

September 21, 1995

ST10413

Mr. Lynn Walker
Shell Oil Products Company
P.O. Box 4023
Concord, California 94524

RE: Quarterly Monitoring Report - Third Quarter 1995
Shell Service Station
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Dear Mr. Walker:

This Quarterly Monitoring Report describes the recently completed activities associated with groundwater monitoring and sampling at the referenced site (Plate 1). This report was prepared to meet quarterly reporting guidelines issued by the Regional Water Quality Control Board and the Alameda County Health Care Services Agency.

This document presents the results of activities performed in the third quarter of 1995.

Quarterly Monitoring & Sampling Summary

- Blaine Tech Services, Inc (Blaine) of San Jose, California measured groundwater levels from Wells S-1, S-4 through S-11, and SR-1 on August 2, 1995.
- Groundwater samples collected from Wells S-1 and S-4 through S-11 were transported to National Environmental Testing (NET) of Santa Rosa, California. A duplicate sample, trip blank, and a equipment blank were prepared and analyzed for quality control purposes.
- Enviro, Inc. (Enviros) evaluated water-level measurement data and chemical analytical results and prepared this report, which includes the Blaine Quarterly Groundwater Monitoring Report, a site plan, a groundwater contour map, and a benzene concentration map.
- Groundwater flow is to the southwest a calculated hydraulic gradient of 0.02 ft./ft. A groundwater contour map is presented on Plate 3.
- Groundwater samples from Well S-6 contained concentrations of TPH-G and benzene of 1,400 and 160 ppb, respectively. Well S-8 contained concentrations of TPH-G and benzene at 1,700 and 10 ppb, respectively. Groundwater samples from Well S-11 contained concentrations of 230 ppb TPH-G and 22 ppb benzene. The remaining wells were ND for TPH-G and benzene. A benzene concentration map was prepared and is presented on Plate 4.
- Separate-phase hydrocarbons were not detected in any of the wells this quarter.

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Third Quarter Sampling

Monitoring Wells S-1 and S-4 through S-11 were sampled and analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-G) according to EPA Method 8015 (Modified) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. Additionally, a duplicate sample (from S-6), a trip blank, and an equipment blank were prepared and analyzed for quality control purposes.

Field monitoring data are summarized in Table 1. The chemical analytical data for TPH-G and BTEX have been included in the Historical Groundwater Quality Database (Table 2). The Blaine Quarterly Groundwater Sampling Report is presented in Appendix A.

Quarterly monitoring, sampling, and reporting will continue on the established schedule for the next quarter.

If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.

Greg L. Vaughan for

Greg L. Vaughan
Staff Engineer

Diane M. Lundquist

Diane M. Lundquist, P.E.
Senior Engineer
C46725



Attachments:

Table 1. Field Monitoring Data
Table 2. Historical Groundwater Quality Database

Plate 1. Vicinity Map
Plate 2. Site Plan
Plate 3. Groundwater Contour Map
Plate 4. Benzene Concentration Map

Appendix A

Blaine Quarterly Groundwater Sampling Data Report

cc: Mr. Brian Oliva, Alameda County Department of Environmental Health

TABLE 1
FIELD MONITORING DATA

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
S-1	4-May-92	3	35.31	9.50	25.81
	10-Aug-92			10.85	24.46
	9-Nov-92			10.34	24.97
	22-Feb-93			7.60	27.71
	7-Jun-93			8.63	26.68
	13-Aug-93			9.20	26.11
	18-Nov-93			10.58	24.73
	10-Feb-94			8.41	26.90
	3-May-94			9.09	26.22
	1-Aug-94			8.81	26.50
	8-Nov-94			9.32	25.99
	3-Feb-95			6.98	28.33
	4-May-95			8.10	27.21
	2-Aug-95			9.35	25.96
S-2	4-May-92	3	33.91	9.44	24.47
	10-Aug-92			10.73	23.18
	9-Nov-92			10.29	23.62
	22-Feb-93a			9.04	24.87
S-3	4-May-92	3	33.56	9.22	24.34
	10-Aug-92b			---	---
S-4	4-May-92	3	34.08	9.96	24.12
	10-Aug-92			11.32	22.76
	9-Nov-92			11.29	22.79
	22-Feb-93			9.82	24.26
	7-Jun-93			10.51	23.57
	13-Aug-93			11.05	23.03
	18-Nov-93			11.34	22.74
	10-Feb-94			9.93	24.15
	3-May-94			10.40	23.68
	1-Aug-94			10.68	23.40
	8-Nov-94			9.44	24.47
	3-Feb-95			9.18	24.90
	4-May-95			9.50	24.58
	2-Aug-95			10.62	23.46
S-5	4-May-92	3	33.42	10.27	23.15
	10-Aug-92			10.68	22.74
	9-Nov-92			10.69	22.73
	22-Feb-93			9.45	23.97
	7-Jun-93			10.23	23.19

TABLE 1
FIELD MONITORING DATA

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

WELL NO.	MONTH DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
S-5	13-Aug-93			10.58	22.84
	18-Nov-93			10.70	22.72
	10-Feb-94			9.75	23.67
	3-May-94			10.19	23.23
	1-Aug-94			10.30	23.12
	8-Nov-94			9.64	23.78
	3-Feb-95			9.59	23.83
	4-May-95			9.52	23.90
	2-Aug-95			10.23	23.19
S-6	4-May-92	3	32.59	9.42	23.17
	10-Aug-92			10.40	22.19
	9-Nov-92			10.16	22.43
	22-Feb-93			7.60	24.99
	7-Jun-93			8.90	23.69
	13-Aug-93			9.39	23.20
	18-Nov-93			10.32	22.27
	10-Feb-94			8.68	23.91
	3-May-94			9.20	23.39
	1-Aug-94			8.90	23.69
	8-Nov-94			8.32	24.27
	3-Feb-95			8.04	24.55
	4-May-95			8.28	24.31
	2-Aug-95			9.26	23.33
S-7	4-May-92	3	33.33	11.21	22.12
	10-Aug-92			12.28	21.05
	9-Nov-92			11.77	21.56
	22-Feb-93			8.86	24.47
	7-Jun-93			10.58	22.75
	13-Aug-93			11.34	21.99
	18-Nov-93			12.00	21.33
	10-Feb-94			9.88	23.45
	3-May-94			10.75	22.58
	1-Aug-94			11.05	22.28
	8-Nov-94			9.64	23.89
	3-Feb-95			8.53	24.80
	4-May-95			9.42	23.91
	2-Aug-95			11.10	22.23
S-8	4-May-92	3	31.97	10.29	21.68
	10-Aug-92			11.12	20.85

TABLE 1

FIELD MONITORING DATA

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
S-8	9-Nov-92			10.71	21.26
	22-Feb-93			6.04	25.93
	7-Jun-93			10.06	21.91
	13-Aug-93			10.56	21.41
	18-Nov-93			10.90	21.07
	10-Feb-94			9.53	22.44
	3-May-94			10.06	21.91
	1-Aug-94			10.32	21.65
	8-Nov-94			9.25	22.72
	3-Feb-95			8.99	22.98
	4-May-95			9.22	22.75
	2-Aug-95			10.36	21.61
S-9	4-May-92	3	31.86	10.45	21.41
	10-Aug-92			11.52	20.34
	9-Nov-92			11.02	20.84
	22-Feb-93			8.00	23.86
	7-Jun-93			10.07	21.79
	13-Aug-93			10.92	20.94
	18-Nov-93			11.19	20.67
	10-Feb-94			9.16	22.70
	3-May-94			10.03	21.83
	1-Aug-94			10.52	21.34
	8-Nov-94			9.08	22.78
	3-Feb-95			8.37	23.49
	4-May-95			8.78	23.08
2-Aug-95			10.41	21.45	
S-10	4-May-92	3	32.95	8.54	24.41
	10-Aug-92			10.43	22.52
	9-Nov-92			9.14	23.81
	22-Feb-93			6.72	26.23
	7-Jun-93			8.08	24.87
	13-Aug-93			8.83	24.12
	18-Nov-93			9.46	23.49
	10-Feb-94			7.41	25.54
	3-May-94			8.16	24.79
	1-Aug-94			8.29	24.66
	8-Nov-94			7.02	25.93
	3-Feb-95			6.79	26.16
	4-May-95			7.08	25.87

TABLE 1

FIELD MONITORING DATA

SHELL SERVICE STATION
 2800 TELEGRAPH AVENUE
 OAKLAND, CALIFORNIA
 WIC 204-5508-2303

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
S-10	2-Aug-95			8.30	24.65
S-11	4-May-92	3	30.78	9.99	20.79
	10-Aug-92			10.92	19.86
	9-Nov-92			10.44	20.34
	22-Feb-93			7.30	23.48
	7-Jun-93			9.51	21.27
	13-Aug-93			10.39	20.39
	18-Nov-93			10.64	20.14
	10-Feb-94			8.50	22.28
	3-May-94			9.42	21.36
	1-Aug-94			10.12	20.66
	8-Nov-94			8.84	21.94
	3-Feb-95			7.12	23.66
	4-May-95			7.96	22.82
	2-Aug-95			9.88	20.90
SR-1	4-May-92	6	c	9.02	---
	10-Aug-92			10.29	---
	9-Nov-92			10.92	---
	22-Feb-93			6.64	---
	7-Jun-93			7.36	---
	13-Aug-93			7.96	---
	18-Nov-93			10.02	---
	10-Feb-94			---	---
	3-May-94			8.28	---
	1-Aug-94			7.98	---
	8-Nov-94			7.75	---
	3-Feb-95			7.20	---
	4-May-95			4.10	---
	2-Aug-95			5.31	---

Notes:

Depth to water measured from top of casing

Elevations referenced to Mean Sea Level

a = Destroyed on April 8, 1993 for onsite construction

b = Well inaccessible since August 1992

c = Top-of-Casing not surveyed

--- = Data not available

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
S-1 (3rd Quarter)	4-May-92	9.50	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	10.85	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	10.34	<50	<0.5	<0.5	<0.5	<0.5
	23-Feb-93	7.60	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	8.63	<50	2.8	1.3	0.7	3
	13-Aug-93	9.20	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	10.58	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	8.41	<50	<0.5	<0.5	<0.5	<0.5
	3-May-94	9.09	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	8.81	<50	<0.5	<0.5	<0.5	<0.5
	2-Aug-95	9.35	<50	<0.5	<0.5	<0.5	<0.5
S-2	4-May-92	9.44	1,600	190	6	240	54
	10-Aug-92	10.73	<50	4.1	<0.5	<0.5	<0.5
	11-Sep-92	10.29	84	19	0.7	2.2	4.3
	23-Feb-93	9.04	16,000	1,600	480	850	1,800
	7-Jun-93				Well Destroyed		
S-3	4-May-92	9.22	---	---	---	---	---
	10-Aug-92	---	Well Paved Over - Inaccessible				
S-4 (3rd Quarter)	4-May-92	9.96	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	11.32	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	11.29	<50	<0.5	<0.5	<0.5	<0.5
	23-Feb-93	9.82	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	10.51	50	9.2	5.5	3.3	14
	13-Aug-93	11.05	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	11.34	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	9.93	<50	<0.5	<0.5	<0.5	<0.5
	3-May-94	10.40	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	10.68	<50	<0.5	<0.5	<0.5	<0.5
	2-Aug-95	10.62	<50	<0.5	<0.5	<0.5	<0.5
S-5 (1st & 3rd Quarter)	4-May-92	10.27	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	10.68	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	10.69	<50	<0.5	<0.5	<0.5	<0.5
	23-Feb-93	9.45	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	10.23	<50	<0.5	<0.5	<0.5	<0.5
	13-Aug-93	10.58	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	10.70	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	9.75	<50	<0.5	<0.5	<0.5	<0.5
	3-May-94	10.19	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	10.30	<50	<0.5	<0.5	<0.5	<0.5
	3-Feb-95	9.59	<50	<0.5	<0.5	<0.5	<0.5

