	Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays or clays of medium to high plasticity.
HIGHLY ORGANIC SOILS			PT	Peat and other highly organic soils.

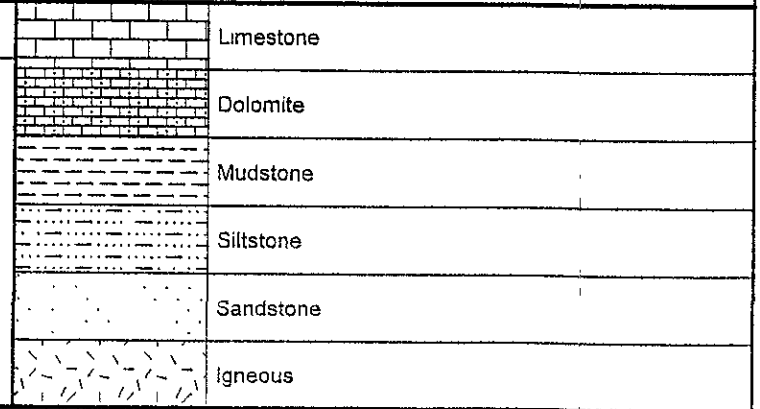
SYMBOLS



Samples



DRILL LOG ROCK TYPES



ETIC Engineering, Inc.

UNIFIED SOIL CLASSIFICATION SYSTEM DESCRIPTIONS AND SYMBOLS USED ON ETIC DRILL LOGS

ETIC
Engineering, Inc.

LOG OF SOIL BORING: **MW100**

COORDINATES:
ELEVATION TOP OF CASING:
CASING BELOW SURFACE:

DRILLING COMPANY: Woodward Drilling Co
LICENSE NUMBER: C57-710079

CLIENT	SITE NUMBER	LOCATION
Nestle	Nestle Oakland	1310 14th Street Oakland, CA

DRILLING AND SAMPLING METHODS: Mobile Rig BK-81; Hollow Stem Auger; 8.25" O.D. Split Spoon Sampler

				START	FINISH
WATER LEVEL	▽ 9.85	▼ 9.81			
TIME	1012	1020		TIME 0840	TIME 1130
DATE	6/29/01	6/29/01		DATE 6/29/01	DATE 6/29/01
REFERENCE	GS	GS			

SURFACE CONDITIONS: Asphalt 4"

DESCRIPTION BY: H. Barry

INCHES DRIVEN	INCHES RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	GRAPHIC LOG	DESCRIPTION
				0		ASPHALT 4".
				1		Hand augered to 4 5 ft.
				2		
				3	SM	SILTY SAND: dark yellowish brown (10YR 3/4), poorly graded fine sand, weak cementation, non-plastic fines, damp.
				4		SAME· color changes to yellowish brown (10YR 5/4)
18	18	18 18	3.1	5		
18	16	20 7 9 12	2.6	6	SC-SM	SILTY, CLAYEY, SAND: dark yellowish brown (10YR 4/4), greenish gray mottling, poorly graded fine sand, moderate cementation, damp to moist.
18	18	10 12	1.2	7		
18	14	18 12 17 22	2.0	8	SM	SILTY SAND: light olive brown (2.5Y 5/3), fine sand, moderate cementation, non-plastic to low plastic fines, moist to wet, iron oxide traces.
18	18	15 20	1.1	9		
18	16	25 4 4 5	1.9	10	SC-SM	SILTY, CLAYEY SAND: light olive brown (2.5Y 5/4), moderate cementation, low plastic fines, moist, iron oxide traces, silt content increase (12-12.5') to sandy silt.
18	18	4 4	1.7	11		
		6		12	SC	*CLAYEY SAND: olive gray (5Y 5/2), yellowish brown mottling,* poorly graded fine sand, moderate cementation, medium plastic fines, wet.
				13		
				14		
				15	SM	SILTY SAND: light olive brown (2.5Y 5/3), yellowish brown mottling, fine sand, low plastic fines, wet. Boring termintated at 15 ft bgs. Sampled to 15.5 ft bgs.
				16		
				17		
				18		
				19		
				20		

DETAILS

LOG OF SOIL BORING MW100.GPJ ETIC.GDT 9/6/01

Appendix D

Well Development and Groundwater Sampling Field Documents

ETIC Engineering, Inc.

