

January 12, 1996

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

RE: Quarterly Monitoring Report - Fourth Quarter 1995
Former Shell Service Station
500 40th Avenue
Oakland, California
WIC #204-5508-4903

Dear Mr. Granberry:

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 Alameda County Health Care Services Agency and the Regional Water Quality Control Board, San Francisco Bay Region.

Quarterly Monitoring & Sampling Summary

Groundwater monitoring and sampling for the fourth quarter of 1995 are summarized below:

- Blaine Tech Services Inc. (Blaine Tech) of San Jose, measured groundwater levels and collected samples from Wells EW-1, MW-2 through MW-5, MW-8, OMW-10 and OMW-12 on November 2, 1995. The samples were transported to National Environmental Testing, Inc. (NET) of Santa Rosa, California for chemical analysis.
- Groundwater level measurement data were evaluated and used to prepare a groundwater contour map (Plate 3). Groundwater flow is primarily to the southwest, with a groundwater trough centered around EW-1. The hydraulic gradient was calculated to be 0.05.

Fourth Quarter Sampling

Wells EW-1, MW-2 through MW-5, MW-8, OMW-10, and OMW-12 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 trip blank, a rinsate blank, and a duplicate sample were prepared and analyzed for quality control purposes.

EW-1 / MW-8
11/2/95
11/12/95
11/12/95

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). A benzene concentration map is presented as Plate 4. The Blaine Tech Quarterly groundwater monitoring 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

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 Tech Services Inc. - Quarterly Groundwater Sampling Report
Chain-of-Custody Document
NET Chemical Analytical Report

cc: Mr. Brian Oliva, Alameda County Health Care Services, Environmental Protection
Division

TABLE 1
FIELD MONITORING DATA

SHELL SERVICE STATION
500 40TH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-4903

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	PRODUCT WATER THICKNESS (FT.)	WATER ELEV. (FT.)
EW-1	6-Aug-91	6.0	78.26	---		---
	30-Oct-91			12.72	65.54	
	18-Mar-92			11.71	66.55	
	20-May-92			12.84	65.42	
	19-Aug-92			13.04	65.22	
	18-Nov-92			12.90	65.36	
	11-Feb-93			11.28	66.98	
	19-May-93			12.52	65.74	
	18-Aug-93			12.48	65.78	
	17-Nov-93			12.63	65.63	
	18-Feb-94			11.38	66.88	
	26-May-94			12.02	66.24	
	29-Aug-94			12.76	65.50	
	11-Nov-94			11.08	67.18	
	3-Feb-95			10.88	67.38	
7-May-95	11.32	66.94				
2-Aug-95	11.76	66.50				
2-Nov-95	12.80	65.46				
MW-2	6-Aug-91	4.0	80.80	12.12		68.68
	30-Oct-91			11.70	69.10	
	18-Mar-92			11.10	69.70	
	20-May-92			12.12	68.68	
	19-Aug-92			12.18	68.62	
	18-Nov-92			12.03	68.77	
	11-Feb-93			11.15	69.65	
	19-May-93			11.80	69.00	
	18-Aug-93			a---	---	
	17-Nov-93			12.00	68.80	
	18-Feb-94			a---	---	
	26-May-94			11.61	69.19	
	29-Aug-94			11.96	68.84	
	11-Nov-94			10.74	70.06	
	3-Feb-95			11.58	69.22	
7-May-95	10.98	69.82				
2-Aug-95	11.90	68.90				
2-Nov-95	12.12	68.68				
MW-3	6-Aug-91	4.0	79.60	11.12		68.48
	30-Oct-91			10.93	68.67	
	18-Mar-92			10.54	69.06	

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SHELL SERVICE STATION
500 40TH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-4903

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	PRODUCT THICKNESS (FT.)	WATER ELEV. (FT.)
MW-3 (cont.)	20-May-92			10.79		68.81
	19-Aug-92			11.23		68.37
	18-Nov-92			11.20		68.40
	11-Feb-93			11.00		68.60
	19-May-93			11.16		68.44
	18-Aug-93			11.35		68.25
	17-Nov-93			11.10		68.50
	18-Feb-94			10.76		68.84
	26-May-94			11.85		67.75
	29-Aug-94			10.40		69.20
	11-Nov-94			10.04		69.56
	3-Feb-95			10.06		69.54
	7-May-95			10.11		69.49
	2-Aug-95			11.02		68.58
2-Nov-95			10.97		68.63	
MW-4	6-Aug-91	4.0	81.00	12.36		68.64
	30-Oct-91			12.02		68.98
	18-Mar-92			11.34		69.66
	20-May-92			12.35		68.65
	19-Aug-92			12.41		68.59
	18-Nov-92			12.28		68.72
	11-Feb-93			11.65		69.35
	19-May-93			11.92		69.08
	18-Aug-93			a---		---
	17-Nov-93			12.24		68.76
	18-Feb-94			11.69		69.31
	26-May-94			12.00		69.00
	29-Aug-94			12.30		68.70
	11-Nov-94			11.30		69.70
	3-Feb-95			10.99		70.01
7-May-95			11.69		69.31	
2-Aug-95			11.72		69.28	
2-Nov-95			12.23		68.77	
MW-5	6-Aug-91	4.0	81.50	13.02		68.48
	30-Oct-91			12.73		68.77
	18-Mar-92			12.52		68.98
	20-May-92			13.05		68.45
	19-Aug-92			13.04		68.46
	18-Nov-92			12.91		68.59

TABLE 1

FIELD MONITORING DATA

**SHELL SERVICE STATION
500 40TH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-4903**

WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	PRODUCT THICKNESS (FT.)	WATER ELEV. (FT.)
MW-5 (cont.)	11-Feb-93			12.44		69.06
	19-May-93			12.84		68.66
	18-Aug-93			12.88		68.62
	17-Nov-93			12.89		68.61
	18-Feb-94			12.30		69.20
	26-May-94			12.73		68.77
	29-Aug-94			12.88		68.62
	11-Nov-94			12.20		69.30
	3-Feb-95			11.78		69.72
	7-May-95			12.47		69.03
	2-Aug-95			12.83		68.67
2-Nov-95			13.02		68.48	
OMW-6	6-Aug-91	4.0	77.90	10.71		67.19
	30-Oct-91			10.50		67.40
	18-Mar-92			9.24		68.66
	20-May-92			10.13		67.77
	19-Aug-92			10.16		67.74
	18-Nov-92			9.94		67.96
	11-Feb-93			9.20		68.70
	19-May-93			10.64		67.86
	18-Aug-93			10.04		67.86
	17-Nov-93			10.12		67.78
	18-Feb-94			9.65		68.25
	26-May-94			---		---
	29-Aug-94			---		---
	11-Nov-94			---		---
3-Feb-95			8.96		68.94	
7-May-95			8.64		69.26	
2-Aug-95			12.09		65.81	
MW-8	6-Aug-91	4.0	79.91	13.08		66.83
	30-Oct-91			12.87		67.04
	18-Mar-92			11.54		68.37
	20-May-92			12.32		67.59
	19-Aug-92			12.58		67.33
	18-Nov-92			12.47		67.44
	11-Feb-93			11.02		68.89
	19-May-93			11.78		68.13
	18-Aug-93			12.22		67.69
17-Nov-93			12.25		67.66	

