SONNENSCHEIN NATH & ROSENTHAL

1301 K STREET NW

CHICAGO LOS ANGELES NEW YORK SAN FRANCISCO ST. LOUIS SUITE 600, EAST TOWER WASHINGTON, D.C. 20005

(202) 408-6400 FACS!MILE (202) 408-6399

John S. Hahn (202) 408-6430

April 23, 1996

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:

On behalf of Amfac Distribution Corporation ("ADC"), I am submitting the Groundwater Monitoring Report for the First Quarter of 1996 and the risk evaluation. Based on the risk assessment conclusions, ADC requests that the County determine that this matter has been appropriately closed.

Sincerely,

John S. Hahn

cc: John Frank (w/enclosure)

Marc Cunningham (w/o enclosure)
John T. Lynch (w/o enclosure)
Randall T. Smith (w/enclosure)

8047674



AllWest Environmental, Inc.

Specialists in Environmental Due Diligence and Remedial Services

One Sutter Street, Suite 600 San Francisco, Ca 94104 Tel 415.391 2510 Fax 415 391 2008

GROUNDWATER MONITORING REPORT First Quarter 1996

1055 Eastshore Highway Albany, California

ALLWEST PROJECT 95117.28 April 19, 1996

PREPARED BY:

Keith Craig Project Manager

REVIEWED BY:

Long Ching, PE Senior Engineer



TABLE OF CONTENTS

		•					
I.	INTRODUC	TION	Page 1				
II.	SITE HISTO	RY	Page 1				
III.	GROUNDWATER SAMPLING ACTIVITIES						
IV.	LABORATORY TEST RESULTS						
V.	CONCLUSIONS						
VI.	REPORT LIMITATIONS						
	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					
	APPENDICI	ES Appendix A - Groundwater Sampling Protocol Appendix B - Groundwater Sampling Field Logs Appendix C - Laboratory Test Results and Chain-of-Custody Re	ecords				



MONITORING WELLS SAMPLING REPORT First Quarter 1996

1055 Eastshore Highway Albany, California

I. INTRODUCTION

This report presents the First Quarter 1996 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), and 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.

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 (See 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, 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 1995 as requested by the *ACDEH*. Additionally, groundwater elevations were measured as part of the quarterly groundwater monitoring program.

III. GROUNDWATER SAMPLING ACTIVITIES

Activities for the First Quarter 1996 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 March 22, 1996.

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 March 22, 1996 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 southeast with an average gradient of 0.007-ft/ft.

TABLES

TABLE 1 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 6/29/94 7/20/94 6/29/95 6/29/95 9/7/95 12/20/95 3/22/96	6.62 feet	6.06 6.04 6.08 4.85 4.79 5.90 3.98 3.55	0.56 0.58 0.54 1.77 1.90 0.72 2.64 3.07	+0.02 -0.04 +1.53 +0.13 -1.18 +1.92 +9.43	0.009 ft/ft SSE 0.004 ft/ft WNW 0.003 ft/ft S 0.004 ft/ft SW 0.005 ft/ft SW 0.004 ft/ft SW 0.005 ft/ft SW 0.005 ft/ft SW		
		3.33	3.07	+ 0.40	0.007 1511 312		
MW-2 6/28/94 6/29/94 7/20/94 6/9/95 6/29/95 9/7/95 12/20/95 3/22/96	6.92 feet	6,26 6,34 6,33 5,13 4,99 6,23 4,12 3,70	0.66 0.58 0.59 1.79 1.93 0.69 2.80 3.33	-0.08 +0.01 +1.20 +0.14 -1.24 +2.11 +0.42	0.009 ft/ft SSE 0.004 ft/ft WNW 0.003 ft/ft S 0.004 ft/ft SW 0.005 ft/ft SW 0.004 ft/ft SW 0.005 ft/ft SW 0.007 ft/ft SE		
MW-3 6/28/94	7.02 feet	6.30 6.29	0.72 0.73	+0.01	0.009 ft/ft SSE 0.004 ft/ft WNW		
6/29/94 7/20/94 6/9/95 6/29/95 9/7/95 12/20/95 3/22/96		6.29 6.36 5.16 5.03 6.42 4.02 3.67	0.66 1.86 1.99 0.60 3.00 3.35	-0.07 +1.20 +0.13 -1.39 +1.61 +0.35	0.003 ft/ft S 0.004 ft/ft SW 0.005 ft/ft SW 0.004 ft/ft SW 0.005 ft/ft SW 0.007 ft/ft SE		
MW-4	-						
6/29/95 9/7/95 12/20/95 3/22/96	6.46 feet	4.60 5.79 3.66 3.29	1.86 0.64 2.80 3.17	-1,22 +2,16 +0,37	0.005 ft/ft SW 0.004 ft/ft SW 0.005 ft/ft SW 0.007 ft/ft SE		

Notes: MW-4 was installed in June 1995.

