

# GOOD CHEVROLET

1630 Park Street • Phone 510/522-9221  
ALAMEDA, CA 94501

October 13, 2000

00 OCT 16 PM 4: 15  
ENVIRONMENTAL  
PROTECTION

Mr. Hari Patel, Sanitary Engineering Associate  
Technical Review Unit  
Underground Storage Tank Cleanup Fund  
P. O. Box 944212  
Sacramento, CA 94244-2120

Re: Claim No. 012398 - Pre-approval Request No. 3  
Site Address: 1630 Park Street, Alameda, CA 94501

Dear Mr. Patel:

Per your request, I am enclosing a proposal from Geo Plexus to initiate groundwater monitoring at the above site. I am also enclosing copy of a letter from Alameda County Health Care Services requesting that we reinstate groundwater monitoring. If the proposal meets with your approval, Geo Plexus will start the work within one week.

Thank you for your assistance.

Sincerely,

JoAnn Stewart

JKS:js

Enclosure

✓ cc: eva chu - Alameda County Health Care Services  
Cathrene Glick, Geo Plexus



CALIFORNIA UNDERGROUND STORAGE TANK CLEANUP FUND  
COST PRE-APPROVAL REQUEST  
(Complete form, enclose required items, sign, date & return)

TO: HARI PATEL Fax: (916) 227-4530

I. CLAIM INFORMATION

A. CLAIM NO. 012398 B. CLAIMANT GOOD CHEVROLET

C. CLAIM STATUS (complete appropriate section)

i) LOC ISSUED FOR \$ 60,000.00

ii) ON PRIORITY LIST?  YES  NO IF YES, PRIORITY CLASS  A  B  C  D

iii) NOT YET APPLIED TO THE FUND, EXPECTED APPLICATION DATE: \_\_\_\_\_

D. CONTACT PERSON: JOANN STEWART PHONE: 510-522-9221  
ADDRESS: 1630 PARK STREET FAX: 510-523-4325  
ALAMEDA, CA 94501

II. TYPE OF REQUEST (check appropriate boxes)

PRE-APPROVAL \$ 10,610.00 AMOUNT REQUESTED

3-BID REVIEW \$ \_\_\_\_\_ PREFERRED BID (if applicable)

THE FOLLOWING DOCUMENTS ARE REQUIRED FOR THE SPECIFIED REQUEST. ALL DOCUMENTS REQUESTED MUST BE SUBMITTED OR THE REQUEST(S) WILL BE RETURNED UNPROCESSED.

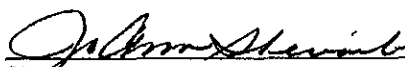
A. REQUEST FOR PRE-APPROVAL OF PROPOSED COSTS-The following items are required before review and determination will be made by Fund Staff.

- A complete signed copy of the proposed Investigation Workplan or Corrective Action Plan (CAP) (as defined and required by Article 11, Chapter 16, California Underground Storage Tank Regulations). Corrective Action Plans must include the required feasibility study and chosen cost effective alternative.
- A signed copy of the oversight agency approval letter for the Workplan/CAP.
- A complete copy of the Request for Bids, including all attachments. A list of all firms requested to bid must be included.
- Complete copies of all bids and other correspondence submitted in response to the Request for Bids.
- A time schedule, if not part of bid documents, anticipated for project initiation and duration.
- A detailed project budget, which includes breakdowns of staff/task/hour with associated estimated totals.

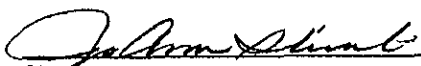
B. THREE-BID REVIEW/EVALUATION/DETERMINATION - Fund staff will assist any claimant requesting an evaluation of bids upon request. The following information must be submitted - 1,2,3 AND 4 as described in Item A above.