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WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	PRODUCT THICKNESS (FT.)	WATER ELEV. (FT.)
MW-8 (cont.)	18-Feb-94			10.56		69.35
	26-May-94			11.30		68.61
	29-Aug-94			11.90		68.01
	11-Nov-94			10.12		69.79
	3-Feb-95			11.64		68.27
	7-May-95			10.77		69.14
	2-Aug-95			10.92		68.99
	2-Nov-95			11.93		67.98
OMW-9	6-Aug-91		77.71	10.38		67.33
	30-Oct-91			---		---
	18-Mar-92			8.76		68.95
	20-May-92			a---		---
	19-Aug-92			9.98		67.73
	18-Nov-92			9.81		67.90
	11-Feb-93			a---		---
	19-May-93			---		---
	18-Aug-93			9.75		67.96
	17-Nov-93			9.92		67.79
	02/18/94a			---		---
	26-May-94			---		---
	29-Aug-94			---		---
	11-Nov-94			---		---
	3-Feb-95			---		---
7-May-95			a---		---	
2-Aug-95			a---		---	
OMW-10	6-Aug-91	4.0	77.91	10.00		67.91
	31-Oct-91			10.10		67.81
	18-Mar-92			9.55		68.36
	20-May-92			10.41		67.50
	19-Aug-92			10.46		67.45
	18-Nov-92			10.31		67.60
	11-Feb-93			9.68		68.23
	19-May-93			10.19		67.72
	18-Aug-93			10.29		67.62
	17-Nov-93			10.32		67.59
	18-Feb-94			9.60		68.31
	26-May-94			10.14		67.77
	9-Aug-94			10.38		67.53
11-Nov-94			9.34		68.57	

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WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	PRODUCT THICKNESS (FT.)	WATER ELEV. (FT.)
OMW-10 (cont.)	3-Feb-95			10.17		67.74
	7-May-95			9.63		68.28
	2-Aug-95			10.07		67.84
	2-Nov-95			9.74		68.17
OMW-11	22-Nov-91	4.0	75.76	11.90		63.86
	15-Feb-92			a--		--
	18-Mar-92			a--		--
	20-May-92			a--		--
	19-Aug-92			12.06		63.70
	18-Nov-92			12.01		63.75
	11-Feb-93			a--		--
	19-May-93			11.90		63.86
	18-Aug-93			11.90		63.86
	17-Nov-93			11.94		63.82
	18-Feb-94			a--		--
	26-May-94			--		--
	29-Aug-94			11.98		63.78
	11-Nov-94			10.88		64.88
	3-Feb-95			10.62		65.14
7-May-95			11.49		64.27	
2-Aug-95			a--		--	
OMW-12	2-Dec-91	4.0	75.65	10.31		65.34
	18-Mar-92			8.93		66.72
	20-May-92			10.26		65.39
	19-Aug-92			10.53		65.12
	18-Nov-92			10.45		65.20
	11-Feb-93			8.90		66.75
	19-May-93			10.60		65.05
	18-Aug-93			10.28		65.37
	17-Nov-93			10.24		65.41
	18-Feb-94			8.97		66.68
	26-May-94			9.62		66.03
	29-Aug-94			10.20		65.45
	11-Nov-94			8.54		67.11
	3-Feb-95			8.28		67.37
	7-May-95			9.17		66.48
2-Aug-95			10.06		65.59	
2-Nov-95			10.09		65.56	
OMW-13	22-Nov-91		76.36	11.96		64.40

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WELL NO.	MONT. DATE	CASING DIA. (IN.)	WELL ELEV. (FT.)	DEPTH TO WATER (FT.)	PRODUCT THICKNESS (FT.)	WATER ELEV. (FT.)
OMW-13 (cont.)	18-Mar-92			10.84		65.52
	20-May-92			a---		---
	19-Aug-92			12.12		64.24
	18-Nov-92			12.00		64.42
	11-Feb-93			a---		---
	19-May-93			12.26		64.10
	18-Aug-93			11.75		64.61
	17-Nov-93			11.78		64.58
	18-Feb-94			a---		---
	26-May-94			---		---
	29-Aug-94			---		---
	11-Nov-94			10.28		66.08
	3-Feb-95			10.01		66.35
	7-May-95			a---		---
	2-Aug-95			11.80		64.56

Notes:

a = Not measured. Well inaccessible

Elevations referenced to Mean Sea Level

Depth to water measured from top of casing

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
500 40TH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-4903

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	TPH-D (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
EW-1 (2nd & 4th)	6-Aug-91	--	180	<50	5.4	<0.5	0.9	0.7
	30-Oct-91	12.72	70	<50	2.6	<0.5	<0.5	<0.5
	15-Feb-92	11.28	<50	--	2.1	<0.5	<0.5	<0.5
	22-May-92	12.52	99	--	4.1	<0.5	<0.5	<0.5
	19-Aug-92	12.48	140	--	6.6	<0.5	<0.5	<0.5
	18-Nov-92	12.90	56	--	<0.5	<0.5	<0.5	<0.5
	11-Feb-93	11.28	63	--	<0.5	<0.5	<0.5	0.9
	11-Feb-93dup		63	--	<0.5	<0.5	<0.5	0.8
	19-May-93	12.52	60b	--	<0.5	<0.5	<0.5	<0.5
	17-Nov-93	12.63	170	--	17	<0.5	<0.5	<0.5
	17-Nov-93dup		190	--	17	<0.5	<0.5	<0.5
	26-May-94	12.02	<50	--	3.5	<0.5	<0.5	0.51
	11-Nov-94	11.08	200	--	13	0.88	<0.5	<0.5
	7-May-95	11.32	90	--	8.6	<0.5	<0.5	<0.5
	2-Nov-95	12.80	240	--	12	1.5	0.6	1.9
MW-2 (2nd & 4th)	7-Aug-91	12.12	1,200	230	59	1.1	38	56
	30-Oct-91	11.70	520	300	56	<0.5	56	100
	15-Feb-92		2,300	2,200a	87	<2.5	88	150
	21-May-92	12.12	700	--	24	1	34	48
	19-Aug-92	12.18	740	--	21	<2.5	24	26
	19-Aug-92dup		840	--	31	<2.5	36	43
	18-Nov-92	12.03	920	--	19	<2.5	30	51
	18-Nov-92dup		870	--	25	<2.5	34	52
	11-Feb-93	11.15	1,000	--	25	6	43	73
	19-May-93	11.80	570	--	19	<0.5	37	42
	17-Nov-93	12.00	250	--	10	<1.0	26	20
	26-May-94	11.61	620	--	17	1.4	25	31
	26-May-94dup		600	--	16	1.2	24	29
	11-Nov-94	10.74	1,100	--	28	3.1	39	65
	7-May-95	10.98	700	--	15	<0.5	35	39
2-Nov-95	12.12	140	--	2.3	<0.5	4.4	3.7	
MW-3 (2nd & 4th)	7-Aug-91	11.12	1,900	470	220	57	57	260
	30-Oct-91	10.93	1,900	480	160	28	63	180
	15-Feb-92		2,300	780a	170	31	59	180
	21-May-92	10.79	1,500	--	160	20	44	140
	19-Aug-92	11.23	4,500	--	210	64	89	310
	18-Nov-92	11.20	2,400	--	81	14	39	140
	11-Feb-93	11.00	3,000	--	200	47	90	260
	19-May-93	11.16	2,100	--	240	44	100	330
	17-Nov-93	11.35	1,000	--	110	13	60	150
	26-May-94	11.10	1,100	--	200	17	29	58
	11-Nov-94	10.04	870	--	130	10	38	87
	11-Nov-94dup		1,000	--	120	10	42	92