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 4,500 parts per billion (ppb) in well MW-2 and 60 ppb in well MW-4. Results from MW-1 and MW-3 indicated that the TPH-g concentrations were less than the laboratory detection limit of 50-ppb. BTEX concentrations for MW-2 were reported as 920-ppb Benzene, 30-ppb Toluene, 360-ppb Ethylbenzene, and 1,300-ppb Xylene. BTEX concentrations for MW-4 were reported as 0.8-ppb Benzene, 2.8-ppb Toluene, 1.1-ppb Ethylbenzene, and 4.7-ppb Xylene. BTEX concentrations for MW-1 were reported as Not Detected for Benzene, 2.5-ppb Toluene, Not Detected for Ethylbenzene, and 2.2-ppb Xylene. No detectable concentrations of BTEX were reported for well MW-3.

A 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 are displayed in Appendix C.

TABLE 2 SUMMARY OF GROUNDWATER CHEMICAL ANALYSIS RESULTS

1055 Eastshore Highway Albany, California

Monitoring Well No. and Sampling Date	TPH-Gasoline	Венхеле	Toluene	Ethylbenzene	Xylenes				
MW-1									
6/23/94 6/29/95 9/7/95 12/20/95 3/22/96	ND (<50) ND (<50) ND (<50) ND (<50) ND (<50)	ND (<0.3) 0.8-ppb ND (<0.5) ND (<0.5) ND (<0.5)	0.60-ppb ND (<0.5) ND (<0.5) ND (<0.5) 2.5-ppb	2.5-ppb 1.3-ppb ND (<0.5) ND (<0.5) ND (<0.5)	9.0-ppb 3.2-ppb ND (<0.5) ND (<0.5) 2.2-ppb				
MW-2									
6/23/94 6/29/95 9/7/95 12/20/95 3/22/96	330-ppb 3,800-ppb 2,700-ppb 1,500-ppb 4,500-ppb	130-ppb 260-ppb 100-ppb 170-ppb 920-ppb	11.0-ppb 9.8-ppb 1.9-ppb 50-ppb 30-ppb	20.0-ppb 190-ppb 92-ppb 30-ppb 360-ppb	10.0-ppb 310-ppb 210-ppb 170-ppb 1,300-ppb				
MW-3									
6/23/94 6/29/95 9/7/95 12/20/95 3/22/96	52.0-ppb ND (<50) ND (<50) ND (<50) ND (<50)	ND (<0.3) ND (<0.5) ND (<0.5) ND (<0.5) ND (<0.5)	ND (<0.3) ND (<0.5) ND (<0.5) ND (<0.5) ND (<0.5)	4.0-ppb ND (<0.5) ND (<0.5) ND (<0.5) ND (<0.5)	13.0-ppb ND (<0.5) ND (<0.5) ND (<0.5) ND (<0.5)				
MW-4									
6/29/95 9/7/95 12/20/95 3/22/96	ND (<50) ND (<50) ND (<50) 60-ppb	ND (<0.5) ND (<0.5) ND (<0.5) 0.8-ppb	ND (<0.5) ND (<0.5) ND (<0.5) 2.8-ppb	ND (<0.5) ND (<0.5) ND (<0.5) 1.1-ppb	ND (<0.5) ND (<0.5) ND (<0.5) 4.7-ppb				

Notes:

ND = Not-detected at or above the laboratory limit of detection.

NS = Not sampled on date indicated.

MW-4 installed June 1995.

