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June 18, 1997

VIA FEDERAL EXPRESS

Ms. Juliet Shin
Hazardous Materials Specialist
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621

Re: STID 3856; 1055 Eastshore Highway, Albany, CA

Dear Ms. Shin:

Enclosed is AllWest's Groundwater Monitoring Report for the first quarter of 1997. Please call me if you have any questions.

Sincerely,

John S. Hahn

Enclosure

cc: John Frank (w/enclosure)
Marc Cunningham (w/o enclosure)
John T. Lynch (w/o enclosure)
Craig Denny (w/enclosure)

8072302

AllWest

AllWest Environmental, Inc.

Specialists in Environmental Due Diligence and Remedial Services

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GROUNDWATER MONITORING REPORT
First Quarter 1997

1055 Eastshore Highway
Albany, California

ALLWEST PROJECT 96208.28
June 9, 1997

PREPARED BY:

12/31/97

Long Ching, PE
Senior Project Manager

REVIEWED BY:

Marc D. Cunningham, REA
President

TABLE OF CONTENTS

I.	INTRODUCTION	Page 1
II.	SITE HISTORY	Page 1
III.	GROUNDWATER SAMPLING ACTIVITIES	Page 2
IV.	LABORATORY TEST RESULTS	Page 2
V.	CONCLUSIONS	Page 3
VI.	REPORT LIMITATIONS	Page 3

TABLES

Table 1 - Summary of Groundwater Elevation Measurements
Table 2 - Summary of Groundwater Chemical Analyses Results

FIGURES

Figure 1 - Site Regional Map
Figure 2 - Site Vicinity Map
Figure 3 - Well Location Map
Figure 4 - Groundwater Contour Map

APPENDICES

Appendix A - Groundwater Sampling Protocol
Appendix B - Groundwater Sampling Field Logs
Appendix C - Laboratory Test Results and Chain-of-Custody Records

AllWest

MONITORING WELLS SAMPLING REPORT
First Quarter 1997

1055 Eastshore Highway
Albany, California

I. INTRODUCTION

This report presents the First Quarter 1997 results of a quarterly groundwater monitoring program performed by *AllWest Environmental* at 1055 Eastshore Highway, Albany, California. The monitoring program was initiated in response to an *Alameda County Department of Environmental Health (ACDEH)* request for quarterly sampling. The objective of the sampling program was to investigate the groundwater in the vicinity of the former underground storage tank (UST).

The scope of *AllWest's* services included sampling of four wells (MW-1 through MW-4), the measuring of groundwater levels in all four wells, and the submittal of the samples to a state certified laboratory, *Global Environmental Laboratory, Inc. (Global Lab)*. The samples were submitted for analysis of total petroleum hydrocarbons as gasoline (TPH-g), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX). After receipt of the analytical results, a written report was prepared to present the results.

II. SITE HISTORY

The subject property lies in the western-most area of Albany, Alameda County, California in an industrial area (See Figures 1 and 2). The subject property is located on the east side of Eastshore Highway, approximately 200 feet south of the Albany off-ramp from Highway I-80. San Francisco Bay is located approximately 2,000 feet west of the subject property.

The subject property facility currently is occupied by the City of Albany Corporation Yard. One underground storage tank (UST) containing gasoline was removed by *Resna Industries* on September 2, 1992. The former UST was located south of the building. A generalized site plan with the former UST location is presented on Figure 3.

Soil near the UST excavation was removed in September 1992. A preliminary site assessment (PSA) was conducted in July 1994. The PSA consisted of the advancement of seven boreholes, the installation of three groundwater monitoring wells (MW-1 through MW-3), and the submittal of soil and groundwater samples to an analytical laboratory for analyses. The PSA indicated that gasoline constituents were present in soil and groundwater at the site.

In June 1995, monitoring well MW-4 was installed and sampled. All four monitoring wells were sampled in June, September and December of 1995, March, June, and September of 1996, and January of 1997 as requested by the *ACDEH*. Additionally, groundwater elevations were measured each quarter as part of the quarterly groundwater monitoring program.

III. GROUNDWATER SAMPLING ACTIVITIES

Activities for the First Quarter 1997 monitoring event included sampling and measuring the groundwater elevation of all four monitoring wells (MW-1 through MW-4). The work was conducted by *AllWest* personnel on April 11, 1997.

AllWest's groundwater sampling protocols, presented in Appendix A of this report, were followed. Groundwater parameters including conductivity, temperature, and pH were collected at three gallon intervals and recorded on the sampling logs (See Appendix B). At least three well casing volumes were purged prior to sampling. After purging, three 40-milliliter samples were collected from each of the four monitoring wells. No product sheen was noted.

The April 11, 1997 groundwater levels as well as the cumulative groundwater level measurements from wells MW-1 through MW-4 are presented in Table 1. Groundwater flow direction was calculated to be towards the northwest with an average gradient of 0.005 ft/ft. A groundwater surface elevation contour map is presented in Figure 4.

IV. LABORATORY TEST RESULTS

The four collected water samples were submitted to a State of California certified analytical laboratory, *Global Environmental Laboratory, Inc.* (*Global Lab*), of Fremont, California. All water samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX).

The laboratory results indicated concentrations of TPH-g at 4,000 μg/L (approximately equivalent to parts per billion [ppb]) in well MW-2 only. No TPH-g was detected in samples from MW-1, MW-3, and MW-4 at or above the laboratory reporting limit of 50 ppb. BTEX concentrations for MW-2 were reported as 520 ppb Benzene, 4.8 ppb Toluene, 120 ppb Ethylbenzene, and 180 ppb Xylene. No BTEX concentrations were detected in MW-1, MW-3, and MW-4 at or above the laboratory reporting limit of 0.5 ppb.