TABLE 2
HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
500 40TH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-4903

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	TPH-D (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)	
MW-3 (cont.)	7-May-95	10.11	1,300	--	180	7.5	54	110	
	2-Nov-95	10.97	370	--	36	1.8	16	21	
MW-4 (2nd & 4th)	7-Aug-91	12.36	<50	<50	<0.5	<0.5	<0.5	<0.5	
	30-Oct-91	12.02	50	<50	<0.5	<0.5	<0.5	<0.5	
	15-Feb-92		90	--	0.9	<0.5	<0.5	<0.5	
	21-May-92	12.35	<50	--	<0.5	<0.5	<0.5	<0.5	
	19-Aug-92	12.41	82b	--	<0.5	<0.5	<0.5	<0.5	
	18-Nov-92	12.28	85b	--	<0.5	<0.5	<0.5	<0.5	
	11-Feb-93	11.65	62b	--	<0.5	<0.5	<0.5	<0.5	
	19-May-93	11.92	<50	--	<0.5	<0.5	<0.5	<0.5	
	17-Nov-93	12.24	<50	--	<0.5	<0.5	<0.5	<0.5	
	26-May-94	12.00	<50	--	<0.5	<0.5	<0.5	<0.5	
	11-Nov-94	11.30	<50	--	<0.5	<0.5	<0.5	<0.5	
	7-May-95	11.69	<50	--	<0.5	<0.5	<0.5	<0.5	
	2-Nov-95	12.23	<50	--	<0.5	<0.5	<0.5	<0.5	
MW-5 (2nd & 4th)	7-Aug-91	13.02	<50	<50	<0.5	<0.5	<0.5	<0.5	
	30-Oct-91	12.73	<50	<50	<0.5	<0.5	<0.5	<0.5	
	15-Feb-92		<50	--	<0.5	<0.5	<0.5	<0.5	
	20-May-92	13.05	<50	--	<0.5	<0.5	<0.5	<0.5	
	19-Aug-92	13.04	55b	--	<0.5	<0.5	<0.5	<0.5	
	18-Nov-92	12.91	<50	--	<0.5	<0.5	<0.5	<0.5	
	11-Feb-93	12.44	59b	--	<0.5	<0.5	<0.5	<0.5	
	19-May-93	12.84	<50	--	<0.5	<0.5	<0.5	<0.5	
	19-May-93dup		<50	--	<0.5	<0.5	<0.5	<0.5	
	17-Nov-93	12.89	<50	--	<0.5	<0.5	<0.5	<0.5	
	26-May-94	12.73	<50	--	1.8	2.4	1.3	4.9	
	11-Nov-94	12.20	<50	--	<0.5	<0.5	<0.5	<0.5	
	7-May-95	12.47	<50	--	<0.5	<0.5	<0.5	<0.5	
2-Nov-95	13.02	<50	--	<0.5	<0.5	<0.5	<0.5		
OMW-6 (2nd & 4th)	6-Aug-91	10.71	26,000	3,600	910	420	560	1,900	
	30-Oct-91	10.50	20,000	4,600	710	240	410	1,700	
	15-Feb-92		35,000	27,000	690	420	650	3,000	
	21-May-92	10.13	15,000	--	460	110	300	1,600	
	19-Aug-92	10.16	24,000	--	600	300	460	2,000	
	18-Nov-92	9.94	29,000	--	480	250	450	2,300	
	11-Feb-93	9.20	24,000	--	1,300	250	630	2,400	
	19-May-93	10.64	18,000	--	750	180	520	2,500	
	17-Nov-93	10.12	14,000	--	260	64	430	1,900	
	26-May-94	--	c--	--	--	--	--	--	
	11-Nov-94	--	c--	--	--	--	--	--	
	7-May-95dup			14000	--	480	61	230	370
	7-May-95	8.64	11000	--	460	82	280	540	

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
500 40TH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-4903

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	TPH-D (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
MW-8 (2nd & 4th)	6-Aug-91	13.08	90	<50	<0.5	<0.5	<0.5	<0.5
	30-Oct-91	12.87	<50	<50	<0.5	<0.5	<0.5	<0.5
	15-Feb-92		<50	---	<0.5	<0.5	<0.5	<0.5
	20-May-92	12.32	<50	---	<0.5	<0.5	<0.5	<0.5
	19-Aug-92	12.58	60	---	<0.5	<0.5	<0.5	<0.5
	18-Nov-92	12.47	<50	---	<0.5	<0.5	<0.5	<0.5
	11-Feb-93	11.02	76b	---	<0.5	<0.5	<0.5	<0.5
	18-May-93	11.78	<50	---	<0.5	<0.5	<0.5	<0.5
	17-Nov-93	12.25	<50	---	<0.5	<0.5	<0.5	<0.5
	26-May-94	11.30	<50	---	<0.5	<0.5	<0.5	<0.5
	11-Nov-94	10.12	<50	---	<0.5	<0.5	<0.5	<0.5
	7-May-95	10.77	<50	---	<0.5	<0.5	<0.5	<0.5
2-Nov-95	11.93	<50	---	<0.5	<0.5	<0.5	<0.5	
OMW-9 (2nd & 4th)	6-Aug-91	10.38	3,900	190	58	8.8	80	220
	30-Oct-91c	---	---	---	---	---	---	---
	18-Mar-92	8.76	1,800d	210	84	11	49	60
	20-May-92c	a---	---	---	---	---	---	---
	19-Aug-92	9.98	4,600	22a	63	<25	48	70
	18-Nov-93	9.81	1,800	130a	30	9.2	46	61
	11-Feb-93c	a---	---	---	---	---	---	---
	19-May-93c	---	---	---	---	---	---	---
	17-Nov-93	9.92	5,900	2,400e	86	14	150	46
	26-May-94c	---	---	---	---	---	---	---
	11-Nov-94c	---	---	---	---	---	---	---
7-May-95c	a---	---	---	---	---	---	---	
OMW-10 (2nd & 4th)	7-Aug-91	10.00	460	<50	73	1	18	8.4
	31-Oct-91	10.10	630	150	100	<0.5	33	26
	15-Feb-92		810	570a	85	2.5	44	38
	21-May-92	10.41	280	---	47	0.7	4	3.1
	19-Aug-92	10.46	330	---	35	<1	6	4.1
	18-Nov-93	10.31	300	---	30	0.8	7.1	6.3
	11-Feb-93	9.68	510b	---	49	3.8	18	18
	19-May-93	10.19	<50	---	96	<0.5	3.4	1.5
	17-Nov-93	10.32	400	---	24	<1.0	2.8	1.9
	26-May-94	10.14	330	---	32	13	7.5	26
	11-Nov-94	9.34	110	---	7.8	<0.5	2.3	1.5
	7-May-95	9.63	1600	---	110	3.1	17	12
	2-Nov-95	9.74	1,200	---	47	0.8	1.4	2.4
2-Nov-95 (Dup)			1,300	---	50	0.8	1.5	2.5
OMW-11 (Quarterly)	22-Nov-91	11.90	450	240	1.1	<0.5	<0.5	<0.5
	15-Feb-92c	a---	---	---	---	---	---	---
	18-Mar-92c	a---	---	---	---	---	---	---
	20-May-92c	a---	---	---	---	---	---	---

