May 5, 1992

Mr. Ken Friedman
Albany Bowl Properties
540 San Pablo Avenue
Albany, CA 94706

Subject: **First Semi-Annual Groundwater Sample Analyses and Well Closure Recommendation for Groundwater Monitoring Well MW1 450 - 500 San Pablo Avenue Albany, CA (Project No. 9064)**

Dear Mr. Friedman:

Aqua Terra Technologies
Consulting Engineers
& Scientists

2950 Buskirk Avenue
Suite 120
Walnut Creek, CA
94596
415 934-4884
FAX 934-0418

Aqua Terra Technologies, Inc (ATT) is pleased to provide you with the chemical analyses for the first semi-annual groundwater sampling event for monitoring well MW1 at 400 - 500 San Pablo Avenue in Albany, California. This sample was collected on March 6, 1992 in accordance with the requirements of the Alameda County Health Care Services Agency (ACHCSA) letter of October 17, 1991 and ATT's letter of November 25, 1991 to the ACHCSA (Attachment A).

Previous Investigations

On October 17, 1990, ATT completed a tank closure and monitoring well installation report for the property at 450 and 500 San Pablo Avenue in Albany, California (ATT, 1990).

ATT conducted routine quarterly sampling and analysis of groundwater samples from monitoring well MW1 for five consecutive quarters; samples were collected in September 1990, January, April, July, and October 1991 (ATT, 1990, 1991a, 1991b, 1991c, and 1992). (Note: the initial tank closure and monitoring well installation with groundwater sampling is considered to be the first quarterly groundwater monitoring event. The report titled: *First Quarter, 1991* is the second quarterly event.)

Groundwater sampling and analyses from monitoring wells MW2 and MW3 (Plate 2, Attachment B) were not required by the ACHCSA (ATT, 1990). Monitoring wells MW2 and MW3 were installed at the request of Albany Bowl Properties to conform with due diligence recommendations made in a

Phase I investigation for the subject property because of possible gasoline contamination to groundwater from the immediately adjacent and downgradient Plaza Car Wash property.

Quarterly groundwater sampling for monitoring well MW1 was conducted in accordance with ATT's October 17, 1990 tank closure and monitoring well installation report (ATT, 1990) and the October 26, 1990 letter from the ACHCSA concurring with ATT's conclusions and recommendations for groundwater monitoring on the subject property (Attachment A).

Groundwater Table Measurements

The shallow, unconfined groundwater table, for this sampling event, was measured from groundwater monitoring wells MW1, MW2, and MW3 (Table 1, Attachment B). The groundwater table elevations increased from the same seasonal period in 1991; they currently are at the highest elevations since measurements were begun in September 1990. Groundwater flow continues toward the north west at a gradient of 0.005 feet/foot (Plate 2, Attachment C).

Groundwater Sample Collection and Analysis

On March 6, 1992, ATT personnel collected a groundwater sample from groundwater monitoring well MW1 in accordance with the San Francisco Bay Region of the Regional Water Quality Control Board (RWQCB) and ACHCSA requirements. Sample protocol and sample collection records are in Attachment D. The groundwater sample was submitted under chain-of-custody, to a California Department of Health Services (DHS) accredited laboratory. Laboratory data sheets are in Attachment E.

The groundwater sample was analyzed for total petroleum hydrocarbons (TPH) as gasoline, benzene, toluene, ethylbenzene, and total xylenes (BTEX) using U.S. Environmental Protection Agency (EPA) Method 5030/8015. Tetraethyl (organic) lead was analyzed using the California LUFT Method.

Chemical analyses for the water sample collected from monitoring well MW1 show that, based on approved U.S. EPA methods, no TPH as gasoline, BTEX, or organic lead (Table 2, Attachment B) has been detected.

Conclusions and Recommendations

Groundwater table measurements for March 1992 indicate a rise in groundwater levels, from 1990 and 1991 measurements. The increase in water table measurements is from increased infiltration from February and early March 1992 precipitation.

Groundwater sampling and analysis from groundwater monitoring well MW1 was conducted for five consecutive quarterly events (September 1990 through October 1991) and for one semi-annual event in March 1992. For these sampling events, collected groundwater had no detectable TPH as gasoline, BTEX or organic lead.

