■ ADVANCED ENVIRONMENTAL CONCEPTS INC ■

AUG 2 0 2002

August 15, 2002

Mr. Don Hwang
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Regarding: **2nd Quarter Groundwater Sampling Report (2002)**
Former Vogue Tyres Facility
240 West MacArthur Boulevard
Oakland, California

Dear Mr. Hwang,

Please find enclosed the Second Quarter Groundwater Sampling Report prepared by **Advanced Environmental Concepts, Inc.** (AEC) for the above referenced project/location.

Should you have any questions or require clarification on any aspects of the enclosed, please do not hesitate to contact our office at (661) 831-1646.

Respectfully yours,

Advanced Environmental Concepts, Inc.

Debbie Irwin
Office Administrator

Attachments: Reports (1)

cc: Mr. Warren Dodson
Mr. Glen Poywling

AUG 2 0 2002

ADVANCED ENVIRONMENTAL CONCEPTS INC

July 17, 2002

Mr. Warren Dodson
Dodson Ltd.
P.O. Box 67809
Los Angeles, California 90067-0809

Regarding: **2nd Quarter Groundwater Sampling (2002)**
Former Vogue Tyres Facility
240 West MacArthur Boulevard
Oakland, California

Dear Mr. Dodson:

Advanced Environmental Concepts, Inc. (AEC) is pleased to present this report of groundwater sampling performed at the former Vogue Tyres facility, 240 West MacArthur Boulevard, Oakland, California **(Attachment A, Figure 1)**.

Background

The former Gulf Service Station originally operated three 10,000 gallon gasoline underground storage tanks (USTs), and one 350 gallon waste oil UST. Historical records indicate that the Gulf station existed since at least 1950. The current location of the Shell Service Station, located adjacent to, and south of the subject site was a fueling station since at least 1952. The three Gulf gasoline USTs were located at the northern portion of the property, (underneath the current building), and the waste oil UST was west of the service bays. The two pump islands were west of the northern portion of the existing building. The 350 gallon waste oil UST was removed in October 1996 by All Environmental, Inc (AEI).

On October 3, 1996, AEI removed the previously identified 350 gallon waste oil UST located west of the service bays. Visual staining of waste oil range hydrocarbons was identified on the floor and sidewalls of the excavation. Confirmation soil samples collected from the excavation indicated that soil beneath the former UST emplacement were impacted with minor concentrations of petroleum hydrocarbons. At the request of ACHCS, AEI expanded the size of the excavation, then collected additional confirmation soil samples which indicated the successful removal of the contamination. Groundwater was not encountered during this excavation phase, however, due to the estimated proximity of the contamination to groundwater, a subsurface investigation was required by the County.

On January 8, 1997, AEI conducted a subsurface investigation consisting of six borings using a Geoprobe. Borings BH-1, BH-2, BH-4, and BH-6 were advanced to 20 feet below grade level (BGL), and BH-3 and BH-5 were probed to 16 feet BGL. Soil samples were collected at intervals of 5 feet, and "grab" groundwater samples were collected from inside the borings. Groundwater was identified at approximately 16 feet BGL.

The soil samples were analyzed in accordance with California Department of Health Services (CA DHS) method for total petroleum hydrocarbons as gasoline and diesel (TPH-g,d) and EPA Method 8020 for volatile aromatics (BTXE), and methyl tertiary butyl ether (MTBE). The soil samples were also analyzed for total lead, oil and grease, and poly nuclear aromatics (PNAs).

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Total lead concentrations ranged from 4.6 mg/kg to 23 mg/kg which is below the recommended action level of 50 mg/kg. MTBE was non-detect for all samples analyzed, oil and grease were only run on BH-2 and BH-3 and was less than 50 mg/kg, and the PNAs exhibited trace concentrations ranging between 1.1 and 41 μg/kg.

The groundwater samples were analyzed in accordance with California Department of Health Services (CA DHS) method for total petroleum hydrocarbons as gasoline and diesel (TPH-g,d) and EPA Method 8020 for volatile aromatics (BTXE), and methyl tertiary butyl ether (MTBE). Groundwater samples were also analyzed for total lead, oil and grease, and poly nuclear aromatics (PNAs).

Soluble lead concentrations were below detection limits, MTBE ranged from below detection limits to 320 ug/L in BH6W, oil and grease were only run on BH2W and was less than 5 mg/L, and the PNAs exhibited non detectable concentrations.

On August 7, 1997, AEC supervised the drilling of three Geoprobe soil borings (BH-7, BH-8, and BH-9), and installation of four groundwater monitoring wells (MW-1, MW-2, MW-3, and MW-4) proximal to the western dispenser islands, and south, west, and north of the former UST emplacement. The investigative groundwater wells and Geoprobe borings were positioned to assess the vertical and lateral migration of hydrocarbons in the subsurface and to evaluate groundwater quality.

In accordance with directives issued by ACHCS in a letter dated May 16, 2000, groundwater samples collected during June 2000 were also analyzed for the presence of ether oxygenates, specifically: Tertiary Amyl Methyl Ether (TAME), Diisopropyl Ether (DIPE), Ethyl Tertiary Butyl Ether (ETBE), Tertiary Butyl Alcohol (TBA) and the following lead scavengers: Ethylene Dibromide (EDB), Ethylene Dichloride (EDC), and 1,2-Dichloroethane (1,2-DCA).

On February 13, 2001 AEC drilled, sampled, and installed four additional groundwater monitoring wells (MW-5, MW-6, MW-7, and MW-8) on the subject property and offsite in MacArthur Boulevard and Howe Street. Soil and groundwater samples were collected from the newly installed wells and reported in prior quarterly sampling reports.

In addition to the quarterly groundwater sampling AEC conducted a "hi-vac" feasibility study from October 22-26, 2001. The "hi-vac" study consisted of removing impacted soil vapor and groundwater primarily from monitoring wells MW-1, MW-2, MW-3, and MW-5.

This latest groundwater sampling report documents the methods and procedures used and the laboratory analytical results obtained from the latest groundwater sampling event conducted at the subject property on July 12, 2002.

Groundwater Sampling

The groundwater samples were collected in accordance with the following protocol.

