4th Quarter
1996 Monitoring Report
Nestle USA, Inc.
Former Carnation Dairy Facility
1310 14th Street
Oakland, California

Prepared for

Nestle USA, Inc.

Prepared by

EA Engineering, Science, and Technology

December 1996

60966.01.0008

EA Engineering, Science, and Technology

3468 Mt. Diablo Boulevard
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23 December 1996

Jennifer Eberle
Hazardous Materials Specialist
Alameda County Health Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

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

Dear Ms. Eberle:

Attached is the Fourth Quarter Monitoring Report for the above-referenced site. If you have any questions I can be reached at (510) 283-7077.

Sincerely,

Douglas Oram
Project Manager

DEO/ja 60966.01.Q1296

Enclosure
cc: Binayak Acharya

60966.01.0008

4th Quarter
1996 Monitoring Report
Nestle USA, Inc.
Former Carnation Dairy Facility
1310 14th Street
Oakland, California

Prepared for

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

Prepared by

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

12/18/96

Douglas E. Oram, Ph.D. Date
Project Manager

12/18/96

Jan W. Stepek, P.E., C.E.G. #1780 Date
Senior Hydrogeologist

December 1996

CONTENTS

SITE CONTACTS

Site Address:	1310 14th Street Oakland, California
Nestle USA, Inc. Contact:	Binayak Acharya Nestle USA, Inc. 800 North Brand Boulevard Glendale, California 91203 (818) 549-5948
Consultant to Nestle USA, Inc.:	EA Engineering, Science, and Technology 3468 Mt. Diablo Boulevard, Suite B-100 Lafayette, California 94549 (510) 283-7077
EA Project Manager:	Douglas E. Oram
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 Dairy facility at 1310 14th Street, Oakland, California (Figure 1). EA has prepared this report of quarterly monitoring for the fourth quarter of 1996. As documented in a 27 November 1996 letter from EA to the Alameda County Health Agency, it was agreed not to conduct groundwater sampling in the fourth quarter. This report addresses the NAPL recovered by passive skimmers during this quarter. Groundwater sampling will resume in January of 1997.

Passive skimmers were installed in wells E-0, PR-20, PR-21, and PR-64 on 16 July 1996. Due to low water levels, the passive skimmers located in wells PR-20, PR-21, and PR-64 have been moved to PR-34, PR-58, and PR-61. Starting on 16 July, NAPL was gauged and recovered on a 1–2 week basis from the wells which contained skimmers. NAPL was also monitored in the wells shown in Figure 2 on 30 August and 18 September. Wells that contained more than 0.05 feet of NAPL were bailed.

2. FIELD PROCEDURES

2.1 NAPL Gauging and Recovery

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

A total of 39 wells (Figure 2), including wells containing passive skimmers, were gauged with an interface probe to determine the thickness of NAPL on 30 August and 18 September. NAPL was removed from wells which contained greater than 0.05 feet of NAPL using a peristaltic pump as described above. The NAPL was temporarily stored in 55-gallon drums with secondary containment to await proper disposal. Gauging and recovery was suspended in most wells after 18 September, because it was deciced that a NAPL recovery system would be installed.

3. SUMMARY OF RESULTS

3.1 NAPL Monitoring and Removal

Nineteen of the wells monitored for the presence of NAPL on 18 September contained NAPL, ranging in thickness from 0.02 feet (PR-47) to 1.15 feet (MW-24) (Table 1). NAPL was removed from 15 wells on 18 September (those in which NAPL thickness was greater than 0.05 feet). The cumulative amounts of NAPL bailed from all wells from 6 December 1995 to 6 December 1996 are shown in Figure 3 and Table 2. Approximately 7 gallons of NAPL have

been removed from 17 wells since 30 August. The field documents for the NAPL measurements and recoveries for the 4th quarter are included in Appendix A.

4. WORK PROPOSED FOR THE NEXT QUARTER

as promised during 11-26-96 telecon

During the first quarter of 1997 the following wells will be sampled and analyses done:

Well	BTEX	TPH-g	TPH-d	HVOCs
MW-2	X	X	X	X
MW-3	X	X	X	X
MW-6	X	X	X	X
MW-25	X	X	X	X
MW-26	X	X	X	X
MW-27	X	X	X	X
MW-28	X	X	X	X
MW-29	X	X	X	X
MW-30	X	X	X	X
MW-32	X	X	X	X
MW-23				X
V-15				X
V-64				X
V-66				X
E-7				X
PR-54				X
Well-232				X