Because no contaminants have been detected in groundwater monitoring well MW-1, even after heavy winter rains have caused the groundwater table to be at its highest elevation since January 1991 (Table 1, Attachment A), ATT recommends closure of monitoring well MW1 in accordance with the proper RWQCB and ACHCSA closure procedures. This would require the complete removal of monitoring well MW1 by overdrilling and grouting the boring with cement.

References cited in this report are in Attachment F. Limitations and uncertainty to this study are in Attachment G.

If you have any questions regarding this report, please call.

Sincerely,

AQUA TERRA TECHNOLOGIES, INC.

William E. Motzer

William E. Motzer, Ph.D.
Senior Hydrogeologist/Project Manager
California Registered Geologist #4202
(Expires 6/30/92)

WEM:pd

Attachments

cc: Mr. Larry Seto, ACHCSA
Mr. Richard Hiatt, RWQCB
Mr. Thomas Donnelly - Heller, Ehrman, White & McAuliffe

ATTACHMENT A

ACHCSA October 26, 1990 Letter
ACHCSA October 17, 1991 Letter
ATT November 25, 1991 Letter

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALT
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

October 26, 1990

Mr. Ken Freidman, Property Owner
529 Brookline
Mill Valley, CA 94941

RE: Troxell Auto, 500 San Pablo Ave., Albany, CA 94706

Dear Mr. Freidman:

I haver reviewed your tank closure and monitoring well installation report dated October 17, 1990, that was prepared by Aqua Terra Technologies for the above site. I concur with the conclusions and recommendations of your consultant.

If you have any questions, please call me at 271-4320.

Sincerely,

Larry Seto, Senior,
Hazardous Materials Specialist

LS:mnc

cc: Albany Fire Department
RWQCB
Gil Jensen, Alameda County District Attorney, Consumer and Environmental Protection Agency
Howard Hatayama, DOHS
Rafat A. Shahid, Assistant Agency Director, Environmental Health
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Director

Telephone Number: (415)

October 17,1991

Mr. Ken Freidman, Property Owner
529 Brookline
Mill Valley, CA 94941

RE: 450-500 San Pablo Avenue, Albany, CA

Dear Mr. Freidman:

Today I spoke with your consultant, Bill Motzer, Ph.D of Aqua Terra Technologies. We agreed to semi-annual monitoring of MW-1. The next sampling will be scheduled for March '92.

If you have any questions, please contact me at 271-4320.

Sincerely,

Larry Seto, Sr. Hazardous Materials Specialist

cc: Thomas Donnelly, Attorney, Heller,Ehrman, White & McAuliffe
Bill Motzer, Ph.D, Aqua Terra Technologies
RWQCB
Howard Hatayama, Dept. of Toxic Substances
Rafat Shahid, Asst. Agency Director
Files

ATT

November 25, 1991

Mr. Lawrence Seto
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: **Monitoring Well Sampling at the 450-500 San Pablo Avenue Property, Albany, CA (Project No. 9064)**

Dear Mr. Seto:

Aqua Terra Technologies
Consulting Engineers
& Scientists

2950 Buskirk Avenue
Suite 120
Walnut Creek, CA
94596
415 934-4884

Thank you for your letter to Ken Friedman of Albany Bowl Properties, agreeing to the semi-annual groundwater sampling for monitoring well MW-1, with the next sampling event to occur in March, 1992.

As we agreed in our October 10, 1991 telephone conversation, should the March 1992 groundwater samples continue to be reported below method detection limits, Albany Bowl Properties will request approval from the Alameda County Health Care Services Agency and San Francisco Bay Region of the Regional Water Quality Control Board to close groundwater monitoring well MW-1.

If you have any questions, please call.

Sincerely,

AQUA TERRA TECHNOLOGIES, INC.