WELL DEVELOPMENT FORM

Project Name: TMNOAK..8B | Well No: MW100 | Date: 6/29/01

Project No: 3110 14th Street, Oakland, California | Personnel: Hamidou Barry

GAUGING DATA

Water Level Measuring Method: Water level meter | Measuring Point Description: Ground Surface

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
	15.0	(-)	9.81	(=)	5.19	(X)	1	(2)	4	6	0.83x10	(=)	8.3
							0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: | Purge Depth: | Purge Rate: (gpm)

Time	1106	1110	1113	1117	1125	
Volume Purge (gal)	1	2	3	5	7.0	
Temperature (C)	-	-	-	-	-	
pH	-	-	-	-	-	
Color	Yellowish brown	Yellowish brown	Yellowish brown	Light brown	Light brown	
Turbidity	Turbid/silty	Turbid/silty	Less turbid clearing	Less turbid clearing	Less turbid less silt	
Odor (Y/N)	N	N	N	N	N	
Casing Volumes	1.2	2.4	3.6	6.0	8.4	
Dewatered (Y/N)	N	N	N	N	N	

Comments/Observbations: 7 gallons purged and DTW = 13.17 bgs.

Total Purge Volume: 7.0 (gallons) | Disposal: Drum

Weather Conditions: Sunny, warm

Condition of Well Box and Casing: Good, new well box

Well Head Conditions Requiring Correction: Good, new

Problems Encountered During Purging: None

Comments: Temperature and pH not measured

ETIC Engineering, Inc.

FIELD SUMMARY REPORT

Client: Nestle **Station No.:**

Project No.: TMNOAK **Task No.:** 5

Sample Team: Jake Henry **Budgeted time:**

Date: 7/6/01 **Time Billed:**

No. of Drums on Site: 1 **Water** 2 **Soil** _____ **Empty**

- **Task:**

Baseline ~~Sampling~~ of new well MW100

- **summary:**

No problems - dewatered @ third case volume - no data recorded. Let stand to recharge, sampled. onsite 1130 offsite 1300

ETIC
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Nestle	Well No: MW10	Date: 7/6/01	
Project No: TMNOAK	Personnel: Jake H.		

GAUGING DATA

Water Level Measuring Method:

Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter	Casing Volume (gal)		Total Purge Volume (gal)
	15.00	−	9.18	=	5.82	X	1 / 0.04; (2) / 0.16; 4 / 0.64; 6 / 1.44	0.93	=	2.79

PURGING DATA

Purge Method:

Purge Depth:

Purge Rate: (gpm)

Time	1156	1200				
Volume Purge (gal)	1	2	~~3~~			
Temperature (C)	22.8	23.2				
pH	~~7.27~~	~~7~~.22				
Spec.Cond.(umhos)	1866	1737				
Turbidity/Color	X / brw	X / brw				
Odor (Y/N)	N	N				
Casing Volumes	Silty	Silty				
Dewatered (Y/N)	N	N				

Comments/Observbations:

Dewatered @ 2 gallons

SAMPLING DATA

Time Sampled:

Approximate Depth to Water During Sampling: (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW10D	4	40mL voa	HCl	40 mL		
MW10D	2	Amber	None	1 L		

Total Purge Volume: 2.00 (gallons)

Disposal:

Weather Conditions: Warm

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

Well Head Conditions Requiring Correction: none

Problems Encountered During Purging and Sampling: none

Comments:

Appendix E

Laboratory Analytical Report and Chain-of-Custody Documentation

Nestlé USA

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

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

FAXED
JUL 13 2001

Nestlé

QUALITY ASSURANCE LABORATORY

Laboratory Report

Received
JUL 18 2001
ETIC Engineering Inc.

Binayak Acharya
Nestlé USA - Environmental Group
800 North Brand Boulevard
Glendale, CA 91203
cc: Doug Oram - ETIC Eng.

Date Sampled 7/6/01
Date Received: 7/11/01
Date Reported: 7/13/01
Report Number: 532706
Lab#: 1JUL7194-001

Sample Description: Water-Oakland
Sample ID: MW-100
7/6/01 12:15
PO/Ref/Disp#: TMNOAK.8