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
500 40TH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-4903

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	TPH-D (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
OMW-11 (Quarterly)	19-Aug-92	12.06	270b	<50	<0.5	<0.5	<0.5	<0.5
	18-Nov-92	12.01	400b	100	<0.5	<0.5	<0.5	<0.5
	11-Feb-93c	a---	---	---	---	---	---	---
	20-May-93	11.90	200b	<0.5	<0.5	<0.5	<0.5	<0.5
	18-Aug-93	11.90	180b	<50	<0.5	<0.5	<0.5	<0.5
	17-Nov-93	11.94	150b	<50e	<0.5	3.6	<0.5	<0.5
	18-Feb-94c	a---	---	---	---	---	---	---
	26-May-94c	---	---	---	---	---	---	---
	11-Nov-94	10.88	160	---	<0.5	<0.5	<0.5	<0.5
	5-Mar-95	---	220	100	0.7	<0.5	<0.5	<0.5
	7-May-95	11.49	160	<50	<0.5	<0.5	<0.5	<0.5
OMW-12 (Quarterly)	2-Dec-91	10.31	<1,000	<50	<0.5	<0.5	<0.5	<0.5
	18-Mar-92	8.93	<50	<50	<0.5	<0.5	<0.5	<0.5
	20-May-92	10.26	180b	---	<0.5	<0.5	<0.5	<0.5
	19-Aug-92	10.53	230b	---	<0.5	<0.5	<0.5	<0.5
	18-Nov-92	10.45	220b	---	<0.5	<0.5	<0.5	<0.5
	11-Feb-93	8.90	240	---	<0.5	<0.5	<0.5	<0.5
	19-May-93	10.60	110b	---	<0.5	<0.5	<0.5	<0.5
	18-Aug-93	10.28	140b	---	<0.5	<0.5	<0.5	<0.5
	17-Nov-93	10.24	120b	---	<0.5	<0.5	<0.5	<0.5
	18-Feb-94	8.97	180b	---	1.7	2.1	0.9	4.8
	26-May-94	9.62	150	---	<0.5	<0.5	<0.5	<0.5
	29-Aug-94	10.20	110	---	<0.5	<0.5	<0.5	<0.5
	11-Nov-94	8.54	90	---	<0.5	<0.5	<0.5	<0.5
	3-Feb-95dup	---	100	---	0.6	<0.5	0.7	1.1
	3-Feb-95	8.28	80	---	<0.5	<0.5	<0.5	<0.5
	7-May-95	9.17	110	---	<0.5	<0.5	<0.5	<0.5
2-Aug-95dup	---	120	---	<0.5	<0.5	<0.5	<0.5	
2-Aug-95	10.06	90	---	<0.5	<0.5	<0.5	<0.5	
2-Nov-95	10.09	130	---	<0.5	<0.5	<0.5	<0.5	
OMW-13 (2nd & 4th)	22-Nov-91	11.96	900	1,000	37	9.5	74	130
	18-Mar-92	10.84	900d	590a	24	28	320	320
	20-May-92c	a---	---	---	---	---	---	---
	19-Aug-92	12.12	7,000	470a	180	36	150	150
	18-Nov-92c	12.00	---	---	---	---	---	---
	11-Feb-93c	a---	---	---	---	---	---	---
	20-May-93	12.26	9,200	---	320	83	490	950
	17-Nov-93	11.78	38,000	3,800	210	<130	1,000	2,500
	26-May-94c	---	---	---	---	---	---	---
	11-Nov-94c	10.28	---	---	---	---	---	---
	5-Mar-95	---	9100	3900	200	9.7	200	130
	7-May-95c	a---	---	---	---	---	---	---
2-Aug-95	11.80	8,000	2,900	180	6.6	190	55	

TABLE 2

HISTORICAL GROUNDWATER QUALITY DATABASE

SHELL SERVICE STATION
500 40TH AVENUE
OAKLAND, CALIFORNIA
WIC 204-5508-4903

SAMPLE POINT	SAMPLE DATE	DEPTH TO WATER (FT.)	TPH-G (PPB)	TPH-D (PPB)	BENZENE (PPB)	TOLUENE (PPB)	ETHYLBENZENE (PPB)	XYLENES (PPB)
--------------	-------------	----------------------	-------------	-------------	---------------	---------------	--------------------	---------------

Abbreviations:

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

TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015

PPB = Parts per billion

<x = Not detected at detection limit of x

--- = Not analyzed

Notes:

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

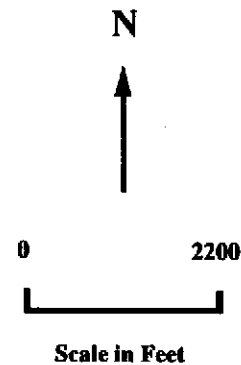
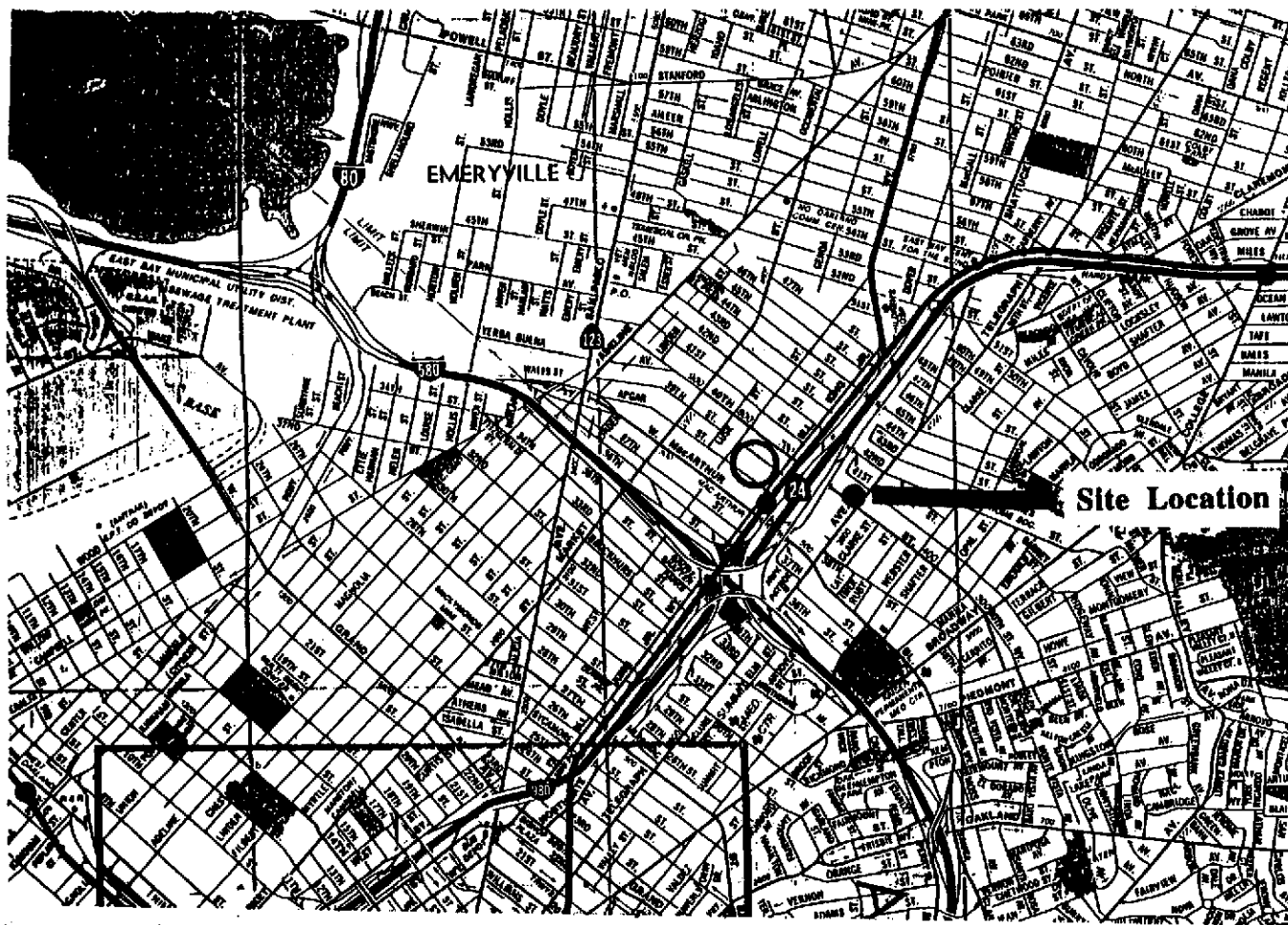
a = Concentration reported as diesel is primary due to the presence of a lighter petroleum product. possible gasoline or kerosene.

b = Concentration reported as gasoline is primarily due to the presence of discrete hydrocarbon peaks not indicative of gasoline.

c = Well was inaccessible.

d = Compounds detected and calculated as gasoline do not match the standard gasoline chromatographic pattern.

e = The concentrations reported as diesel are primarily due to the presence of a lighter petroleum product of hydrocarbon range C6-C12, possibly gasoline.



Note: Vicinity Map taken from California State AAA map.

PLATE

1

SITE VICINITY MAP
 Former Shell Service Station
 500 40th Avenue
 Oakland, California