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
S-5	2-Aug-95	10.23	<50	<0.5	<0.5	<0.5	<0.5
S-6	4-May-92	9.42	3,100	640	22	23	97
(3rd Quarter)	10-Aug-92	10.40	3,400	430	27	26	120
	9-Nov-92	10.16	2,000	320	15	15	100
	23-Feb-93	7.60	14,000	780	180	380	1,300
	7-Jun-93	8.90	3,900	1,400	56	83	210
	13-Aug-93	9.39	4,000a	890	16	<0.5	41
	18-Nov-93	10.32	80	5	<0.5	<0.5	<0.5
	10-Feb-94	8.68	4,100	370	23	21	90
	3-May-94	9.20	4,700	550	28	85	340
	1-Aug-94	8.90	2,900	370	11	11	43
	2-Aug-95	9.26	1,400	160	<5	<5	<5
S-6 (DUP)	1-Aug-94	---	2,600	340	8.8	7.7	33
	2-Aug-95	---	1,400	170	<5	<5	<5
S-7	4-May-92	11.21	180	1.6	<0.5	1.5	3
(1st & 3rd Quarter)	10-Aug-92	12.28	190	8	1.4	4.7	8.5
	9-Nov-92	11.77	280	16	4	7.8	21
	23-Feb-93	8.86	210	13	2.2	5.4	12
	7-Jun-93	10.58	90	1.2	2.5	1	<0.5
	13-Aug-93	11.34	140	4	0.8	<0.5	0.5
	18-Nov-93	12.00	440	43	4.9	0.9	4.2
	10-Feb-94	9.88	250a	<0.5	<0.5	1.8	<0.5
	3-May-94	10.75	130	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	11.05	250	4.8	<0.5	<0.5	<0.5
	3-Feb-95	8.53	<50	<0.5	<0.5	<0.5	<0.5
	2-Aug-95	11.10	<50	<0.5	<0.5	<0.5	<0.5
S-8	5-May-92	10.29	1,600	20	420	96	330
(Quarterly)	10-Aug-92	11.12	1,500	19	37	60	250
	9-Nov-92	10.71	710	5.7	24	28	120
	23-Feb-93	6.04	3,800	40	54	68	260
	7-Jun-93	10.06	1,200	13	19	65	150
	13-Aug-93	10.56	1,300	21	23	49	250
	18-Nov-93	10.90	870	16	5.3	59	230
	10-Feb-94	9.53	2,400	11	55	120	530
	3-May-94	10.06	3,100	12	27	130	370
	1-Aug-94	10.32	1,500	20	18	39	190
	8-Nov-94	9.25	2,100	22	38	73	390
	3-Feb-95	8.99	4,800	67	39	130	300
	4-May-95	9.22	2,600	31	23	71	310
	2-Aug-95	10.36	1,700	10	9.1	48	210

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHIELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
S-8 (DUP)	10-Feb-94	---	2,400	11	46	100	440
	3-May-94	---	3,000	21	25	120	340
	8-Nov-94	---	2,100	20	31	75	390
	3-Feb-95	---	3,700	53	30	100	240
	4-May-95	---	3,300	38	26	89	390
S-9 (3rd Quarter)	5-May-92	10.45	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	11.52	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	11.02	<50	<0.5	<0.5	<0.5	0.7
	23-Feb-92	8.00	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	10.07	<50	<0.5	<0.5	<0.5	<0.5
	13-Aug-93	10.92	140b	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	11.19	170	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	9.16	140b	<0.5	<0.5	<0.5	<0.5
	3-May-94	10.03	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	10.52	<50	<0.5	<0.5	<0.5	<0.5
2-Aug-95	10.41	<50	<0.5	<0.5	<0.5	<0.5	
S-10 (3rd Quarter)	5-May-92	8.54	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	10.43	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	9.14	<50	<0.5	<0.5	<0.5	<0.5
	22-Feb-93	6.72	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	8.08	<50	<0.5	<0.5	<0.5	<0.5
	13-Aug-93	8.83	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	9.46	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	7.41	<50	<0.5	<0.5	<0.5	<0.5
	3-May-94	8.16	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	8.29	<50	<0.5	<0.5	<0.5	<0.5
2-Aug-95	8.30	<50	<0.5	<0.5	<0.5	<0.5	
S-11 (Quarterly)	4-May-92	9.99	1,500	55	32	57	190
	10-Aug-92	10.92	750	29	13	43	120
	9-Nov-92	10.44	4,100	32	62	120	1,100
	23-Feb-93	7.30	760	15	13	37	140
	7-Jun-93	9.51	1,700	40	16	100	360
	13-Aug-93	10.39	60	0.9	<0.5	0.8	1.2
	18-Nov-93	10.64	150	7.8	1	9	12
	10-Feb-94	8.50	4,400	53	19	160	390
	3-May-94	9.42	65	1.5	<0.5	0.53	0.59
	1-Aug-94	10.12	240	18	6.7	6.9	18
	8-Nov-94	8.84	490	14	5.2	15	47
	3-Feb-95	7.12	380	4.1	0.9	1.4	5.1
4-May-95	7.96	110	1.3	<0.5	1.1	1.8	

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
 2800 TELEGRAPH AVENUE
 OAKLAND, CALIFORNIA
 WIC 204-5508-2303

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
S-11	2-Aug-95	9.88	230	22	11	13	35
S-11 (DUP)	7-Jun-93	---	1,600	51	16	83	300
	13-Aug-93	---	70	2.1	<0.5	0.9	2.1
SR-1	18-Nov-93	10.02	<50	<0.5	<0.5	<0.5	<0.5
SR-1 (DUP)	18-Nov-93	---	<50	<0.5	<0.5	<0.5	<0.5

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015

PPB = Parts per billion

<x = Not detected at detection limit of x

--- = Not analyzed

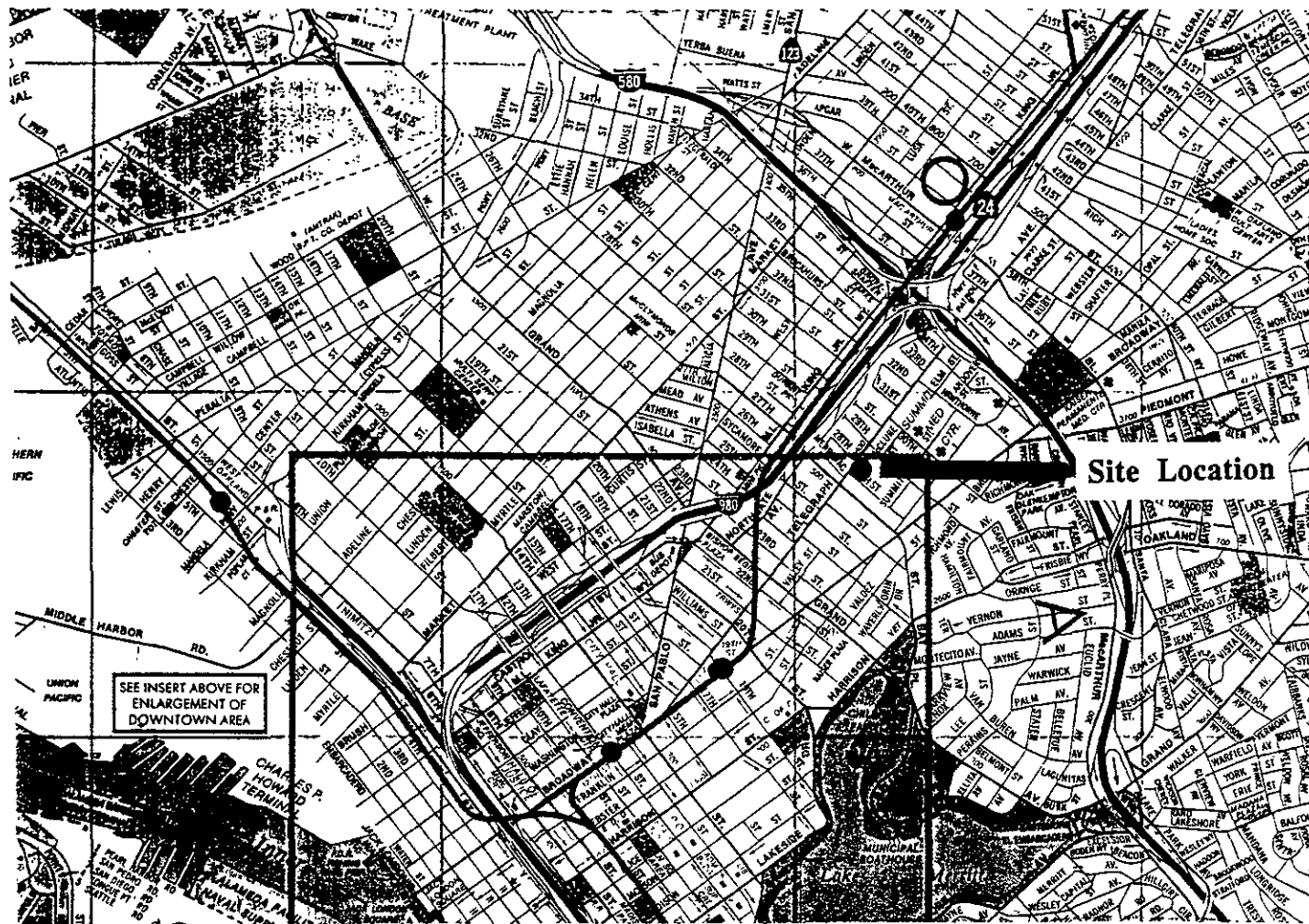
DUP = Duplicate sample

Notes:

Benzene, Toluene, Ethylbenzene, Xylenes analyzed by EPA Method 8020

a = The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.

c = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline.



Site Location

SEE INSERT ABOVE FOR
ENLARGEMENT OF
DOWNTOWN AREA



0 2200



Scale in Feet

Note: Vicinity Map taken from California State AAA map.

PLATE

1

SITE VICINITY MAP
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

enviros[®]
95290

Drawn By: JLP

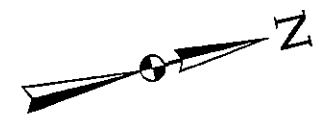
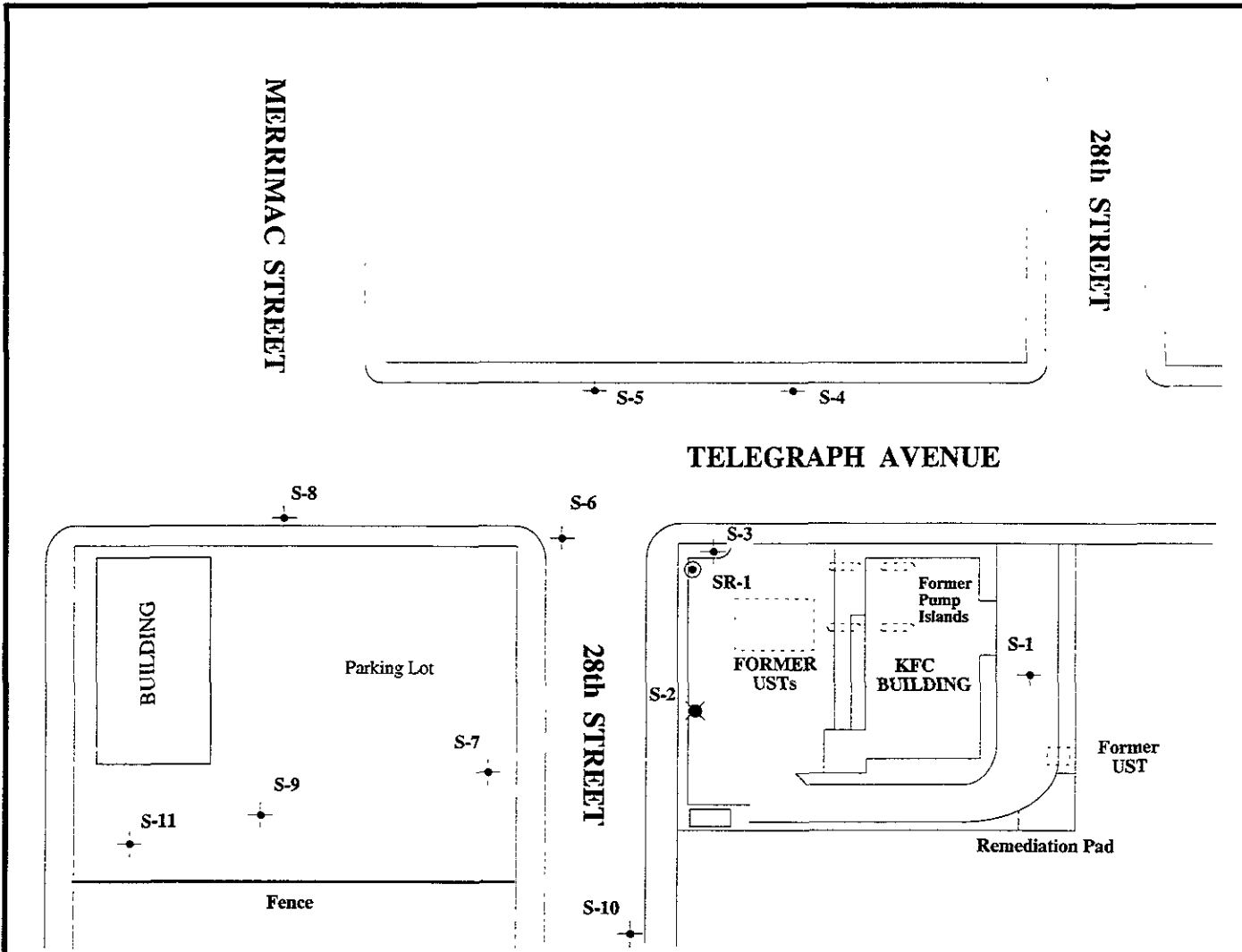
Date: 5-15-95

Approved By:

Date: 07-09-95

EXPLANATION

- Groundwater Monitoring Well
- ⊙ Recovery Well
- ✱ Destroyed Monitoring Well



Base map taken from Weiss Associates Site Map.