V. CONCLUSIONS

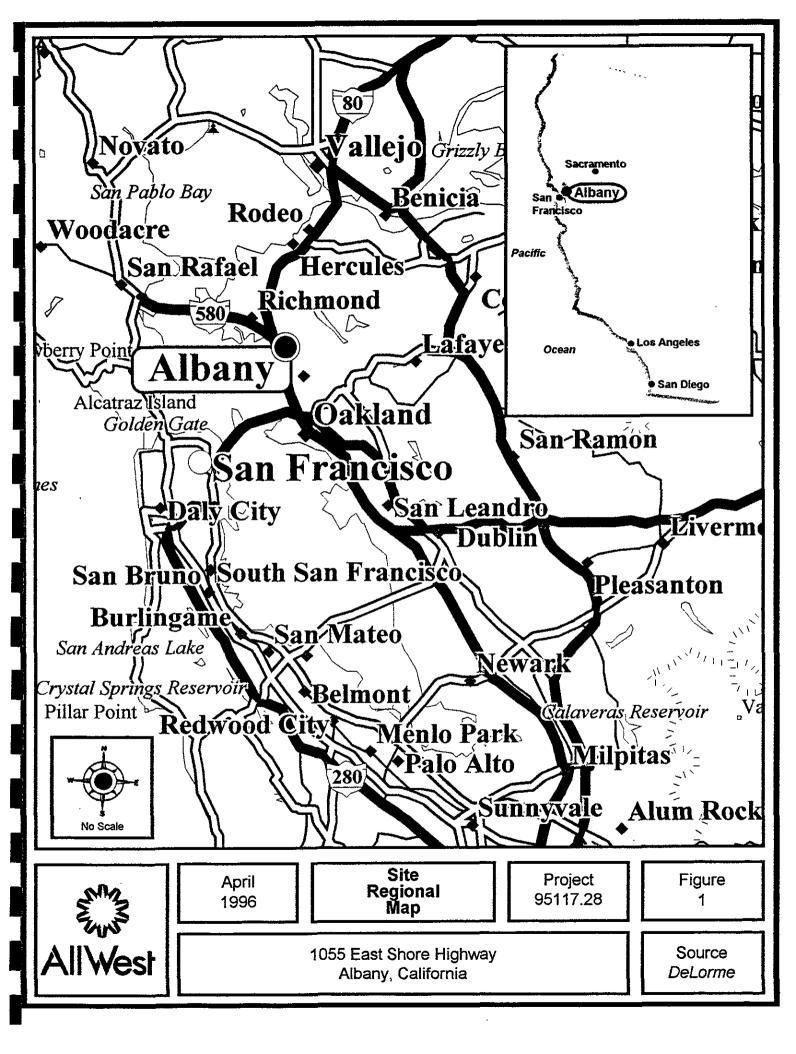
As indicated by the laboratory test results, TPH-g and/or BTEX were detected in groundwater samples from monitoring wells MW-1, MW-2 and MW-4. The concentration of TPH-g and BTEX in the wells is within the range of previous sample results. The non-detectable results from MW-3 and the low concentrations from MW-1 and MW-4 indicate that the extent of contaminated groundwater is limited and within the immediate vicinity of MW-2.

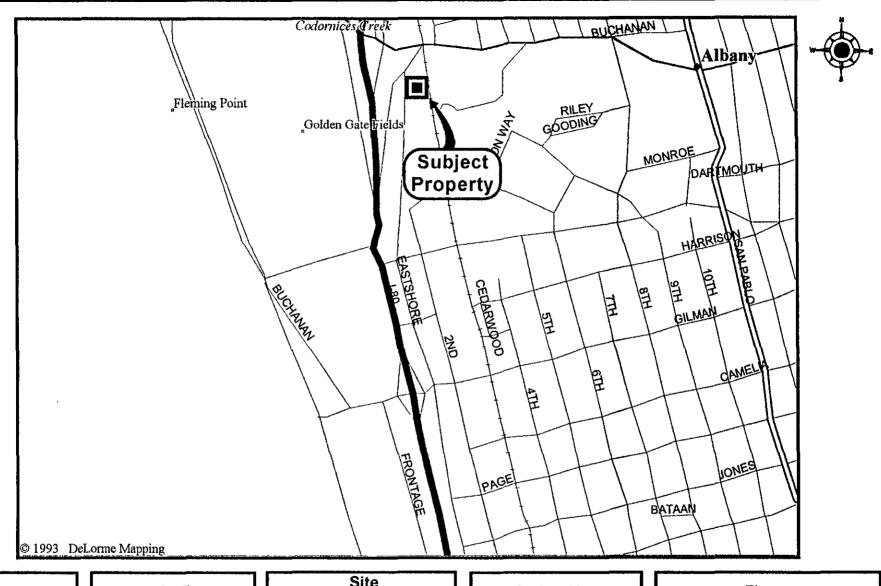
VI. REPORT LIMITATIONS

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.