1) Depth to ground water was measured in each of the wells;

2) A bailer was used to collect a water sample from the potentiometric surface to visually determine whether free hydrocarbons or a sheen can be identified;

3) Initial readings of pH, Temperature, and Conductivity were obtained (**Attachment B**);

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4) The water samples were collected in a clean, stainless steel bailer, then transferred to 40-ml. glass VOA vials with Teflon septa. Care was exercised to ensure that no air bubbles were present in the vials;

5) The VOA vials were labeled, sealed with tape, wrapped in a protective covering, and placed in an ice chest chilled with frozen Blue Ice with two (2) bailer blanks for transport to the laboratory. Chain-of-custody protocol was followed to ensure sample integrity and traceability;

6) The July 2002 samples were analyzed by Baseline On-Site analysis, a California-certified laboratory in Huntington Beach, California, for total petroleum hydrocarbons as gasoline (TPH-g), volatile aromatics (BTXE), and MTBE by EPA methods 8015-modified and 8021B, respectively. The laboratory reports and chain-of-custody documentation are presented in **Attachment C**.

TABLE 1
Analytical Results - Monitoring Wells
(ppb)

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-1	08/8/97	1,140	110	16	112	15	NA
	12/3/97	ND	ND	ND	31	ND	NA
	03/16/98	370	8.9	ND	2.2	ND	18
	07/9/98	6,400	1,300	23	58	3.7	97
	10/19/98	2,500	360	44	150	1.3	ND
	01/19/99	2,700	1,200	28	78	140	130
	6/26/00	27,000	5,200	500	3,100	320	1,300
	12/15/00	976,000	2,490	1,420	10,100	3,640	<150
	02/14/01	NA	NA	NA	NA	NA	NA
	05/11/01	20,000	2,900	310	1,900	230	<30
	07/11/01	92,000	2,900	580	20,000	2,800	560
Pre "hi-vac"	10/22/01	**20,000**	**3,700**	**560**	**4,600**	**410**	**2,600**
Post "hi-vac"	10/26/01	**<0.05**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
	12/19/01	3,300	200	12	43	5.7	44.
	03/18/02	4,600	820	4.4	300	100	210
	05/24/02	1,600	100	23	190	20	7.7
	07/12/02	2,300	250	15	180	13	180

Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-2	08/08/97	5,350	108	36	144	33	NA
	12/3/97	1,600	73	ND	ND	ND	NA
	3/16/98	3,400	830	100	240	210	870
	07/09/98	3,100	25	2.2	0.9	ND	1,900
	10/19/98	4,300	ND	1.2	1	ND	4,200
	01/19/99	2,900	160	8.9	7.4	6.9	2,100
	06/26/00	2,700	200	17.0	16.0	30.0	680
	12/15/00	3,020	56.7	<1.5	<1.5	<3.0	3,040
	02/14/01	NA	NA	NA	NA	NA	NA
	05/11/01	720	49	<3	<3	4.6	380
	07/09/01	8,400	350	44	78	77	550
Pre "hi-vac"	10/22/01	**850**	**170**	**4.9**	**14**	**5.1**	**260**
Post "hi-vac"	10/26/01	**770**	**86**	**5.5**	**8.5**	**9.6**	**310**
	12/19/01	1,300	9.2	<2	<2	<2	370
	03/18/02	1,300	76	3.8	15	21	460
	05/24/02	320	12	1.1	4.8	4.6	160
	07/12/02	1,300	130	1.0	5.6	9.4	420
MW-3	08/08/97	8,500	450	30	106	53	NA
	12/03/97	5,200	180	6	9.3	5	NA
	03/16/98	1,000	6.0	ND	ND	ND	810
	07/09/98	6,400	490	57	78	23	220
	10/19/98	2,100	ND	ND	ND	ND	ND
	01/19/99	4,400	450	65	42	26	1,300
	06/26/00	1,700	110	13.0	13.0	34.0	96.0
	12/15/00	5,450	445	<7.5	<7.5	23.8	603
	02/14/01	NA	NA	NA	NA	NA	NA
	05/11/01	1,900	180	12	19	<3	330
	07/09/01	10,000	830	160	260	150	560
Pre "hi-vac"	10/22/01	**1,400**	**240**	**7.8**	**15**	**4.1**	**220**

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Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
Post "hi-vac"	10/26/01	**1,900**	**200**	**16**	**30**	**51**	**290**
MW-3	12/19/01	5,800	93	<20	<20	31	330
	03/18/02	1,900	220	16	24	31	400
	05/24/02	1,600	110	3.4	14	29	320
	07/12/02	1,900	210	27	55	30	200
MW-4	08/08/97	ND	ND	ND	ND	ND	NA
	12/03/97	ND	ND	ND	ND	ND	NA
	03/16/98	ND	ND	ND	ND	ND	ND
	07/09/98	ND	ND	ND	ND	ND	ND
	10/19/98	ND	ND	ND	ND	ND	ND
	01/19/99	ND	ND	ND	ND	ND	ND
	06/26/00	<50.0	<0.5	<0.5	<0.5	<0.5	<0.5
	12/15/00	<500	<0.3	<0.3	<0.3	<0.6	<0.3
	02/14/01	NA	NA	NA	NA	NA	NA
	05/11/01	<50	1.2	<0.3	1.2	0.55	2.9
	07/09/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Pre "hi-vac"	10/22/01	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Post "hi-vac"	10/26/01	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
	12/19/01	<0.5	<0.5	<0.5	<0.5	<0.5	<50
	03/18/02	<50	<1	<1	<1	<1	<1
	05/24/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	07/12/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-5	02/14/01	5,660	76.9	21.1	312	47.3	<0.3
	05/11/01	22,000	2,600	480	2,700	220	<30
	07/09/01	72,000	3,500	1,100	22,000	4,300	2,500
Pre "hi-vac"	10/22/01	**26,000**	**2,800**	**980**	**950**	**6,000**	**2,300**
Post "hi-vac"	10/26/01	**17,000**	**1,200**	**470**	**440**	**2,900**	**900**
	12/19/01	<2,000	620	190	910	110	<20
	03/18/02	8,800	1,200	72	350	7.4	1,200