PLATE
2

SITE PLAN
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

enviros®
95290

Drawn By: JLP

Date: 5-15-95

Approved By: JLP

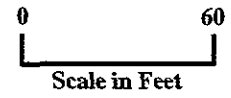
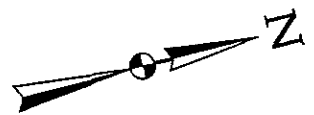
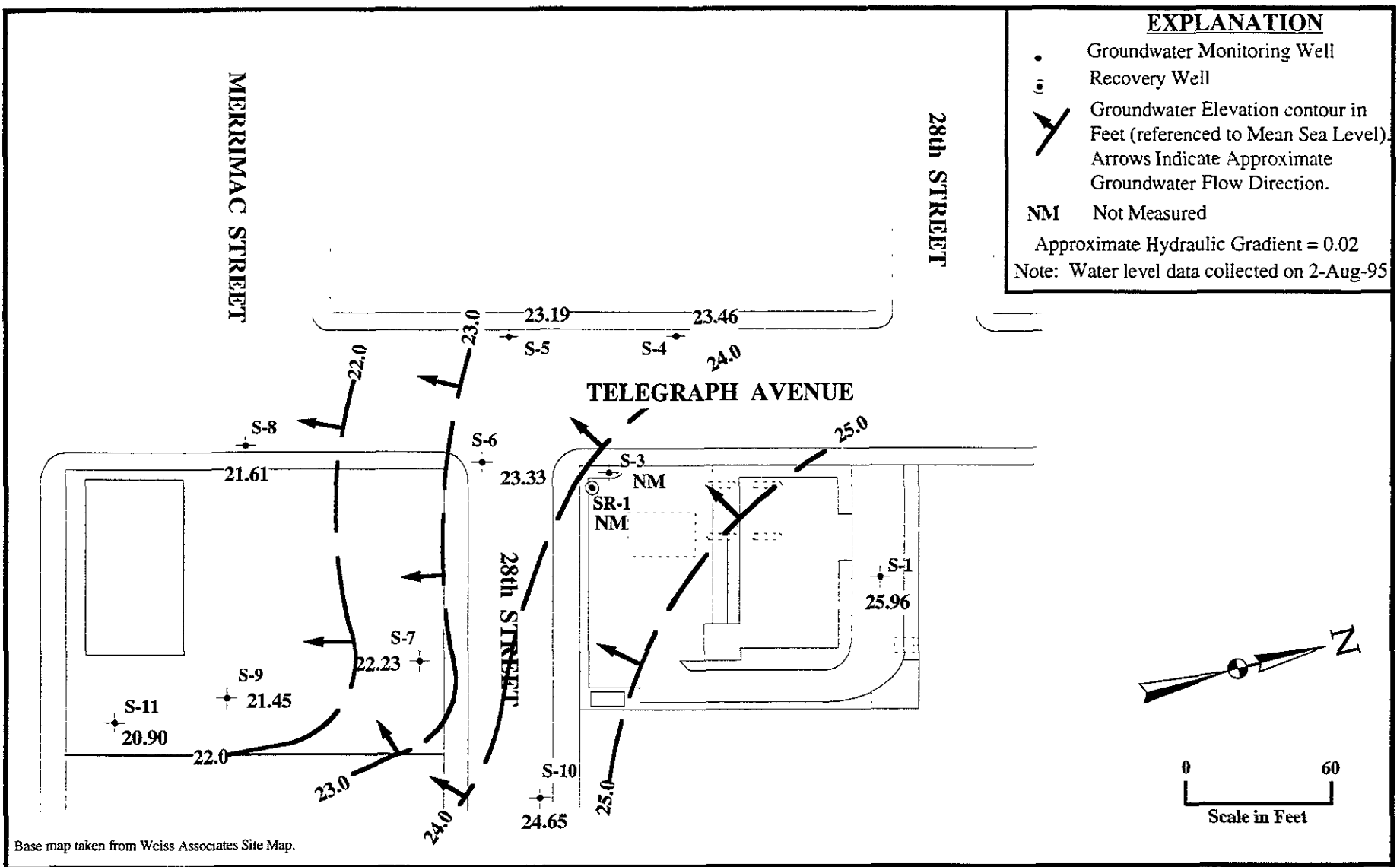
Date: 21-Sep-95

EXPLANATION

- Groundwater Monitoring Well
- Recovery Well
- ↘ Groundwater Elevation contour in Feet (referenced to Mean Sea Level). Arrows Indicate Approximate Groundwater Flow Direction.

NM Not Measured

Approximate Hydraulic Gradient = 0.02
 Note: Water level data collected on 2-Aug-95



Base map taken from Weiss Associates Site Map.

PLATE
3

GROUNDWATER CONTOUR MAP
 Former Shell Service Station
 2800 Telegraph Avenue
 Oakland, California

enviros®
 95290

Drawn By: GLV

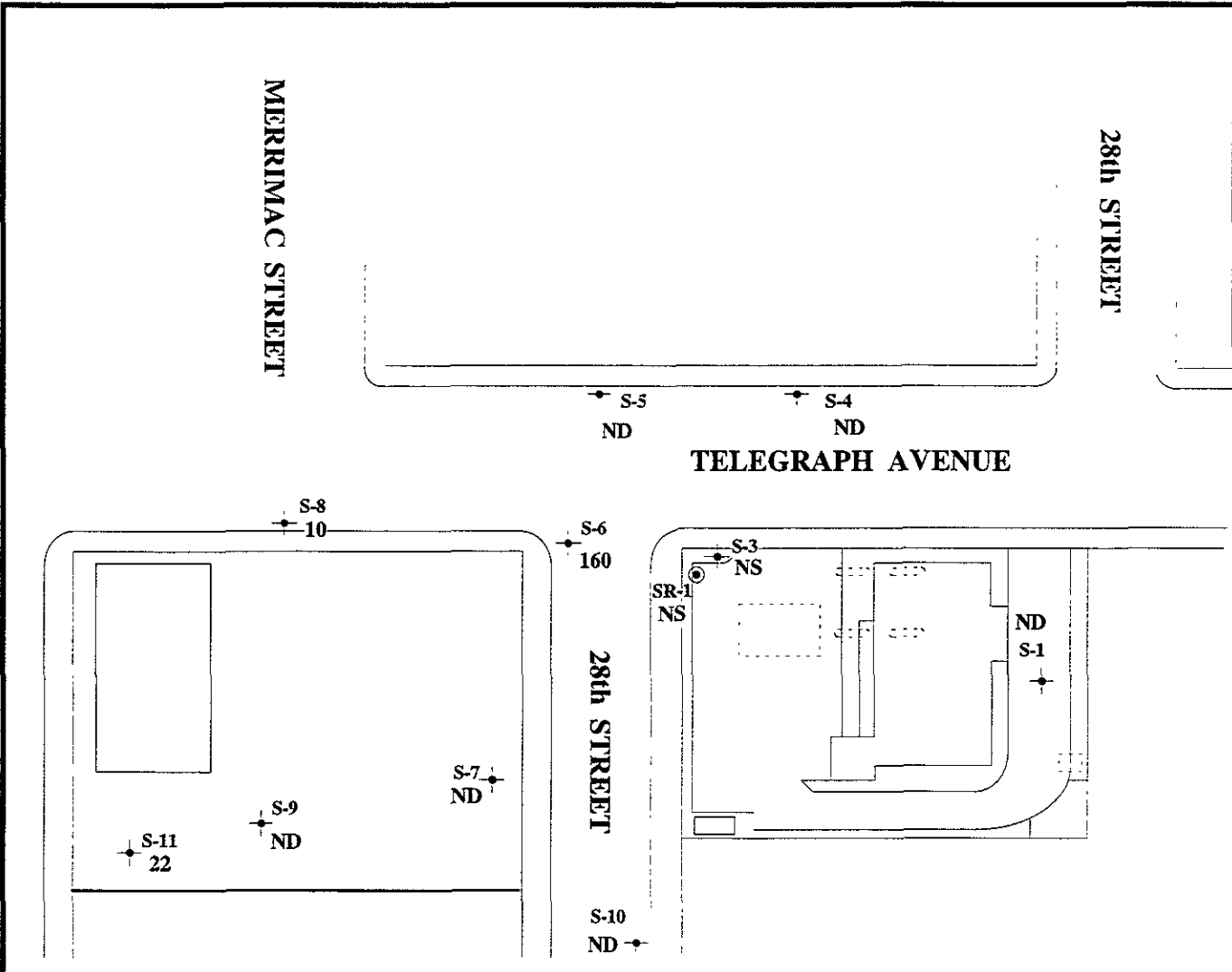
Date: 9-6-95

Approved By: *JM*

Date: 21-Sep-95

EXPLANATION

- Groundwater Monitoring Well
 - ⊙ Recovery Well
 - 160 Benzene Concentration in Groundwater in Parts Per Billion
 - ND Not Detected
 - NS Not Sampled
- Note: Groundwater sampled 2-August-95



Base map taken from Weiss Associates Site Map.

PLATE **4** **BENZENE CONCENTRATION MAP**
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

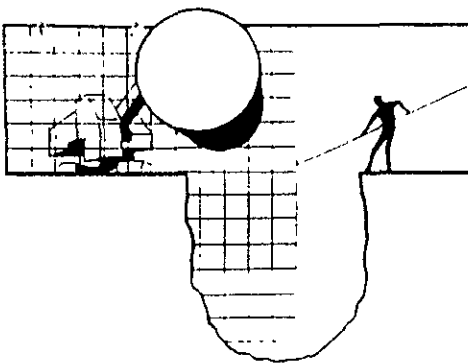


Drawn By: GLV Date: 9-6-95

Approved By: *Jm* Date: 21-Sep-95

Appendix A

**Blaine
Quarterly Groundwater Sampling Report
Chain-Of-Custody Record
NET Certified Analytical Report**



RECEIVED
SEP - 5 1995

August 30, 1995

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

Attn: Lynn Walker

SITE:
Shell WIC #204-5508-2303
2800 Telegraph Avenue
Oakland, California

QUARTER:
3rd quarter of 1995

QUARTERLY GROUNDWATER SAMPLING REPORT 950802-A-2

This report contains data collected during routine inspection, gauging and sampling of groundwater monitoring wells performed by Blaine Tech Services, Inc. in response to the request of the consultant who is overseeing work at this site on behalf of our mutual client, Shell Oil Company. Data collected in the course of our field work is presented in a **TABLE OF WELL GAUGING DATA**. The field information was collected during our preliminary gauging and inspection of the wells, the subsequent evacuation of each well prior to sampling, and at the time of sampling.

Measurements taken include the total depth of the well and the depth to water. The surface of water was further inspected for the presence of immiscibles which may be present as a thin film (a sheen on the surface of the water) or as a measurable free product zone (FPZ). At intervals during the evacuation phase, the purge water was monitored with instruments that measure electrical conductivity (EC), potential hydrogen (pH), temperature (degrees Fahrenheit), and turbidity (NTU). In the interest of simplicity, fundamental information is tabulated here, while the bulk of the information is turned over directly to the consultant who is making professional interpretations and evaluations of the conditions at the site.

STANDARD PROCEDURES

Evacuation

Groundwater wells are thoroughly purged before sampling to insure that the sample is collected from water that has been newly drawn into the well from the surrounding geologic formation. The selection of equipment to evacuate each well is based on the physical characteristics of the well and what is known about the performance of the formation in which the well has been installed. There are several suitable devices which can be used for evacuation. The most commonly employed devices are air or gas actuated pumps, electric submersible pumps, and hand or mechanically actuated bailers. Our personnel frequently employ USGS/Middleburg positive displacement pumps or similar air actuated pumps which do not agitate the water standing in the well.

Normal evacuation removes three case volumes of water from the well. More than three case volumes of water are removed in cases where more evacuation is needed to achieve stabilization of water parameters and when requested by the local implementing agency. Less water may be removed in cases where the well dewateres and does not recharge to 80% of its original volume within two hours and any additional time our personnel have reason to remain at the site. In such cases, our personnel return to the site within twenty four hours and collect sample material from the water which has recharged into the well case.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site. Effluent water from purging and on-site equipment cleaning is collected and transported to Shell's Martinez Manufacturing Complex in Martinez, California.