Figures

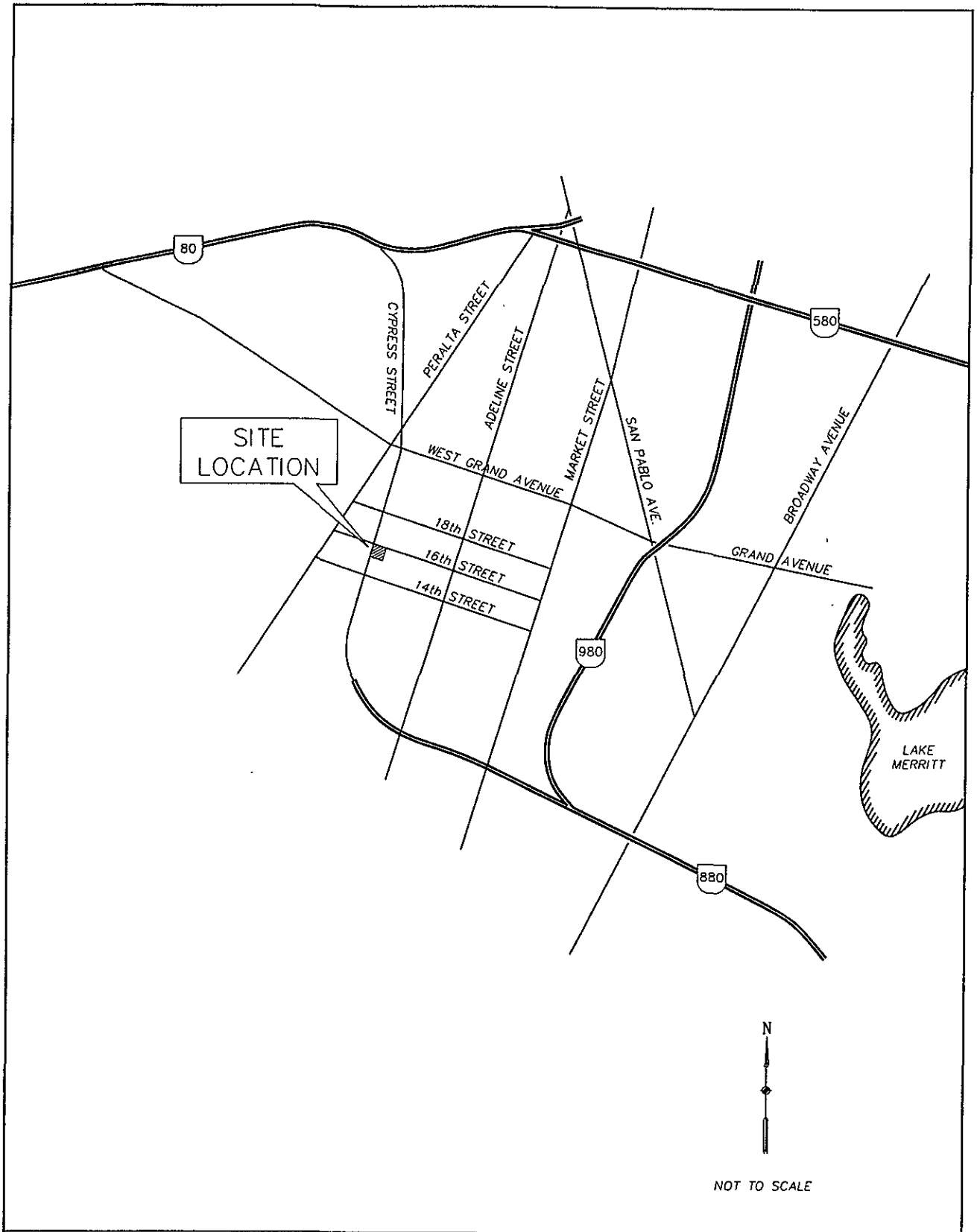

FIGURE 1.
SITE LOCATION MAP
NESTLE FACILITY, 1310 14th STREET,
OAKLAND, CALIFORNIA.

