July 13, 1992

Alameda County Health Care Services Agency
Dept. of Environimental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

RE: Your letter dated May 6, 1992: 3234 Castro Valley Blv.; Castro Valley, CA

Dear Scott:

Enclosed please find a copy of the latest Ground Water Sampling Report, dated June 30, 1992 from Geo Plexus, Inc. The next sampling to be taken in October 1992 in accordance with your above referenced letter.

Sincerely,

Mitzi Stockel

Muriel (Mitzi) Stockel
3461 Almosta Road
Placerville, CA 95667
916-626-5102

1 enclosure
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revised
8/6/92
SDS

GeoPlexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

June 30, 1992
Project C92017

Mrs. Mitzi Stockel
3461 ~~361~~ Almosta Road
Placerville, CA 94667

Subject: June 1992 Ground Water Sampling Report for
Stockel Property
3234 Castro Valley Blvd
Castro Valley, California

Dear Mitzi:

As requested and authorized, the attached Ground Water Sampling Report has been prepared to document the monitoring well sampling efforts performed at the subject site. The report presents the sampling protocol, recorded ground water elevations, and results of the analytical testing performed on the ground water samples collected on June 10, 1992.

In summary, Monitoring Wells MW-1, MW-3, and MW-4 remain at non-detectable concentrations of Total Petroleum Hydrocarbons as gasoline and Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylenes). Monitoring Well MW-5 remains at non-detectable concentrations of Volatile Aromatic Compounds; however, low concentrations of Total Petroleum Hydrocarbons were detected.

It has been a pleasure to be of service to you on this project. Questions or comments regarding the attached report should be addressed to the undersigned.

Respectfully submitted,

Geo Plexus, Incorporated

David C. Glick, CEG 1338
Director, Geological and
Environmental Services

REGISTERED GEOLOGIST
DAVID C. GLICK
No. 1338
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Enclosure:
Ground Water Sampling Report

2922 Scott Blvd., Santa Clara, California 95054 Phone 408/287-8588 Fax 408/988-0815

GeoPlexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

GROUND WATER SAMPLING REPORT

for

STOCKEL PROPERTY

3234 CASTRO VALLEY BLVD.

CASTRO VALLEY, CALIFORNIA

Prepared for

Mrs. Mitzi Stockel

3461 ~~361~~ Almosta Road

Placerville, CA 94667

June 30, 1992

Project C92017

2922 Scott Blvd, Santa Clara, California 95054 Phone 408/287-8588 Fax 408/988-0815

GROUND WATER SAMPLING REPORT
for
STOCKEL PROPERTY
3234 CASTRO VALLEY BLVD.
CASTRO VALLEY, CALIFORNIA

INTRODUCTION

The project site is located at 3234 Castro Valley Blvd. in the City of Castro Valley, in Alameda County, California. The site is the location of a former automotive repair facility (see Figure 1) and private residence. Five ground water monitoring wells exist surrounding the location of the former gasoline tank; however the traffic box and upper two feet of casing of Monitoring Well MW-2 was destroyed during site demolition and has been covered with concrete.

This report presents the sampling protocol, recorded ground water elevations, and results of the analytical testing performed on the ground water samples collected on June 10, 1992.

MONITORING WELL SAMPLING

Free product measurements were obtained for each monitoring well at the time of each sample acquisition utilizing an acrylic bailer lowered into the well to obtain a water sample. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Odors, sheens, or free product were not observed in the initial bailer water samples or following purging of the wells.

Prior to sampling the monitoring wells, a minimum of four well volumes were purged from each well through the use of a teflon bailer. Electrical conductivity, temperature, and pH of the ground water were recorded throughout the purging process. The purging activities continued until the electrical conductivity, temperature, and pH of the discharged water stabilized. Water samples for analytical testing were obtained through the use of a teflon bailer and were collected in sterilized glass vials with Teflon lined screw caps. The samples were immediately sealed in the vials and properly labeled including: the date, time, sample location, project number, and indication of any preservatives added to the sample. A travel blank (identified as MW-A) was obtained from the analytical testing laboratory, transported to the field with the sample vials, and was submitted along with other samples for analysis. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

The water obtained from the monitoring wells during the purging and sampling activities was contained on-site in 55-gallon drums pending receipt of the laboratory test results.

GRADIENT SURVEY

The elevation of the top of the casing of the monitoring wells at the site were established during previous investigations (vertical control of 0.01 foot). Prior to purging the monitoring wells, the depth to ground water in each well was measured to the nearest 0.01 foot with an electronic water level meter.