Free Product Skimmer

The column headed, VOLUME OF IMMISCIBLES REMOVED (ml) is included in the TABLE OF WELL GAUGING DATA to cover situations where a free product skimming device must be removed from the well prior to gauging. Skimmers are installed in wells with a free product zone on the surface of the water. The skimmer is a free product recovery device which often prevents normal well gauging and free product zone measurements. The 2.0" and 3.0" PetroTraps fall into the category of devices that obstruct normal gauging. In cases where the consultant elects to have our personnel pull the skimmers out of the well and gauge the well, our personnel perform the additional task of draining the accumulated free product out of the PetroTrap before putting it back in the well. This

recovered free product is measured and logged in the VOLUME OF IMMISCIBLES REMOVED column. Gauging at such sites is performed in accordance with specific directions from the professional consulting firm overseeing work at the site on Shell's behalf.

Sample Containers

Sample material is collected in specially prepared containers which are provided by the laboratory that performs the analyses.

Sampling

Sample material is collected in stainless steel bailer type devices normally fitted with both a top and a bottom check valve. Water is promptly decanted into new sample containers in a manner which reduces the loss of volatile constituents and follows the applicable EPA standard for handling volatile organic and semi-volatile compounds.

Following collection, samples are promptly placed in an ice chest containing prefrozen blocks of an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with a site designation and a discrete sample identification number specific to that particular groundwater well. Additional standard notations (e.g. time, date, sampler) are also made on the label.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under a standard Shell Oil Company chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date, and signature of the person releasing the samples followed by the time, date and signature of the person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were delivered to National Environmental Testing, Inc. in Santa Rosa, California. NET is a California Department of Health Services certified Hazardous Materials Testing Laboratory and is listed as DOHS HMTL #1386.

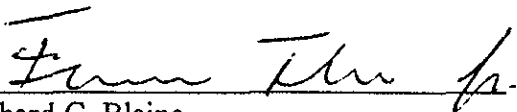
Objective Information Collection

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. performs no consulting and does not become involved in the marketing or installation of remedial systems of any kind. Blaine Tech Services, Inc. is concerned only with the generation of objective information, not with the use of that information to support evaluations and recommendations concerning the environmental condition of the site. Even the straightforward interpretation of objective analytical data is better performed by interested regulatory agencies, and those engineers and geologists who are engaged in the work of providing professional opinions about the site and proposals to perform additional investigation or design remedial systems.

Reportage

Submission of this report and the attached laboratory report to interested regulatory agencies is handled by the consultant in charge of the project. Any professional evaluations or recommendations will be made by the consultant under separate cover.

Please call if we can be of any further assistance.


Richard C. Blaine

RCB/lp

attachments: table of well gauging data
chain of custody
certified analytical report

cc: Enviro, Inc.
19411 Riverside Drive
P.O. Box 259
Sonoma, CA 95476-0259
ATTN: Diane Lundquist

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (mi)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	8/2/95	TOB	--	NONE	--	--	9.35	27.72
S-4	8/2/95	TOB	--	NONE	--	--	10.62	30.43
S-5	8/2/95	TOB	--	NONE	--	--	10.23	30.48
S-6 *	8/2/95	TOB	--	NONE	--	--	9.26	22.20
S-7	8/2/95	TOB	--	NONE	--	--	11.10	30.64
S-8	8/2/95	TOB	--	NONE	--	--	10.36	19.12
S-9	8/2/95	TOB	--	NONE	--	--	10.41	30.06
S-10	8/2/95	TOB	--	NONE	--	--	8.30	24.35
S-11	8/2/95	TOB	--	NONE	--	--	9.88	19.20
SR-1	8/2/95	TOB	--	NONE	--	--	5.31	34.42

* Sample DUP was a duplicate sample taken from well S-6.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 950802-AZ

Date: 8/2/95

Page 1 of 2

Site Address: 2800 Telegraph Ave., Oakland

WIC#: 204-5508-2303

Shell Engineer: Lynn Walker
Phone No.: (510) 675-6169
Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: *Randy Valente*

Printed Name: **RANDY VALENTINE**

Analysis Required

LAB: NET

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	6461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6461	48 hours <input type="checkbox"/>
Soil Classfy/Dxposal <input type="checkbox"/>	6462	16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Dxposal <input type="checkbox"/>	6463	Other <input type="checkbox"/>
Soil/Air Rem. or Spt. O & M <input type="checkbox"/>	6462	NOTE: Notify Lab as soon as possible of 24/48 hr. LAT.
Water Rem. or Spt. O & M <input type="checkbox"/>	6463	
Other <input type="checkbox"/>		

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N

Sample ID	Date	TIME	Soil	Water	Air	No. of conts.
S-1	8/2	840		X		3
S-4		1100		X		3
S-5		1130		X		3
S-6		1200		X		3
S-7		910		X		3
S-8		1025		X		3
S-9		930		X		3
S-10		1230		X		3

CUSTODY SEALED
8-3-95
Seal Intact
JA

Relinquished By (Signature): <i>Randy Valente</i>	Printed Name: RANDY VALENTINE	Date: <u>8-3-95</u>	Received (Signature): <i>[Signature]</i>	Printed Name: FLOYD FREDMAN	Date: <u>8-3-95</u>
Relinquished By (Signature): <i>[Signature]</i>	Printed Name: FLOYD FREDMAN	Date: <u>8-3-95</u>	Received (Signature): <i>[Signature]</i>	Printed Name: PAM GREENE	Date: <u>8-4-95</u>
Relinquished By (Signature):	Printed Name:	Date:	Received (Signature):	Printed Name:	Date:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

VIA: NCS

#7931



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 950802-AZ

Date: 8-2-95

Page 2 of 2

Silo Address: 280C Telegraph Ave., Oakland

WIC#: 204-5508-2303

Shell Engineer: Lynn Walker
Phone No.: (510) 675-6169
Fax #: 675-6172

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:
Sampled by: *Randy Valentine*

Printed Name: RANDY VALENTINE

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
-------------------------	----------------------------	---------------------	------------------------------	-------------------	----------------------------------	----------	----------------	------------------	---------------

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DI	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	441	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	442	
Water Rem. or Sys. O & M <input type="checkbox"/>	443	
Other <input type="checkbox"/>		

NOTE: Holly Lab as soon as possible of 24/48 hrs. TAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conls.	MATERIAL DESCRIPTION		SAMPLE CONDITION/ COMMENTS										
							TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N			
S-11	8/2	955		X		3													
DUP				X		3													
EB		845		X		3													
TR				X		2													

CUSTODY SEALED
8-3-95
Deal Intact

Relinquished By (signature): *Randy Valentine*

Printed Name: RANDY VALENTINE
Date: 8-3-95
Time: 9:50

Received (signature): *Flood Freeman*

Printed Name: FLOOD FREEMAN
Date: 8-3-95
Time: 9:50

Date: 8-3-95
Time: 9:50

Relinquished By (signature): *Sally Freeman*

Printed Name: FLOOD FREEMAN
Date: 8-3-95
Time: 1:00

Received (signature): *Pam Greene*

Printed Name: PAM GREENE
Date: 8-4-95
Time: 08:10

Date: 8-4-95
Time: 08:10

Relinquished By (signature):

Printed Name:

Received (signature):

Printed Name:

Date:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 08/15/1995
NET Client Acct. No: 1821
NET Job No: 95.03091
Received: 08/04/1995

Client Reference Information

Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:


Jennifer L. Roseberry
Project Manager

Enclosure (s)





Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
Page: 2

Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-1

Date Taken: 08/02/1995

Time Taken: 08:40

NET Sample No: 247707

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/12/1995	3088
Purgeable TPH	ND		50	ug/L	5030/M8015		08/12/1995	3088
Carbon Range: C6 to C12	--						08/12/1995	3088
METHOD 8020 (GC, Liquid)	--						08/12/1995	3088
Benzene	ND		0.5	ug/L	8020		08/12/1995	3088
Toluene	ND		0.5	ug/L	8020		08/12/1995	3088
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1995	3088
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1995	3088
SURROGATE RESULTS	--						08/12/1995	3088
Bromofluorobenzene (SURR)	85			% Rec.	8020		08/12/1995	3088

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
Page: 3

Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-4

Date Taken: 08/02/1995

Time Taken: 11:00

NET Sample No: 247708

Parameter	Results	Flags	Reporting		Method	Date	Date	Run Batch No.
			Limit	Units		Extracted	Analyzed	
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/12/1995	3088
Purgeable TPH	ND		50	ug/L	5030/M8015		08/12/1995	3088
Carbon Range: C6 to C12	--						08/12/1995	3088
METHOD 8020 (GC, Liquid)	--						08/12/1995	3088
Benzene	ND		0.5	ug/L	8020		08/12/1995	3088
Toluene	ND		0.5	ug/L	8020		08/12/1995	3088
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1995	3088
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1995	3088
SURROGATE RESULTS	--						08/12/1995	3088
Bromofluorobenzene (SURR)	85			% Rec.	8020		08/12/1995	3088

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
Page: 4

Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-5
Date Taken: 08/02/1995
Time Taken: 11:30
NET Sample No: 247709

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
No.								
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/12/1995	3089
Purgeable TPH	ND		50	ug/L	5030/M8015		08/12/1995	3089
Carbon Range: C6 to C12	--						08/12/1995	3089
METHOD 8020 (GC, Liquid)								
Benzene	ND		0.5	ug/L	8020		08/12/1995	3089
Toluene	ND		0.5	ug/L	8020		08/12/1995	3089
Ethylbenzene	ND		0.5	ug/L	8020		08/12/1995	3089
Xylenes (Total)	ND		0.5	ug/L	8020		08/12/1995	3089
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	87			% Rec.	8020		08/12/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
Page: 5

Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-6

Date Taken: 08/02/1995

Time Taken: 12:00

NET Sample No: 247710

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	10						08/13/1995	3089
Purgeable TPH	1,400		500	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)	--						08/13/1995	3089
Benzene	160		5	ug/L	8020		08/13/1995	3089
Toluene	ND		5	ug/L	8020		08/13/1995	3089
Ethylbenzene	ND		5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	ND		5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS	--						08/13/1995	3089
Bromofluorobenzene (SURR)	91			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
Page: 6

Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-7

Date Taken: 08/02/1995
Time Taken: 09:10
NET Sample No: 247711

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
No.								
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/13/1995	3089
Purgeable TPH	ND		50	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)	--						08/13/1995	3089
Benzene	ND		0.5	ug/L	8020		08/13/1995	3089
Toluene	ND		0.5	ug/L	8020		08/13/1995	3089
Ethylbenzene	ND		0.5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	ND		0.5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS	--						08/13/1995	3089
Bromofluorobenzene (SURR)	87			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 95.03091

Date: 08/15/1995
 ELAP Cert: 1386
 Page: 7

Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-8

Date Taken: 08/02/1995

Time Taken: 10:25

NET Sample No: 247712

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	10						08/13/1995	3089
Purgeable TPH	1,700		500	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)	--						08/13/1995	3089
Benzene	10		5	ug/L	8020		08/13/1995	3089
Toluene	9.1		5	ug/L	8020		08/13/1995	3089
Ethylbenzene	48		5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	210		5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS	--						08/13/1995	3089
Bromofluorobenzene (SURR)	91			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-9

Date Taken: 08/02/1995

Time Taken: 09:30

NET Sample No: 247713

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
No.								
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/13/1995	3089
Purgeable TPH	ND		50	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)								
Benzene	ND		0.5	ug/L	8020		08/13/1995	3089
Toluene	ND		0.5	ug/L	8020		08/13/1995	3089
Ethylbenzene	ND		0.5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	ND		0.5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	87			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-10

Date Taken: 08/02/1995

Time Taken: 12:30

NET Sample No: 247714

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/13/1995	3089
Purgeable TPH	ND		50	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)	--						08/13/1995	3089
Benzene	ND		0.5	ug/L	8020		08/13/1995	3089
Toluene	ND		0.5	ug/L	8020		08/13/1995	3089
Ethylbenzene	ND		0.5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	ND		0.5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS	--						08/13/1995	3089
Bromofluorobenzene (SURR)	90			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: S-11

Date Taken: 08/02/1995

Time Taken: 09:55

NET Sample No: 247715

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
								No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/13/1995	3089
Purgeable TPH	230		50	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)	--						08/13/1995	3089
Benzene	22		0.5	ug/L	8020		08/13/1995	3089
Toluene	11		0.5	ug/L	8020		08/13/1995	3089
Ethylbenzene	13		0.5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	35		0.5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS	--						08/13/1995	3089
Bromofluorobenzene (SURR)	90			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: DUP