III. CERTIFICATION

*I certify under penalty of perjury that all information submitted with this request is complete and accurate and in accordance with all applicable laws and regulations. Must be signed by claimant or person designated on the Authorized Representative Designation form*

 JOANN STEWART 10/13/00  
Signature Printed Name Date

IV. Authorization for the Fund to give out your name and phone number to other claimants in your region as a reference for consultants and contractors.  YES  NO

 10/13/00  
Signature Date

# GeoPlexus, Inc.

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

October 5, 2000

Ms. Jo Ann Stewart  
General Manager  
Good Chevrolet  
1630 Park Street  
Alameda, California 94501

**Subject: Proposal for Supplemental Ground Water Monitoring for  
Good Chevrolet, 1630 Park Street, Alameda, CA**

Dear Ms. Stewart:

Geo Plexus, Incorporated is pleased to present this Proposal to accomplish additional ground water monitoring for the subject property to achieve site closure through the regulatory agencies. The previously submitted Work Plan detailed the activities for two (2) quarterly ground water monitoring events as follows:

### Sampling of Existing Wells

The elevation of the top of the casing of the existing monitoring wells at the site were established during previous investigations with reported vertical control of 0.01 foot. Ground water elevations would be measured in each well to the nearest 0.01 foot with an electronic water level meter (prior to purging) to monitor the variations in the direction and gradient of ground water flow beneath the site. Free product measurements would be obtained utilizing a product/ground water interface probe or through the use of a teflon bailer lowered into the well to obtain a surface water sample.

Prior to sampling the wells, a minimum of four well volumes would be purged from the well through the use of a positive displacement bladder pump or teflon bailer. Electrical conductivity, temperature, and pH of the ground water would be recorded throughout the purging process. The purging activities would continue until the electrical conductivity, temperature, and pH of the discharged water have stabilized. The water developed from the monitoring well would be contained on-site pending receipt of the laboratory test results. The samples would be placed on ice immediately for transport to the laboratory under chain-of-custody documentation.

### Analytical Testing

The ground water samples will be submitted to and tested by McCampbell Analytical, a State of California, Department of Health Services certified testing laboratory. Analytical testing will be scheduled and performed in accordance with the State of California, Regional Water Quality Control Board and Alameda County Department of Environmental Health guidelines. Testing will include:

- Total Petroleum Hydrocarbons as gasoline by RWQCB Method GCFID 5030/8015;
- Volatile Aromatics (BTEX) by EPA Method 8020/602;
- Fuel Oxygenates by EPA Method 8260; and
- EDB and EDC by EPA Method 8010/601.

Proposal For Supplemental Ground Water Monitoring for  
Good Chevrolet, 1630 Park Street, Alameda, CA

October 5, 2000  
Page 2

### Report

A report documenting the findings and observations of the investigation and the results of the analytical laboratory testing would be prepared to include: the well development records; analytical test data, chain-of-custody records, and other pertinent information obtained throughout the investigative process.

### Schedule

We anticipate that Alameda County will take one (1) week to review the previously submitted Work Plan and that the State Underground Storage Tank Fund will pre-approve this Proposal within 3-weeks following submittal of the pre-approval request. We could mobilize for this project within one week of your approval and authorization to proceed following regulatory approval. We anticipate that the laboratory testing would be completed within two weeks following the investigation and that the report would be completed within four weeks following receipt of the analytical test data.

### Estimated Charges

Our fees for this work would be computed in accordance with our current FEE SCHEDULE. Based on this schedule, we estimate that the total charges for the scope of work outlined herein would be as follows:

#### Charges Per Sample Event

<u>Work Plan</u>	
Staff Geologist (4hrs @ \$75/hr) .....	\$ 300.00
Project Geologist (1.5hrs @ \$85/hr) .....	\$ 127.50
<u>City Permitting For Lane Closure, Signage Placement and Notification, and Outside and Inside Lane Closure Traffic Control Charges</u>	
Construction Manager (5.5hrs @ \$85/hr) .....	\$ 467.50
Statewide Safety Labor and Materials (cost plus 10%) .....	\$ 1,432.50
<u>Well Purging and Sampling</u>	
Senior Technician (8hrs @ \$65/hr) .....	\$ 520.00
Staff Geologist (8hrs @ \$75/hr) .....	\$ 600.00
Project Geologist (0.5hrs @ \$85/hr) .....	\$ 42.50
Analytical Testing (cost plus 15%) .....	\$ 1,090.00
<u>Data Review and Report Preparation</u>	
Drafting (3 hrs @ \$55/hr) .....	\$ 165.00
Staff Geologist (4hrs @ \$75/hr) .....	\$ 300.00
Project Geologist (2.5hrs @ \$85/hr) .....	\$ 212.50
Senior Geologist (0.5 hrs @ \$95/hr) .....	\$ 47.70
	-----
Estimated Sample Event Total:	\$ 5,305.20
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<b>Estimated Project Total:</b>	<b>\$ 10,610.40</b>