Ground water elevations recorded suggest that the ground water flow across the site is in a southwesterly direction (see Figure 1) with Monitoring Well MW-5 in a down-gradient direction from the former gasoline tank.

ANALYTICAL TESTING

The ground water samples were submitted to and tested by Anametrix Laboratories located in San Jose, California. The samples from the four gasoline tank monitoring wells were tested for Total Petroleum Hydrocarbons as gasoline by Method GCFID (5030) and Volatile Aromatics by EPA Method 602. The travel blank was submitted for analysis for Volatile Aromatics by EPA Method 602. The analytical test data, along with the Chain-of-Custody Forms are presented in Appendix A.

SUMMARY OF FINDINGS

Ground water elevations recorded during the sampling suggest that ground water is at a depth of 5-6 feet below the ground surface and flows across the site in a southwesterly direction at a gradient of 0.027 ft/ft. The southwestern direction of ground water flow places Monitoring Well MW-5 in a "down-gradient" direction from the former underground gasoline storage tank.

The analytical test results for the ground water samples obtained for this sampling event indicate non-detectable quantities of Total Petroleum Hydrocarbons as gasoline and Volatile Aromatics (BTXE) for the samples from Monitoring Wells MW-1, MW-3, or MW-4. Volatile Aromatics (BTEX) were not detected in samples from Monitoring Well MW-5 although low concentrations of petroleum hydrocarbons (not gasoline) were detected. It is noted that the analytical laboratory (Anametrix, Inc.) repeatedly reports that the particular constituent reported as Total Petroleum Hydrocarbons as gasoline for the sample from Monitoring Well MW-5 is not indicative of gasoline.

Table 1 summarizes the analytical test data to date.

TABLE 1

SUMMARY OF GROUND WATER ANALYTICAL TEST DATA

Date Sampled	Total Petroleum Hydrocarbons (ppb)	Benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	Ethyl-Benzene (ppb)
6-4-90					
MW-1	ND	ND	ND	ND	ND
MW-2	ND	ND	ND	ND	ND
MW-3	ND	ND	ND	ND	ND
MW-4	ND	ND	ND	ND	ND
MW-5	100	ND	ND	ND	ND
3-13-91					
MW-1	ND	ND	ND	ND	ND
MW-2	Destroyed				
MW-3	ND	ND	ND	ND	ND
MW-4	ND	ND	ND	ND	ND
MW-5	87	0.6	ND	ND	ND
4-30-91					
MW-1	ND	ND	ND	ND	ND
MW-2	Destroyed				
MW-3	--	--	--	--	--
MW-4	ND	ND	ND	ND	ND
MW-5	120	0.6	ND	ND	ND
5-20-91					
MW-1	ND	ND	ND	ND	ND
MW-2	Destroyed				
MW-3	--	--	--	--	--
MW-4	ND	ND	ND	ND	ND
MW-5	110	1.2	ND	ND	ND
6-18-91					
MW-1	ND	ND	ND	ND	ND
MW-2	Destroyed				
MW-3	ND	ND	ND	ND	ND
MW-4	ND	ND	ND	ND	ND
MW-5	74	ND	ND	ND	ND
7-30-91					
MW-1	ND	ND	ND	ND	ND
MW-2	Destroyed				
MW-3	--	--	--	--	--
MW-4	ND	ND	ND	ND	ND
MW-5	86	ND	ND	ND	ND

TABLE 1 (continued)

Date Sampled	Total Petroleum Hydrocarbons (ppb)	Benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	Ethyl-Benzene (ppb)
8-29-91					
MW-1	ND	ND	ND	ND	ND
MW-2	Destroyed				
MW-3	--	--	--	--	--
MW-4	ND	ND	ND	ND	ND
MW-5	54	ND	ND	ND	ND
9-25-91					
MW-1	ND	ND	ND	ND	ND
MW-2	Destroyed				
MW-3	ND	ND	ND	ND	ND
MW-4	ND	ND	ND	ND	ND
MW-5	ND	ND	ND	ND	ND
6-10-92					
MW-1	ND	ND	ND	ND	ND
MW-2	Destroyed				
MW-3	ND	ND	ND	ND	ND
MW-4	ND	ND	ND	ND	ND
MW-5	78	ND	ND	ND	ND

Note: Concentrations as reported on analytical testing report.
- Indicates Well was not sampled on monthly basis.
ND Indicates constituents not detected.