Date Taken: 08/02/1995

Time Taken:

NET Sample No: 247716

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	10						08/13/1995	3089
Purgeable TPH	1,400		500	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)								
Benzene	170		5	ug/L	8020		08/13/1995	3089
Toluene	ND		5	ug/L	8020		08/13/1995	3089
Ethylbenzene	ND		5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	ND		5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	95			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: EB

Date Taken: 08/02/1995
Time Taken: 08:45
NET Sample No: 247717

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/13/1995	3089
Purgeable TPH	ND		50	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)								
Benzene	ND		0.5	ug/L	8020		08/13/1995	3089
Toluene	ND		0.5	ug/L	8020		08/13/1995	3089
Ethylbenzene	ND		0.5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	ND		0.5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	87			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

SAMPLE DESCRIPTION: TB

Date Taken: 08/02/1995

Time Taken:

NET Sample No: 247718

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						08/13/1995	3089
Purgeable TPH	ND		50	ug/L	5030/M8015		08/13/1995	3089
Carbon Range: C6 to C12	--						08/13/1995	3089
METHOD 8020 (GC, Liquid)	--						08/13/1995	3089
Benzene	ND		0.5	ug/L	8020		08/13/1995	3089
Toluene	ND		0.5	ug/L	8020		08/13/1995	3089
Ethylbenzene	ND		0.5	ug/L	8020		08/13/1995	3089
Xylenes (Total)	ND		0.5	ug/L	8020		08/13/1995	3089
SURROGATE RESULTS	--						08/13/1995	3089
Bromofluorobenzene (SURR)	90			% Rec.	8020		08/13/1995	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected				
METHOD 5030/8015-M (Shell)							
Purgeable TPH	94.0	0.47	0.50	mg/L	08/12/1995	aal	3088
Benzene	101.2	5.06	5.00	ug/L	08/12/1995	aal	3088
Toluene	102.4	5.12	5.00	ug/L	08/12/1995	aal	3088
Ethylbenzene	93.2	4.66	5.00	ug/L	08/12/1995	aal	3088
Xylenes (Total)	100.0	15.0	15.0	ug/L	08/12/1995	aal	3088
Bromofluorobenzene (SURR)	89.0	89	100	% Rec.	08/12/1995	aal	3088
METHOD 5030/8015-M (Shell)							
Purgeable TPH	94.0	0.47	0.50	mg/L	08/12/1995	aal	3089
Benzene	101.2	5.06	5.00	ug/L	08/12/1995	aal	3089
Toluene	102.4	5.12	5.00	ug/L	08/12/1995	aal	3089
Ethylbenzene	93.2	4.66	5.00	ug/L	08/12/1995	aal	3089
Xylenes (Total)	100.0	15.0	15.0	ug/L	08/12/1995	aal	3089
Bromofluorobenzene (SURR)	89.0	89	100	% Rec.	08/12/1995	aal	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.03091

Date: 08/15/1995
ELAP Cert: 1386
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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

METHOD BLANK REPORT

Parameter	Method		Units	Date Analyzed	Analyst Initials	Run Batch Number
	Blank Amount Found	Reporting Limit				
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	08/12/1995		3088
Benzene	ND	0.5	ug/L	08/12/1995		3088
Toluene	ND	0.5	ug/L	08/12/1995		3088
Ethylbenzene	ND	0.5	ug/L	08/12/1995		3088
Xylenes (Total)	ND	0.5	ug/L	08/12/1995		3088
Bromofluorobenzene (SURR)	95		% Rec.	08/12/1995		3088
METHOD 5030/8015-M (Shell)						
Purgeable TPH	ND	0.05	mg/L	08/12/1995	aal	3089
Benzene	ND	0.5	ug/L	08/12/1995	aal	3089
Toluene	ND	0.5	ug/L	08/12/1995	aal	3089
Ethylbenzene	ND	0.5	ug/L	08/12/1995	aal	3089
Xylenes (Total)	ND	0.5	ug/L	08/12/1995	aal	3089
Bromofluorobenzene (SURR)	95		% Rec.	08/12/1995	aal	3089

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 95.03091

Date: 08/15/1995
 ELAP Cert: 1386
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Ref: Shell 2800 Telegraph Ave., Oakland, CA./950802-A2

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked
	Spike % Rec.	Dup % Rec.	RPD	Spike Amount		Spike Conc.	Dup. Conc.	Units			
METHOD 5030/8015-M (Shell)											
Purgeable TPH	90.0	90.0	0.0	0.5	ND	0.45	0.45	mg/L	08/12/1995	3088	247699
Benzene	95.9	97.3	1.4	7.3	ND	7.0	7.1	ug/L	08/12/1995	3088	247699
Toluene	95.1	96.6	1.6	26.7	ND	25.4	25.8	ug/L	08/12/1995	3088	247699
METHOD 5030/8015-M (Shell)											
Purgeable TPH	84.0	86.0	2.4	0.5	ND	0.42	0.43	mg/L	08/12/1995	3089	247709
Benzene	97.3	95.9	1.4	7.3	ND	7.1	7.0	ug/L	08/12/1995	3089	247709
Toluene	94.8	94.0	0.8	26.7	ND	25.3	25.1	ug/L	08/12/1995	3089	247709

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \frac{|\text{Value 1} - \text{Value 2}|}{\text{mean value}}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

COOLER RECEIPT FORM

Project: 950802-A2 Log No: 7931
Cooler received on: 8/4/95 and checked on 8/4/95 by [Signature]
(signature)

- Were custody papers present?.....~~YES~~ NO
 - Were custody papers properly filled out?.....~~YES~~ NO
 - Were the custody papers signed?.....~~YES~~ NO
 - Was sufficient ice used?.....~~YES~~ NO *TEMP: 0°C*
 - Did all bottles arrive in good condition (unbroken)?.....~~YES~~ NO
 - Did bottle labels match COC?.....~~YES~~ NO
 - Were proper bottles used for analysis indicated?.....~~YES~~ NO
 - Correct preservatives used?.....~~YES~~ NO
 - VOA vials checked for headspace bubbles?.....~~YES~~ NO
- Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:
<u>TB</u>	<u>2</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

(coolerrec)

LOP 413

enviros®

December 12, 1995

Mr. R. Jeff Granberry
Shell Oil Products Company
P.O. Box 4023
Concord, California 94524

RE: Quarterly Monitoring Report - Fourth Quarter 1995
Shell Service Station
2800 Telegraph Avenue
Oakland, California
WIC #204-5508-2303

Dear Mr. Granberry:

This Quarterly Monitoring Report describes the recently completed activities associated with groundwater monitoring and sampling at the referenced site (Plates 1 and 2). This report was prepared to meet quarterly reporting guidelines issued by the Regional Water Quality Control Board and the Alameda County Health Care Services Agency.

This document presents the results of activities performed in the fourth quarter of 1995.

Quarterly Monitoring & Sampling Summary

- Blaine Tech Services, Inc. (Blaine) of San Jose, California measured groundwater levels from Wells S-1, S-4 through S-11, and SR-1 on November 2, 1995.
- Groundwater samples collected from Wells S-8 and S-11 were transported to National Environmental Testing (NET) of Santa Rosa, California. A duplicate sample, trip blank, and a equipment blank were prepared and analyzed for quality control purposes.
- Enviro, Inc. (Enviros) evaluated water-level measurement data and chemical analytical results and prepared this report, which includes the Blaine Quarterly Groundwater Monitoring Report, a site plan, a groundwater contour map, and a benzene concentration map.
- Groundwater flow ranges from southeast to southwest a calculated hydraulic gradient of 0.02. A groundwater contour map is presented on Plate 3.
- TPH-G concentrations in groundwater samples from Wells S-8 and S-11 were 1200 ppb and 200 ppb, respectively. Benzene concentrations were 16 ppb and 26 ppb respectively. A benzene concentration map was prepared and is presented on Plate 4.

95 DEC 14 PM 2:09
ENVIRO, INC.
270 PERKINS STREET
SONOMA, CALIFORNIA 95476-0259

Fourth Quarter Sampling

Monitoring Wells S-8 and S-11 were sampled and analyzed for Total Petroleum Hydrocarbons calculated as Gasoline (TPH-G) according to EPA Method 8015 (Modified) and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) according to EPA Method 8020. Additionally, a duplicate sample, a trip blank, and an equipment blank were prepared and analyzed for quality control purposes.

Field monitoring data are summarized in Table 1. The chemical analytical data for TPH-G and BTEX have been included in the Historical Groundwater Quality Database (Table 2). The Blaine Quarterly Groundwater Sampling Report is presented in Appendix A.

Quarterly monitoring, sampling, and reporting will continue on the established schedule for the next quarter.

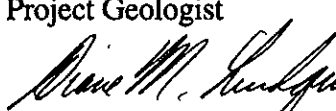
If you have any questions regarding the contents of this document, please call.

Sincerely,

Enviros, Inc.



Joe Neely
Project Geologist



Diane M. Lundquist, P.E.
Senior Engineer
C46725



TABLE 1

FIELD MONITORING DATA

**SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303**

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
S-1	4-May-92	3	35.31	9.50	25.81
	10-Aug-92			10.85	24.46
	9-Nov-92			10.34	24.97
	22-Feb-93			7.60	27.71
	7-Jun-93			8.63	26.68
	13-Aug-93			9.20	26.11
	18-Nov-93			10.58	24.73
	10-Feb-94			8.41	26.90
	3-May-94			9.09	26.22
	1-Aug-94			8.81	26.50
	8-Nov-94			9.32	25.99
	3-Feb-95			6.98	28.33
	4-May-95			8.10	27.21
	2-Aug-95			9.35	25.96
2-Nov-95	9.96	25.35			
S-2	4-May-92	3	33.91	9.44	24.47
	10-Aug-92			10.73	23.18
	9-Nov-92			10.29	23.62
	22-Feb-93a			9.04	24.87
S-3	4-May-92	3	33.56	9.22	24.34
	10-Aug-92b			---	---
S-4	4-May-92	3	34.08	9.96	24.12
	10-Aug-92			11.32	22.76
	9-Nov-92			11.29	22.79
	22-Feb-93			9.82	24.26
	7-Jun-93			10.51	23.57
	13-Aug-93			11.05	23.03
	18-Nov-93			11.34	22.74
	10-Feb-94			9.93	24.15
	3-May-94			10.40	23.68
	1-Aug-94			10.68	23.40
	8-Nov-94			9.44	24.47
	3-Feb-95			9.18	24.90
	4-May-95			9.50	24.58
	2-Aug-95			10.62	23.46
2-Nov-95	10.85	23.23			
S-5	4-May-92	3	33.42	10.27	23.15
	10-Aug-92			10.68	22.74
	9-Nov-92			10.69	22.73

TABLE 1
FIELD MONITORING DATA

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
S-5	22-Feb-93			9.45	23.97
	7-Jun-93			10.23	23.19
	13-Aug-93			10.58	22.84
	18-Nov-93			10.70	22.72
	10-Feb-94			9.75	23.67
	3-May-94			10.19	23.23
	1-Aug-94			10.30	23.12
	8-Nov-94			9.64	23.78
	3-Feb-95			9.59	23.83
	4-May-95			9.52	23.90
	2-Aug-95			10.23	23.19
	2-Nov-95			10.15	23.27
S-6	4-May-92	3	32.59	9.42	23.17
	10-Aug-92			10.40	22.19
	9-Nov-92			10.16	22.43
	22-Feb-93			7.60	24.99
	7-Jun-93			8.90	23.69
	13-Aug-93			9.39	23.20
	18-Nov-93			10.32	22.27
	10-Feb-94			8.68	23.91
	3-May-94			9.20	23.39
	1-Aug-94			8.90	23.69
	8-Nov-94			8.32	24.27
	3-Feb-95			8.04	24.55
	4-May-95			8.28	24.31
	2-Aug-95			9.26	23.33
2-Nov-95			10.88	21.71	
S-7	4-May-92	3	33.33	11.21	22.12
	10-Aug-92			12.28	21.05
	9-Nov-92			11.77	21.56
	22-Feb-93			8.86	24.47
	7-Jun-93			10.58	22.75
	13-Aug-93			11.34	21.99
	18-Nov-93			12.00	21.33
	10-Feb-94			9.88	23.45
	3-May-94			10.75	22.58
	1-Aug-94			11.05	22.28
	8-Nov-94			9.64	23.89
3-Feb-95			8.53	24.80	