® EA ENGINEERING, SCIENCE, AND TECHNOLOGY

PROJECT NO:	DATE
60966.01.0008	2/8/96
FILE NAME:	REVIEWED BY:
LOCATION.DWG	A. MOORE

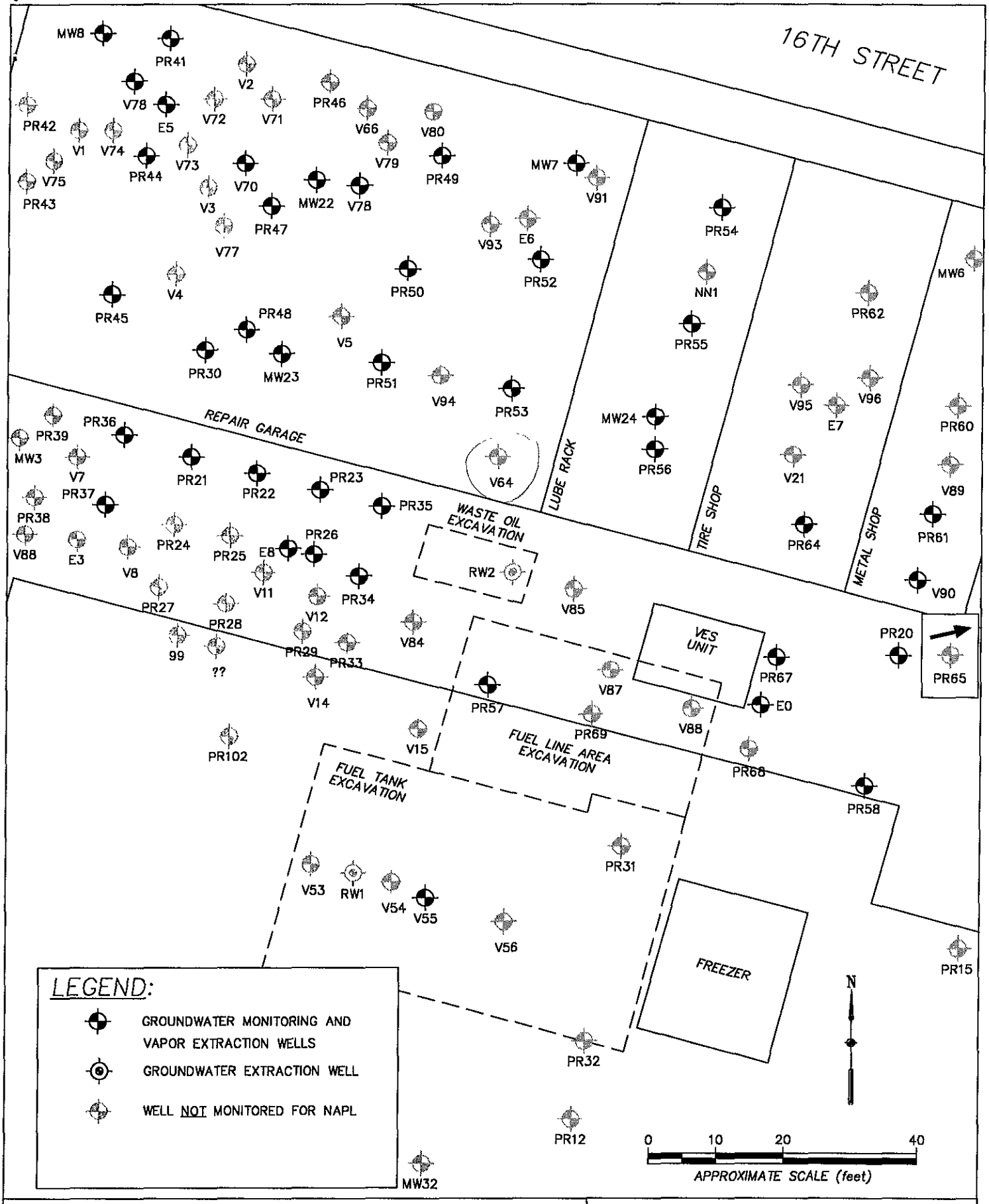

FIGURE 2.
LOCATION OF WELLS MONITORED FOR NAPL,
NESTLE FACILITY, OAKLAND, CALIFORNIA

EA® EA ENGINEERING, SCIENCE, AND TECHNOLOGY

PROJECT NO.	DATE
60966.01.0008	5/22/96
FILE NAME	REVIEWED BY
NESTLE5E.DWG	C. MARTING

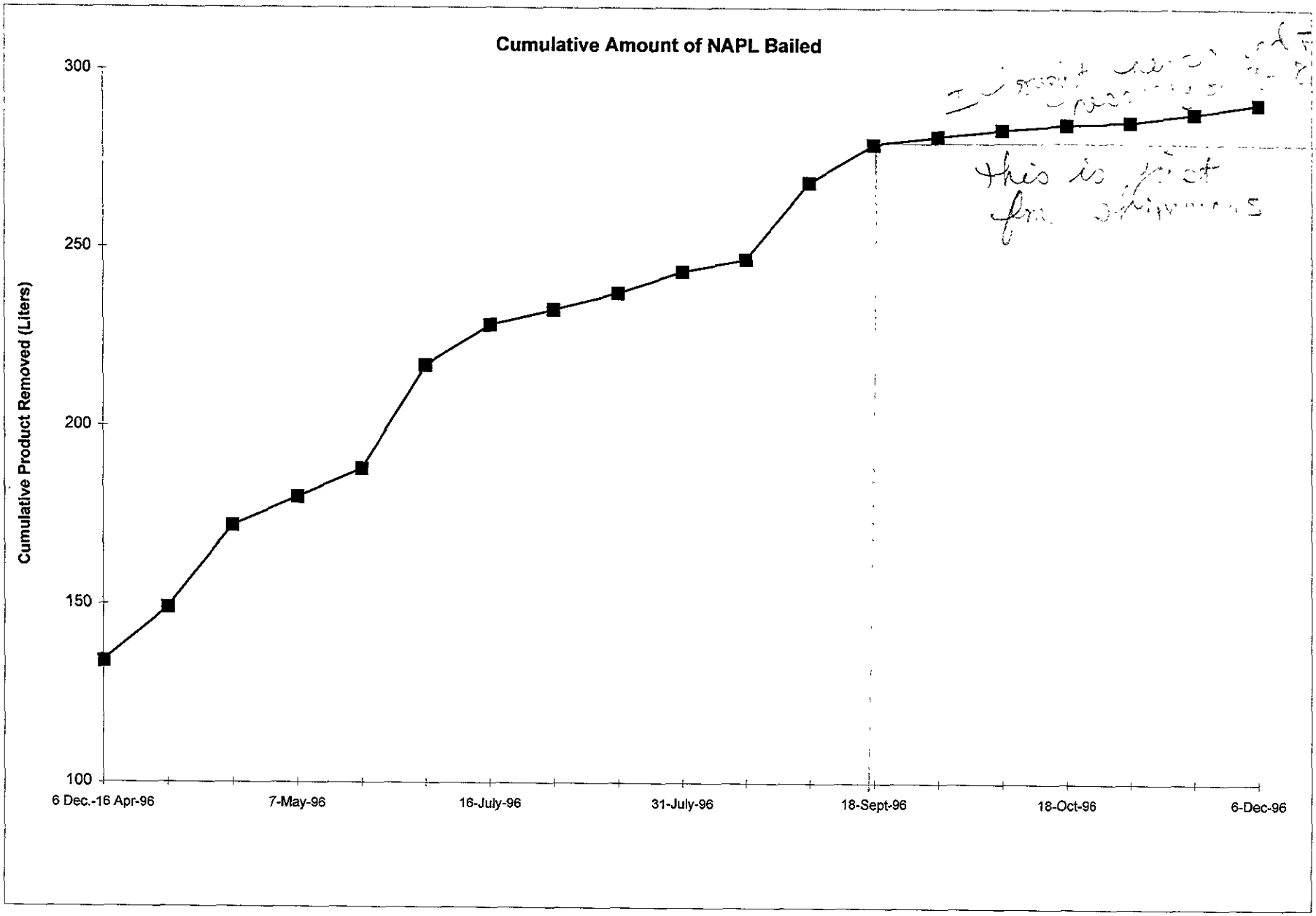

FIGURE 3. CUMULATIVE AMOUNTS OF NAPL BAILED FROM WELLS AT NESTLE SITE, OAKLAND, CALIFORNIA, 6-DEC-95 TO 6-DEC-96.