RECOMMENDATIONS

Further site characterization and/or remedial action does not appear warranted at this time.

The ground water monitoring wells located at the project site are scheduled to be sampled again in October, 1992 in accordance with the direction for semiannual monitoring from the Alameda County Health Care Services, Department of Environmental Health.

LIMITATIONS

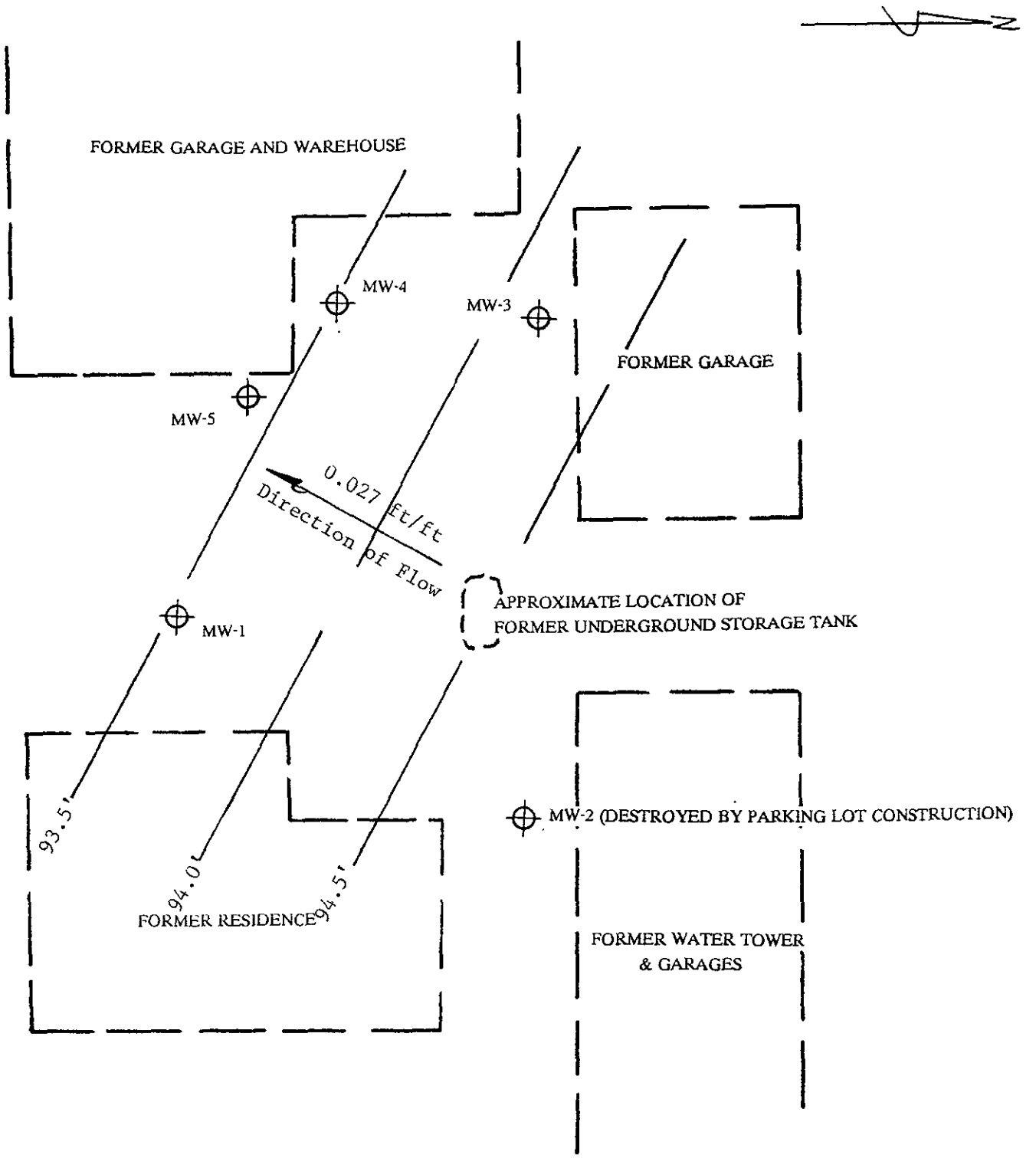
We have only observed a small portion of the pertinent subsurface and ground water conditions present at the site. The conclusions and recommendations made herein are based on the assumption that subsurface and ground water conditions do not deviate appreciably from those described in the reports and observed during the field investigation.