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Sample ID	Date	TPH-g	Benzene	Toluene	Xylenes	Ethylbenzene	MTBE
MW-5	05/24/02	2,000	150	38	260	21	13
	07/12/02	4,200	480	68	280	29	450
MW-6	02/14/01	1,340	17.0	0.967	51.4	11.1	<0.3
	05/11/01	610	15	0.97	46	<0.5	<0.5
	07/09/01	2,500	130	4.7	170	53	120
Pre "hi-vac"	10/22/01	**280**	**18**	**1.2**	**4.7**	**6.2**	**6**
Post "hi-vac"	10/26/01	**3,600**	**210**	**20**	**62**	**170**	**120**
	12/19/01	5,300	69	5.6	17	14	<2
	03/18/02	71	54	4.2	17	27	8.5
	05/24/02	150	9.3	<0.5	<0.5	<0.5	1.5
	07/12/02	2,200	98	32	150	46	66
MW-7	02/14/01	≤0.005	<0.3	<0.3	<0.3	<0.3	284
	05/11/01	<50	0.75	0.77	2.4	0.48	1.1
	07/09/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Pre "hi-vac"	10/22/01	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Post "hi-vac"	10/26/01	**6,000**	**170**	**550**	**120**	**110**	**970**
	12/19/01	<50	<0.5	<0.5	0.9	<0.5	43
	03/18/02	<50	<1	<1	<1	<1	<1
	05/24/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	07/12/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-8	02/14/01	1,000	3.97	<0.3	1.63	3.78	620
	05/11/01	<50	<0.5	<0.5	<0.5	<0.5	4.4
	07/09/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Pre-"hi-vac"	10/22/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
Post "hi-vac"	10/26/01	<5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/19/01	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	03/18/02	<50	<1	<1	<1	<1	<1
	05/24/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	07/12/02	<50	<0.5	<0.5	<0.5	<0.5	<0.5

TPH-g: Total Petroleum Hydrocarbons as gasoline

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The current state maximum contaminant levels (MCLs) for drinking water set by the California Department of Health Services, Title 22 are as follows:

Benzene	1 µg/L
Toluene	1500 µg/L
Ethylbenzene	700 µg/L
Total Xylenes	1750 µg/L
MTBE	13 µg/L

Conclusions

The groundwater sampling results continue to indicate trace to non detectable concentrations of gasoline constituents analyzed within MW-4 (upgradient well), MW-7 and MW-8 (downgradient wells). MW-7 exhibited a marked increase in gasoline-range hydrocarbons after the vacuum extraction of groundwater in October 2001; however, this appeared to be an anomaly and has proven out based on results from the December 19, 2001, March 18, 2002, May 24, 2002, and July 12, 2002 groundwater sampling. MW-6 exhibited moderate concentrations of TPH-gasoline and all volatiles. The gasoline concentrations for MW-6 had exhibited a decreasing trend since the "hi-vac" process in October 2001 until this sampling round of July 12, 2002.

MW-1, MW-2, MW-3, and MW-5 continue to exhibit elevated concentrations for TPH-gasoline and volatile organic concentrations, however, the concentrations are on a stabilizing and primarily decreasing trend. It appears that using vacuum extraction on the contaminated groundwater in MW-1 and MW-5 has reduced and stabilized the groundwater plume. The wells occasionally "spike" upwards, however, concentrations remain well below pre "hi-vac" concentrations.

Oxygenate analyses were not conducted on the groundwater samples collected in July 2002, however, will be re-instated for the October 2002 quarterly sampling.

The current flow direction was calculated to be North 80° West and the gradient is 0.75 ft/100ft. Flow direction and gradient have remained relatively consistent with previous sampling rounds. The monitoring wells yield adequate water volume and cannot be bailed dry. Recharge is good in all eight monitoring wells.

Recommendations

Advanced Environmental Concepts, Inc. recommends one additional quarter of sampling for this site (October 2002). If the plume continues to exhibit stable gasoline concentrations AEC will recommend closure for the site and permission to abandon the groundwater wells. AECs rationale is based on the following:

(1) There are no drinking water supply wells in this area of Oakland. All water is imported through subsurface plumbing from outside this area, therefore, there is no opportunity for this gasoline release to affect drinking water supplies.

(2) The plume has not migrated greater that 30-feet from the former UST and dispenser release points.

(3) The gasoline plume in water is "perched" on a malleable "fat" clay at approximately 16-feet bgs and has exhibited no vertical migration into the clay layer. The water-bearing zone is also confined by a "fat" clay layer, thereby, reducing the potential for vertical vapor migration to the surface. The upper clay layer also retains the gasoline hydrocarbons rendering complete removal impossible by any

remediation methods with the exception of excavation. However, the close proximity of the aboveground structures on the subject property, and numerous subsurface utility vaults and lines, negates the possibility of excavation as a viable option, therefore, there will always be some leaching of the hydrocarbons from the clay into groundwater.

(4) The most elevated gasoline concentrations have been recorded from monitoring wells 1 and 5 which are along the north wall of the onsite car warehouse structure. The "hi-vac" method has reduced the gasoline concentrations from "free product" in wells 1 and 5 to less than 4,500 ppb of TPH-gasoline in well 5. In addition, benzene concentrations have decreased from a high of 5,200 ppb to the current measured result of 250 ppb in MW-1. The sampling results from the prior three quarters indicate a stabilizing and decreasing trend and that an asymptopic line is being reached.

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Closing

Advanced Environmental Concepts, Inc. appreciates the opportunity of providing our professional services to Mr. Warren Dodson. Should there be any questions or additional information required, please do not hesitate to contact our office at your convenience.

Respectfully yours,

Advanced Environmental Concepts, Inc.

Jonathan L. Buck
Registered Environmental Assessor II #20017

All environmental site work with which **Advanced E nvironmental C oncepts, I nc.** was involved, was performed under my supervision to ensure proper sampling protocol and environmental assessment. This report has been technically reviewed by the undersigned.