William E. Motzer

William E. Motzer, Ph.D., R.G.
Senior Hydrogeologist
Project Manager

WEM:mp

cc: Mr. Ken Friedman - Albany Bowl Properties
Mr. Thomas Donnelly, Attorney - Heller, Ehrman, White & McAuliffe

9064/#1/LS110591.LTR

ATTACHMENT B

Tables

ATT

Table 1. Summary of Groundwater Elevation Data
Albany Bowl Properties
450 San Pablo Avenue
Albany, CA

Monitoring Well No.	TOC Elevation[a] (feet)	Date	Groundwater Depth (feet)	Groundwater Elevation (feet)
MW-1	100.87	9/06/90[b]	5.32	95.55
		1/18/91	5.26	95.61
		4/18/91	5.43	95.44
		7/31/91	5.55	95.32
		10/17/91	5.73	95.14
		3/06/92[c]	4.41	96.46
MW-2	99.25	9/06/90[b]	4.54	94.71
		1/18/91	4.48	94.77
		4/18/91	4.65	94.60
		7/31/91	4.75	94.50
		10/17/91	5.02	94.23
		3/06/92[c]	3.72	95.53
MW-3	100.2	9/6/90	5.20	95.00
		1/18/91	5.09	95.11
		4/18/91	5.25	94.95
		7/31/91	5.36	94.84
		10/17/91	5.63	94.57
		3/06/92[c]	4.33	95.87

a. Elevation from the top of the monitoring well casing (TOC) is relative to an assumed elevation datum of 100 feet for the northeast corner of East Bay Municipal District (EBMUD) utility box.
b. Quarterly sampling events from 9/6/90 to 10/17/91.
c. Semi-annual sampling event.

ATT

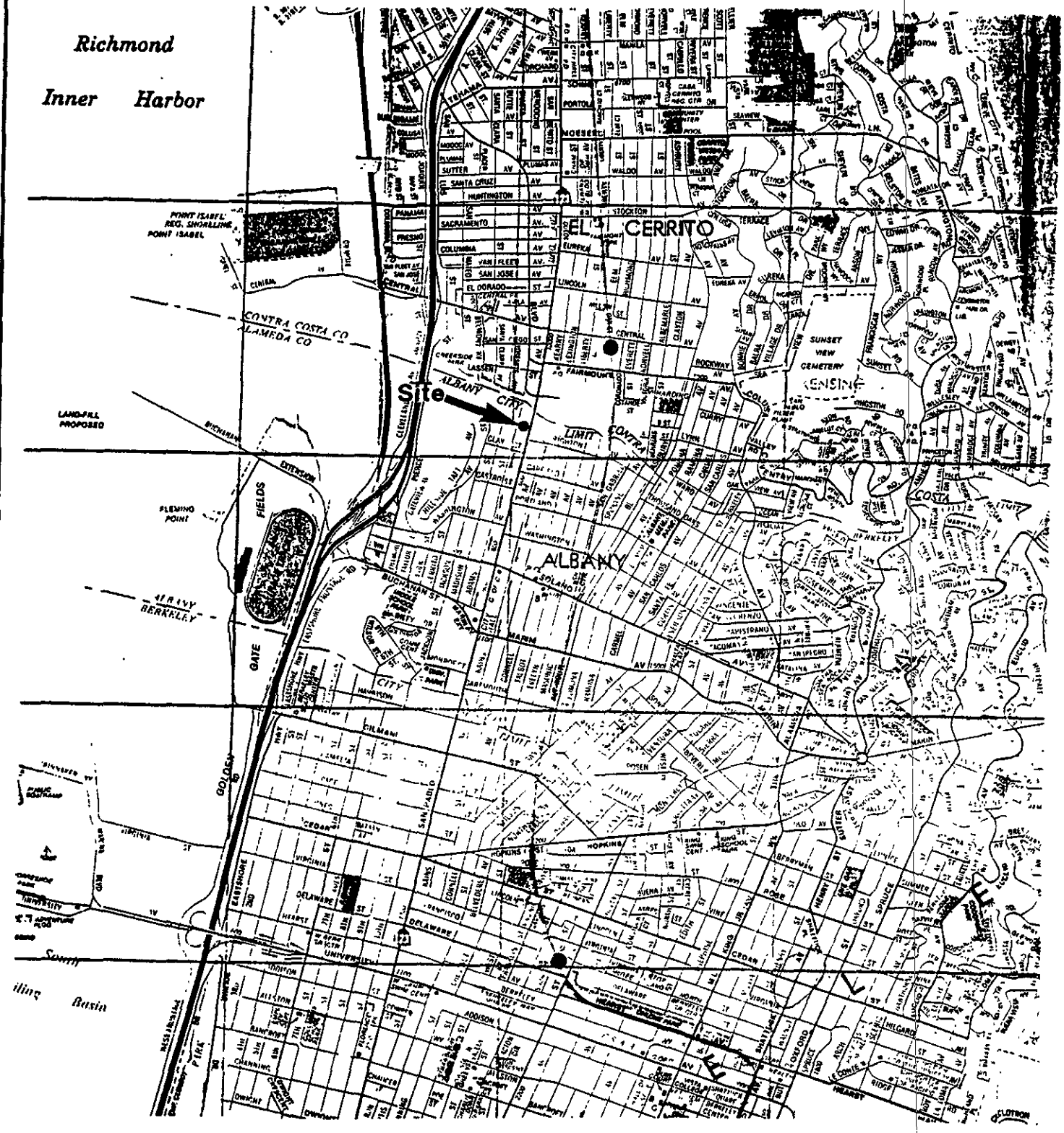
Table 2. Summary of Analytical Results
Groundwater Samples
450-500 San Pablo Avenue
Albany, California