KBC113: 95117-28.Q01

FIGURES





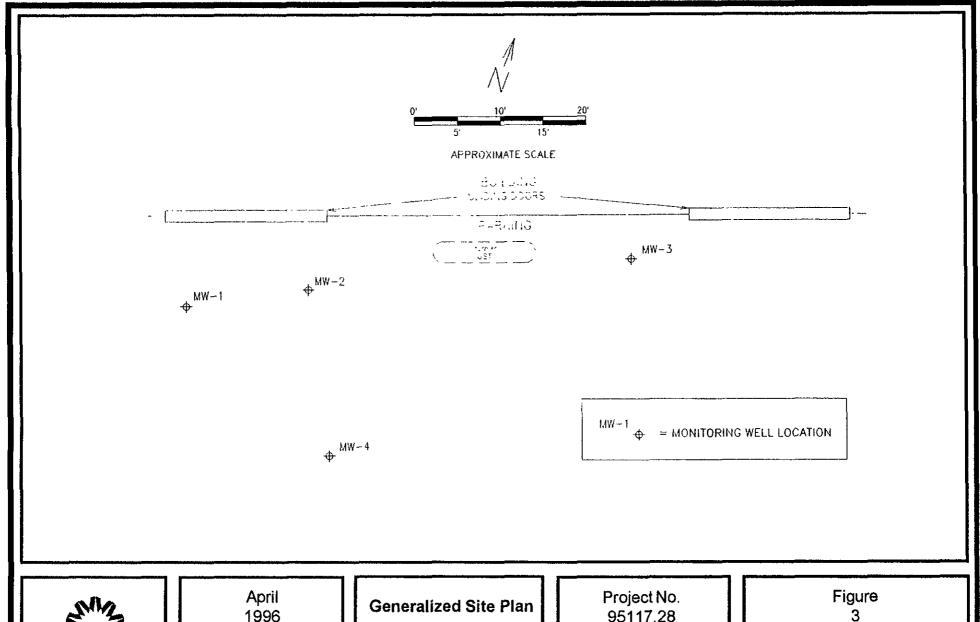


April 1996 Site Vicinity Map

Project No. 95117.28

Figure 2

1055 East Shore Highway Albany, California Scale 1" = 1300'





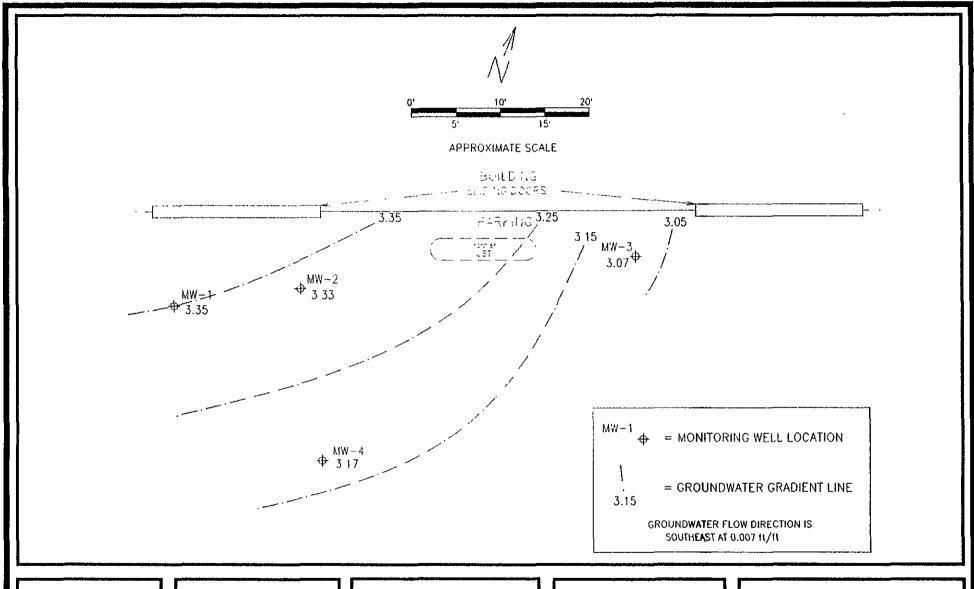
1996

Generalized Site Plan

Project No. 95117.28

Source **AllWest**

1055 East Shore Highway Albany, California





April 1996 **Groundwater Contour Map**

Project No. 95117.28

Figure 4

1055 East Shore Highway Albany, California Source AllWest

APPENDIX A



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.