A review of the laboratory internal quality assurance/quality control (QA/QC) information indicates the spike data were within the laboratory recovery limits. The sample was analyzed within the acceptable EPA holding time. Therefore, the laboratory results reported by *Global* are considered to be representative and of good quality.

A cumulative summary of analytical results for wells MW-1 through MW-4 to date are presented in Table 2. A copy of the laboratory test reports and Chain-of-Custody documents of this quarterly monitoring event are included as Appendix C.

V. CONCLUSIONS

As indicated by the laboratory test results, low levels of TPH-g and BTEX were detected in groundwater samples from monitoring well MW-2. The concentrations of TPH-g and BTEX in well MW-2 are within the historical range of previous sampling results. The non-detectable results from MW-1, MW-3 and MW-4 continue to indicate the extent of contaminated groundwater is stable and limited to the immediate vicinity of MW-2.

VI. REPORT LIMITATIONS

The work described in this report has been performed accordance with generally accepted engineering principles an practices. The conclusions and recommendations contained herein are presented based on environmental conditions of the site and laboratory test results of the groundwater sample. It must be recognized that changes can occur in groundwater conditions due to seasonal variations, or other reasons. Furthermore, the distribution of chemical concentrations in the groundwater can vary both temporally and spatially. The chemical analyses results are valid as of the date and at the sampling location only. *AllWest* cannot be held accountable for the accuracy of the test data from an independent laboratory, nor for any analyte quantities falling below the recognized standard detection limits for the method utilized by the independent laboratory.

R96208.28E

TABLE 1
CUMULATIVE SUMMARY OF GROUNDWATER ELEVATION MEASUREMENTS

1055 Eastshore Highway
Albany, California

Well Number and Sampling Date	Well Casing Elevation	Depth to Water (In feet)	Groundwater Elevation (Assumed Datum equals 12')	Change Since Last Measurement (In feet)	Average Hydraulic Gradient
MW-1					
6/28/94	6.62 feet	6.06	0.56		0.009 ft/ft SSE
6/29/94		6.04	0.58	+0.02	0.004 ft/ft WNW
7/20/94		6.08	0.54	-0.04	0.003 ft/ft S
6/9/95		4.85	1.77	+1.53	0.004 ft/ft SW
6/29/95		4.79	1.90	+0.13	0.005 ft/ft SW
9/7/95		5.90	0.72	-1.18	0.004 ft/ft SW
12/20/95		3.98	2.64	+1.92	0.005 ft/ft SW
3/22/96		3.55	3.07	+0.43	0.007 ft/ft SE
6/21/96		5.20	1.42	-1 65	0.005 ft/ft W
9/17/96		5.86	0.76	-0.66	0.003 ft/ft NW
1/17/97		3.35	3.27	+2.51	0.005 ft/ft SW
4/11/97		4.88	1.74	-1.53	0.005 ft/ft NW
MW-2					
6/28/94	6.92 feet	6.26	0.66		0.009 ft/ft SSE
6/29/94		6.34	0.58	-0.08	0.004 ft/ft WNW
7/20/94		6.33	0.59	+0.01	0.003 ft/ft S
6/9/95		5.13	1.79	+1.20	0.004 ft/ft SW
6/29/95		4.99	1.93	+0.14	0.005 ft/ft SW
9/7/95		6.23	0.69	-1.24	0.004 ft/ft SW
12/20/95		4.12	2.80	+2.11	0.005 ft/ft SW
3/22/96		3.70	3.33	+0.42	0.007 ft/ft SE
6/21/96		5.44	1.48	-1.85	0.005 ft/ft W
9/17/96		6.11	0.81	-0.67	0.003 ft/ft NW
1/17/97		3.51	3.41	+2.60	0.005 ft/ft SW
4/11/97		5.15	1.77	-1.64	0.005 ft/ft NW
MW-3					
6/28/94	7.02 feet	6.30	0.72		0.009 ft/ft SSE
6/29/94		6.29	0.73	+0.01	0.004 ft/ft WNW
7/20/94		6.36	0.66	-0.07	0.003 ft/ft S
6/9/95		5.16	1.86	+1.20	0.004 ft/ft SW
6/29/95		5.03	1.99	+0.13	0.005 ft/ft SW
9/7/95		6.42	0.60	-1.39	0.004 ft/ft SW
12/20/95		4.02	3.00	+1.61	0.005 ft/ft SW
3/22/96		3.67	3.35	+0.35	0.007 ft/ft SE
6/21/96		5.45	1.57	-1.78	0.005 ft/ft W
9/17/96		6.17	0.85	-0.72	0.003 ft/ft NW
1/17/97		3.46	3.56	+2.71	0.005 ft/ft SW
4/11/97		5.13	1.89	-1.67	0.005 ft/ft NW

Well Number and Sampling Date	Well Casing Elevation	Depth to Water (In feet)	Groundwater Elevation (Assumed Datum equals 12')	Change Since Last Measurement (In feet)	Average Hydraulic Gradient
MW-4					
6/29/95	6.46 feet	4.60	1.86		0.005 ft/ft SW
9/7/95		5.79	0.64	-1.22	0.004 ft/ft SW
12/20/95		3.66	2.80	+2.16	0.005 ft/ft SW
3/22/96		3.29	3.17	+0.37	0.007 ft/ft SE
6/21/96		4.93	1.53	-1.64	0.005 ft/ft W
9/17/96		5.62	0.84	-0.69	0.003 ft/ft NW
1/17/97		3.07	3.39	+2.55	0.005 ft/ft SW
4/11/97		4.60	1.86	-1.53	0.005 ft/ft NW

Note: MW-1 through MW-3 were installed in June 1994, MW-4 was installed in June 1995.