Tables

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

Well	11/4/93	2/24/93	3/18/94	6/2/94	8/31/94	12/22/94	3/13/95	6/9/95	7/27/95	9/22/95	12/6-28/95	2/27/96	2/29/96	6/20/96	8/30/96	9/18/96	10/4/96	10/11/96	10/18/96	10/22/96	11/22/96	12/6/96
MW-7	0.79	1.14	2.82	0.26	0.01	0.04	<0.01	<0.01	--	0.21	--	<0.01	--	0.02	0.20	0.04	--	--	--	--	--	--
MW-8	0.47	0.44	0.30	0.31	0.31	0.26	0.08	0.09	0.23	0.24	0.24	<0.01	--	0.03	0.04	0.03	--	--	--	--	--	--
MW-22	1.83	1.54	>3.0	1.14	0.19	0 03	<0.01	<0.01	<0.01	0 32	0.30	<0.01	--	0.01	0.04	0.22	--	--	--	--	--	--
MW-23	1.21	0.07	1.40	1.79	0.68	0.41	<0.01	0.31	0.44	0.71	0.30	0.19	0.15	1.00	0.24	0.63	--	--	--	--	--	--
MW-24	1.77	12.10	>3.0	0.97	0.39	<0.01	<0.01	<0.01	--	1.41	<0.01	<0.01	--	2.46	1.45	1.15	--	--	--	--	--	--
E-0	--	--	--	--	--	--	--	--	2.72	--	<0.01	3.92	0.07	0.18	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.38	1.55
E-1	--	--	--	--	--	--	--	--	--	--	0.27	--	--	*	--	--	--	--	--	--	--	--
E-5	--	--	--	--	--	--	--	--	--	--	1.50	0.27	0.03	0.10	0.01	0.04	--	--	--	--	--	--
E-6	--	--	--	--	--	--	--	--	0.08	--	<0.01	--	--	--	--	--	--	--	--	--	--	--
E-8	--	--	--	--	--	--	--	--	0.10	--	0.42	0.19	0.02	<0 01	<0.01	<0.01	--	--	--	--	--	--
PR-20	0.91	1.15	3.41	1.45	0.88	1.04	0.14	0.16	2.54	1.12	<0.01	3.5	2.65	3.50	0.69	0.47	0.36	0.2	--	--	--	--
PR-21	0.63	--	2.76	1.39	0.42	2.01	4.11	2.42	1.93	0.70	0.60	2.99	0.77	1.50	0.86	0.54	--	--	--	--	--	--
PR-22	0.98	1.43	>3.0	0.90	0.47	0.04	0.60	0.71	0.68	0.71	0.23	1.57	0.94	1.20	0.47	0.42	--	--	--	--	--	--
PR-23	0.67	0.36	1.06	0.38	0.17	0.06	0.34	0.06	0.08	0.12	0.11	<0.01	--	<0.01	0.09	<0.01	--	--	--	--	--	--
PR-24	--	--	--	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--
PR-26	0.6	0.54	2.05	0.39	0.17	<0.01	<0.01	<0.01	--	0.13	0.12	0.27	<0.01	0.01	0.07	0.03	--	--	--	--	--	--
PR-27	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--
PR-30	--	--	--	2.81	1.21	1.97	<0.01	<0.01	--	Dry	Dry	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--
PR-34	0.66	1.17	2 81	1.07	0.37	2.45	4.06	3.54	2.30	1.03	0.58	5.10	1.22	1.95	1.14	0 48	0.33	0.23	0.01	<0.01	<0.01	0.26
PR-35	0.62	1.26	>3.0	1.70	0.12	0.13	0.85	0.91	0.84	0.73	0.40	0.20	0.11	0.22	0.33	0.11	--	--	--	--	--	--
PR-36	-	1.13	1.43	1.13	0.37	0.19	0.15	0.23	0.22	Dry	Dry	0.20	0.05	0.01	Dry	Dry	--	--	--	--	--	--
PR-37	0.41	1.29	2.35	0.96	0.14	0.22	0.83	0.82	0.58	0.58	0.18	1 14	0.32	0.20	0.19	0.11	--	--	--	--	--	--
PR-41	0.59	0.53	0.42	0.13	0.43	0.03	<0.01	<0.01	--	Dry	Dry	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--
PR-44	0.24	0.22	0.19	<0.01	<0.01	<0.01	<0.01	<0.01	--	Dry	-	<0.01	--	Dry	Dry	Dry	--	--	--	--	--	--
PR-45	0.17	5.27	0.10	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--
PR-47	0.75	0.41	sheen	<0.01	<0.01	0.01	<0.01	<0.01	--	0.08	0.08	<0.01	--	<0.01	0.08	0.02	--	--	--	--	--	--
PR-48	1.12	0.20	>3.0	0.83	0.07	1.43	0.64	0.65	0.94	0.50	0.54	0.11	0.06	2.06	1.36	0.38	--	--	--	--	--	--
PR-49	--	3 24	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	Dry	Dry	<0.01	--	--	--	--	--	--
PR-50	1.08	1.58	0.89	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--
PR-51	--	6.57	>3.0	<0.01	0.72	2.02	<0.01	<0.01	<0.01	<0.01	<0.01	Dry	--	Dry	Dry	<0.01	--	--	--	--	--	--
PR-52	1.01	5.09	1.16	0.45	0.05	0.03	<0.01	<0.01	<0.01	<0.01	-	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--
PR-53	1.15	3 01	>3.0	0.61	0.49	1.52	<0.01	1.55	1.47	1.08	0.17	0.90	0.27	1.01	0.81	0.38	--	--	--	--	--	--
PR-54	0.97	0.99	1.20	<0.01	0.08	0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--
PR-55	1.48	0.07	1.31	0.87	<0.01	0.01	<0.01	Dry	Dry	Dry	-	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--
PR-56	0.90	1.30	--	0.89	0.15	1.48	<0.01	<0.01	0.01	<0.01	-	<0.01	--	<0.01	<0.01	Dry	--	--	--	--	--	--

TABLE 1 (continued)

Well	11/4/93	2/24/93	3/18/94	6/2/94	8/31/94	12/22/94	3/13/95	6/9/95	7/27/95	9/22/95	12/6-28/95	2/27/96	2/29/96	6/20/96	8/30/96	9/18/96	10/4/96	10/11/96	10/18/96	10/22/96	11/22/96	12/6/96
PR-57	--	6.40	--	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	-	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--
PR-58	0.96	0.85	--	1.48	0.89	2.15	1.41	1.34	2.40	1.18	0.57	2.67	1.25	2.79	1.47	1.01	--	0.52	0.23	0.11	<0.01	<0.01
PR-60	--	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--	--
PR-61	0.25	0.39	0.35	1.03	<0.01	0.01	<0.01	<0.01	1.30	<0.01	<0.01	1.48	0.45	1.96	0.93	0.38	--	--	--	<0.01	<0.01	<0.01
PR-62	0.04	--	0.07	0.09	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--
PR-64	1.49	0.11	>3.0	--	1.06	2.15	1.03	1.17	2.12	1.15	0.58	3.08	0.4	3.15	1.01	--	0.82	0.69	0.68	--	--	--
PR-65	0.04	0.02	0.09	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	--	--	--	--	--	--	--	--	--
PR-67	1.05	0.65	0.81	--	--	--	--	--	0.05	--	<0.01	<0.01	--	0.03	0.10	0.07	--	--	--	--	--	--
PR-70	--	--	1.59	--	--	--	--	--	--	--	--	--	--	*	--	--	--	--	--	--	--	--
V-8	--	--	--	--	--	--	--	--	0.01	--	<0.01	--	--	--	--	--	--	--	--	--	--	--
V-55	--	--	--	--	--	--	--	--	--	--	0.04	--	--	<0.01	<0.01	*	--	--	--	--	--	--
V-77	--	--	--	--	--	--	--	--	0.78	Dry	--	--	--	--	--	--	--	--	--	--	--	--
V-78	--	--	--	--	--	--	--	--	0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	--	--	--	--	--	--
V-90	--	1.41	--	0.94	0.16	1.68	0.02	0.02	Dry	Dry	<0.01	Dry	--	Dry	Dry	Dry	--	--	--	--	--	--
V-94	--	--	--	--	--	--	--	--	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--

-- Well not monitored.
* Well inaccessible.