Sample/ Well I.D.	Sampling Interval	Sampling Date	Concentration in μg/L TPH-G[a]	B[b]	T[b]	E[b]	X[b]	Pb[c]
MW1	First Quarter Sampling Event	09-06-90[d]	<50	<0.5	<0.5	<0.5	<0.5	<40
MW1	Second Quarter Sampling Event	01-18-91	<50	<0.5	<0.5	<0.5	<0.5	<40
MW1	Third Quarter Sampling Event	04-18-91	<50	<0.5	<0.5	<0.5	<0.5	<40
MW1	Fourth Quarter Sampling Event	07-31-91	<50	<0.5	<0.5	<0.5	<0.5	<40
MW1	Fifth Quarter Sampling Event	10-17-91	<50	<0.5	<0.5	<0.5	<0.5	<100
MW1	First Semi-Annual Sampling Event	03/06/92	<50	<0.5	<0.5	<0.5	<0.5	<100

a. TPH-G: total petroleum hydrocarbons as gasoline. Detection limit equals 50 μg/L.
b. BTEX: benzene, toluene, ethylbenzene, and total xylenes. Detection limit equals 0.5 μg/L.
c. Pb: tetra ethyl (organic) lead. Detection limit equals 40 μg/L and 100 ug/L.
d. Analytical results for this sampling date were originally presented in the following report:
AQUA TERRA TECHNOLOGIES, INC. (ATT), 1990; *Tank Closure Report and Monitoring Well Installation*: ATT unpublished report (October 17, 1990) 10p., with attachments.