APPENDIX B

Project No	o.: <u>95117</u> .	.28		Project Name: X Monitor							
Well No.:	MW-1			Well Location	on: Westernm	ost					
Well Dept	h: <u>24.95</u>	(ft.)		Casing Dian	neter: 2"	(in.)					
Depth to V	Water: 3.5	55 ((ft.)	Date: <u>3-22-</u>	96	Time:1120					
Water Col	umn in V	Vell: 21.40	(ft.)		Well Volum	ne: <u>3.42</u> (gal.)					
Odor? No)	Fre	ee Product?	_=	Thie	ckness:					
Purging M	fethod:	Hand Pun	np S	ubmersible I	Pump X	Bailer Other					
Time	pН	Conduc. (µS)	Temp. (°F)	Water Level	Volume Removed	Remark					
1335	7.33	1900	72.3		1.0						
1337	6.88	1930	70.2		5.0	Slight Turbidity					
1339	6.78	1933	68.8		7.5	Slight Turbidity					
1341	6.80	1920	67.9		10.5	Slight Turbidity					
1343	6.75	1973	67.5		14.0	Slight Turbidity					
1345	6.74	1957	67.7		16.0	Slight Turbidity					
Purging S	tart Time	: 1333			Purging St	op Time: <u>1346</u>					
Total Vol	ume Purg	ed: <u>16.0</u>	(g	al.)	Well Dewa	iter? No					
Water Lev	vel Prior	to Sampling:	3.75	(ft.)	Time: <u>140</u>	0					
Sampling	Method:	Teflon Ba	iler	Disposable	Bailer X	_ Sampling Pump					
Sample C	ollected:	3 - 40 ml V	OAs		Sample No	o.: <u>MW-1</u>					
Remarks:		, <u>, , , , , , , , , , , , , , , , , , </u>									
				· · · · · · · · · · · · · · · · · · ·							
											
Sampler:	Keith I	B. Craig		Date	:/Time: 3-22	2-96 14 <u>00</u>					

Project No	o.: <u>95117</u>	.28		Project Name: X Monitor							
Well No.:	<u>MW-2</u>			Well Location	on: <u>Middle w</u>	ell					
Well Dept	th: <u>19.75</u>	(ft.)		Casing Dian	neter: 2"	(in.)					
Depth to V	Water: 3.	70	(ft.)	Date: <u>3-22-96</u> Time: <u>1140</u>							
Water Col	lumn in V	Vell: <u>16.05</u>	(ft.)		Well Volum	me: <u>2.57</u> (gal.)					
Odor? No	<u> </u>	Fro	ee Product?	No	Thi	ckness:					
Purging M	fethod:	Hand Pun	np S	ubmersible F	Pump <u>X</u>	Bailer Other					
Time	pН	Conduc. (µS)	Temp. (°F)	Water Level	Volume Removed	Remark					
1515	6.74	1365	70.0		1.0	Moderate Turbidity					
1518	6.45	1324	68.3		4.0	Slight Turbidity					
1520	6.43	1341	66.9		7.0	Dewatered					
1525	6.40	1310	66.7		8.5	Dewatered					
1530	6.58	1422	66.9		9.5	Dewatered					
Purging St	tart Time	: 1515			Purging Sto	op Time: <u>1531</u>					
Total Volu	ıme Purg	ed: <u>9.5</u>	(ga	1.)	Well Dewa	iter? Yes					
Water Lev	el Prior t	to Sampling:	4.50	(ft.)	Time: 1545	5					
Sampling 1	Method:	Teflon Ba	iler	Disposable	Bailer X	Sampling Pump					
Sample Co	ollected: 3	3 - 40 ml VC	OAs		Sample No	.: <u>MW-2</u>					
Remarks:			· •		<u> </u>						
						-96 1600					