TABLE 2
CUMULATIVE SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

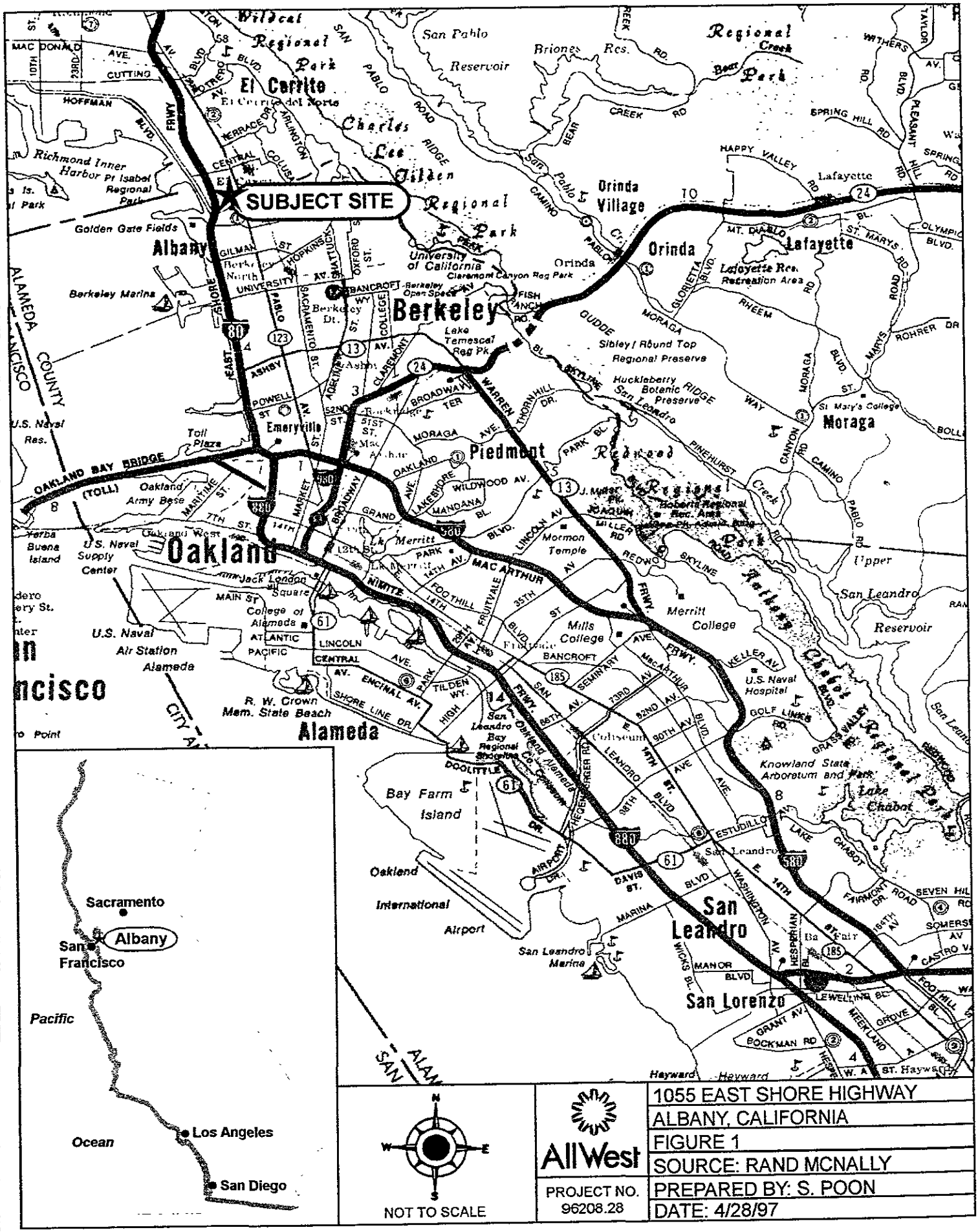
1055 Eastshore Highway
Albany, California