Proposal For Supplemental Ground Water Monitoring for  
Good Chevrolet, 1630 Park Street, Alameda, CA

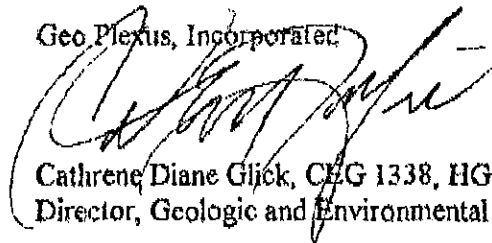
October 5, 2000  
Page 3

Our fees would not exceed the estimated total without direct written changes to this Proposal and written directives from the client.

Should you require additional information at this time, or would like to discuss current/future needs, please contact us.

Respectfully submitted,

Geo Plexus, Incorporated



Cathrene Diane Glick, CEG 1338, HG 32  
Director, Geologic and Environmental Services

**Geo Plexus, Incorporated**

1900 Wyatt Drive, Suite 1, Santa Clara, California 95054 Phone 408/987-0210 Fax 408/988-0815

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

StID 906

October 4, 2000

Ms. JoAnn Stewart  
Good Chevrolet  
1630 Park Street  
Alameda, CA 94501

**RE: Reinstatement of Groundwater Monitoring at 1630 Park Street, Alameda, CA**

Dear Ms. Stewart:

I have completed review of GeoPlexus' October 2000 *Supplemental Ground Water Monitoring Work Plan* prepared for the above referenced site. The proposal to reinstate quarterly groundwater monitoring for another two quarters is acceptable with the following changes/additions:

- When the former waste oil tank was removed, there was no analysis for solvents or metals in soil and groundwater samples collected. Therefore, groundwater from Well MW-2 should also be analyzed for chlorinated solvents and dissolved metals (Cd, Cr, Pb, Ni, and Zn). The water sample for metal analysis should be filtered in the field.

After two consecutive quarterly sampling events, a table of concentration vs. time vs. depth to water should be prepared to evaluate contaminant concentration trends. If it appears that the plume is stable or decreasing, it may not be necessary to conduct active remediation at the site.

Groundwater monitoring should resume as soon as possible. If you have any questions, I can be reached at (510) 567-6762.

eva chu  
Hazardous Materials Specialist

c: Cathrene Glick, GeoPlexus, 1900 Wyatt Drive, Suite 1, Santa Clara, CA 95054  
Hari Patel, SWRCB, UST Cleanup Fund, P.O. Box 944212, Sacramento, CA  
94244-2120

# GeoPlexus, Inc.

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

February 12, 2001

Ms. Jo Ann Stewart  
General Manager  
Good Chevrolet  
1630 Park Street  
Alameda, California 94501

*Commercial GW reports to indoor air pass  
Residential GW reports to indoor air -  
RBSCS exceeded*

**Subject: Supplemental Ground Water Monitoring Report for  
Good Chevrolet, 1630 Park Street, Alameda, CA**

*Can do RMP w/ deed  
restriction -*

Dear Ms. Stewart:

Geo Plexus, Incorporated is pleased to present this Supplemental Ground Water Monitoring Report to support site closure. The traffic/well box for MW-4 has been depressed into the pavement of Park Street and could not be accessed without jeopardizing the existing integrity of the well box. As such, the monitoring well was not sampled during this event.

The monitoring wells continue to exhibit low to moderate concentrations of Total Petroleum Hydrocarbons as gasoline and Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) suggesting that the source of these compounds is the former underground storage tanks. However, the concentrations reduce significantly with distance from the source area and there is no detectable presence of MTBE in the ground water.

It remains our opinion that the project site should be considered for closure as a "low risk" site without further investigation or remediation.