TABLE 2 AMOUNTS (liters) OF NAPL BAILED FROM WELLS AT THE NESTLE SITE, OAKLAND, CALIFORNIA, DECEMBER 1995 - DECEMBER 1996

	Sampling Date																			
Well	12/6 - 4/16	04/24/96	04/29/96	05/07/96	05/14/96	06/20/96	07/16/96	07/23/96	07/26/96	07/31/96	08/16/96	08/30/96	09/06/96	09/18/96	10/04/96	10/11/96	10/18/96	10/22/96	11/22/96	12/06/96	Total
E0	38		0.5			1	0.25	0	0	0	0	0	0	0	0	0	0	0	2	2.5	39.5
E5	19.9					0.2															20.1
MW7												0.25	0.25	0.25							0.0
MW8	0.7																				0.7
MW22														0.5							0.0
MW23	2.35	0.5	0.25	0.38	0.38	0.75						2		0.9							4.6
MW24	0		1.5			1						4.5		1.75							2.5
PR20	1.9		13			5.75	5	3	2.5	2	1.5	1	0.75	0.5	0.5	0.25					20.7
PR21	16.9	3.25	1	1	1	4	3					1.5		0.9							27.2
PR22	8.6	0.75	0.75	0.75	1	3.5			0.25	2	1	1	1	1.1							15.4
PR23	0.25											0.25									0.3
PR26	1.25	0.25										0.1									1.5
PR34	10.9	1.25	0.25	0.63	0.5	2							0.75	1	0.75	0.5	0.25	0.1	0.1	0.25	15.5
PR35	1.6	0.75	0.13		0.25	0.5						1		0.25							3.2
PR36	0.5	0.25	0.13																		0.9
PR37	1.8	0.25	0.13		0.13	0.5						0.5		0.25							2.8
PR47												0.5									0.0
PR48	3.4	1.25	1	1	0.75	3						2.5		0.9							10.4
PR53	0.65	0.5	0.5	0.25	0.25	0.75						1		0.5							2.9
PR58	10.4	1.25	1	1.2	1	2						1.25					0.5	0.4	0.2	0	16.9
PR61	6	0.75	0.5	0.2	0.63	1.5						2		0.75				0.25	0	0	9.6
PR64	8.5	3.5	2.5	3	2	2.75	3	2	3	2	1	2	0.75	1.5	1	1.25	0.75				22.3
PR67												0.25		0.25							0.0
Total (liters)	134	15	23	8	8	29	11	5	6	6	4	22	4	11	2	2	2	1	2	3	217
Total (gal)	35	4	6	2	2	8	3	1	2	2	1	6	1	3	1	1	0	0	1	1	57

Appendix A

Field Documents

EA Engineering, Science, and Technology

FIELD SUMMARY REPORT

Client: Hecht **Station No:** ____________

EA Project No: [illegible] **Task No:** ____________

Field Team: [illegible]

Date: 12/4/96

No. of Drums on Site: 12 **Water** 0 **Soil** 0 **Empty** 2 **LPH**

1 poly tank

Summary:

Arrived on site checked passive skimmers in [illegible] wells. PR20 needed to be Adjusted to oil/water interface. EO did not collect LPH, LPH was not Detected in EO w/ interface Probe. The skimmers In PR 64 and PR 34 were Full.

Remaining LPH was Removed and wells were gauged again.

The wells in the street were opened and new caps with master locks were installed.

[illegible]

WP61/F:PROJECTS/TEMPLATE/FORMS/FS-RPT.695

LPH REMOVAL/PURGE FORM

Project Name: Hestle

Well Number: E-0

Project Number: 6096bM 0008

Personnel: KL

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	LPH Thickness
	6"	N/A	9.58	—	N/A	N/A	—

Passive Skimmer Data

Skimmer In Well	(Yes/No)	Yes
Quantity of LPH Collected	(Litre)	0
Quantity of H20 Collected	(Litre)	0

Purging Data

Purge Time						
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed:

Disposal method:

Well tags, caps, locks in place:

Condition of well box:

Comments:

WP61/TEMPLATE.FORMS.MW-DEV.2

Date: [illegible]

LPH REMOVAL/PURGE FORM

Project Name: Nettle

Well Number: PR64

Project Number: [illegible] 0008

Personnel: [illegible]

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	LPH Thickness
		10.10	10.92		~~[illegible]~~	10.85	0

Passive Skimmer Data

Skimmer In Well	(Yes/No)	Yes
Quantity of LPH Collected	(Litre)	1/4 L Full skimmer
Quantity of H20 Collected	(Litre)	Ø

Purging Data

Purge Time	25 min					
LPH Removed (Litre)	3/4 L					
H20 Removed (Litre)	1/4 L					
D.T.P.	—					
D.T.W.	10.85					
LPH Thickness	0.0					
LPH Discription	LT Yellow					

Total Litre's removed: 1 Litre

Disposal method: Drum

Well tags, caps, locks in place:

Condition of well box: Poor

Comments:

Date: 10/4/??

LPH REMOVAL/PURGE FORM

Project Name: Westte
Well Number: PR20
Project Number: [illegible]
Personnel: KL

Gauging Data

Water Level Measuring Method: Interface Probe
Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	LPH Thickness
		9.26	9.62	.82	9.80	9.81	.01

Passive Skimmer Data

Skimmer In Well (Yes/No)	YES
Quantity of LPH Collected (Litre)	Ø LPH Level Dropped
Quantity of H20 Collected (Litre)	Ø ADJUSTED SKIMMER.