Test	Result	Units	DetLim	Method	Analysis Date
Benzene	ND	µg/L	0.50	EPA 8020	7/11/01
Toluene	ND	µg/L	0.50	EPA 8020	7/11/01
Ethylbenzene	ND	µg/L	0.50	EPA 8020	7/11/01
m&p Xylenes	ND	µg/L	0.50	EPA 8020	7/11/01
o-Xylene	ND	µg/L	0.50	EPA 8020	7/11/01
Total Xylenes	ND	µg/L	0.50	EPA 8020	7/11/01
Methyl t-butyl ether	ND	µg/L	0.50	EPA 8020	7/11/01
Diesel Range Organics	ND	mg/L	0.25	CA-Luft	7/13/01
Dichlorodifluoromethane	ND	µg/L	0.5	EPA 8021	7/11/01
Chloromethane	ND	µg/L	0.5	EPA 8021	7/11/01
Vinyl Chloride	ND	µg/L	0.5	EPA 8021	7/11/01
Bromomethane	ND	µg/L	0.5	EPA 8021	7/11/01
Chloroethane	ND	µg/L	0.5	EPA 8021	7/11/01
Trichlorofluoromethane	ND	µg/L	0.5	EPA 8021	7/11/01
1,1-Dichloroethene	ND	µg/L	0.5	EPA 8021	7/11/01
Methylene Chloride	ND	µg/L	0.5	EPA 8021	7/11/01
t 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8021	7/11/01
cis 1,2-Dichloroethene	ND	µg/L	0.5	EPA 8021	7/11/01
1,1-Dichloroethane	ND	µg/L	0.5	EPA 8021	7/11/01
Chloroform	ND	µg/L	0.5	EPA 8021	7/11/01
1,1,1-Trichloroethane	ND	µg/L	0.5	EPA 8021	7/11/01
Carbon Tetrachloride	ND	µg/L	0.5	EPA 8021	7/11/01
1,2-Dichloroethane	ND	µg/L	0.5	EPA 8021	7/11/01
Trichloroethene	ND	µg/L	0.5	EPA 8021	7/11/01
1,2-Dichloropropane	ND	µg/L	0.5	EPA 8021	7/11/01
Bromodichloromethane	ND	µg/L	0.5	EPA 8021	7/11/01
c 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8021	7/11/01
t 1,3-Dichloropropene	ND	µg/L	0.5	EPA 8021	7/11/01
1,1,2-Trichloroethane	ND	µg/L	0.5	EPA 8021	7/11/01
Tetrachloroethene	ND	µg/L	0.5	EPA 8021	7/11/01

Nestlé USA

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DUBLIN, OH 43017-6516

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FAX (614) 526-5353

Nestlé

QUALITY ASSURANCE LABORATORY

Laboratory Report

Binayak Acharya
Nestlé USA - Environmental Group
800 North Brand Boulevard
Glendale, CA 91203
cc: Doug Oram - ETIC Eng.

Sample Description: Water-Oakland
Sample ID: MW-100
7/6/01 12:15
PO/Ref/Disp#: TMNOAK.8

Date Sampled 7/6/01
Date Received: 7/11/01
Date Reported: 7/13/01
Report Number: 532706
Lab#: 1JUL7194-001

Test	Result	Units	DetLim	Method	Analysis Date
Dibromochloromethane	ND	µg/L	0.5	EPA 8021	7/11/01
Bromoform	ND	µg/L	0.5	EPA 8021	7/11/01
1,1,2,2-Tetrachloroethane	ND	µg/L	0.5	EPA 8021	7/11/01
1,3-Dichlorobenzene	ND	µg/L	0.5	EPA 8021	7/11/01
1,4-Dichlorobenzene	ND	µg/L	0.5	EPA 8021	7/11/01
1,2-Dichlorobenzene	ND	µg/L	0.5	EPA 8021	7/11/01
Chlorobenzene	ND	µg/L	0.5	EPA 8021	7/11/01
Gasoline Range Organics	ND	mg/L	0.20	CA-Luft	7/11/01

ND : Not Detected.

Unless you request otherwise, this sample will be discarded 30 days from from the date of this report.
Sample condition upon receipt: Good.

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Nestle Confidential: This document is the property of Nestle USA, Inc.

Results relate only to the items tested.

John Heuser
Chemist

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Seq[redacted]nalyt[redacted]
~~680 Chesapeake Dr.~~
~~Redwood City, CA 94063.~~
~~(650) 364-9600 • FAX (650) 364-9233~~

EXXON COMPANY, U.S.A.

~~P.O. Box 2180, Houston, TX 77002-7426~~

CHAIN OF CUSTODY

Consultant's Name: ETIC Eng Inc — Page 1 of 1

Address: 2285 Morello Ave Pleasant Hill CA 94523 — Site Location: 1310 14th Street

Project #:	Consultant Project #: TMNOAK.8	~~Consultant Work Release #:~~
Project Contact: Brent Searcy	Phone #: (925) 602-4710	~~Laboratory Work Release #:~~
E~~XXON~~ Contact:	Phone #:	E~~XXON RAS~~ #: Nestle
Sampled by (print): JAKE Henry	Sampler's Signature: JAKE Henry	OAKLAND, CA
Shipment Method:	Air Bill #:	

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ~~☐ 96 hr~~ ☒ Standard (5 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	~~Sequoia's~~ Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	AVOC 8010	MTBE by 8020	Temperature. ___ Inbound Seal. Yes No Outbound Seal Yes No
MW-100	7/6/01	1115	H2O	~~NONE~~ HCl	6	2 AMBER 4 VOAS	X	X		X	X	7194-001

RECEIVED JUL 11 2001

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
[signature]	7/9/01		[signature]	7-11-01	11:43	On Ice

Pink - Client
Yellow - Sequoia
White - Sequoia