Project No	o.: <u>95117</u>	.28		Project Nam	e: X Monitor	<u> </u>					
Well No.:	<u>MW-3</u>			Well Location	on: Easternmo	ost					
Well Dept	h: <u>19.70</u>	(ft.)		Casing Dian	neter: 2"	(in.)					
Depth to V	Water: 3.0	67((ft.)	Date: <u>3-22-96</u> Time: <u>1130</u>							
Water Col	umn in V	Vell: <u>16.03</u>	(ft.)	Well Volume: <u>2.76</u> (gal.)							
Odor? No)	Fre	ee Product?	No	Thi	ckness:					
Purging M	lethod:	Hand Pun	np S	ubmersible F	Yump <u>X</u>	Bailer Other					
Time	рН	Conduc. (μS)	Temp. (°F)	Water Level	Volume Removed	Remark					
1200	7.33	1450	71.1		1.0	Moderate Turbidity					
1202	7.15	1390	68.7		3.5						
1204	7.03	1500	67.7		6.5	Clear					
1206	6.91	1710	67.4		9.5	Dewatered					
1210	7.03	1593	68.0		12.5	Dewatered					
Purging St	tart Time	: 1200			Purging St	op Time: <u>1210</u>					
Total Volu	ıme Purg	ed: <u>12.5</u>	(ga	al.)	Weil Dewa	ater? Yes					
Water Lev	el Prior	to Sampling:	4.03	(ft.)	Time: <u>121</u>	5					
Sampling 1	Method:	Teflon Ba	iler	Disposable	Bailer X	Sampling Pump					
Sample Co	ollected: [3 - 40 ml V(OAs		Sample No	o.: <u>MW-3</u>					
Remarks:											
					_						
						-06 1215					

Project No	.: <u>95117</u>	.28	·	Project Name: X Monitor								
Well No.:	MW-4_			Well Location	on: Southernn	nost						
Well Depti	h: <u>24.40</u>	(ft.)		Casing Dian	neter: 2"	(in.)						
Depth to V	Water: <u>3.2</u>	29	(ft.)	Date: <u>3-22-</u>	96	Time: 1135						
Water Col	umn in V	Vell: <u>21.11</u>	(ft.)	Well Volume: 3.38 (gal.)								
Odor? No)	Fre	ee Product?	<u>No</u>	Thic	ckness:						
Purging M	lethod:	Hand Pun	np S	ubmersible F	Yump <u>X</u>	Bailer Other						
Tîme	pН	Conduc. (µS)	Temp. (°F)	Water Level	Volume Removed	Remark						
1410	6.72	1400	69.0		0.1	Moderate Turbidity						
1413	6.67	1465	66.8		4.5	Clear						
1416	6.58	1570	66.4		7.5	Clear						
1419	6.62	1550	67.2		11.0							
1421	6.58	1519	67.1		12.5 Dewatered							
	<u></u>											
Purging St	tart Time	: 1410			Purging Sto	op Time: <u>1422</u>						
Total Volu	ıme Purg	ed: <u>12.5</u>	(g:	al.)	Well Dewa	iter? Yes						
Water Lev	el Prior	to Sampling:	5.29	(ft.)	Time: <u>144</u> ()						
Sampling 1	Method:	Teflon Ba	iler	Disposable	Bailer X	Sampling Pump						
Sample Co	ollected:	3 - 40 ml V	OAs		Sample No	:: <u>MW-4</u>						
Remarks:	 	 										
	<u>, , , , , , , , , , , , , , , , , , , </u>			·								
	·····											
Sampler:	Keith I	3. Craig		Date	/Time: <u>3-22</u>	-96						

APPENDIX C

GE.

4118 CLIPPER COURT, FREMONT, CA 94538

PHONE (510) 498-1991

FAX (510) 498-1994

A.F.R 1 - 1996

March 29, 1996

Mr. Keith Craig All West Environmental One Sutter St., Suite 600 San Francisco, CA 94104

Regarding:

Analytical Results

Client Project: 95117.28 Global Lab Project: 960322A

Dear Mr. Keith Craig,

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,

Lei Chen Laboratory Director 4118 CLIPPER COURT, FREMONT, CA 94538

PHONE (510) 498-1991

FAX (510) 498-1994

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

Attn.: Keith Craig

All West Environmental

One Sutter St., Suite 600

San Francisco, CA 94104

Project: 95117.28

Matrix: Water

Date Sampled: 3-22-96

Date Received: 3-22-96

Date Analyzed: 3-25-96 Date Reported: 3-28-96

Lab. Project #: 960322A

Client I.D.	Lab. I.D.	8015M GASOLINE	Dilution Factor
MW-1	960322A01	ND	1
MW-2	960322A02	4,500	1
MW-3	960322A03	ND	1
MVV-4	960322A04	60	1
Jnits		ug/L	
Reporting	Limit	50ug/L	

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

Reviewed By:

Lei Chen, Laboratory Director

4118 CLIPPER COURT, FREMONT, CA 94538

PHONE (510) 498-1991

FAX (510) 498-1994

DHS (LUFT) TPH-BTEX REPORT

(ug/L)

Attn.: Keith Craig

All West Environmental
One Sutter St., Suite 600

San Francisco, CA 94104

Project: 95117.28

Matrix:

Water

Date Sampled: 3-22-96

Date Received: 3-22-96

Date Analyzed: 3-25-96 Date Reported: 3-28-96

Lab. Project #: 960322A

Client Lab. I.D. I.D.		Benzene	Toluene	Ethyl Benzene	Total Xylenes	Dilution Factor
MW-1	960322A01	ND	2.5	ND	2.2	1
MW-2	960322A02	920	30	360	1,300	1
MW-3	960322A03	ND	ND	ND	ND	1
MW-4	960322A04	0.8	2.8	1.1	4.7	1
Units		ug/L	ug/L	ug/L	ug/L	
Reporting Limits		0.5ug/L	0.5ug/L	0.5ug/L	0.5ug/L	

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

Reviewed By:

Lei Chen, Laboratory Director

EPA METHOD TEST QA/QC TABLE

GLOBAL PROJECT #: 960322A

Lab I.D.:

960320A03-SP, 960320A-MSP

Project:

95117.28 EPA 5030

Ext/Prep. Method: Date:

03-25-96

Analytical Method:

EPA M8015

Analysis date:

03-25-96 Water

Matrix: 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	0.00	20.00	17.84	89	17.75	89	89	76	127	4	11	
Toluene	0.00	20.00	18.28	91	18.47	92	92	76	125	1	13	
Chlorobenzene	0.00	20.00	17.75	89	17.38	87	88	75	130	2	13	
Gasoline	0.00	1000.00	929.00	93	945.00	95	94	70	130	2	30	

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

CHAIN OF CUSTODY

2002	AllWest Environme	ental, Inc.	9511	7. 25	95 95	70	А	NALY	SIS RE	QUEST	ED	FIELD	COND	ITIONS	i:			··	
All West	Specialists in Environmental Due Diligence and Remedial Services One Sunter Street, Suite 600 San Francisco, Ca 94104 Tel 425.391.2510 Fax 415.391 2008 Job Name: ALBANIA		Glob (510)4	95117.28 GLOBAL LAB (510)498-1991			×						OSITE:	•	TIONS:			\$ 15 miles 15 miles	
Location: Contact: KEITH	Location: Contact: KEITH CRAIG (45) 391-2510				PRESERVATIVES	-9/BTEX					TURN AROL					E FIELD	READIN	1GS	
DATE		METHOD	MATRIX WATER	CONT NO.	TAMER	3	X Z		_			HOURS	48 HOURS	Veex Veex	WEEKS				
	W-22					1	X							X					
	W-4			*	<u> </u>	#	X		+		+			X X					
	W-2D		V			V			-					<u>- </u>		HOLD			
10 M									1							H01	<u>D</u>		
	A State of																		
1	Mary Charles		,				\vdash	_			+	\dashv							
												\dashv							
SUSPECTED CONSTITUENTS	,		transportunita			1	SAMPLE	E REYEN	TION TIME		PRESE		/ES:	(1) H (2) H	ICL (NO3		(3) - COLI (4)	D	
0 101		TH C/0415	1 Alle	<i>≊</i> 7	I	22/96	6							:, Ý,	, ;	Province	ej e,	到數	雅
REC'D AT LAB BY:	1 G/0	baj C	Ch ,	-42.	3/7	22/	96		<u> </u>									- 0.4	W.Z.
(.)	FED X	UPS			ОТНЕЯ	 ì						IR BIL	icoma	ENTS:					