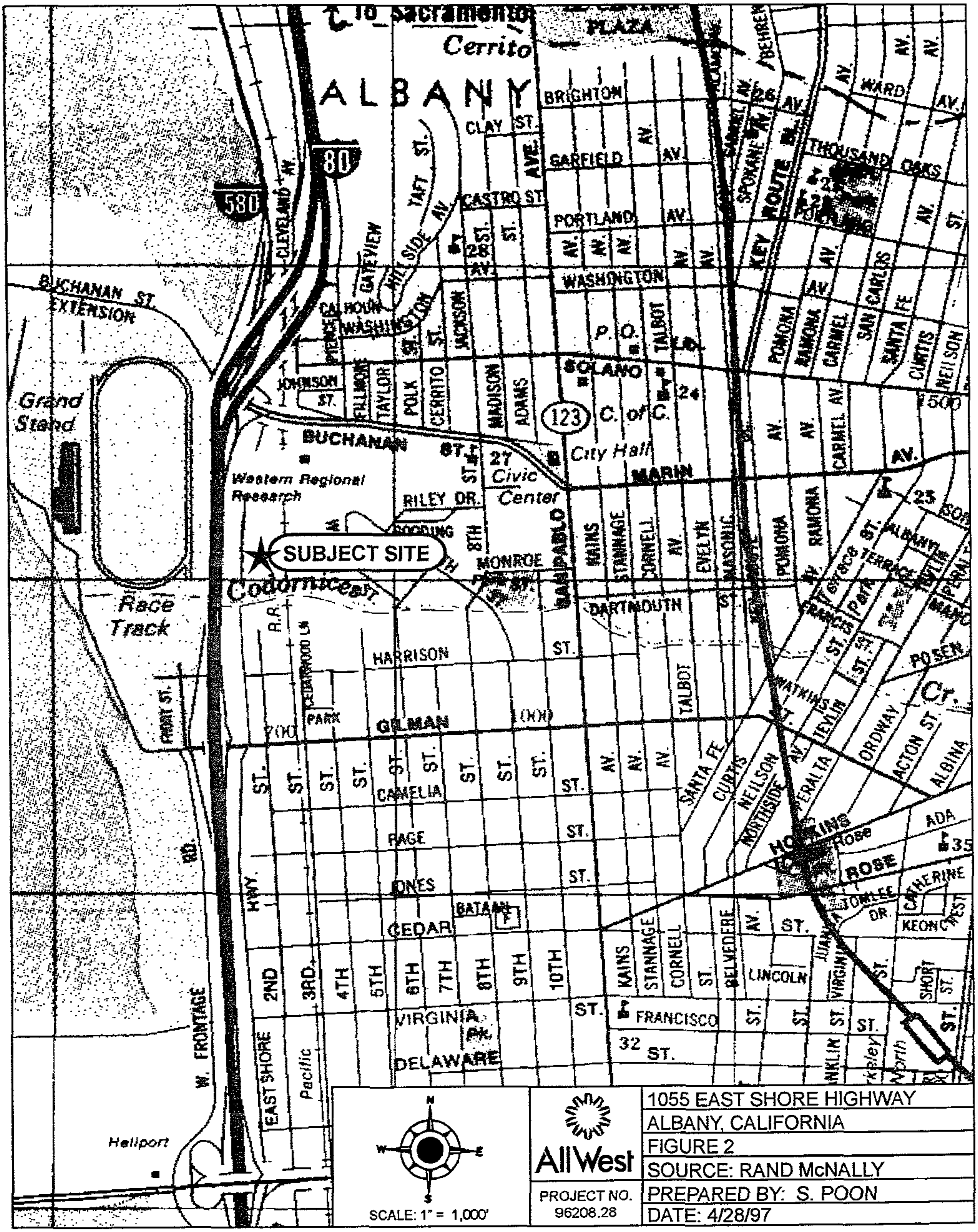
Monitoring Well No. and Sampling Date	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes
MW-1					
6/23/94	ND (<50)	ND (<0.3)	0.60	2.5	9.0
6/29/95	ND (<50)	0.8	ND (<0.5)	1.3	3.2
9/7/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
12/20/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
3/22/96	ND (<50)	ND (<0.5)	2.5	ND (<0.5)	2.2
6/21/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/17/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
1/17/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
4/11/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
MW-2					
6/23/94	330	130	11	20	10
6/29/95	3,800	260	9.8	190	310
9/7/95	2,700	100	1.9	92	210
12/20/95	1,500	170	50	30	170
3/22/96	4,500	920	30	360	1,300
6/21/96	1,100	140	1.6	62	160
9/17/96	190	9.0	8.2	10	26
1/17/97	9,700	1,200	140	440	1,300
4/11/97	4,000	520	4.8	120	180
MW-3					
6/23/94	52.0	ND (<0.3)	ND (<0.3)	4.0	13
6/29/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/7/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
12/20/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
3/22/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
6/21/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/17/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
1/17/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
4/11/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)

Monitoring Well No. and Sampling Date	TPH-Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes
MW-4					
6/29/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/7/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
12/20/95	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
3/22/96	60	0.8	2.8	1.1-ppb	4.7
6/21/96	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
9/17/96	ND (<50)	ND (<0.5)	2.3	ND (<0.5)	1.4
1/17/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)
4/11/97	ND (<50)	ND (<0.5)	ND (<0.5)	ND (<0.5)	ND (<0.5)

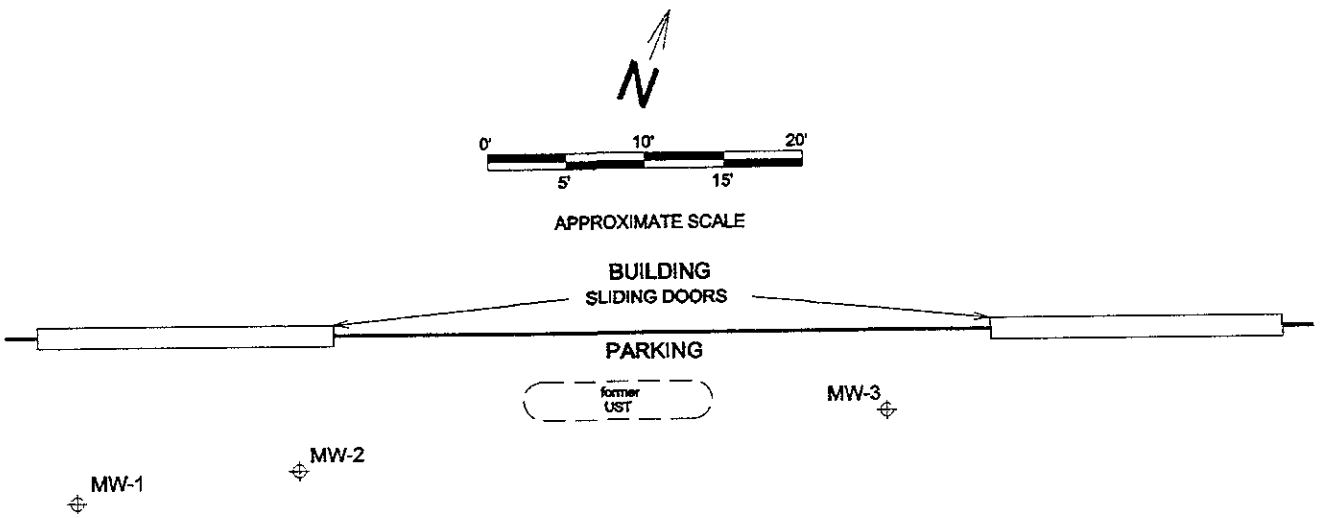
Notes:

1. ND = Not-detected at or above the laboratory reporting limit indicated in parenthesis.
2. All numerical values are in units of μg/L, approximately equivalent to ppb.
3. MW-4 installed June 1995.