Purging Data

Purge Time	3 min					
LPH Removed (Litre)	1/2 L					
H20 Removed (Litre)	1/2 L					
D.T.P.	9.80					
D.T.W.	9.81					
LPH Thickness	.01					
LPH Discription	BRN					

Total Litre's removed: 1/2 Litre

Disposal method: Drum

Well tags, caps, locks in place:

Condition of well box: Poor

Comments:

WP61/TEMPLATE.FORMS.MW-DEV.2

LPH REMOVAL/PURGE FORM

Project Name: [redacted] Mesa NE Well Number: PR34

Project Number: [redacted] 60366.01 0008 Personnel: ML

Gauging Data

Water Level Measuring Method: Interface Probe Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	LPH Thickness
	2"	10.25	10.55	.30	10.58	10.60	.02

Passive Skimmer Data

Skimmer In Well (Yes/No)	yes
Quantity of LPH Collected (Litre)	1/4 Litre Full Skimmer
Quantity of H20 Collected (Litre)	0

Purging Data

Purge Time	2 min.					
LPH Removed (Litre)	1/2 L					
H20 Removed (Litre)	1/2 L					
D.T.P.	10.58					
D.T.W.	10.60					
LPH Thickness	.02					
LPH Discription	Black					

Total Litre's removed: 3/4 Litre

Disposal method: Drum Well tags, caps, locks in place: _____

Condition of well box: Poor

Comments: N/A

EA Engineering,
Science, and
Technology

FIELD SUMMARY REPORT

Client: Hastie **Station No:** _____

EA Project No: 60966 01 **Task No:** 0008

Field Team: K Legge

Date: 10.11.96

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

Summary:

arrived on site and checked skimmers. PR20 - water/LPH column has decreased less than length of skimmer. Removed skimmer and installed in PR58. ¼ L LPH was removed from PR20. LPH was not detected in E-O w/ Interface Probe, skimmer was Empty. PR34 and PR64 had LPH, skimmers were Full. LPH in PR64 is yellow color, no BIO mass, LPH in PR34 is Dark w/ Biomass skimmers were emptied and Remain LPH was Purged.

Ken Legge

NOTE: H2O Drums, LPH Drums and Poly still on site.

LPH REMOVAL/PURGE FORM

Project Name:	Nestlé	Well Number:	PR 20
Project Number:	60866 01 0005	Personnel:	[illegible]

Gauging Data

Water Level Measuring Method: Interface Probe Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	Depth to Water	LPH Thickness	FINAL POST-PURGE Final Depth to Product	Final Depth to Water	LPH Thickness
		9.50	9.70	.20	—	10.000	0.0

Depth to Bottom 12.30

Passive Skimmer Data

Skimmer In Well	(Yes/No)	yes
Quantity of LPH Collected	(Litre)	Ø Empty
Quantity of H20 Collected	(Litre)	Ø

Purging Data

Purge Time	1.5 min					
LPH Removed (Litre)	1/4 L					
H20 Removed (Litre)	1/2 L					
D.T.P.	—					
D.T.W.	10.00					
LPH Thickness	0.0					
LPH Discription	Dark					

Total Litre's removed: 1/4 L

Disposal method: Drum Well tags, caps, locks in place:

Condition of well box: Poor

Comments: LPH / H2O column Has decreased Below screen of skimmer. Moved skimmer to PR 58.

WP61/TEMPLATE.FORMS.MW-DEV.2

LPH REMOVAL/PURGE FORM

Project Name: Hestle **Well Number:** PR58

Project Number: 6046601 0008 **Personnel:** [illegible]

Gauging Data

Water Level Measuring Method: Interface Probe Measuring Point: TOC

Monitoring Well		PRE-PURGE			FINAL POST-PURGE		
No.	Diameter	Depth to Product	Depth to Water	LPH Thickness	Final Depth to Product	Final Depth to Water	LPH Thickness
		9.30	9.82	.52			

Depth to Bottom 13.35

Passive Skimmer Data

Skimmer In Well	(Yes/No)	NO (Installed today)
Quantity of LPH Collected	(Litre)	0
Quantity of H20 Collected	(Litre)	0

Purging Data

Purge Time						
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed: ______

Disposal method: ______ Well tags, caps, locks in place: ______

Condition of well box: ______

Comments: Installed Passive skimmer in well, Did not Purge well, as to Determine skimmer collection Rate. 1/4 L per hour

WP61/TEMPLATE.FORMS.MW-DEV.2

LPH REMOVAL/PURGE FORM

Project Name: Hostile Well Number: PR34

Project Number: 60766.01.0005 Personnel: HL

Gauging Data

Water Level Measuring Method: Interface Probe Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
	2"	9.50	9.73		—	10.24	—

Passive Skimmer Data

Skimmer In Well	(Yes/No)	Yes
Quantity of LPH Collected	(Litre)	1/4 Litre Full Skimmer
Quantity of H20 Collected	(Litre)	0

Purging Data

Purge Time	2 min					
LPH Removed (Litre)	1/4					
H20 Removed (Litre)	3/4 L					
D.T.P.	—					
D.T.W.	10.24					
LPH Thickness	0					
LPH Discription	Organics					

Total Litre's removed: 1/2 Litre LPH

Disposal method: Drum Well tags, caps, locks in place: _____

Condition of well box: Poor

Comments: N/A

LPH REMOVAL/PURGE FORM

Project Name:	HESTIC	Well Number:	PR64
Project Number:	60960.01 0003	Personnel:	[illegible]

Gauging Data

Water Level Measuring Method: Interface Probe   Measuring Point: TOC

Monitoring Well		PRE-PURGE			FINAL POST-PURGE		
No.	Diameter	Depth to Product	Depth to Water	LPH Thickness	Final Depth to Product	Final Depth to Water	LPH Thickness
		9.97	10.66	.69	N/A	10.95	0.0

Passive Skimmer Data

Skimmer In Well (Yes/No)	yes
Quantity of LPH Collected (Litre)	1/4 L Full
Quantity of H20 Collected (Litre)	Ø

Purging Data

Purge Time	2 min					
LPH Removed (Litre)	1 L					
H20 Removed (Litre)	1/2 L					
D.T.P.	~					
D.T.W.	10.95					
LPH Thickness	~					
LPH Discription	LT BYM					

Total Litre's removed: 1 1/4 Litre LPH

Disposal method: Drum   Well tags, ~~caps~~, locks in place:

Condition of well box: Good

Comments: ~

WP61/TEMPLATE.FORMS.MW-DEV.2

LPH REMOVAL/PURGE FORM

Project Name: Nestle Well Number: E-O

Project Number: 60699 00 Personnel: KL

Gauging Data

Water Level Measuring Method: Interface Probe Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
	6"	0.0	9.71	0.0	—	—	—

Passive Skimmer Data

Skimmer In Well	(Yes/No)	yes
Quantity of LPH Collected	(Litre)	Ø
Quantity of H20 Collected	(Litre)	Ø

Purging Data

Purge Time						
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed: 0

Disposal method: N/A Well tags, caps, locks in place: _____

Condition of well box: Good

Comments: N/A

EA Engineering,
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FIELD SUMMARY REPORT

Client: HESTLE **Station No:** _____

EA Project No: 6096601 **Task No:** 0008

Field Team: K Legge

Date: 10/18/96

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

Summary:

I ARRIVED ON SITE and checked Skimmers. EO was Empty, PR64 was Empty. moved skimmer from PR64 to PR61

gauged wells and Purged Remaining LPH.