ATTACHMENT C

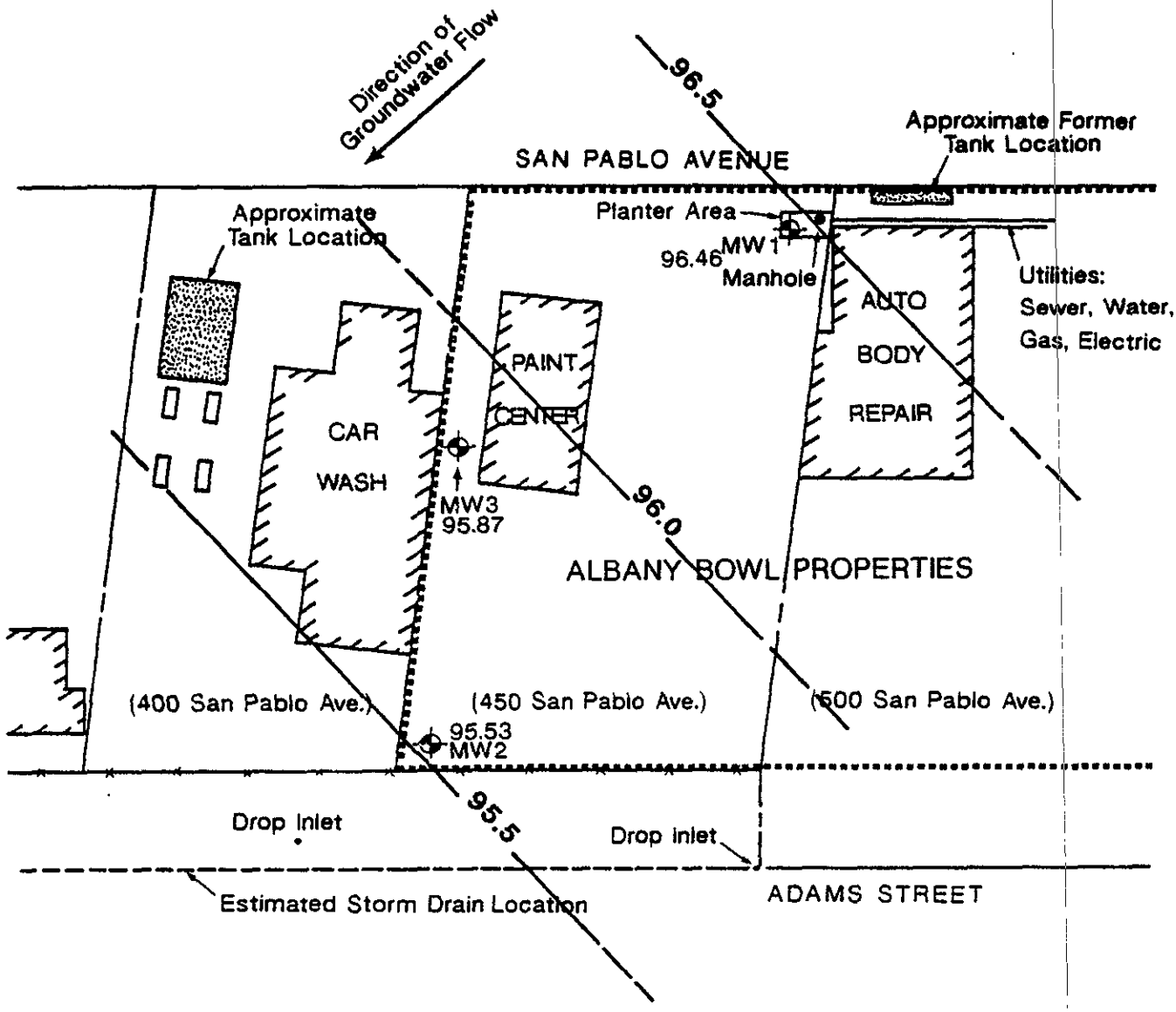
Plates



Property Location Map

ATT Aqua Terra Technologies
Consulting Engineers
& Scientists

Albany Bowl Properties		PLATE
JOB NUMBER	DATE	1
9064	5/92	



LEGEND

- Property Line
- Fence
- Existing Structure
- 96.46 Monitoring Well Location (approximate) with March 1992 Groundwater Table Elevations

0 40 80 feet
SCALE approximate

N

Groundwater Table Elevations: March 1992

ATT Aqua Terra Technologies Consulting Engineers & Scientists

Albany Bowl Properties

JOB NUMBER	DATE	PLATE
9064	5/92	2

ATTACHMENT D

Soil & Groundwater Sample Collection & Handling Protocol

ATTACHMENT D

SOIL & GROUNDWATER SAMPLE COLLECTION & HANDLING PROTOCOL

INTRODUCTION & PURPOSE

Because reliable and representative test results must be generated from soil and groundwater samples, it is essential to establish a sampling procedure which assures that all samples are:

- Collected by approved and repeatable methods
- Representative of the materials(s) at the desired location and depth
- Uncontaminated by container and sampling equipment

The following sampling protocol was designed to be a guide to the sampling and handling procedures for soil and groundwater samples. Based on conditions which may be encountered in the field, some modifications to this protocol may be required to fit the needs of an individual site.