SUBJECT SITE
Albany
Berkeley
Emeryville
Oakland
Alameda
Piedmont
Orinda
Lafayette
Moraga
San Leandro
San Lorenzo
Bay Farm Island
Oakland International Airport
Merritt College
Mills College
College of Alameda
U.S. Naval Air Station Alameda
U.S. Naval Supply Center
Oakland Army Base
Toll Plaza
OAKLAND BAY BRIDGE (TOLL)
Berkeley Marina
Golden Gate Fields
Richmond Inner Harbor
Point Isabel Regional Park
Wildcat Regional Park
Charles Lee Tilden Regional Park
San Pablo Reservoir
Briones Res.
Las Trampas Regional Wilderness
Redwood Regional Park
Chabot Regional Park
Lake Chabot
Lake Temescal Reg Pk
Claremont Canyon Reg Park
Sibley / Round Top Regional Preserve
Huckleberry Botanic Preserve
Lafayette Res. Recreation Area
Knowland State Arboretum and Park
San Leandro Bay Regional Shoreline
San Leandro Marina
R. W. Crown Mem. State Beach
Jack London Square
Lake Merritt
Mormon Temple
U.S. Naval Hospital
Colseum
Fruitvale
Orinda Village
University of California
Berkeley Open Space
Rockridge
Ashby
North Berkeley
Berkeley Dt.
Oakland West
Yerba Buena Island
ALAMEDA COUNTY
SAN FRANCISCO
CITY OF SAN LEANDRO
Sacramento
Albany
San Francisco
Pacific
Ocean
Los Angeles
San Diego
NOT TO SCALE
AllWest
PROJECT NO. 96208.28
1055 EAST SHORE HIGHWAY
ALBANY, CALIFORNIA
FIGURE 1
SOURCE: RAND MCNALLY
PREPARED BY: S. POON
DATE: 4/28/97


To Sacramento
PLAZA
Cerrito
ALBANY
SUBJECT SITE
Grand Stand
Race Track
Western Regional Research
Civic Center
City Hall
C. of C.
P.O.
BUCHANAN ST. EXTENSION
BUCHANAN ST.
SOLANO
MARIN AV.
WASHINGTON
BRIGHTON
GARFIELD AV.
PORTLAND AV.
CLAY ST.
CASTRO ST.
CLEVELAND AV.
TAFT ST.
GATEVIEW
HILLSIDE AV.
CALHOUN
PIERCE
JOHNSON ST.
FILLMORE
TAYLOR
POLK
CERRITO
JACKSON
MADISON
ADAMS
SAN PABLO
KAINS
STANNAGE
CORNELL AV.
EVELYN
MASONIC
POMONA
RAMONA
CARMEL AV.
SAN CARLOS
SANTA FE
CURTIS
NEILSON
THOUSAND OAKS
WARD
RILEY DR.
GOODING
MONROE
Codornices
DARTMOUTH
HARRISON ST.
FRONT ST.
R.R.
CEDARWOOD LN
PARK
GILMAN
700
1000
CAMELIA
PAGE ST.
JONES ST.
BATAAN
CEDAR
2ND
3RD.
4TH
5TH
6TH
7TH
8TH
9TH
10TH
VIRGINIA
DELAWARE
FRANCISCO
32 ST.
LINCOLN
BELVEDERE
NORTHSIDE
PERALTA
TEVLIN
ORDWAY
ACTON ST.
ALBINA
HOPKINS
ROSE
ADA
CATHERINE
JOSLEE DR.
KEONCREST
SHORT ST.
WATKINS
POSEN
W. FRONTAGE RD.
EAST SHORE HWY.
Pacific
Heliport
80
580
123
N
S
E
W
SCALE: 1" = 1,000'
AllWest
PROJECT NO. 96208.28