TABLE 1

FIELD MONITORING DATA

**SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303**

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
S-7	4-May-95			9.42	23.91
	2-Aug-95			11.10	22.23
	2-Nov-95			11.60	21.73
S-8	4-May-92	3	31.97	10.29	21.68
	10-Aug-92			11.12	20.85
	9-Nov-92			10.71	21.26
	22-Feb-93			6.04	25.93
	7-Jun-93			10.06	21.91
	13-Aug-93			10.56	21.41
	18-Nov-93			10.90	21.07
	10-Feb-94			9.53	22.44
	3-May-94			10.06	21.91
	1-Aug-94			10.32	21.65
	8-Nov-94			9.25	22.72
	3-Feb-95			8.99	22.98
	4-May-95			9.22	22.75
2-Aug-95			10.36	21.61	
2-Nov-95			10.72	21.25	
S-9	4-May-92	3	31.86	10.45	21.41
	10-Aug-92			11.52	20.34
	9-Nov-92			11.02	20.84
	22-Feb-93			8.00	23.86
	7-Jun-93			10.07	21.79
	13-Aug-93			10.92	20.94
	18-Nov-93			11.19	20.67
	10-Feb-94			9.16	22.70
	3-May-94			10.03	21.83
	1-Aug-94			10.52	21.34
	8-Nov-94			9.08	22.78
	3-Feb-95			8.37	23.49
	4-May-95			8.78	23.08
2-Aug-95			10.41	21.45	
2-Nov-95			10.78	21.08	
S-10	4-May-92	3	32.95	8.54	24.41
	10-Aug-92			10.43	22.52
	9-Nov-92			9.14	23.81
	22-Feb-93			6.72	26.23
	7-Jun-93			8.08	24.87
13-Aug-93			8.83	24.12	

TABLE 1

FIELD MONITORING DATA

**SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303**

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
S-10	18-Nov-93			9.46	23.49
	10-Feb-94			7.41	25.54
	3-May-94			8.16	24.79
	1-Aug-94			8.29	24.66
	8-Nov-94			7.02	25.93
	3-Feb-95			6.79	26.16
	4-May-95			7.08	25.87
	2-Aug-95			8.30	24.65
	2-Nov-95			9.36	23.59
	S-11	4-May-92	3	30.78	9.99
10-Aug-92				10.92	19.86
9-Nov-92				10.44	20.34
22-Feb-93				7.30	23.48
7-Jun-93				9.51	21.27
13-Aug-93				10.39	20.39
18-Nov-93				10.64	20.14
10-Feb-94				8.50	22.28
3-May-94				9.42	21.36
1-Aug-94				10.12	20.66
8-Nov-94				8.84	21.94
3-Feb-95				7.12	23.66
4-May-95				7.96	22.82
2-Aug-95				9.88	20.90
2-Nov-95				10.10	20.68
SR-1	4-May-92	6	c	9.02	---
	10-Aug-92			10.29	---
	9-Nov-92			10.92	---
	22-Feb-93			6.64	---
	7-Jun-93			7.36	---
	13-Aug-93			7.96	---
	18-Nov-93			10.02	---
	10-Feb-94			---	---
	3-May-94			8.28	---
	1-Aug-94			7.98	---
	8-Nov-94			7.75	---
	3-Feb-95			7.20	---
	4-May-95			4.10	---
	2-Aug-95			5.31	---
	2-Nov-95			10.62	---

TABLE 1

FIELD MONITORING DATA

**SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303**

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	WATER ELEV. (FT.)
---------------------	-----------------------	----------------------------------	---------------------------------	-------------------------------------	----------------------------------

Notes:

Depth to water measured from top of casing

Elevations referenced to Mean Sea Level

a = Destroyed on April 8, 1993 for onsite construction

b = Well inaccessible since August 1992

c = Top-of-Casing not surveyed

--- = Data not available

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
S-1 (3rd Quarter)	4-May-92	9.50	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	10.85	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	10.34	<50	<0.5	<0.5	<0.5	<0.5
	23-Feb-93	7.60	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	8.63	<50	2.8	1.3	0.7	3
	13-Aug-93	9.20	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	10.58	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	8.41	<50	<0.5	<0.5	<0.5	<0.5
	3-May-94	9.09	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	8.81	<50	<0.5	<0.5	<0.5	<0.5
2-Aug-95	9.35	<50	<0.5	<0.5	<0.5	<0.5	
S-2	4-May-92	9.44	1,600	190	6	240	54
	10-Aug-92	10.73	<50	4.1	<0.5	<0.5	<0.5
	11-Sep-92	10.29	84	19	0.7	2.2	4.3
	23-Feb-93	9.04	16,000	1,600	480	850	1,800
	7-Jun-93				Well Destroyed		
S-3	4-May-92	9.22	---	---	---	---	---
	10-Aug-92	---	Well Paved Over - Inaccessible				
S-4 (3rd Quarter)	4-May-92	9.96	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	11.32	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	11.29	<50	<0.5	<0.5	<0.5	<0.5
	23-Feb-93	9.82	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	10.51	50	9.2	5.5	3.3	14
	13-Aug-93	11.05	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	11.34	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	9.93	<50	<0.5	<0.5	<0.5	<0.5
	3-May-94	10.40	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	10.68	<50	<0.5	<0.5	<0.5	<0.5
2-Aug-95	10.62	<50	<0.5	<0.5	<0.5	<0.5	
S-5 (1st & 3rd Quarter)	4-May-92	10.27	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	10.68	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	10.69	<50	<0.5	<0.5	<0.5	<0.5
	23-Feb-93	9.45	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	10.23	<50	<0.5	<0.5	<0.5	<0.5
	13-Aug-93	10.58	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	10.70	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	9.75	<50	<0.5	<0.5	<0.5	<0.5
	3-May-94	10.19	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	10.30	<50	<0.5	<0.5	<0.5	<0.5
3-Feb-95	9.59	<50	<0.5	<0.5	<0.5	<0.5	

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
S-5	2-Aug-95	10.23	<50	<0.5	<0.5	<0.5	<0.5
S-6	4-May-92	9.42	3,100	640	22	23	97
(3rd Quarter)	10-Aug-92	10.40	3,400	430	27	26	120
	9-Nov-92	10.16	2,000	320	15	15	100
	23-Feb-93	7.60	14,000	780	180	380	1,300
	7-Jun-93	8.90	3,900	1,400	56	83	210
	13-Aug-93	9.39	4,000a	890	16	<0.5	41
	18-Nov-93	10.32	80	5	<0.5	<0.5	<0.5
	10-Feb-94	8.68	4,100	370	23	21	90
	3-May-94	9.20	4,700	550	28	85	340
	1-Aug-94	8.90	2,900	370	11	11	43
	2-Aug-95	9.26	1,400	160	<5	<5	<5
S-6 (DUP)	1-Aug-94	---	2,600	340	8.8	7.7	33
	2-Aug-95	---	1,400	170	<5	<5	<5
S-7	4-May-92	11.21	180	1.6	<0.5	1.5	3
(1st & 3rd Quarter)	10-Aug-92	12.28	190	8	1.4	4.7	8.5
	9-Nov-92	11.77	280	16	4	7.8	21
	23-Feb-93	8.86	210	13	2.2	5.4	12
	7-Jun-93	10.58	90	1.2	2.5	1	<0.5
	13-Aug-93	11.34	140	4	0.8	<0.5	0.5
	18-Nov-93	12.00	440	43	4.9	0.9	4.2
	10-Feb-94	9.88	250a	<0.5	<0.5	1.8	<0.5
	3-May-94	10.75	130	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	11.05	250	4.8	<0.5	<0.5	<0.5
	3-Feb-95	8.53	<50	<0.5	<0.5	<0.5	<0.5
	2-Aug-95	11.10	<50	<0.5	<0.5	<0.5	<0.5
S-8	5-May-92	10.29	1,600	20	420	96	330
(Quarterly)	10-Aug-92	11.12	1,500	19	37	60	250
	9-Nov-92	10.71	710	5.7	24	28	120
	23-Feb-93	6.04	3,800	40	54	68	260
	7-Jun-93	10.06	1,200	13	19	65	150
	13-Aug-93	10.56	1,300	21	23	49	250
	18-Nov-93	10.90	870	16	5.3	59	230
	10-Feb-94	9.53	2,400	11	55	120	530
	3-May-94	10.06	3,100	12	27	130	370
	1-Aug-94	10.32	1,500	20	18	39	190
	8-Nov-94	9.25	2,100	22	38	73	390
	3-Feb-95	8.99	4,800	67	39	130	300
	4-May-95	9.22	2,600	31	23	71	310
	2-Aug-95	10.36	1,700	10	9.1	48	210

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
S-8	2-Nov-95	10.72	1,200	16	13	72	130
S-8 (DUP)	10-Feb-94	---	2,400	11	46	100	440
	3-May-94	---	3,000	21	25	120	340
	8-Nov-94	---	2,100	20	31	75	390
	3-Feb-95	---	3,700	53	30	100	240
	4-May-95	---	3,300	38	26	89	390
	2-Aug-95	---	1,200	15	13	70	120
S-9 (3rd Quarter)	5-May-92	10.45	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	11.52	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	11.02	<50	<0.5	<0.5	<0.5	0.7
	23-Feb-92	8.00	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	10.07	<50	<0.5	<0.5	<0.5	<0.5
	13-Aug-93	10.92	140b	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	11.19	170	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	9.16	140b	<0.5	<0.5	<0.5	<0.5
	3-May-94	10.03	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	10.52	<50	<0.5	<0.5	<0.5	<0.5
	2-Aug-95	10.41	<50	<0.5	<0.5	<0.5	<0.5
S-10 (3rd Quarter)	5-May-92	8.54	<50	<0.5	<0.5	<0.5	<0.5
	10-Aug-92	10.43	<50	<0.5	<0.5	<0.5	<0.5
	9-Nov-92	9.14	<50	<0.5	<0.5	<0.5	<0.5
	22-Feb-93	6.72	<50	<0.5	<0.5	<0.5	<0.5
	7-Jun-93	8.08	<50	<0.5	<0.5	<0.5	<0.5
	13-Aug-93	8.83	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-93	9.46	<50	<0.5	<0.5	<0.5	<0.5
	10-Feb-94	7.41	<50	<0.5	<0.5	<0.5	<0.5
	3-May-94	8.16	<50	<0.5	<0.5	<0.5	<0.5
	1-Aug-94	8.29	<50	<0.5	<0.5	<0.5	<0.5
2-Aug-95	8.30	<50	<0.5	<0.5	<0.5	<0.5	
S-11 (Quarterly)	4-May-92	9.99	1,500	55	32	57	190
	10-Aug-92	10.92	750	29	13	43	120
	9-Nov-92	10.44	4,100	32	62	120	1,100
	23-Feb-93	7.30	760	15	13	37	140
	7-Jun-93	9.51	1,700	40	16	100	360
	13-Aug-93	10.39	60	0.9	<0.5	0.8	1.2
	18-Nov-93	10.64	150	7.8	1	9	12
	10-Feb-94	8.50	4,400	53	19	160	390
	3-May-94	9.42	65	1.5	<0.5	0.53	0.59
	1-Aug-94	10.12	240	18	6.7	6.9	18
8-Nov-94	8.84	490	14	5.2	15	47	

TABLE 2
HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
2800 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-2303

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
S-11	3-Feb-95	7.12	380	4.1	0.9	1.4	5.1
	4-May-95	7.96	110	1.3	<0.5	1.1	1.8
	2-Aug-95	9.88	230	22	11	13	35
	2-Nov-95	10.10	200	26	10	10	30
S-11 (DUP)	7-Jun-93	---	1,600	51	16	83	300
	13-Aug-93	---	70	2.1	<0.5	0.9	2.1
SR-1	18-Nov-93	10.02	<50	<0.5	<0.5	<0.5	<0.5
SR-1 (DUP)	18-Nov-93	---	<50	<0.5	<0.5	<0.5	<0.5