Christian Bellue
Registered Professional Engineer #C53934

Doc30IV

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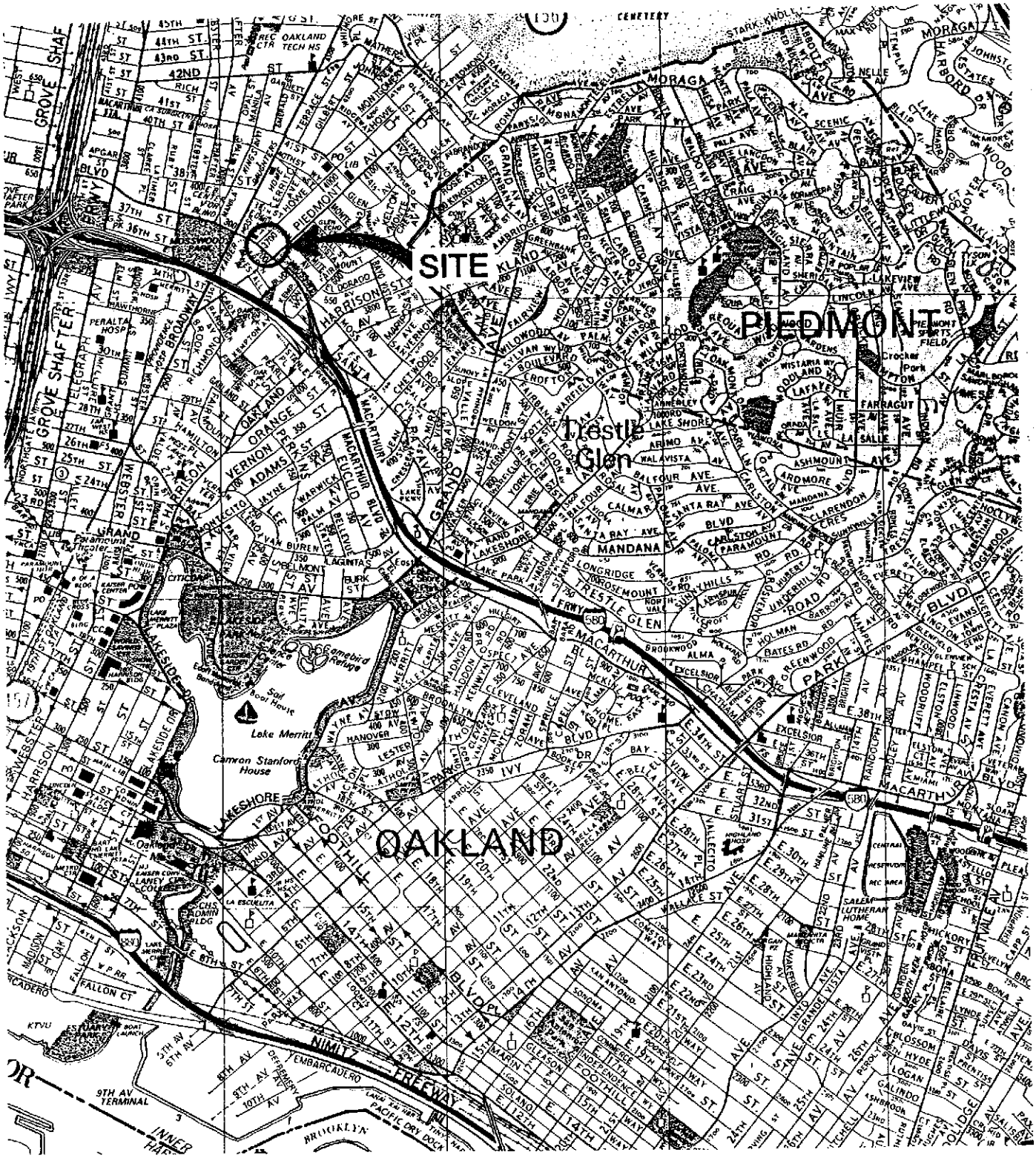