1055 EAST SHORE HIGHWAY
ALBANY, CALIFORNIA
FIGURE 2
SOURCE: RAND McNALLY
PREPARED BY: S. POON
DATE: 4/28/97



WELL LOCATION MAP

EXPLANATION

MW-1 ⊕ = MONITORING WELL LOCATION

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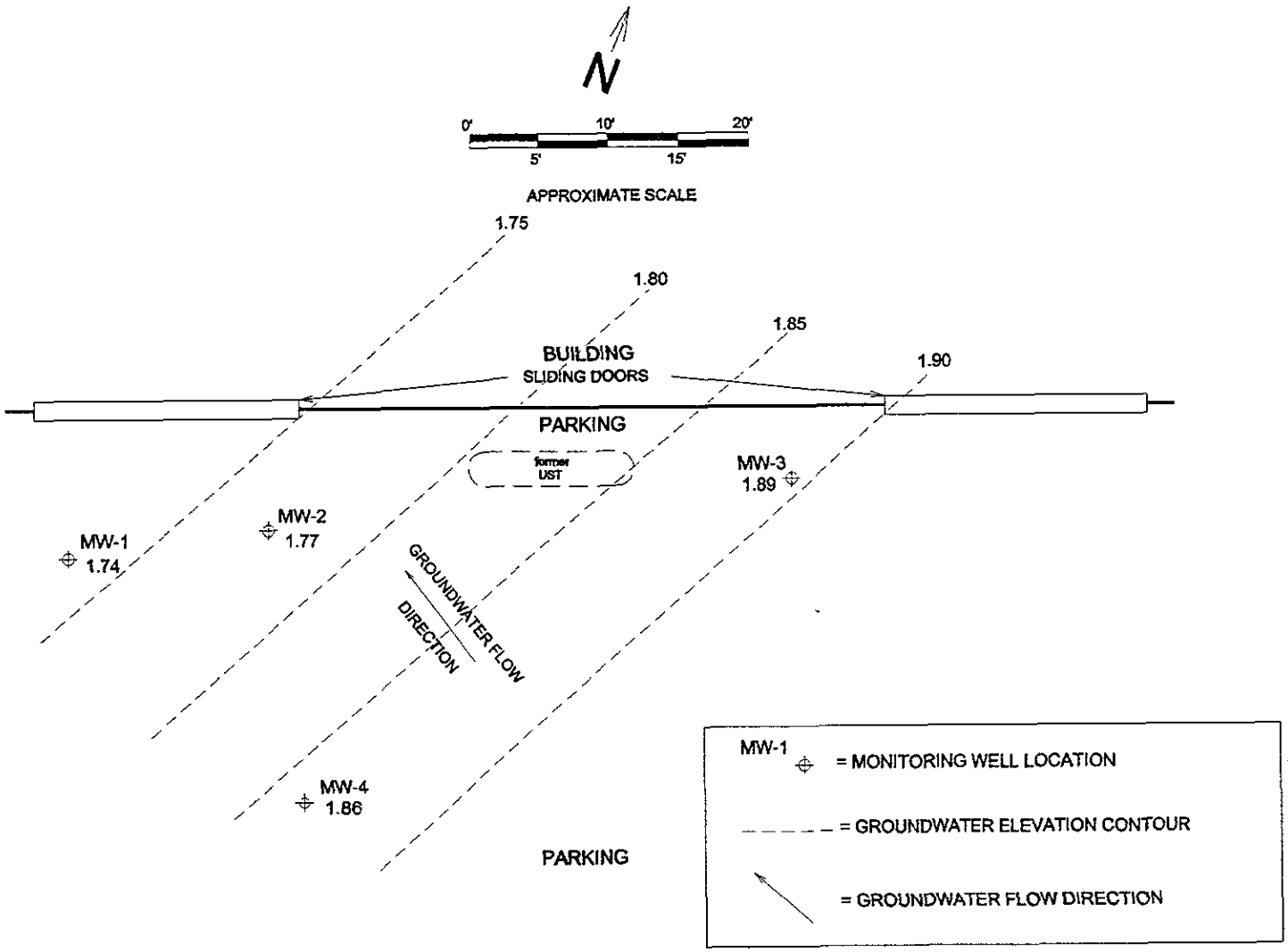
PROJECT NO. 96208.28

1055 EAST SHORE HIGHWAY
ALBANY, CALIFORNIA
FIGURE 3
SOURCE: ALLWEST
DRAWN BY: S. POON
DATE: 4/28/97



GROUNDWATER CONTOUR MAP

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	1055 EASTSHORE HIGHWAY
	ALBANY, CALIFORNIA
	FIGURE 4
	SOURCE: ALLWEST
PROJECT NO. 96208.28	DRAWN BY: S. POON
	DATE: 4/28/97

Appendix A

GROUNDWATER SAMPLING PROCEDURES

Upon arriving at the groundwater monitoring well site, each monitoring well vault and well casing are first examined for damage which could render the well inoperable. Any water collected during the recent rains were purged from the well vault to avoid contamination from rain water. The upper end-cap was then removed and an organic vapor meter (OVM) was used to detect hydrocarbon vapor that might exist inside the well casing. The reading of the OVM was then recorded onto the groundwater sampling field log. After an appreciable time for groundwater levels to equilibrate, electric water level sounder was lowered into the well casing to measure the depth to water to the nearest 0.01 feet. A clear polyethylene bailer was then lowered into the well casing and partially submerged. Upon retrieval of the clear bailer, the surface of the water column retained in the bailer was carefully examined for floating product or product sheen.

After initial measurements were completed and recorded, each monitoring well was purged by an electrical submersible pump or decontaminated teflon bailer. A minimum of 3 well volumes of groundwater was purged. Groundwater quality parameters (temperature, pH, and conductivity) were monitored with a combination meter after each well volume was removed. Purging was considered complete when purging indicators were stabilized (consecutive readings within 10% of each other) or the purged water was relatively free of sediments. All purged water was temporarily stored on-site in labeled 55-gallon drums pending test results to determine the proper disposal method. If no contamination was found then the purge water was disposed of as nonhazardous.

Groundwater sampling was conducted after the water level in the well recovered to at least 80% of the initial level that was recorded before purging. The groundwater sample was collected using a disposable bailer, which was discarded after the sampling event. Upon retrieval of the disposable bailer, the retained water was carefully transferred to appropriate glass container(s) (three 40-ml VOAs) furnished by the analytical laboratory. A bottom emptying device was placed on the bailer to minimize the loss of volatile organic compounds during transfer. All sample containers were fitted with teflon lined septum/cap and filled such that no headspace was present. After the water sample was properly transferred to the appropriate containers, the containers were labeled and immediately placed on ice in an insulated cooler to preserve the chemical characteristics of the sample.

To prevent cross contamination, all groundwater sampling equipment that came into contact with the groundwater was thoroughly cleaned by washing in Alconox (a non-phosphate detergent) solution and double rinsed with distilled water prior to each well sampling event. Groundwater samples were stored and transported in an insulated cooler filled with crushed ice. The analytical laboratory collected the samples from the site or from the *AllWest* office. The samples were delivered to the analytical laboratory by a special courier of the laboratory. All samples were transported under strict Chain-of-Custody document protocol from the time of sample collection to the time of arrival at the laboratory.

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GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Project No.: 96208.28 Project Name: Albany

Well No.: MW-1 Well Location: _____

Well Depth: 20 (ft.) Casing Diameter: 2 (in.)