Geo Plexus, Incorporated provides consulting services in the fields of Geology and Engineering Geology performed in accordance with presently accepted professional practices. Professional judgments presented herein are based partly on information obtained from review of published documents, partly on evaluations of the technical information gathered, and partly on general experience in the fields of geology and engineering geology.

No attempt was made to verify the accuracy of the published information prepared by others used in preparation of this assessment report.

If you have questions regarding the findings, conclusions, or recommendations contained in this report, please contact us. We appreciate the opportunity to serve you.

Geo Plexus, Incorporated



Note: Ground Water Elevations based on Temporary Bench Mark with an assumed elevation of 100.00 ft.

STOCKEL PROPERTY		
DATE 6-10-92	SCALE 1"=20'	DRAWN BY dcg
GROUND WATER GRADIENT PLAN		
STOCKEL	Figure 1	

GeoPlexus, Inc.

APPENDIX A

CHAIN-OF-CUSTODY FORM
AND
ANALYTICAL TEST DATA

GeoPlexus, Inc. 9206204

CHAIN-OF-CUSTODY

2922 Scott Blvd., Santa Clara, California 95054
Phone 408/287-8588 Fax 408/988-0815

PROJECT NUMBER C92017 | PROJECT NAME STOCKEL

LAB ID # 434

Send Report Attention of: Mr. David Glick | Report Due / / | Verbal Due / /

Sample Number	Date	Time	Comp	Grab	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: ~~8240~~ TPHg	BTEX	601 602	8010 8020	624 625	8240 8270	Oil & Grease	EPA Metals	Condition of Samples	Initial
MW A - WS1A,B	4/10/92	1100		/	MON. WELL A	2EA	ACIDIFIED HO ml VOA	✓	✓								
MW 3 - WS1A,B,C		1520		/	MON. WELL 3	3EA		✓	✓								
MW 4 - WS1A,B,C		1619		/	MON. WELL 4			✓	✓								
MW 5 - WS1A,B,C		1645		/	MON WELL 5			✓	✓								
MW 1 - WS 1A,B,C		1605		/	MON WELL 1			✓	✓								

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	4/12/92 10:50	[signature]	4/12/92 10:50
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Remarks: Purchase Order No.: 92.30022

STANDARD TURNAROUND

COMPANY: Geo Plexus, Inc.
ADDRESS: 2922 Scott Blvd., Santa Clara, CA 95054
PHONE : (408) 287-8588 FAX : (408) 988-0815

2066

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID C. GLICK
GEOPLEXUS, INC.
753 N. 9TH ST. #131
SAN JOSE, CA 95112

Workorder # : 9206204
Date Received : 06/12/92
Project ID : C92017
Purchase Order: 92.30022
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9206204- 1	MWA	WATER	06/10/92	TPHg/BTEX
9206204- 2	MW3	WATER	06/10/92	TPHg/BTEX
9206204- 3	MW4	WATER	06/10/92	TPHg/BTEX
9206204- 4	MW5	WATER	06/10/92	TPHg/BTEX
9206204- 5	MW1	WATER	06/10/92	TPHg/BTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. DAVID C. GLICK
GEOPLEXUS, INC.
753 N. 9TH ST. #131
SAN JOSE, CA 95112

Workorder # : 9206204
Date Received : 06/12/92
Project ID : C92017
Purchase Order: 92.30022
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentration reported as gasoline for sample MW5 is primarily due to the presence of discrete hydrocarbon peaks not indicative of gasoline.

Department Supervisor Date

Chemist 6/24/92 Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9206204
Matrix : WATER
Date Sampled : 06/10/92

Project Number : C92017
Date Released : 06/24/92

	Reporting Limit	Sample I.D.# MWA	Sample I.D.# MW3	Sample I.D.# MW4	Sample I.D.# MW5	Sample I.D.# MW1
COMPOUNDS	(ug/L)	-01	-02	-03	-04	-05
Benzene	0.5	ND	ND	ND	ND	ND
Toluene	0.5	ND	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND	78	ND
% Surrogate Recovery		95%	104%	131%	97%	102%
Instrument I.D.		HP4	HP4	HP4	HP4	HP4
Date Analyzed		06/21/92	06/21/92	06/21/92	06/21/92	06/21/92
RLMF		1	1	1	1	1

ND - Not detected at or above the practical quantitation limit for the method.
TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.
BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.
RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Reggie Davison 6/24/92
Analyst / Date

Cheryl Brimer 6/24/92
Supervisor / Date