Map Source: Thomas Maps

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- SITE AREA -

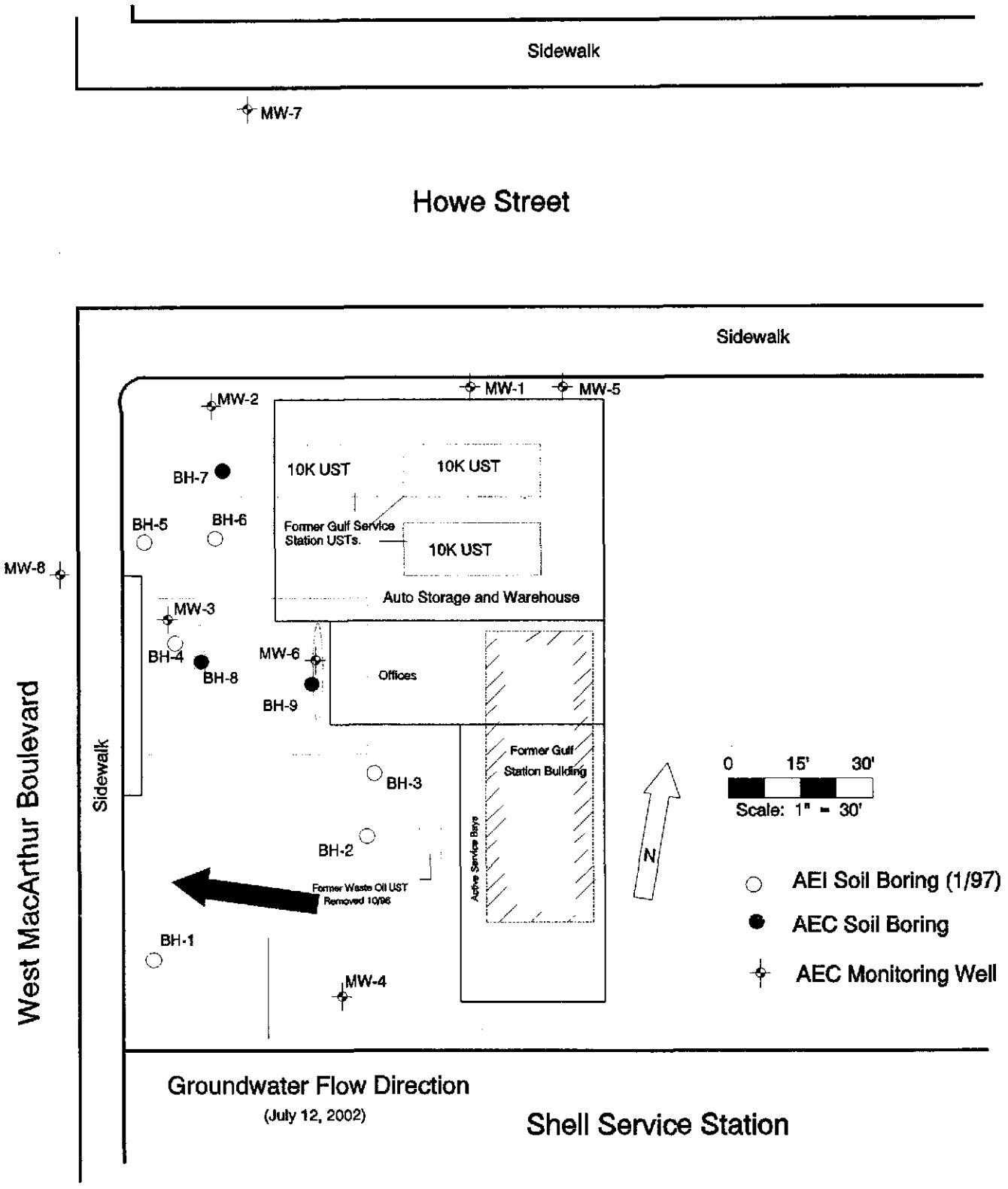
Prestige Products Corporation

240 West MacArthur Blvd.

County of Alameda - Oakland, California

FIGURE

1



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- Location Map -

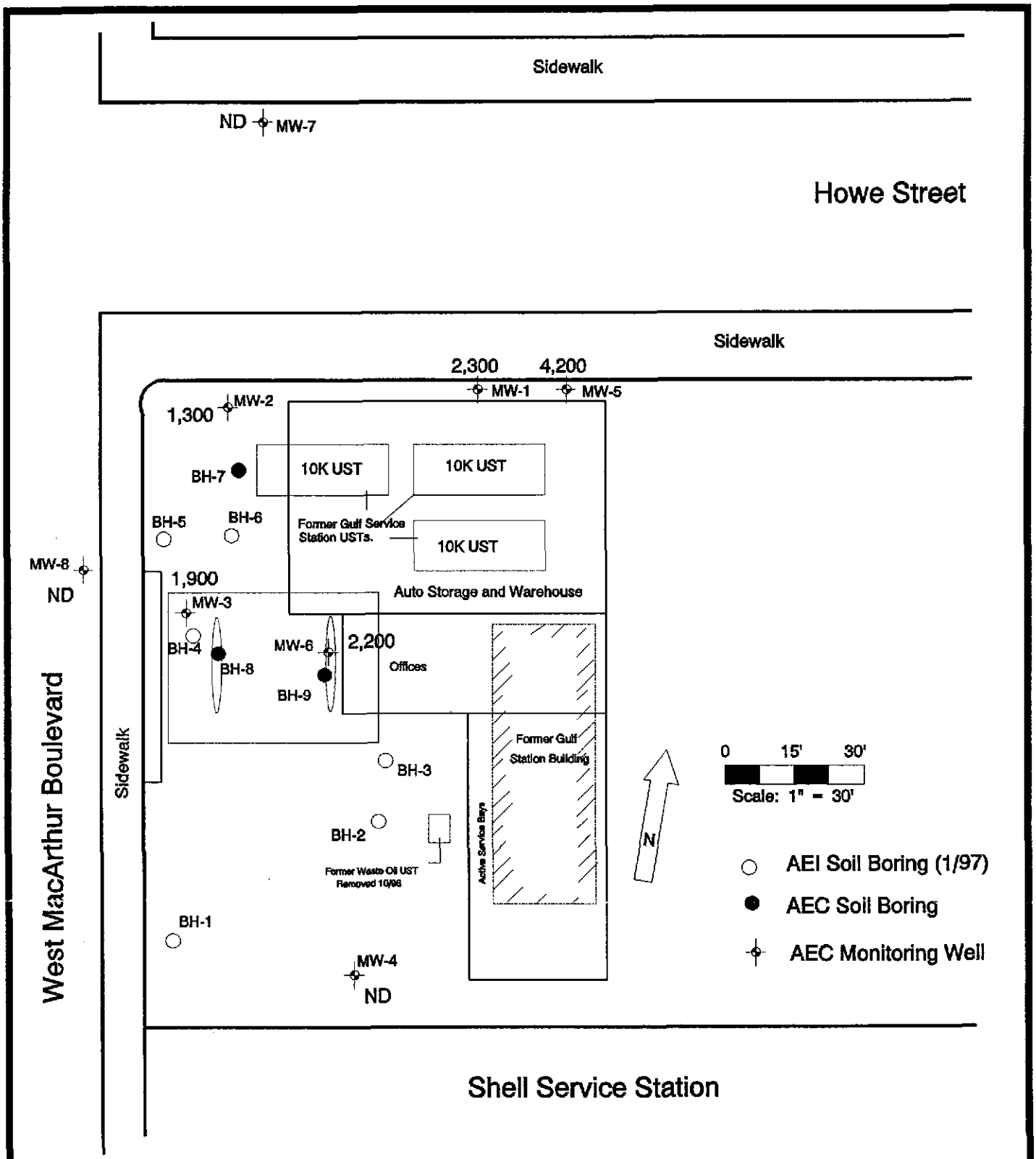
Former Vogue Tyres Facility

240 West MacArthur Boulevard

County of Alameda • Oakland, CA

FIGURE

2



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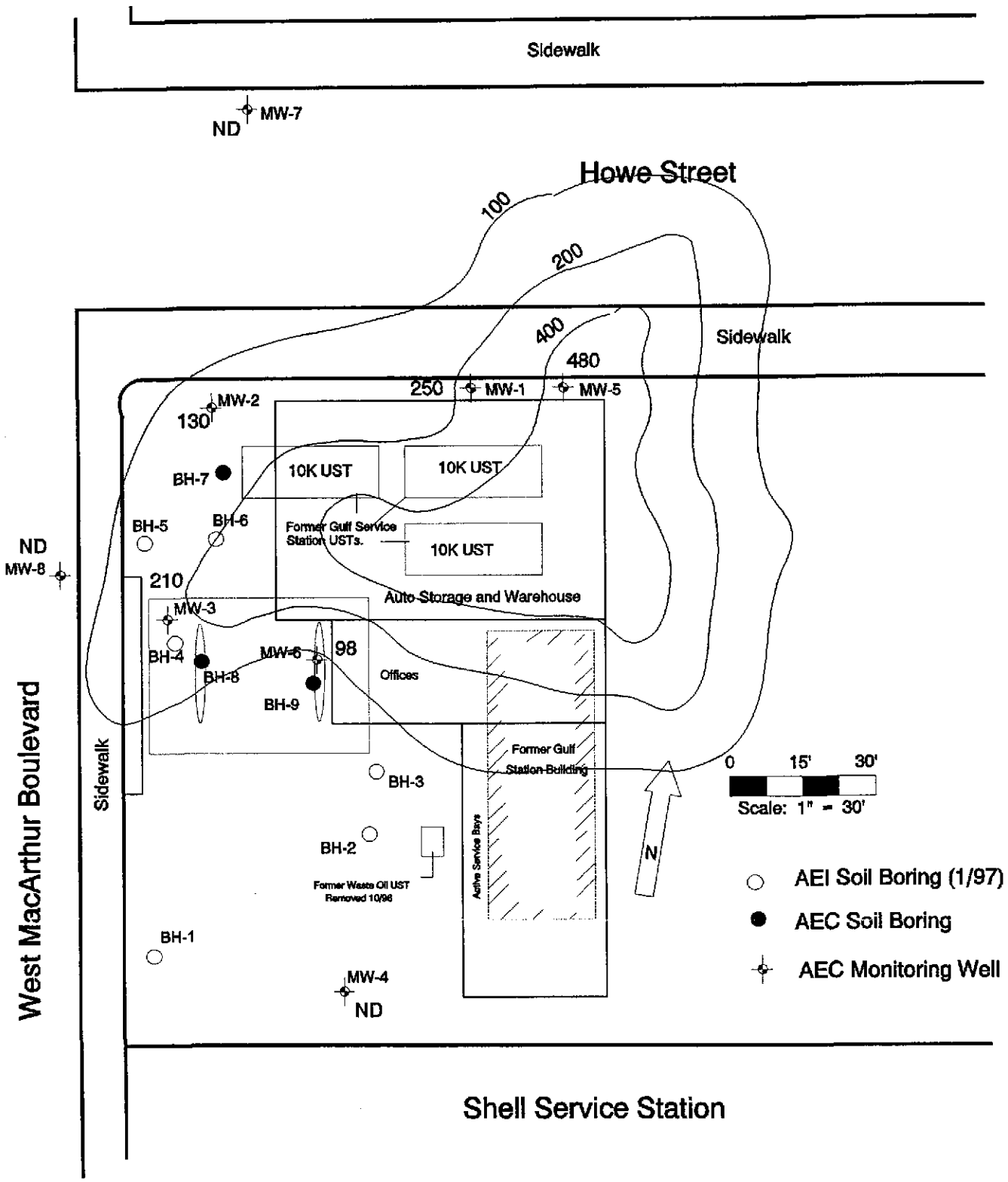