Decon'd Equipment and left SITE

KL.

LPH REMOVAL/PURGE FORM

10/18/96

Project Name: HOSTIE

Well Number: EO

Project Number: 02966.01.0005

Personnel: MC

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

		PRE-PURGE			FINAL POST-PURGE		
Monitoring Well No.	Diameter	Depth to Product	Depth to Water	LPH Thickness	Final Depth to Product	Final Depth to Water	LPH Thickness
	6"	N/A	9.78	—			

Passive Skimmer Data

Skimmer In Well	(Yes/No)	YES
Quantity of LPH Collected	(Litre)	0
Quantity of H20 Collected	(Litre)	0

Purging Data

Purge Time						
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed: _____

Disposal method: _____ Well tags, caps, locks in place: _____

Condition of well box: _____

Comments: _____

LPH REMOVAL/PURGE FORM

10/18/96

Project Name: Mystic

Well Number: PR58

Project Number: 60966.01 0008

Personnel: KL

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

		PRE-PURGE			FINAL POST-PURGE		
Monitoring Well No.	Diameter	Depth to Product	Depth to Water	LPH Thickness	Final Depth to Product	Final Depth to Water	LPH Thickness
	2"	10.15	10.38	.23	10.62	10.64	.02

Passive Skimmer Data

Skimmer In Well	(Yes/No)	YES
Quantity of LPH Collected	(Litre)	1/4 Litre (Full)
Quantity of H20 Collected	(Litre)	0

Purging Data

Purge Time	30MIN					
LPH Removed (Litre)	1/4					
H20 Removed (Litre)	1/4					
D.T.P.	10.62					
D.T.W.	10.64					
LPH Thickness	.02					
LPH Discription	Dark					

Total Litre's removed: 1/2 Litre LPH

Disposal method: Drum

Well tags, caps, locks in place: _____

Condition of well box: Poor

Comments: N/A

LPH REMOVAL/PURGE FORM

10/18/96

Project Name: Textile Well Number: PR64

Project Number: 609606 01 0008 Personnel: KL

Gauging Data

Water Level Measuring Method: Interface Probe Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
	2"	10.11	10.79	.68	10.83	10.85	.02

Passive Skimmer Data

Skimmer In Well	(Yes/No)	Yes
Quantity of LPH Collected	(Litre)	0.0 Skimmer is too tall to reach
Quantity of H20 Collected	(Litre)	0.0 LPH/H20 Interface

Purging Data

Purge Time	3 min					
LPH Removed (Litre)	3/4 L					
H20 Removed (Litre)	1/4 L					
D.T.P.	10.83					
D.T.W.	10.85					
LPH Thickness	.02					
LPH Discription	Dark					

Total Litre's removed: 3/4 Litre

Disposal method: Drum Well tags, caps, locks in place: _____

Condition of well box: Poor

Comments: N/A

Removed skimmer from PR64 and installed it in PR61

LPH REMOVAL/PURGE FORM

10/18/96

Project Name: Kestrel Well Number: PR34

Project Number: 609601.0008 Personnel: KL

Gauging Data

Water Level Measuring Method: Interface Probe Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
	2"	9.92	9.93	.01	N/A		

Passive Skimmer Data

Skimmer In Well (Yes/No)	YES
Quantity of LPH Collected (Litre)	1/4 L CFOIL
Quantity of H20 Collected (Litre)	0

Purging Data

Purge Time	N/A					
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed: 1/4 L

Disposal method: Drum Well tags, caps, locks in place:

Condition of well box: Poor

Comments: after removing skimmer LPH Thickness was not great enough to Purge well

EA Engineering, Science, and Technology

FIELD SUMMARY REPORT

Client: Mobil **Station No:** _____

EA Project No: 60966 01 **Task No:** 0018

Field Team: K Legge R. BONIELLO

Date: 10/22/96

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

Summary:

	DTW	DTP	
PR34	10.21	–	1/8 L product in skimmer
EO	10.29	–	skimmer empty
PR61	10.55	–	1/4L product in skimmer
PR58	10.46	10.35	1/4L product in skimmer

PR58 →

purge time	amount product removed	water removed	DTW
2 min	1/8 L	1/4 L	10.56

DRUMS ON SITE.

Empty	Purge water	unknown liquid
35	13	6

2 Drums w/ Garbage LPH 2 + 1 Poly Tank

EA Engineering,
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FIELD SUMMARY REPORT

Client: Nestle **Station No:** _____

EA Project No: 6096001.0008 **Task No:** 0008

Field Team: Ralph Boniello

Date: 11/22/96

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

Summary:

Checked the skimmers in wells EO, PR58, PR34, PR61. Any product present in the skimmers was emptied and disposed of in a dum onsite.

Wells EO and PR58 had detectable product present in the well after the skimmer had been removed. The product was removed using a peristaltic pump. Afterward, an interface probe was used again to measure if any product had returned to the well. None had, and the skimmers were replaced.