SAMPLING PROCEDURES

Groundwater Sampling

Prior to collecting groundwater samples, monitoring wells were purged by bailing until pH, conductivity, and temperature levels stabilize. A minimum of four well casing volumes was purged from each well. Wells were purged and groundwater samples were obtained using a teflon bailer, or disposable polyethelene bailer, and nylon rope. New nylon rope is used for each well.

The appropriate number of sample containers and type were used for each sample collected, in accordance with the analytical laboratory requirements and EPA protocol. The bottles were filled using the bailer. All sample bottles were pre-cleaned by the supplier according to EPA protocols.

To prevent cross contamination of groundwater samples by the sampling equipment, all reusable equipment used in sampling was washed with a trisodium phosphate solution (TSP), triple rinsed with purified water, and

allowed to air dry prior to each use. A sample of the purified water was retained for analysis as part of sample quality assurance.

Soil Sampling

After the soil sampler was driven to the desired depth and the samples were retrieved, each end of the tube containing the soil sample retained for laboratory analysis was sealed with teflon sheeting, covered with plastic end caps, and sealed with PVC tape. All sample containers (tubes) were steamed cleaned (or washed with TSP, as above) and air dried prior to use. The soil sample recovered in the tube just above the sample retained for chemical analysis was examined in the field for visual and olfactory indications of chemical contamination and used for lithologic description.

The Unified Soil Classification System (USCS) was used to log and describe the soil by the onsite geologist. These logs also include details of the sampling process such as depth, apparent odors, discoloration, and any other factors which may be required to evaluate the presence of contamination at the site.

POST SAMPLING PROCEDURES

One field/travel blank consisting of one sample bottle filled with purified water accompanied soil and groundwater sample containers at all times, including during transport to and from the site. Purified water field/travel blanks were analyzed according to the appropriate EPA Methods corresponding to the soil/groundwater sample analyses.

Sample containers were labeled with sample number, project number, date, and the initials of the person collecting the sample. A separate sample collection record was maintained for each groundwater sample collected.

Soil and groundwater samples collected were analyzed by an analytical laboratory certified by the California Department of Health Services (DHS). Quality assurance documentation accompanied all analytical reports generated by the laboratory.

The samples were placed in a cooler with dry ice (for soil samples) or bagged ice (for water samples) immediately following collection, and remained in the cooler until refrigerated at the analytical laboratory. The samples were delivered to the laboratory direct by courier or overnight freight within 48 hours of time of collection. Appropriate chain of custody forms were used for all samples.

ATTACHMENT E

Sample Collection Record
Record of Groundwater Table Measurements
Accredited Laboratory Analytical Data sheets

SAMPLE COLLECTION RECORD - MONITOR WELL

ATT

Date: 3-6-92 Sample I.D.: FB Job No.: 9064

Site Location: Albany Bar Albany

No. of Containers : 3 /(check one): ___Well Samples;

___Duplicates from well_____; ___Travel Blanks;

✓Field Blanks; ___Other (explain)/_____

W.L.(1/100'):_____ Time :_____ B.O.W.(1/2'):_____

Method:___Electric Well Sounder; ___Other/_____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes):_____ gallons

Purging Method: ___Disposable Bailer; ___Teflon Bailer;

___Other/_____

Time Start Purging (24 hr):_____, Product: Y / N
Sheen: Y / N , Odor: Y / N , Vapor:____ ppm / %LEL
Turbidity:_____, Color:_____

Time Stop Purging (24 hr):_____, Product: Y / N
Sheen: Y / N , Odor: Y / N , Vapor:____ ppm / %LEL
Turbidity:_____, Color:_____

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
:____					
:____					
:____					
:____					
:____					

Sample Collection Time (24 hr): 11:50

Notes:_____

_____

_____

Collected By (signature):_____

ATT

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 3-6-92 Sample I.D.: MW11 Job No.: 9064

Site Location: ALBANY Bowl ALBANY

No. of Containers : 4 /(check one): ✓Well Samples;

___Duplicates from well_____; ___Travel Blanks;

___Field Blanks; ___Other (explain)/_____

W.L.(1/100'): 4.41 Time : 12:36 B.O.W.(1/2'): 19.5'