TPH-Gasoline in Water (ppb)
(July 12, 2002)
Former Vogue Tyres Facility
240 West MacArthur Boulevard
County of Alameda • Oakland, CA

FIGURE
3



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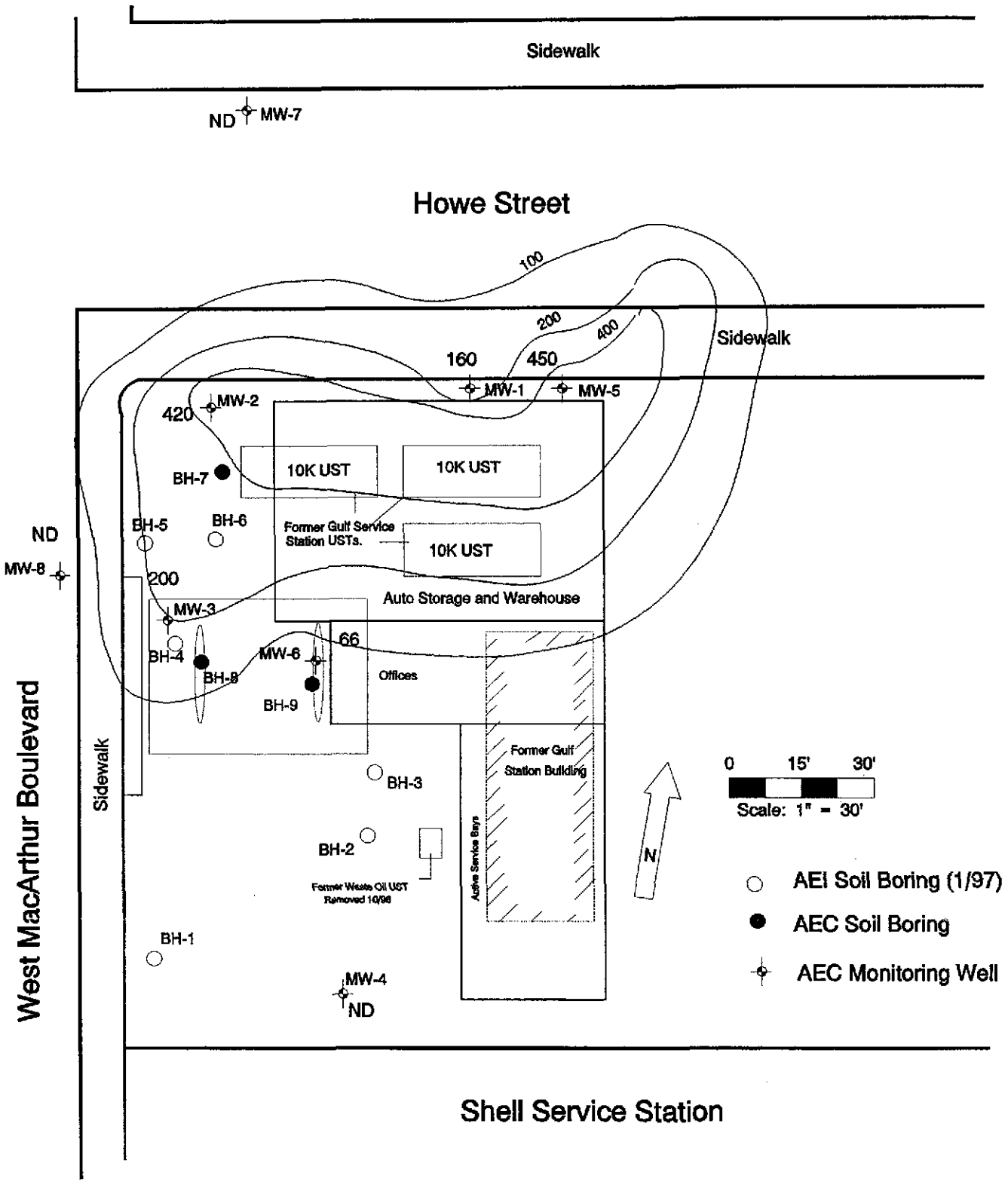
Benzene in Groundwater (ppb)
(July 12, 2002)
Former Vogue Tyres Facility
240 West MacArthur Boulevard
County of Alameda • Oakland, CA

FIGURE
4



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MTBE in Groundwater (ppb)

(July 12, 2002)