LPH REMOVAL/PURGE FORM

Date: 11/22/96

Project Name: Nestle

Well Number: ~~PB01~~ EO

Project Number: 60906601.0008

Personnel: RB

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
EO ~~PB01~~	6" ⌀	~~9.66~~	~~9.89~~ 10.09	~~0.23~~ 0.38	—	9.51	-

Passive Skimmer Data

Skimmer In Well	(Yes/No)	Yes
Quantity of LPH Collected	(Litre)	1/8 skimmer
Quantity of H20 Collected	(Litre)	0

Purging Data

Purge Time	4 min					
LPH Removed (Litre)	2					
H20 Removed (Litre)	1					
D.T.P.	—					
D.T.W.	9.51					
LPH Thickness	—					
LPH Discription	medium brown					

Total Litre's removed: _____

Disposal method: Drum

Well tags, caps, locks in place: Yes

Condition of well box: OK

Comments: _____

LPH REMOVAL/PURGE FORM

Date: 11/22/96

Project Name: Nestle

Well Number: PR58

Project Number: 60960601.0008

Personnel: RB

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
PR58	2"	9.60	9.67	0.00	—	9.64	—

Passive Skimmer Data

Skimmer In Well (Yes/No)	yes
Quantity of LPH Collected (Litre)	1/8 skimmer
Quantity of H20 Collected (Litre)	7/8 skimmer

Purging Data

Purge Time	2 min					
LPH Removed (Litre)	1/8					
H20 Removed (Litre)	1/8					
D.T.P.	—					
D.T.W.	9.64					
LPH Thickness	—					
LPH Discription	medium brown					

Total Litre's removed: _____

Disposal method: Drum

Well tags, caps, locks in place: N

Condition of well box: OK

Comments: _____

LPH REMOVAL/PURGE FORM

Date: 11/22/96

Project Name: Nestle

Well Number: ~~EO~~ P1261

Project Number: 609660 1.0058

Personnel: RB

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
P1261 ~~EO~~	2"		10.31				

Passive Skimmer Data

Skimmer In Well	(Yes/No)	yes
Quantity of LPH Collected	(Litre)	0
Quantity of H20 Collected	(Litre)	0

Purging Data

Purge Time						
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed: 0

Disposal method: Drum

Well tags, caps, locks in place: Y

Condition of well box: OK

Comments:

LPH REMOVAL/PURGE FORM

Date: 11/22/96

Project Name: Nestle

Well Number: PR34

Project Number: 6096601.0008

Personnel: RB

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
PR34	2"		9.63				

Passive Skimmer Data

Skimmer In Well (Yes/No)	yes
Quantity of LPH Collected (Litre)	1/4 skimmer
Quantity of H20 Collected (Litre)	0

Purging Data

Purge Time						
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed: _____

Disposal method: Drums

Well tags, caps, locks in place: N

Condition of well box: OK

Comments: _____

EA Engineering,
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FIELD SUMMARY REPORT

Client: Nestle **Station No:** _____

EA Project No: 6096601.~~0008~~ **Task No:** 0008

Sample Team: Ralph Boniello

Date: 12/6/96

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

Summary:

- Checked skimmers in PR34, PR58, PR61, and EO.
- Used a peristaltic pump to remove product from wells PR34, EO, which had free product in the well.
- Wells were allowed to recharge and then measured again for LPH. When none was found, skimmers were replaced.
- LPH was store in a drum on site

Date: 12/6/96

LPH REMOVAL/PURGE FORM

Project Name: [redacted] Nestle

Well Number: EO

Project Number: 609660l.0008

Personnel: Ralph Boniello

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
EO	6"	9.03	10.58	1.55		9.38	0.00

Passive Skimmer Data

Skimmer In Well	(Yes/No)	Yes
Quantity of LPH Collected	(Litre)	1/2 gallon
Quantity of H20 Collected	(Litre)	1/2 gallon

Purging Data

Purge Time	10 min					
LPH Removed (Litre)	9 1/2 L					
H20 Removed (Litre)	1/2 L					
D.T.P.	—					
D.T.W.	9.38					
LPH Thickness						
LPH Discription	medium brown					

Total Litre's removed: _____

Disposal method: drum

Well tags, caps, locks in place: no lock

Condition of well box: OK

Comments: _____

Date: 12/6/96

LPH REMOVAL/PURGE FORM

Project Name: [redacted] Nestle Well Number: PR34

Project Number: 609G601.0008 Personnel: Ralph Boniello

Gauging Data

Water Level Measuring Method: _____ Measuring Point: _____

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
PR	34	9.54	9.80	0.26	—	9.80	0.00

Passive Skimmer Data

Skimmer In Well	(Yes/No)	yes
Quantity of LPH Collected	(Litre)	full skimmer
Quantity of H20 Collected	(Litre)	none

Purging Data

Purge Time	4 min					
LPH Removed (Litre)	1/4 L					
H20 Removed (Litre)	1/2 L					
D.T.P.	—					
D.T.W.	9.80					
LPH Thickness						
LPH Discription	dark brown					

Total Litre's removed: _____

Disposal method: drum Well tags, caps, locks in place: No lock

Condition of well box: OK

Comments: _____

Date: 12/6/96

LPH REMOVAL/PURGE FORM

Project Name: Nestle

Well Number: PR61

Project Number: 609606O1.0009

Personnel: Ralph Boniello

Gauging Data

Water Level Measuring Method: Interface Probe

Measuring Point: TOC

		PRE-PURGE			FINAL POST-PURGE		
Monitoring Well No.	Diameter	Depth to Product	Depth to Water	LPH Thickness	Final Depth to Product	Final Depth to Water	LPH Thickness
PR61	2"		9.96	0.00			

Passive Skimmer Data

Skimmer In Well	(Yes/No)	yes
Quantity of LPH Collected	(Litre)	Ø
Quantity of H20 Collected	(Litre)	Ø

Purging Data

Purge Time						
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed: 0

Disposal method: drum

Well tags, caps, locks in place: no lock

Condition of well box: OK

Comments:

Date: 12/6/96

LPH REMOVAL/PURGE FORM

Project Name: Nestle
Well Number: PR58
Project Number: 609660I.0008
Personnel: Ralph Boniello

Gauging Data

Water Level Measuring Method: Interface Probe
Measuring Point: TOC

Monitoring Well No.	Diameter	PRE-PURGE Depth to Product	PRE-PURGE Depth to Water	PRE-PURGE LPH Thickness	FINAL POST-PURGE Final Depth to Product	FINAL POST-PURGE Final Depth to Water	FINAL POST-PURGE LPH Thickness
PR58	2"	[redacted]	9.57	0.00			

Passive Skimmer Data

Skimmer In Well	(Yes/No)	yes
Quantity of LPH Collected	(Litre)	1/6 skimmer
Quantity of H20 Collected	(Litre)	1/3 skimmer

Purging Data

Purge Time						
LPH Removed (Litre)						
H20 Removed (Litre)						
D.T.P.						
D.T.W.						
LPH Thickness						
LPH Discription						

Total Litre's removed: _____

Disposal method: drum
Well tags, caps, locks in place: no lock

Condition of well box: ok

Comments: _____