enviros.[®]
 95289

Drawn By: JLP

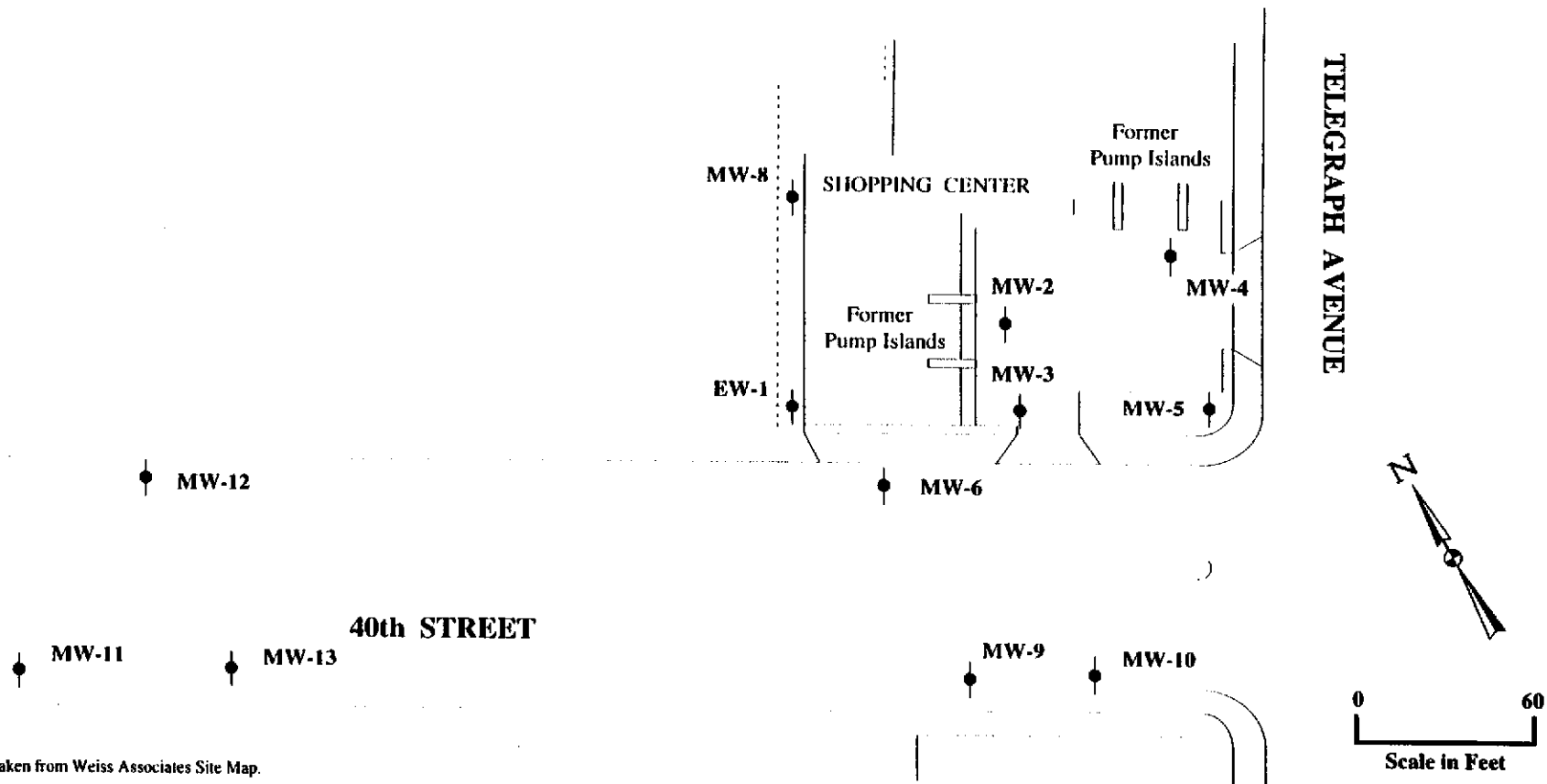
Date: 5-15-95

Approved By: *[Signature]*

Date: *1-12-96*

EXPLANATION

● Groundwater Monitoring Well



Base map taken from Weiss Associates Site Map.

PLATE

2

SITE PLAN

Former Shell Service Station
500 40th Avenue
Oakland, California

enviros®
95289

Drawn By: JLP

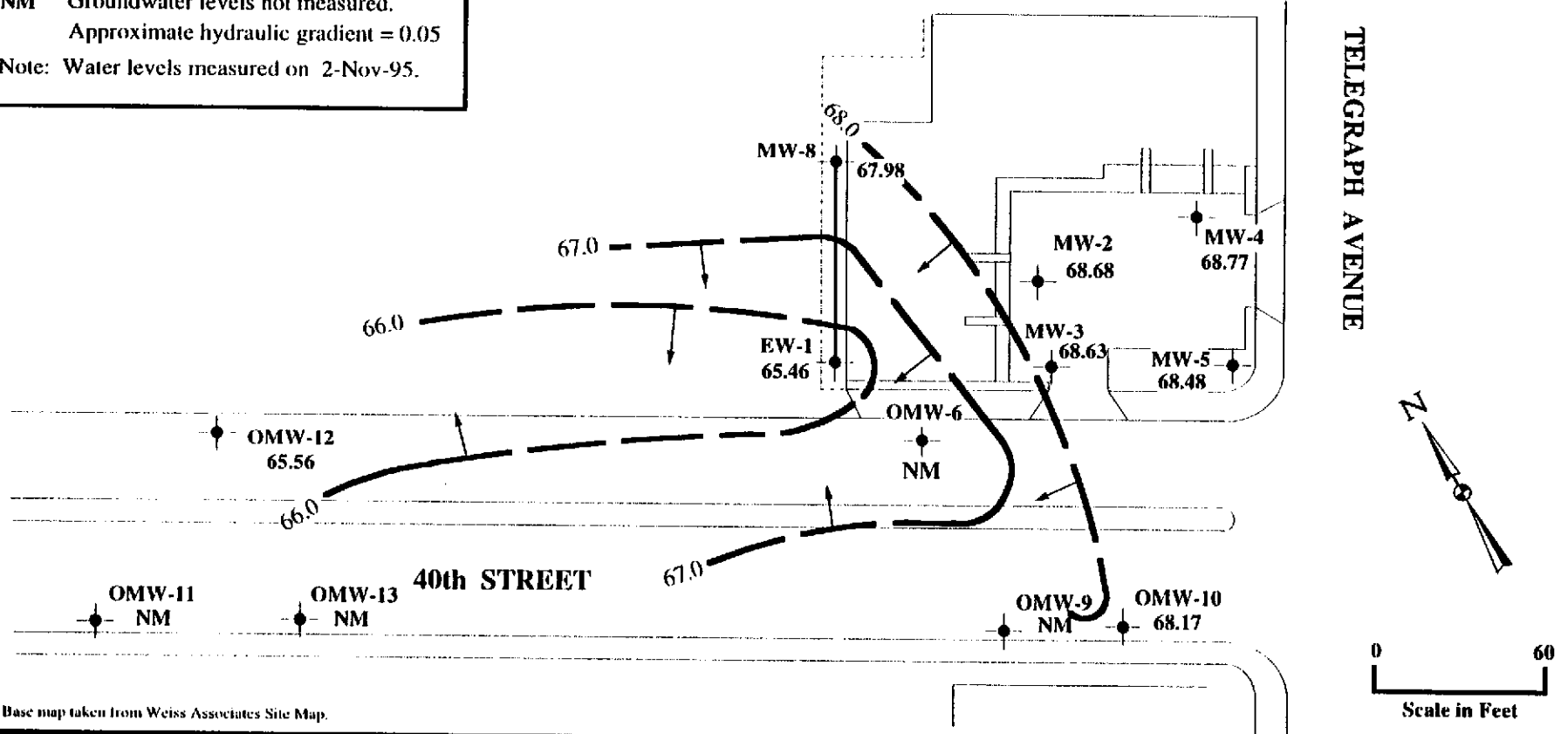
Date: 6-24-95

Approved By: *[Signature]*

Date: 1-12-96

EXPLANATION

- ◆ Groundwater Monitoring Well
- 67.89 Groundwater elevation contour referenced to mean sea level.
- Groundwater elevation contour in feet.
Arrows indicate approximate groundwater flow direction
- NM Groundwater levels not measured.
Approximate hydraulic gradient = 0.05
- Note: Water levels measured on 2-Nov-95.



Base map taken from Weiss Associates Site Map.

PLATE
3

GROUNDWATER CONTOUR MAP
Former Shell Service Station
500 40th Avenue
Oakland, California