Former Vogue Tyres Facility

240 West MacArthur Boulevard

County of Alameda • Oakland, CA

FIGURE

5

Groundwater Parameters

Site Name: Former Vogue Tyres
Location: 240 West MacArthur
Oakland, CA

AEC P.O. #: _____
Project #: _____
Date: July 12, 2002

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
	MONITORING WELL # 1				
		2,030	63.0	6.81	12.6
	MONITORING WELL # 2				
		1,950	63.7	6.73	9.4
	MONITORING WELL # 3				
		2,090	64.8	6.59	15.1

3 Casing Volumes

4" Screen = (.66 gal/ft) (_____ ft) = _____ 2" Screen = (.17 gal/ft) (_____ ft) = _____

MW # MW-1 Depth to Groundwater = 16.39' Corrected Depth: 16.62' Survey: 4.38'

MW # MW-2 Depth to Groundwater = 15.86' Corrected Depth: 17.51' Survey: 5.80'

MW # MW-3 Depth to Groundwater = 14.97' Corrected Depth: 16.79' Survey: 5.97'

Groundwater Parameters

Site Name: Former Vogue Tyres
Location: 240 West MacArthur
Oakland, CA

AEC P.O. #: _____
Project #: _____
Date: July 12, 2002

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
	MONITORING WELL # 4				
		1,430	64.3	6.78	14.1
	MONITORING WELL # 5				
		1,350	62.8	6.76	15.2
	MONITORING WELL # 6				
		2,540	65.0	6.12	14.8

3 Casing Volumes

4" Screen = (.66 gal/ft) (_____ ft) = _____ 2" Screen = (.17 gal/ft) (_____ ft) = _____

MW # MW-4 Depth to Groundwater = 14.81' Corrected Depth: 16.51' Survey: 5.85'

MW # MW-5 Depth to Groundwater = 16.46' Corrected Depth: 16.46' Survey: 4.15'

MW # MW-6 Depth to Groundwater = 15.55' Corrected Depth: 16.54' Survey: 5.14'

Groundwater Parameters

Site Name: Former Vogue Tyres
Location: 240 West MacArthur
Oakland, CA

AEC P.O. #: _____
Project #: _____
Date: July 12, 2002

TIME	GALLONS PURGED	CONDUCTIVITY	TEMPERATURE	pH	TURBIDITY
	MONITORING WELL # 7				
		1,770	64.5	6.75	15.7
	MONITORING WELL # 8				
		1,040	63.8	6.59	14.1
	MONITORING WELL # ___				

3 Casing Volumes

4" Screen = (.66 gal/ft) (_____ ft) = _____ 2" Screen = (.17 gal/ft) (_____ ft) = _____

MW # MW-7 Depth to Groundwater = 15.72' Corrected Depth: 16.81' Survey: 5.24'

MW # MW-8 Depth to Groundwater = 13.96' Corrected Depth: 16.99' Survey: 7.18'

MW # _____ Depth to Groundwater = _____ Corrected Depth: _____ Survey: _____

Baseline On-Site Analysis
P. O. Box 2243
Huntington Beach, CA 92647
Toll Free: 888.753.7553
FAX: 714.840.1584

Laboratory Report

Client: AEC, Inc.
Client Address: 4400 Ashe Road, #206
Bakersfield, CA 93313

Report Date: 6/5/02
Lab Project Number: 02253
Client Project Number: ---

Project Name: Vogue Tyres
Project Address: 240 W. MacArthur Avenue
Oakland, California
Contact: Jon Buck

Dates Sampled: 5/24/02
Dates Received: 5/29/02
Dates Analyzed: 5/29/02
Sample Matrix: Water

Analyses Requested:

1. **EPA M8015 – Total Petroleum Hydrocarbons as Gasoline (TPH-G)**
2. **EPA 8021B – Volatile Aromatics with MTBE**

On May 29, 2002, *Baseline* received water samples from the project shown above. A Chain-of-Custody Record (COC) is attached.

Baseline analyzed the samples for the parameters shown above per the COC. In this report, *Baseline* presents the results and QA/QC summary for these analyses.

Brian K. Kato
Approved
Brian K. Kato, Laboratory Manager

BASELINE ON-SITE ANALYSIS™

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Contact: Jon Buck

Report Date: 6/5/02
Lab Project Number: 02253
Client Project Number: ---

Dates Sampled: 5/24/02
Dates Received: 5/29/02
Dates Analyzed: 5/29/02
Sample Matrix: Water

TPH as Gasoline (TPH-G) and Volatile Aromatics (BTEX) with MTBE Results

Constituent:	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes
Method:	M8015	8021B	8021B	8021B	8021B	8021B
Units:	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Sample ID						
MW-1	1.6	7.7	100	23	20	190
MW-2	0.32	160	12	1.1	4.6	4.8
MW-3	1.6	320	110	3.4	29	14
MW-4	ND<0.050	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-5	2.0	13	150	38	21	260
MW-6	0.15	1.5	9.3	ND<0.5	ND<0.5	ND<0.5
MW-7	ND<0.050	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-8	ND<0.050	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Method Blank	ND<0.050	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

ND: Not detected at the indicated reporting limit.

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Laboratory Report

Client: AEC, Inc.
Client Address: 4400 Ashe Road, #206
Bakersfield, CA 93313

Project Name: Vogue Tyres
Project Address: 240 W. MacArthur Avenue
Oakland, California
Contact: Jon Buck

Report Date: 6/5/02
Lab Project Number: 02253
Client Project Number: ---

Dates Sampled: 5/24/02
Dates Received: 5/29/02
Dates Analyzed: 5/29/02
Sample Matrix: Water

Quality Control Summary

Analytes	MS Recovery (%)	MSD Recovery (%)	RPD (%)	QC Sample
TPH-Gasoline (EPA 8015)	98	95	3	MW-8
Toluene (EPA 8021B)	96	94	2	MW-8
Total Xylenes (EPA 8021B)	99	95	4	MW-8
Acceptable QC Limits:	(65-135)	(65-135)	(0-30)	

MS: Matrix Spike; MSD: Matrix Spike Duplicate; RPD: Relative Percent Difference
LCS/LCSD: Lab Control Sample/Duplicate