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015

PPB = Parts per billion

<x = Not detected at detection limit of x

--- = Not analyzed

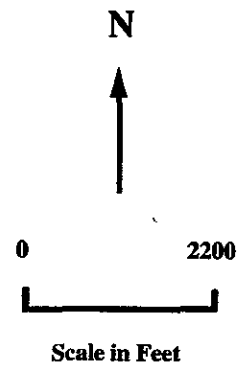
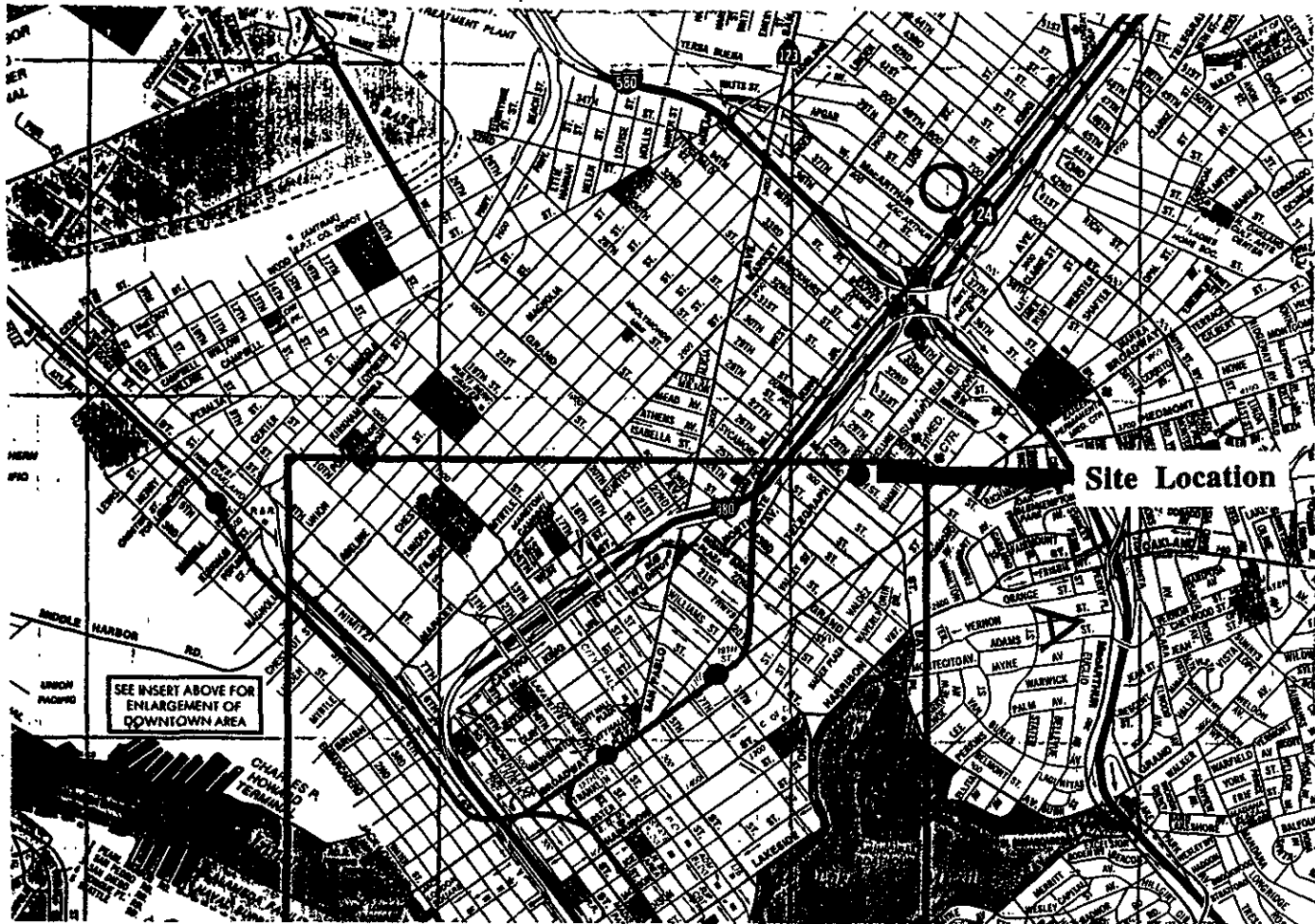
DUP = Duplicate sample

Notes:

Benzene, Toluene, Ethylbenzene, Xylenes analyzed by EPA Method 8020

a = The concentration reported as gasoline is primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.

c = The concentration reported as gasoline is primarily due to the presence of a discrete peak not indicative of gasoline.



Note: Vicinity Map taken from California State-AAA map.

PLATE
1

SITE VICINITY MAP
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

enviros[®]
95290

Drawn By: JLP

Date: 5-15-95

Approved By: *[Signature]*

Date: *12-12-95*

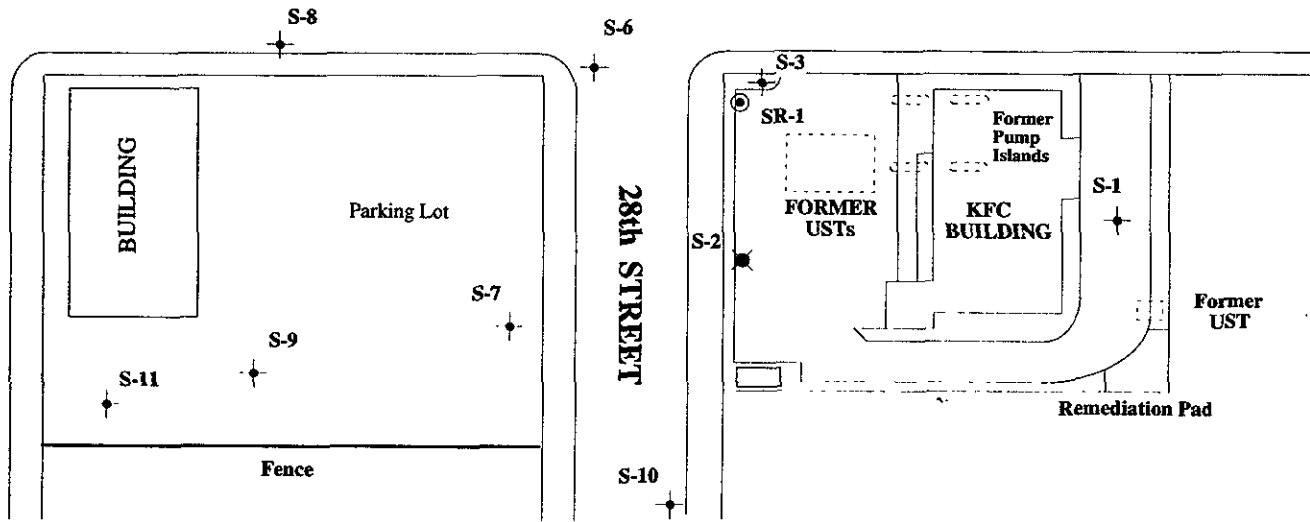
EXPLANATION

- † Groundwater Monitoring Well
- ⊙ Recovery Well
- ✱ Destroyed Monitoring Well

MERRIMAC STREET

28th STREET

TELEGRAPH AVENUE



Base map taken from Weiss Associates Site Map.

PLATE

2

SITE PLAN

Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

enviros®

95290

Drawn By: JLP

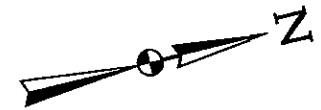
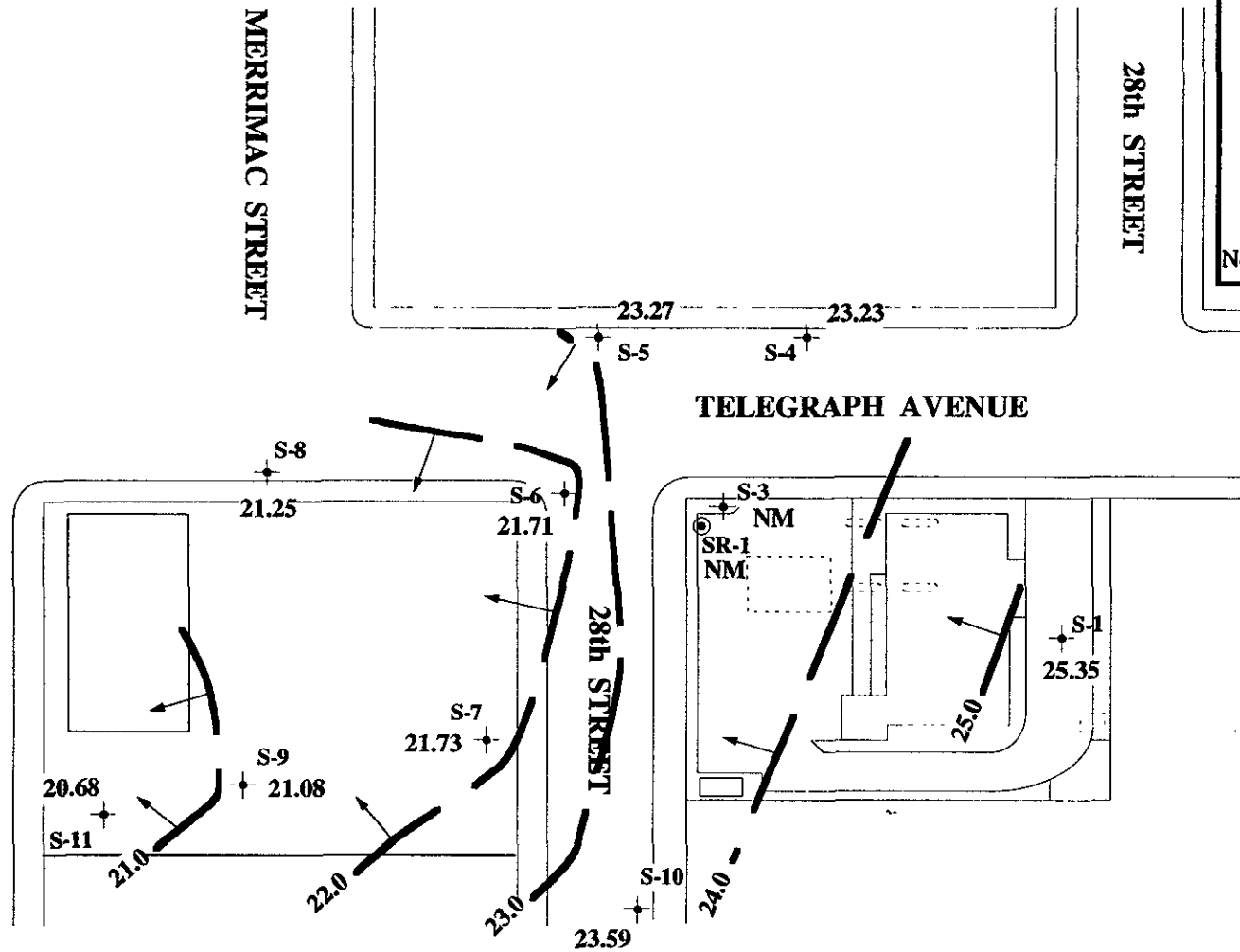
Date: 5-15-95

Approved By: *[Signature]*

Date: *12-12-95*

EXPLANATION

- † Groundwater Monitoring Well
- ⊙ Recovery Well
- Groundwater Elevation contour in Feet (referenced to Mean Sea Level).
- ↗ Arrows Indicate Approximate Groundwater Flow Direction.
- NM Not Measured
- Approximate Hydraulic Gradient = 0.02.
- Note: Water level data collected on 2-Nov-95



Base map taken from Weiss Associates Site Map.

PLATE
3

GROUNDWATER CONTOUR MAP
Former Shell Service Station
2800 Telegraph Avenue
Oakland, California

enviros®
95290

Drawn By: DML

Date: 12-1-95

Approved By: *[Signature]*

Date: 12-12-95

EXPLANATION

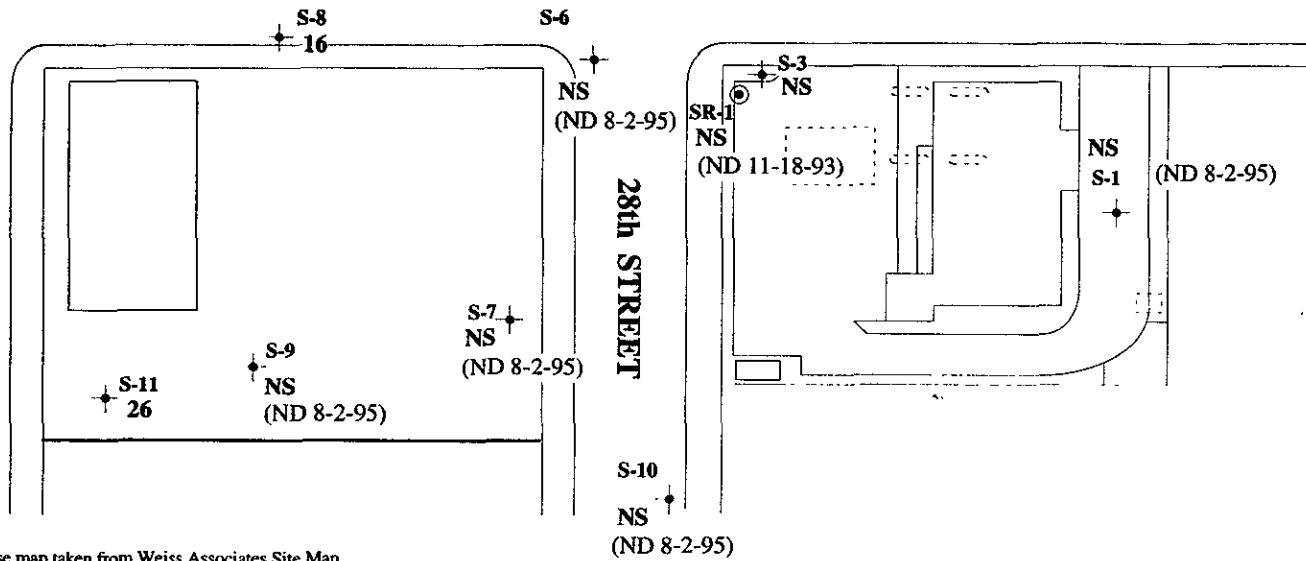
- † Groundwater Monitoring Well
- ⊙ Recovery Well
- 160 Benzene Concentration in Groundwater in Parts Per Billion
- ND Not Detected
- NS Not Sampled

(ND 8-2-95) Benzene concentration and date of last sampling.
 Note: Groundwater sampled 2-Nov-95

MERRIMAC STREET

28th STREET

TELEGRAPH AVENUE



Base map taken from Weiss Associates Site Map

PLATE

4

BENZENE CONCENTRATION MAP
 Former Shell Service Station
 2800 Telegraph Avenue
 Oakland, California

enviros®
 95290

Drawn By: DML

Date: 12-6-95

Approved By: _____

Date: 12-12-95

Appendix A

**Blaine
Quarterly Groundwater Sampling Report
Chain-Of-Custody Record
NET Certified Analytical Report**



BLAINE TECH SERVICES INC.