Method: ✓Electric Well Sounder; ___Other/_____

Meters calibrated: (Y) / N Well Loc. Map: (Y) / N

Calculated Purge Volume (4 casing volumes): 9 gallons

Purging Method: ✓Disposable Bailer; ___Teflon Bailer;

___Other/_____

Time Start Purging (24 hr): 1240, Product: Y / (N)
Sheen: Y / (N), Odor: Y / (N), Vapor:____ ppm / %LEL
Turbidity: 173 NTU, Color: CLEAR

Time Stop Purging (24 hr):_____, Product: Y / (N)
Sheen: Y / (N), Odor: Y / (N), Vapor:____ ppm / %LEL
Turbidity: 142 NTU, Color: CLOUDY

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
12:45	17°C	7.20	0440 µS	3	160 NTU
12:49	17°C	7.18	0440 µS	6	165 NTU
12:55	17°C	7.30	0440 µS	9	142 NTU
:					
:					

Sample Collection Time (24 hr): 13:00

Notes:_____

_____

_____

Collected By (signature): [signature]

ATT

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 3 - 6 - 92 ATT Job No.: 9064

Site Location: ALBANY Boun ALBANY

Well location map attached? Yes ✓ No ____

Method of Measurement: ✓ Electric well sounder,

____ Other: _____

Weather/Visibility: CLOUDS, COOL, SPRINKLES

Notes: _____

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
MW1	12:36	4.41	✓	19.5'	
MW2	11:58	3.72	✓	19.5'	
MW3	12:32	4.33	✓	19.0'	

Measured by (Signature): _____

rev.2/13/90

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

March 16, 1992 ChromaLab File No.: 0392078

AQUA TERRA TECHNOLOGIES, INC.

Attn: Bill Botler

RE: Two water samples for Gas/BTEX analysis

Project Number: 9064
Date Sampled: Mar. 6, 1992 Date Submitted: Mar. 6, 1992
Date Extracted: Mar. 10, 1992 Date Analyzed: Mar. 10, 1992

RESULTS:

Sample I.D.	Gasoline (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
FB	N.D.	N.D.	N.D.	N.D.	N.D.
MW1	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	104%	97%	105%	93%	103%
DETECTION LIMIT	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/8015	602	602	602	602

ChromaLab, Inc.

Ronald Halsne
Analytical Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

GeoAnalytical Laboratories, Inc.
1031 Kansas Ave.
Modesto, California 95351

Phone (209) 572-0900
Fax # (209) 572-0916

REPORT

Report# D070-04

Date: 3/17/92

Chroma Lab
2239 Omega Rd. # 1
San Ramon, CA 94583

Date Received: 3/10/92
Date Started:3/13/92
Date Completed: 3/13/92

Project # 392078

Project Name:

Sample ID: MW-1
Lab ID: D30738

Method: LUFT

Detection Limit mg/l	Analyte	Amount Found mg/l
0.05	Organic Lead	ND

Ramiro Salgado
Chemist

Donna Allsup
Laboratory Director

Certification# E757

Aqua Terra Technologies, Inc.
2950 Buskirk Avenue, Ste. 120
Walnut Creek, CA 94596
Tel. (415) 934-4884
Fax. (415) 934-0418

CHAIN OF SAMPLE CUSTODY RECORD

(original document, please return)

ATT

Sampled By: DAVID BEARDSLEY

Signature: [signature]

Results To Be Sent To: BILL MOTZER

Results Needed By: 5 DAY STANDARD TURNAROUND

Fax Results ASAP ☐

Date Sampled: 3-6-92

ATT Job #: 9064

Lab Name: CHROMALAB

Contact: CAROL

Phone #: 831 1788

Lab Job #:

Sample Collection				Sample Preservation				Sample Containers				Analysis/EPA Method No.							
Sample I.D.	Time (24 hr)	Matrix (e.g. Water, Soil)	Number of Containers	Ice	HCL	Dry Ice		40 mL VOA	1 Liter Amber			TPH G	BTEX ORGANIC LEAD						Remarks
FB	11:50	WATER	3	✓	✓			3				✓	✓						
MW1	13:00	"	4	✓	✓			3	1			✓	✓	✓					

Notes:

CHROMALAB FILE # 392078
ORDER # 5695

Relinquished by/ Company Affiliation	Date	Time	Received by: Company Affiliation	Date	Time
[signature]	3-6-92	4:42	Gary Cook	3/6/92	4:42p

GEOANALYTICAL

CHROMALAB, INC.