Depth to Water: 4.88 (ft.) Date: 04/11/97 Time: 9:32

Water Column in Well: 15.22 (ft.) Well Volume: 2.6 (gal.)

Odor? no Free Product? n/a Thickness: n/a

Purging Method: Hand Pump ___ Submersible Pump ___ Bailer X Other ___

Time	pH	Conduc. (μS)	Water Temp (F°)	Water Level	Volume Removed	Remarks
9:45	8.01	1648	68.1		2.5	
9:50	7.79	1640	67.8		5.0	
9:55	7.68	1632	67.3		7.5	
9:58	7.57	1646	66.9		8.5	

Purging Start Time: 9:40 Purging Stop Time: 9:58

Total Volume Purged: 8.5 (gal.) Well Dewater? no

Water Level Prior to Sampling: 4.97 (ft.) Time: 10:05

Sampling Method: Teflon Bailer ___ Disposable Bailer X Sampling Pump ___

Sample Collected: 3 X 40 - ml Sample No.: MW-1

Remarks: _____

Sampler: L. Ching Date/Time: 4/11/97 10:15

LC\96208-mwl

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GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Project No.: 96208.28 Project Name: Albany

Well No.: MW-2 Well Location: _____

Well Depth: 20 (ft.) Casing Diameter: 2 (in.)

Depth to Water: 5.15 (ft.) Date: 04/11/97 Time: 9:34

Water Column in Well: 14.85 (ft.) Well Volume: 2.5 (gal.)

Odor? yes Free Product? n/a Thickness: n/a

Purging Method: Hand Pump ___ Submersible Pump ___ Bailer X Other ___

Time	pH	Conduc. (μS)	Water Temp (F°)	Water Level	Volume Removed	Remarks
12:20	7.21	1130	69.1		2.5	
12:25	7.13	1095	68.6		5.0	
12:30	6.99	1088	68.2		7.5	

Purging Start Time: 12:15 Purging Stop Time: 12:30

Total Volume Purged: 7.5 (gal.) Well Dewater? no

Water Level Prior to Sampling: 5.22 (ft.) Time: 12:35

Sampling Method: Teflon Bailer ___ Disposable Bailer X Sampling Pump ___

Sample Collected: 3 X 40 - ml Sample No.: MW-4

Remarks: _____

Sampler: L. Ching Date/Time: 4/11/97 12:50

AllWest

GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Project No.: 96208.28 Project Name: Albany

Well No.: MW-3 Well Location: _____

Well Depth: 20 (ft.) Casing Diameter: 2 (in.)

Depth to Water: 5.13 (ft.) Date: 04/11/97 Time: 9:30

Water Column in Well: 14.87 (ft.) Well Volume: 2.5 (gal.)

Odor? no Free Product? n/a Thickness: n/a

Purging Method: Hand Pump ___ Submersible Pump ___ Bailer X Other ___

Time	pH	Conduc. (μS)	Water Temp (F°)	Water Level	Volume Removed	Remarks
11:25	7.58	1361	69.1		2.5	
11:30	7.63	1348	68.8		5.0	
11:35	7.62	1336	68.5		7.5	

Purging Start Time: 11:20 Purging Stop Time: 11:35

Total Volume Purged: 7.5 (gal.) Well Dewater? no

Water Level Prior to Sampling: 5.20 (ft.) Time: 11:40

Sampling Method: Teflon Bailer ___ Disposable Bailer X Sampling Pump ___

Sample Collected: 3 X 40 - ml Sample No.: MW-3

Remarks: _____

Sampler: L. Ching Date/Time: 4/11/97 12:00

AllWest

GROUNDWATER MONITORING WELL SAMPLING FIELD LOG

Project No.: 96208.28 Project Name: Albany

Well No.: MW-4 Well Location: _____

Well Depth: 24 (ft.) Casing Diameter: 2 (in.)

Depth to Water: 4.60 (ft.) Date: 04/11/97 Time: 9:28

Water Column in Well: 19.40 (ft.) Well Volume: 3.2 (gal.)

Odor? no Free Product? n/a Thickness: n/a

Purging Method: Hand Pump ___ Submersible Pump ___ Bailer X Other ___

Time	pH	Conduc. (μS)	Water Temp (F°)	Water Level	Volume Removed	Remarks
10:35	7.72	1396	67.4		2.5	
10.40	7.68	1335	67.1		5.0	
10:45	7.71	1364	66.8		7.5	
10:50	7.59	1330	66.5		10.0	

Purging Start Time: 10:30 Purging Stop Time: 10:50

Total Volume Purged: 10 (gal.) Well Dewater? no

Water Level Prior to Sampling: 4.73 (ft.) Time: 10:55

Sampling Method: Teflon Bailer ___ Disposable Bailer X Sampling Pump ___

Sample Collected: 3 X 40 - ml Sample No.: MW-4

Remarks: _____

Sampler: L. Ching Date/Time: 4/11/97 11:10

GE Global Enviromental Laboratory, Inc.
4118 CLIPPER COURT, FREMONT, CA 94538 PHONE (510) 498-1991 FAX (510) 498-1994

April 18, 1997

All West Environmental, Inc.
One Sutter Street, Suite 600
San Francisco, CA 94104

Regarding: **Analytical Results**
Client Project: 96208.28
Global Lab Project: 970414A

Dear Mr. Long Ching:

Enclosed are the lab results for the samples submitted to Global Lab for the project above. The samples will be disposed of by the laboratory after 30 days from the time they were received.

We appreciate the opportunity to be of assistance to you. If you have any questions or comments, please feel free to contact me at (510) 498-1991.