enviros®
95289

Drawn By: JDG

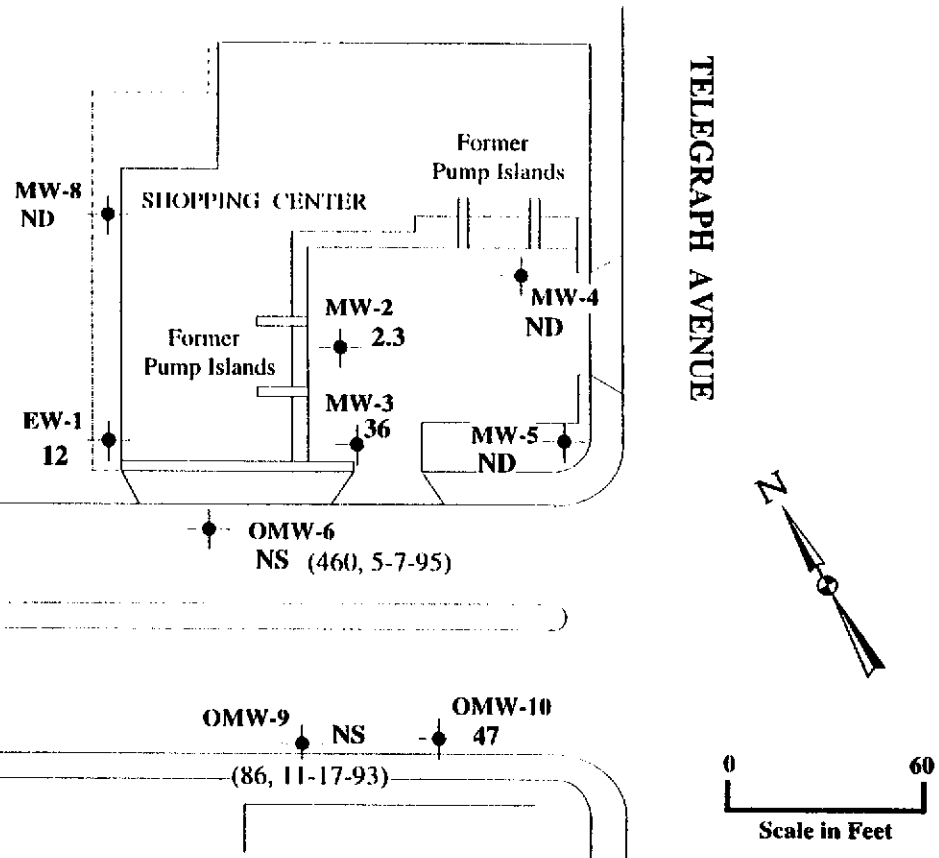
Date: 1-3-96

Approved By:

Date: 1-12-96

EXPLANATION

- Groundwater Monitoring Well
 - 47 Concentration of benzene in groundwater in parts per billion.
 - ND None Detected
 - NS Not Sampled (Benzene concentration and date last sampled)
- Note: Samples collected on November 2, 1995.



Base map taken from Weiss Associates Site Map.

PLATE

4

BENZENE CONCENTRATION MAP

Former Shell Service Station
500 40th Avenue
Oakland, California

enviros®
95289

Drawn By: GLV

Date: 11-2-95

Approved By: *AK*

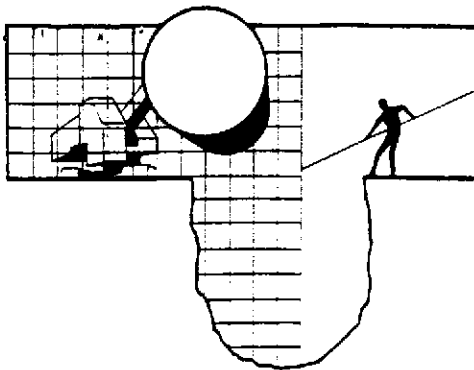
Date: 1-12-96

Appendix A

**BLAINE TECH SERVICES INC.
Quarterly Groundwater Sampling Report**

Chain-of-Custody Record

**National Environmental Testing, Inc.
Certified Chemical Analytical Report**



BLAINE TECH SERVICES INC.

985 TIMOTHY DR
SAN JOSE, CA 951
(408) 995-5535
FAX (408) 293-87

November 21, 1995

RECEIVED
NOV 22 1995

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

Attn: Lynn Walker

Shell WIC #204-5508-4903
500 40th/Telegraph
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)
EW-1	11/2/95	TOC	--	NONE	--	--	12.80	38.22
MW-2	11/2/95	TOC	--	NONE	--	--	12.12	19.41
MW-3	11/2/95	TOC	ODOR	NONE	--	--	10.97	18.51
MW-4	11/2/95	TOC	ODOR	NONE	--	--	12.23	14.80
MW-5	11/2/95	TOC	--	NONE	--	--	13.02	20.05
OMW-6	11/2/95	INACCESSIBLE						
MW-8	11/2/95	TOC	--	NONE	--	--	11.93	38.64
OMW-9	11/2/95	INACCESSIBLE						
OMW-10 *	11/2/95	TOC	--	NONE	--	--	9.74	15.82
OMW-11	11/2/95	INACCESSIBLE						
OMW-12	11/2/95	TOC	--	NONE	--	--	10.09	19.40
OMW-13	11/2/95	INACCESSIBLE						

* Sample DUP was a duplicate sample taken from well OMW-10.



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 951102-141

Date: 11/10/95
Page 1 of 2

Site Address: 500 40th Street, Oakland

WIC#: 204-5508-4903

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: KEB

Printed Name: Keith 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

LAB: Net

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
Quarterly Monitoring <input checked="" type="checkbox"/>	6441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>
Soil Classfy/Diposal <input type="checkbox"/>	6443	16 days <input checked="" type="checkbox"/> (Normal)
Water Classfy/Diposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6462	
Water Rem. or Sys. O & M <input type="checkbox"/>	6463	
Other <input type="checkbox"/>		

NOTE: Hally Lab as soon as possible of 24/48 hr. 1AL.

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.
EW1	11/2			W		3
NW2						
NW3						
NW4						
NW5						
NW8						
NW10						
NW12						

CUSTODY SEALED
Date: 11/10/95 Time: 1:30 Initials: RS
SEAL INTACT?
Yes No Initials: _____

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>Keith Brown</u>	Date: <u>11-3-95</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>11/10/95</u>
Relinquished By (signature):	Printed Name:	Time: <u>10:40</u>	Received (signature):	Printed Name:	Time: <u>10:40</u>
Relinquished By (signature):	Printed Name:	Date:	Received (signature): <u>[Signature]</u>	Printed Name: <u>K. Sidener</u>	Date: <u>11-4-95</u>
		Time:			Time: <u>08:00</u>

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



SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 951102-1K2

Date: 11/2/95

Page 2 of 2

Site Address: 500 40th Street, Oakland

WIC#: 204-5508-4903

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 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				

LAB: WIC

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
Quality Monitoring <input checked="" type="checkbox"/>	6441	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	6441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	6442	16 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	6443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	6462	
Water Rem. or Sys. O & M <input type="checkbox"/>	6463	
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 conls.	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
DUP	11/2			W		3		
EB	1			↓		3		
TB	1			↓		2		

CUSTODY SEALED
Date: 10/3/95 Time: 1:30 Initials: PS
SEAL INTACT?
Yes No Initials: _____

Relinquished By (signature): <u>[Signature]</u>	Printed Name: <u>Keith Brown</u>	Date: <u>11-3-95</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>P. Smart</u>	Date: <u>11/3/95</u>
Relinquished By (signature):	Printed Name:	Date:	Received (signature):	Printed Name:	Date:
Relinquished By (signature):	Printed Name:	Date:	Received (signature): <u>[Signature]</u>	Printed Name: <u>Karin Sidener</u>	Date: <u>11-4-95</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: 11/09/1995
NET Client Acct. No: 1821
NET Job No: 95.04296
Received: 11/04/1995

Client Reference Information

Shell 500 40th St., 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:



Ginger Brinlee
Project Coordinator

Enclosure (s)