985 TIMOTHY DRIVE
SAN JOSE, CA 95133
(408) 995-5535
FAX (408) 293-8773

November 16, 1995

Shell Oil Company
P.O. Box 4023
Concord, CA 94524

RECEIVED
NOV 20 1995

Attn: Lynn Walker

Shell WIC #204-5508-2303
2800 Telegraph Avenue
Oakland, California

4th Quarter 1995

Quarterly Groundwater Monitoring Report 951102-K-1

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 995-5535 ext. 201.

Yours truly,



Francis Thie

attachments: Table of Well Gauging Data
Chain of Custody
Field Data Sheets
Certified Analytical Report

cc: Enviro, Inc.
P.O. Box 259
Sonoma, CA 95476-0259
Attn: Diane Lundquist

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	11/2/95	TOB	--	NONE	--	--	9.96	27.43
S-4	11/2/95	TOB	--	NONE	--	--	10.85	30.23
S-5	11/2/95	TOB	--	NONE	--	--	10.15	30.44
S-6	11/2/95	TOB	--	NONE	--	--	10.88	22.03
S-7	11/2/95	TOB	ODOR	NONE	--	--	11.60	30.56
S-8 *	11/2/95	TOB	ODOR	NONE	--	--	10.72	19.07
S-9	11/2/95	TOB	--	NONE	--	--	10.78	29.92
S-10	11/2/95	TOB	--	NONE	--	--	9.36	24.17
S-11	11/2/95	TOB	ODOR	NONE	--	--	10.10	19.03
SR-1	11/2/95	TOB	--	NONE	--	--	10.62	34.00

* Sample DUP was a duplicate sample taken from well S-8.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 951102-1C1

Date: 11/2/95

Page 1 of 1

Site Address: 2800 Telegraph Ave., Oakland

WIC#: 204-5508-2303

Shell Engineer: Lynn Walker
Phone No.: (510) 675-6169
Fax #: 675-6172

Consultant Name & Address:
Blaine Tech Services, Inc.
985 Timothy Drive San Jose, CA 95133

Consultant Contact: Jim Keller
Phone No.: (408) 995-5535
Fax #: 293-8773

Comments:

Sampled by: KCB

Printed Name: Keith C Brown

Analysis Required

TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N
					X				
					X				
					X				
					X				
					X				

LAB: Net

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
Quantity Monitoring <input checked="" type="checkbox"/>	8441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	8441	48 hours <input type="checkbox"/>
Soil Cleanup/Disposal <input type="checkbox"/>	8442	16 days <input checked="" type="checkbox"/> (Normal)
Water Cleanup/Disposal <input type="checkbox"/>	8443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	8442	
Water Rem. or Sys. O & M <input type="checkbox"/>	8443	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hr. TAT.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/COMMENTS	
S-8	11/2			W		3						X							
S-11						1						X							
DUP						1						X							
E13						1						X							
T13						2						X							

CUSTODY SEALED
Date: 11/3/95 Time: 13:20 Initials: RS
SEAL INTACT?
Yes No Initials: _____

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>Keith C Brown</u>	Date: <u>11-3-95</u>	Time: <u>10:40</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>T. Smart</u>	Date: <u>11/3/95</u>	Time: <u>10:40</u>
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Time: _____	Received (signature): _____	Printed Name: _____	Date: _____	Time: _____
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Time: _____	Received (signature): <u>[Signature]</u>	Printed Name: <u>Kim Sidener</u>	Date: <u>11-4-95</u>	Time: <u>0830</u>

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS



NATIONAL
ENVIRONMENTAL
TESTING, INC.

Santa Rosa Division
3636 North Laughlin Road
Suite 110
Santa Rosa, CA 95403-8226
Tel: (707) 526-7200
Fax: (707) 541-2333

Jim Keller
Blaine Tech Services
985 Timothy Dr.
San Jose, CA 95133

Date: 11/10/1995
NET Client Acct. No: 1821
NET Job No: 95.04297
Received: 11/04/1995

Client Reference Information

Shell 2800 Telegraph Ave., Oakland, CA./951102-K1

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:

A handwritten signature in cursive script that reads "Ginger Brunlee". The signature is written over a horizontal line.

Ginger Brunlee
Project Coordinator

Enclosure (s)



NET

LABORATORY REPORT
DATE: 11/07/1995
PROJECT: 11102-11

11102-11

REPORT DESCRIPTION

Date Taken: 11/07/1995
Time Taken:
NET Sample No: 254819

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TPH (Gas/STX Liquid)							11/07/1995	3331
METHOD 5030/M8015							11/07/1995	3331
DILUTION FACTOR*	10						11/07/1995	3331
Gas Gasoline	1,200		500	ug/L	5030		11/07/1995	3331
METHOD 8020 (GC Liquid)							11/07/1995	3331
Benzene	16		5	ug/L	8020		11/07/1995	3331
Toluene	13		5	ug/L	8020		11/07/1995	3331
Ethylbenzene	72		5	ug/L	8020		11/07/1995	3331
Xylenes (total)	130		5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS							11/07/1995	3331
Bromofluorobenzene (SURR)	112			* Rec.	5030		11/07/1995	3331

NET

NET (Net Environmental Testing) Corporation
10000 Wilshire Blvd., Suite 1000
Beverly Hills, CA 90210

NET-11/07/1995
LAB-11/07/1995
10000

10000 Wilshire Blvd., Suite 1000, Beverly Hills, CA 90210-K1

NET Sample No. 254820
Date Taken 11/02/1995
Time Taken

Component	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
Gas (Gas/STX Liquid)							11/07/1995	3331
METHOD 5030/M6015							11/07/1995	3331
DILUTION FACTOR	1						11/07/1995	3331
Gas Gasoline	200		50	ug/L	5030		11/07/1995	3331
METHOD 8020 (GC, Liquid)							11/07/1995	3331
Benzene	26		0.5	ug/L	8020		11/07/1995	3331
Toluene	10		0.5	ug/L	8020		11/07/1995	3331
Ethylbenzene	10		0.5	ug/L	8020		11/07/1995	3331
Xylenes (total)	30		0.5	ug/L	8020		11/07/1995	3331
MONOAROMATIC RESULTS							11/07/1995	3331
Monochlorobenzene (MCCB)	112			% Rec	5030		11/07/1995	3331

NET-11/07/1995
LAB-11/07/1995
10000

NET

STATE OF CALIFORNIA
DEPARTMENT OF PESTICIDE REGULATION
1001 K STREET, SACRAMENTO, CA 95833
(916) 227-2300

DATE: 11/07/1995
TIME: 11:16
LAB: 1

OFFICE OF THE ATTORNEY GENERAL, SACRAMENTO, CA 95833-11

ANALYSIS REPORT

DATE: 11/07/1995

TIME: 11:16

LAB: 1

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
TH (Hex/Benz, Liquid)							11/07/1995	3331
METHOD 8030/MS015							11/07/1995	3331
DILUTION FACTOR	10						11/07/1995	3331
Gas (Gasoline)	1.200		500	ug/L	5030		11/07/1995	3331
METHOD 8020 (GC, Liquid)							11/07/1995	3331
Benzene	15		5	ug/L	8020		11/07/1995	3331
Toluene	13		5	ug/L	8020		11/07/1995	3331
Ethylbenzene	70		5	ug/L	8020		11/07/1995	3331
Xylenes (Total)	120		5	ug/L	8020		11/07/1995	3331
BIOPHASE RESULTS							11/07/1995	3331
Biodegradation (BIO)	110			% Rec.	5030		11/07/1995	3331

NET

REPORT NO. 11/02/1995
DATE TAKEN 11/02/1995
SAMPLE NO. 254822

DEPT. OF ENVIRONMENTAL PROTECTION
DIVISION OF LABORATORY SERVICES

DATE TAKEN: 11/02/1995
TIME TAKEN:
SAMPLE NO.: 254822

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
Gasoline	ND		50	ug/L	5030		11/07/1995	3331
Benzene	ND		0.5	ug/L	8020		11/07/1995	3331
Toluene	ND		0.5	ug/L	8020		11/07/1995	3331
Ethylbenzene	ND		0.5	ug/L	8020		11/07/1995	3331
Xylenes (o-p)	ND		0.5	ug/L	8020		11/07/1995	3331
Propylbenzene	ND						11/07/1995	3331
o-Cresol	ND				5030		11/07/1995	3331

This report is permitted only in its entirety.

NET

3004 Army Avenue, Suite 101
 San Jose, CA 95128
 (408) 293-1100

DATE: 11/10/1995
 ANALYST: JLB
 TIME: 1:00

24, Ellis (00) Street, Oakland, CA 94612-24

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV		CCV		Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard Recovery	Standard Amount Found	Standard Amount Expected	Standard Amount				
TPH (Gas/BTEX, Liquid)								
Gas Gasoline	90.0	0.45	0.50	0.50	ug/L	11/07/1995	dat3	3331
Benzene	98.6	4.93	5.00	5.00	ug/L	11/07/1995	dat3	3331
Toluene	96.8	4.84	5.00	5.00	ug/L	11/07/1995	dat3	3331
Ethylbenzene	99.0	4.95	5.00	5.00	ug/L	11/07/1995	dat3	3331
Xylenes (Total)	100.7	15.1	15.0	15.0	ug/L	11/07/1995	dat3	3331
Bromofluorobenzene (SURR)	98.0	98	100	100	% Rec.	11/07/1995	dat3	3331



Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04297

Date: 11/10/1995
SLAP Cert: 1386
Page: 8

Ref: Shell 2800 Telegraph Ave., Oakland, CA./951102-K1

METHOD BLANK REPORT

Parameter	Method	Reporting	Units	Date	Analyst	Run
	Blank					
	Found	Limit			Initials	Number
TPH (Gas/BTEX, Liquid)						
as Gasoline	ND	0.05	mg/L	11/07/1995	dat3	3331
Benzene	ND	0.5	ug/L	11/07/1995	dat3	3331
Toluene	ND	0.5	ug/L	11/07/1995	dat3	3331
Ethylbenzene	ND	0.5	ug/L	11/07/1995	dat3	3331
Xylenes (Total)	ND	0.5	ug/L	11/07/1995	dat3	3331
Bromofluorobenzene (SURR)	98		% Rec.	11/07/1995	dat3	3331

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Blaine Tech Services
 Client Acct: 1821
 NET Job No: 95.04297

Date: 11/10/1995
 ELAP Cert: 1386
 Page: 9

Ref: Shell 2100 (11/10/1995) (11/10/1995)

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike		RPD	Spike Amount	Sample Conc.	Matrix Spike		Units	Date Analyzed	Run Batch	Sample Spiked
	% Rec.	Dup % Rec.				Conc.	Dup. Conc.				
TPH (Gas/BTXE, Liquid)											254810
as Gasoline	106.0	96.0	9.8	0.50	0.37	0.90	0.85	mg/L	11/07/1995	3331	254810
Benzene	115.4	77.9	38.7	7.19	36	44.3	41.6	ug/L	11/07/1995	3331	254810
Toluene	100.0	96.0	4.0	25.3	1.8	27.1	26.1	ug/L	11/07/1995	3331	254810

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

KEY TO ABBREVIATIONS and METHOD REFERENCES

- Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [(Value 1 - Value 2)] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.