Sincerely,

Lisheng Wu
Laboratory Manager

GE Global Enviromental Laboratory, Inc.
4118 CLIPPER COURT, FREMONT, CA 94538 PHONE (510) 498-1991 FAX (510) 498-1994

DHS (LUFT) TPH-BTEX REPORT
(ug/L)

Client:	Long Ching All West Environmental, Inc. One Sutter Street, Suite 600 San Francisco, CA 94104	Date Sampled:	04-11--97
		Date Received:	04-14-97
		Date Analyzed:	04-17-97
		Date Reported:	04-18-97
Project:	96208.28	Lab Job #:	970414A
Matrix:	Water		

Client I.D.	Lab. I.D.		Benzene	Toluene	Ethyl Benzene	Total Xylenes	Dilution Factor
MW-1	970414A01		ND	ND	ND	ND	1
MW-2	970414A02		520	4.8	120	180	1
MW-3	970414A03		ND	ND	ND	ND	1
MW-4	970414A04		ND	ND	ND	ND	1
Reporting Limit			0.5 ug/L	0.5 ug/L	0.5 ug/L	0.5 ug/L	

ND Not Detected. All analytes recorded as ND were found to be at or below the Reporting Limit.

Reviewed By:

Lisheng Wu, Laboratory Mnager

ELAP#: 2132

GE Global Enviromental Laboratory, Inc.
4118 CLIPPER COURT, FREMONT, CA 94538 PHONE (510) 498-1991 FAX (510) 498-1994

DHS (LUFT) TPH-GASOLINE REPORT

(ug/L)

Client:	Long Ching	Date Sampled:	04-11--97
	All West Environmental, Inc.	Date Received:	04-14-97
	One Sutter Street, Suite 600	Date Analyzed:	04-17-97
	San Francisco, CA 94104	Date Reported:	04-18-97
Project:	96208.28	Lab Job #:	970414A
Matrix:	Water		

Client I.D.	Lab. I.D.			8015M Gasoline			Dilution Factor
MW-1	970414A01			ND			1
MW-2	970414A02			4000			1
MW-3	970414A03			ND			1
MW-4	970414A04			ND			1
Reporting Limit				50 ug/L			

ND Not Detected. All analytes recorded as ND were found to be at or below the Reporting Limit.

Reviewed By:

Lisheng Wu, Laboratory Mnager

ELAP#: 2132

EPA METHOD TEST QA/QC TABLE

GLOBAL PROJECT #: 970414A

Lab I.D.:	970414A-MSP	Analytical Method:	EPA M8015
Project:	96208.28	Analysis date:	04-17-97
Ext/Prep. Method:	EPA 5030	Matrix:	Water
Date:	04-17-97	Unit:	ug/L

Analyte	Sample Result	Spike Level	Matrix Spike Result	MS Recovery %	Matrix Spike Dul. Result	MSD Recovery %	Average Recovery %R	LCL %R	UCL %R	RPD %	UCL %RPD
Benzene	0.0	20.0	19.95	99.8	19.03	95.2	97.5	76.0	127.0	4.7	11.0
Toluene	0.0	20.0	16.57	82.9	15.70	78.5	80.7	76.0	125.0	5.4	13.0
Chlorobenzene	0.0	20.0	16.69	83.5	15.99	80.0	81.7	75.0	130.0	4.3	13.0
Gasoline	0.0	1000.0	827	82.7	836	83.6	83.1	70.0	130.0	1.1	30.0

Notes:
Sample Result-Concentration of Sample which is to used for Sample Spike & Sample Spike Duplicate
Spike Level- Level of Concentration Added to the Sample
MSP Result- Matrix Spike Result
MSP %R- Matrix Spike Percent Recovery
MSPD Result- Matrix Spike Duplicate Result
MSPD %R- Matrix Spike Dublicate Percent Recovery
AVG. %R - Average Recovery for MSP & MSPD % Recovery
LCL- Lower Criteria Level
UCL- Upper Criteria Level
RPD- Relative Percent Difference

GE Global Environmental Laboratory, Inc.
Tel: (510) 498-1991 Fax: (510) 498-1994

CHAIN OF CUSTODY

LOG NO. 1075

CLIENT NAME: ALLWEST ENVIRONMENTAL
ADDRESS: ONE SUTTER ST, #600
SAN FRANCISCO, CA 94104
PROJECT NAME: ALBANY
PROJECT MANAGER: LONG CHING PHONE #: 415-391-2510
SAMPLED BY: L. CHING
JOB DESCRIPTION:
SITE LOCATION:

CLIENT JOB NUMBER: 96208.28

DESTINATION LABORATORY:
☑ GE
4118 Clipper Court
Fremont, CA 94538
☐ Other

FIELD CONDITIONS:
COMPOSITE:
SPECIAL INSTRUCTIONS:

DATE	TIME	SAMPLE IDENTIFICATION	METHOD	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	ANALYSIS REQUESTED: TPH-G/BTEX	TURN AROUND TIME: 24 HOURS	48 HOURS	1 WEEK	OTHERS	NOTE / FIELD READINGS
4/11/97		MW-1		WATER	3	40ML	1,3	X			X		
4/11/97		MW-2		WATER	3	40ML	1,3	X			X		
4/11/97		MW-3		WATER	3	40ML	1,3	X			X		
4/11/97		MW-4		WATER	3	40ML	1,3	X			X		
		TRIP BLANK		WATER	1	40ML	3						

SUSPECTED CONSTITUENTS:
SAMPLE RETENTION TIME:
PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4)

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
Long Ching	LONG CHING / ALLWEST	4/14/97 9:50		Bret Fisse
				#992
				13:40 4/14/97

REC'D AT LAB BY:
DATE / TIME:
CONDITIONS / COMMENTS:

SHIPPED VIA: ☐ FED X ☐ UPS ☐ OTHER _____ AIR BILL #