CHAIN-OF-CUSTODY RECORD

Client: AEC		Date: 5/29/02				Analysis Requested										LAB Project #: 02253			
Project Name: VOGUE TYRES		Client Project #														Page: 1 of 1			
Project Address: 225 W MacArthur		Turn Around Requested: ☐ 24-Hour-Rush ☐ 48-Hour-Rush ☒ Normal ☐ Mobile Lab														Lab Use Only. Sample Condition as received: Chilled Yes / No Sealed Yes / No			
Oakland, CA																			
Sampler's Signature: Brad Buck																			
Sample	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil(S) Sludge(SL), Aqueous(A)	MTBE/BTEX/TPH-g							Number of Containers	Container / Comments					
MW-4		5/24/02			A	✓							2						
MW-8		11			A	✓							2						
MW-7		11			A	✓							2						
MW-6		11			A	✓							2						
MW-3		11			A	✓							2						
MW-2		11			A	✓							2						
MW-5		11			A	✓							2						
MW-1		5/24/02			A	✓							2						

❶ Relinquished by: (Signature) Brad Buck	Date: 5/29/02	❷ Received by: (Signature)	Date	16	Total Number of Containers
Company: AEC	Time: 1400	Company:	Time		
❸ Relinquished by: (Signature)	Date	❹ Received by Laboratory: (Signature)	Date: 5/29/02		
Company:	Time	Company: BASELINE	Time: 1400		

"ADVANCED ENVIRONMENTAL CONCEPTS INC"
661/831-1646 4400 ASHE ROAD, #206
FAX 661/831-1771 BAKERSFIELD, CA 93313
E-mail: advanced@lightspeed.net

Baseline On-Site Analysis
P. O. Box 2243
Huntington Beach, CA 92647
Toll Free: 888.753.7553
FAX: 714.840.1584

Laboratory Report

Client: AEC, Inc.
Client Address: 4400 Ashe Road, #206
Bakersfield, CA 93313

Project Name: Vogue Tyres
Project Address: 240 W. MacArthur Avenue
Oakland, California
Contact: Jon Buck

Report Date: 7/19/02
Lab Project Number: 02299
Client Project Number: ---

Dates Sampled: 7/12/02
Dates Received: 7/14/02
Dates Analyzed: 7/15/02
Sample Matrix: Water

Analyses Requested:

1. **EPA M8015 – Total Petroleum Hydrocarbons as Gasoline (TPH-G)**
2. **EPA 8021B – Volatile Aromatics with MTBE**

On July 14, 2002, *Baseline* received water samples from the project shown above. A Chain-of-Custody Record (COC) is attached.

Baseline analyzed the samples for the parameters shown above per the COC. In this report, *Baseline* presents the results and QA/QC summary for these analyses.

Brian K. Kato
Approved
Brian K. Kato, Laboratory Manager

BASELINE ON-SITE ANALYSIS™

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Huntington Beach, CA 92647

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FAX: 714.840.1584

Laboratory Report

Client: AEC, Inc.
Client Address: 4400 Ashe Road, #206
Bakersfield, CA 93313

Report Date: 7/19/02
Lab Project Number: 02299
Client Project Number: ---

Project Name: Vogue Tyres
Project Address: 240 W. MacArthur Avenue
Oakland, California
Contact: Jon Buck

Dates Sampled: 7/12/02
Dates Received: 7/14/02
Dates Analyzed: 7/15/02
Sample Matrix: Water

TPH as Gasoline (TPH-G) and Volatile Aromatics (BTEX) with MTBE Results

Constituent:	TPH-G	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes
Method:	M8015	8021B	8021B	8021B	8021B	8021B
Units:	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Sample ID						
MW-1	2.3	180	250	15	13	180
MW-2	1.3	420	130	1.0	9.4	5.6
MW-3	1.9	200	210	27	30	55
MW-4	ND<0.050	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-5	4.2	450	480	68	29	280
MW-6	2.2	66	98	32	46	150
MW-7	ND<0.050	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
MW-8	ND<0.050	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5
Method Blank	ND<0.050	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5

ND: Not detected at the indicated reporting limit.

BASELINE ON-SITE ANALYSIS™

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Laboratory Report

Client: AEC, Inc.
Client Address: 4400 Ashe Road, #206
Bakersfield, CA 93313

Project Name: Vogue Tyres
Project Address: 240 W. MacArthur Avenue
Oakland, California
Contact: Jon Buck

Report Date: 7/19/02
Lab Project Number: 02299
Client Project Number: ---

Dates Sampled: 7/12/02
Dates Received: 7/14/02
Dates Analyzed: 7/15/02
Sample Matrix: Water

Quality Control Summary

Analytes	MS Recovery (%)	MSD Recovery (%)	RPD (%)	QC Sample
TPH-Gasoline (EPA 8015)	79	90	13	MW-8
Toluene (EPA 8021B)	82	88	7	MW-8
Total Xylenes (EPA 8021B)	85	90	6	MW-8
Acceptable QC Limits:	(65-135)	(65-135)	(0-30)	

MS: Matrix Spike; MSD: Matrix Spike Duplicate; RPD: Relative Percent Difference
LCS/LCSD: Lab Control Sample/Duplicate

CHAIN-OF-CUSTODY RECORD

Client: AEC	Date: 7-12-02		LAB Project #: 02299
Project Name: VOGUE tyres	Client Project #:		Page: 1 of 1
Project Address: 245 W MACArthur, OAKLAND CA	Turn Around Requested: ☐ 24-Hour-Rush ☐ 48-Hour-Rush ☐ Normal ☐ Mobile Lab		Lab Use Only. Sample Condition as received: Chilled Yes / No, Sealed Yes / No
Sampler's Signature: Kenneth J Buck			

Sample	Sample Location	Date	Time	Laboratory Sample Number	Sample Matrix: Soil(S) Sludge(SL), Aqueous(A)	Analysis Requested: TPH-G/BTXE/MTBE	Analysis Requested: 8260B	Number of Containers	Container / Comments
MW-1		7-12-02			A	X	X	2	
MW-2		7-12-02			A	X	X	2	
MW-3		7-12-02			A	X	X	2	
MW-4		7-12-02			A	X	X	2	
MW-5		7-12-02			A	X	X	2	
MW-6		7-12-02			A	X	X	2	
MW-7		7-12-02			A	X	X	2	
MW-8		7-12-02			A	X	X	2	

❶ Relinquished by: (Signature) Kenneth J Buck	Date 7/14/02	❷ Received by: (Signature) B Nieto	Date 7/14/02	16 Total Number of Containers
Company: AEC	Time 1400	Company: BAGLELINE	Time 1400	
❸ Relinquished by: (Signature)	Date	❹ Received by Laboratory: (Signature)	Date	
Company:	Time	Company:	Time	

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