Client Name: Blaine Tech Services
Client Acct: 1821
NET Job No: 95.04296

Date: 11/09/1995
ELAP Cert: 1386
Page: 2

Ref: Shell 500 40th St., Oakland, CA./951102-K1

SAMPLE DESCRIPTION: EW1
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254808

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	240		50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)	--						11/07/1995	3331
Benzene	12		0.5	ug/L	8020		11/07/1995	3331
Toluene	1.5		0.5	ug/L	8020		11/07/1995	3331
Ethylbenzene	0.6		0.5	ug/L	8020		11/07/1995	3331
Xylenes (Total)	1.9		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS	--						11/07/1995	3331
Bromofluorobenzene (SURR)	104			µ Rec.	8020		11/07/1995	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: 95.04296

Date: 11/09/1995
ELAP Cert: 1386
Page: 3

Ref: Shell 500 40th St., Oakland, CA./951102-K1

SAMPLE DESCRIPTION: MW2

Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254809

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	140		50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)								
Benzene	2.3		0.5	ug/L	8020		11/07/1995	3331
Toluene	ND		0.5	ug/L	8020		11/07/1995	3331
Ethylbenzene	4.4		0.5	ug/L	8020		11/07/1995	3331
Xylenes (Total)	3.7		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	103			% Rec.	8020		11/07/1995	3331

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



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SAMPLE DESCRIPTION: MW3
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254810

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)									
DILUTION FACTOR*	1						11/07/1995		3331
Purgeable TPH	370		50		ug/L	5030/M8015	11/07/1995		3331
Carbon Range: C6 to C12	--						11/07/1995		3331
METHOD 8020 (GC, Liquid)									
Benzene	36		0.5		ug/L	8020	11/07/1995		3331
Toluene	1.8		0.5		ug/L	8020	11/07/1995		3331
Ethylbenzene	16		0.5		ug/L	8020	11/07/1995		3331
Xylenes (Total)	21		0.5		ug/L	8020	11/07/1995		3331
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	105				% Rec.	8020	11/07/1995		3331

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SAMPLE DESCRIPTION: MW4
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254811

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	ND		50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)	--						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 (Total)	ND		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS	--						11/07/1995	3331
Bromofluorobenzene (SURR)	102			% Rec.	8020		11/07/1995	3331

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SAMPLE DESCRIPTION: MW5
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254812

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	ND		50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)								
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 (Total)	ND		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS								
Bromofluorobenzene (SRR)	96			% Rec.	8020		11/07/1995	3331

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SAMPLE DESCRIPTION: MW8
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254813

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	ND		50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)	--						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 (Total)	ND		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS	--						11/07/1995	3331
Bromofluorobenzene (SURR)	100			% Rec.	8020		11/07/1995	3331

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SAMPLE DESCRIPTION: MW10
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254814

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	1,200		50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)	--						11/07/1995	3331
Benzene	47		0.5	ug/L	8020		11/07/1995	3331
Toluene	0.8		0.5	ug/L	8020		11/07/1995	3331
Ethylbenzene	1.4		0.5	ug/L	8020		11/07/1995	3331
Xylenes (Total)	2.4		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS	--						11/07/1995	3331
Bromofluorobenzene (SURR)	113			% Rec.	8020		11/07/1995	3331

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SAMPLE DESCRIPTION: MW12
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254815

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	130	G1	50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)	--						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 (Total)	ND		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS	--						11/07/1995	3331
Bromofluorobenzene (SURR)	100			% Rec.	8020		11/07/1995	3331

G1 : The result for Gasoline is an unk. HC which consists of a single peak.

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SAMPLE DESCRIPTION: DUP
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254816

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed	Run Batch No.
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	1,300		50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)	--						11/07/1995	3331
Benzene	50		0.5	ug/L	8020		11/07/1995	3331
Toluene	0.8		0.5	ug/L	8020		11/07/1995	3331
Ethylbenzene	1.5		0.5	ug/L	8020		11/07/1995	3331
Xylenes (Total)	2.5		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS	--						11/07/1995	3331
Bromofluorobenzene (SRR)	119			* Rec.	8020		11/07/1995	3331

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SAMPLE DESCRIPTION: EB
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254817

Parameter	Results	Flags	Reporting		Units	Method	Date	Date	Run
			Limit				Extracted	Analyzed	Batch
METHOD 5030/8015-M (Shell)									
DILUTION FACTOR*	1						11/07/1995		3331
Purgeable TPH	ND		50		ug/L	5030/M8015	11/07/1995		3331
Carbon Range: C6 to C12	--						11/07/1995		3331
METHOD 8020 (GC, Liquid)									
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 (Total)	ND		0.5		ug/L	8020	11/07/1995		3331
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	100				% Rec.	8020	11/07/1995		3331

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SAMPLE DESCRIPTION: TB
Date Taken: 11/02/1995
Time Taken:
NET Sample No: 254818

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
No.								
METHOD 5030/8015-M (Shell)								
DILUTION FACTOR*	1						11/07/1995	3331
Purgeable TPH	ND		50	ug/L	5030/M8015		11/07/1995	3331
Carbon Range: C6 to C12	--						11/07/1995	3331
METHOD 8020 (GC, Liquid)								
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 (Total)	ND		0.5	ug/L	8020		11/07/1995	3331
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	98			µ Rec.	8020		11/07/1995	3331

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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

<u>Parameter</u>	<u>CCV Standard % Recovery</u>	<u>CCV Standard Amount Found</u>	<u>CCV Standard Amount Expected</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Analyst Initials</u>	<u>Run Batch Number</u>
METHOD 5030/8015-M (Shell)							
Purgeable TPH	90.0	0.45	0.50	mg/L	11/07/1995	dat3	3331
Benzene	98.6	4.93	5.00	ug/L	11/07/1995	dat3	3331
Toluene	96.8	4.84	5.00	ug/L	11/07/1995	dat3	3331
Ethylbenzene	99.0	4.95	5.00	ug/L	11/07/1995	dat3	3331
Xylenes (Total)	100.7	15.1	15.0	ug/L	11/07/1995	dat3	3331
Bromofluorobenzene (SURR)	98.0	98	100	% Rec.	11/07/1995	dat3	3331

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METHOD BLANK REPORT

Parameter	Method	Reporting	Units	Date	Analyst	Run
	Blank					
METHOD 5030/8015-M (Shell)						
Purgeable TPH	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

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike				Sample Conc.	Matrix Spike			Date Analyzed	Run Batch	Sample Spiked
	Matrix Spike % Rec.	Spike Dup % Rec.	RPD	Spike Amount		Matrix Spike Conc.	Spike Dup. Conc.	Units			
METHOD 5030/8015-M (Shell)											254810
Purgeable TPH	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

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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.

COOLER RECEIPT FORM

Project: 951102-K1 Log No: 9130
Cooler received on: 11/4/95 and checked on 11/6/95 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. 4.1°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:

TB 12

1

*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)