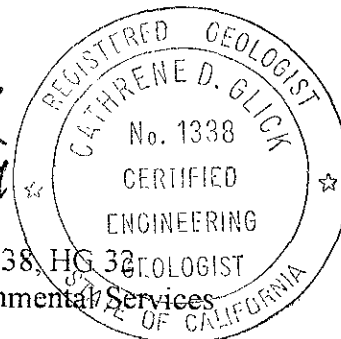
One copy of this Report should be forwarded to:

Ms. Eva Chu  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

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.

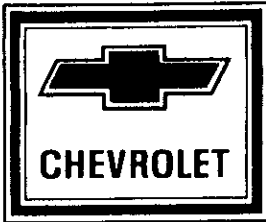
Respectfully submitted,  
Geo Plexus, Incorporated

*Cathrene D. Glick*  
Cathrene Diane Glick, CEG 1338, HG 32  
Director, Geologic and Environmental Services



**Geo Plexus, Incorporated**

683 McCarty Avenue, Mountain View, California 94041 Phone 650/314-0494 Fax 650/313-0493



# GOOD CHEVROLET

1630 Park Street • Phone 510/522-9221  
ALAMEDA, CA 94501

MAR 30 2001

March 27, 2001

Ms. Eva Chu  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, CA 94501

MAR 30

RE: Good Chevrolet -- 1630 Park Street, Alameda, CA

Dear Ms. Chu:

Enclosed is a copy of Geo Plexus, Inc. monitoring report for first quarter 2001.  
After you have had an opportunity to review the, please give me a call.

Thank you,

GOOD CHEVROLET

JoAnn Stewart

JKS:js

Enclosure





**SUPPLEMENTAL GROUND WATER MONITORING REPORT  
FOR  
GOOD CHEVROLET  
1630 PARK STREET, ALAMEDA, CA**

Prepared for:

Good Chevrolet  
1630 Park Street  
Alameda, California 94501

February 12, 2001

**SUPPLEMENTAL GROUND WATER MONITORING REPORT  
FOR  
GOOD CHEVROLET  
1630 PARK STREET, ALAMEDA, CA**

**1.0 SITE DATA REVIEW**

The project site is an automobile dealership and service center located at 1630 Park Street in the City of Alameda, in Alameda County, California as indicated on Figure 1.

A 300 gallon waste oil storage tank and a 500 gallon underground gasoline storage tank were reportedly removed from the property by Petroleum Engineering, Inc. in October, 1986. A subsurface investigation including installation of three ground water monitoring wells (see Figure 2) was performed by Groundwater Technology, Inc. in January, 1987 (Groundwater Technology, Inc. Report Dated April 29, 1987). The three monitoring wells were monitored to evaluate the ground water conditions and to establish the direction(s) of ground water flow at the project site. The monitoring determined that the direction of flow beneath the site varies from a northwesterly direction to a northeasterly direction throughout the year. The quarterly sampling has also detected Total Petroleum Hydrocarbons as gasoline and Volatile Aromatic Compounds at various concentrations throughout the year.

A supplemental investigation was performed by Geo Plexus which included advancing 7 soil borings across the parking area of the property (see Figure 2). This investigation identified high concentrations of Total Petroleum Hydrocarbons as gasoline and Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) in the immediate vicinity of the former underground storage tanks at depths of 5-12 feet below the ground surface. The borings identified concentrations of Total Petroleum Hydrocarbons as gasoline as high as 15,000 parts per million (ppm) decreasing to 1,000 ppm within 30-feet from the former tanks (lateral direction) and decreasing to 1,800 ppm at the down-gradient property boundary.

Two additional ground water monitoring wells were installed by Geo Plexus in April, 1994 to further characterize the down-gradient water conditions. The findings of the initial ground water samples indicated a significant increase in concentrations of Total Petroleum Hydrocarbons as gasoline and Volatile Aromatic Compounds down-gradient of the property. The ground water levels recorded to date reflect fluctuations ranging from 3 to 13 feet below the ground surface and indicate that ground water generally flows in a northwest direction.

A Remedial Investigation was performed by Geo Plexus in April, 1997 which included advancing eight (8) subsurface exploratory geo-probes at locations which were immediately "up-", "down", and "cross-gradient" from the former underground storage tanks (see Figure 3). Grab ground water samples were also obtained from the probes for analytical testing.