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798

Chain of Custody

DATE 3/9 PAGE 1 OF 1

PROJ. MGR. REFAAT MANKARIOUS
COMPANY
ADDRESS
SAMPLERS (SIGNATURE) (PHONE NO.)

SAMPLE ID.	DATE	TIME	MATRIX	LAB ID.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTeX (EPA 602,8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520 E&F)	PESTICIDES/PCB (EPA 608, 8080)	PHENOLS (EPA 604, 8040)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	EXTRACTION (TCLP, STLC)	ORGANIC Pb				NUMBER OF CONTAINERS
MW-1	3/9																				X				1

PROJECT INFORMATION

PROJECT NAME:
PROJECT NUMBER: 392078
SHIPPING ID. NO.
VIA:

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	1
CHAIN OF CUSTODY SEALS	1
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	
LAB NO.	

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
SEAN HALSEY		
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
CHROMALAB 3/9		
(COMPANY)	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3.**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY)	(COMPANY)	(LAB)

ATTACHMENT F

References Cited

REFERENCES CITED

Aqua Terra Technologies, Inc., 1990, Tank Closure Report and Monitoring Well Installation, 450 and 500 San Pablo Avenue, Albany, CA: unpublished October 17, 1990 ATT report, 10 p. with attachments.

Aqua Terra Technologies, Inc., 1991a, *First Quarter, 1991, Laboratory Analytical Results - Groundwater Samples, Monitoring Well MW1, 450 - 500 San Pablo Avenue, Albany California*: unpublished February 22, 1991 ATT report, 1 p. with attachments.

Aqua Terra Technologies, Inc., 1991b, *Third Quarter Groundwater Sample Analysis for Monitoring Well MW1, 450-500 San Pablo Avenue, Albany, California*: unpublished July 12, 1991 ATT report, 5 p. with Attachments

Aqua Terra Technologies, Inc., 1991c, *Fourth Quarter Groundwater Sample Analysis for Monitoring Well MW1, 450-500 San Pablo Avenue, Albany, CA*: unpublished September 26, 1991 report, 2 p. with attachments.

Aqua Terra Technologies, Inc., 1992, *Fifth Quarterly Groundwater Sample Analyses for Monitoring Well MW1, Albany Bowl Properties, 450 - 500 San Pablo Avenue, Albany, CA*: unpublished February 3, 1992 ATT report, 2 p. with attachments.

ATTACHMENT G

Limitations and Uncertainty

LIMITATIONS AND UNCERTAINTY

This report was prepared in general accordance with the accepted standard of practice which exists in northern California at the time the investigation was performed and within the scope of services outlined in our proposal. It should be recognized that the definition and evaluation of surface and subsurface environmental conditions is a difficult and inexact science. Judgements leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. It is possible that variations in the soil and/or groundwater conditions could exist beyond the points explored for this investigation. Also changes in groundwater conditions could occur sometime in the future due to variations in tides, rainfall, temperature, local or regional water use or other factors. If the client wishes to reduce the uncertainty beyond the level associated with this study, ATT should be notified for additional consultation.

The discussion and recommendations presented in this report are based on: 1) monitoring well installations, 2) the observations of field personnel, 3) the results of laboratory analysis performed by a California Department of Health Services certified laboratory, and 4) interpretations of federal, state, and local regulations and/or ordinances.

Chemical analytical data included in this report have been obtained from a state accredited laboratory. The analytical methods employed by the laboratory were in accordance with procedures suggested by the U.S. Environmental Protection Agency and the State of California. ATT is not responsible for laboratory errors in procedures or reporting.

ATT conducted this investigation with the manner consistent with the level of care and skill ordinarily exercised by members of the environmental consulting profession currently practicing under similar conditions in northern California. ATT prepared this report for the client's (and assigned parties) exclusive use for this particular project. No other warranties, expressed or implied, as to the professional advice provided are made.