The findings of the investigation indicated that gasoline contaminated soil remain in-place at the project site and is confined to depths ranging from 7- to 11-feet below the ground surface and is of limited extent.

The concentrations of Benzene in the soil exceed the ASTM RBCA Tier-1 RBSL's for contaminant leaching to ground water and gas migration to indoor air. Similarly, the concentrations of Benzene in the ground water exceed the Tier-1 RBSL's for ground water ingestion and gas migration to indoor air, however, the concentrations are below the Tier-1 RBSL's for gas migration to outdoor air. It was concluded that the site conditions did not warrant active ground water remediation.

## **2.0 RISK ASSESSMENT INVESTIGATION**

A Risk Assessment Investigation was performed in November, 1998 which included: advancing three (3) gas collection probes at the site to obtain soil gas measurements within and exterior to the existing building; collection of summa canister gas samples from each probe from depths of 3-feet; performing analytical testing of the air bag samples for gasoline, volatile aromatic, and volatile organic compounds; collection of ground water samples from the existing monitoring wells for analytical testing; performing analytical testing of the ground water samples for gasoline, volatile aromatic, and volatile organic compounds; and performing a Tier-II ASTM Risk-Based Corrective Action (RBCA) assessment for the project site.

Three (3) gas collection probes were advanced at the locations indicated on Figure 4 by Precision Sampling, a licensed C-57 drilling contractor. The probes were advanced using a portable pneumatic drive assembly. Drilling and sampling equipment used for advancing the exploratory probes was thoroughly steam cleaned before and between each boring to prevent the introduction of off-site contamination and cross contamination between borings. Soil gas samples were obtained at depths of 3-feet below the ground surface through the use of summa canisters.

Analytical testing of the soil gas probe samples did not indicate the presence of significant volatile organic vapors within the upper 3-feet of soil at the "source area". This confirmed that, although some soil and ground water contaminants remains, the extent of off-gassing through the upper soils is very low and does not represent a significant health risk.

## **3.0 CURRENT GROUND WATER MONITORING**

### **3.1 GRADIENT SURVEY**

The elevation of the top of the casing of the monitoring wells at the site were established during previous investigations with reported vertical control of 0.01 foot. Ground water elevations were measured in each well to the nearest 0.01 foot with an electronic water level meter (prior to purging) to monitor the variations in the direction and gradient of ground water flow beneath the site.

Ground water elevations recorded suggest that the ground water flow is to the northwest as indicated on Figure 5. The ground water gradient was determined to be 0.011 ft/ft (see Figure 5). The direction of ground water is consistent with previously observed flow directions.

### 3.2 MONITORING WELL SAMPLING

Free product measurements were obtained for each monitoring well at the time of sample acquisition utilizing a teflon bailer lowered into the well to obtain a water sample. The traffic/well box for MW-4 has been depressed into the pavement of Park Street and could not be accessed without jeopardizing the existing integrity of the well box. As such, the monitoring well was not sampled during this event. The bailer was used to collect a water sample to observe the presence of hydrocarbon odors, visible sheen, or free product. Free product or visible sheens were not observed in the water samples.

To evaluate the stabilized ground water conditions across the property established by the vapor extraction system, it was determined to comply with recent Regional Water Quality Control Board "No-Purge" guidelines, the wells were not purged and the ground water grab samples were collected from each well through the use of a dedicated teflon bailer.

Water samples for analytical testing were obtained through the use of dedicated teflon bailers 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 (HCl) added to the sample. The samples were placed on ice immediately for transport to the laboratory under chain-of-custody documentation

### 3.3 GROUND WATER ANALYTICAL TESTING

The ground water samples were submitted to and tested by McCampbell Analytical, a State of California, Department of Health Services certified testing laboratory. Analytical testing was scheduled and performed in accordance with the State of California, Regional Water Quality Control Board, and Alameda County Department of Environmental Health guidelines. The samples were tested for the following:

- Total Petroleum Hydrocarbons as gasoline by RWQCB Method GCFID 5030/8015;
- Volatile Aromatics (BTEX ) by EPA Method 8020/602;
- Fuel Oxygenates by EPA Method 8260; and
- EDB and EDC by EPA Method 8010/601.

The Chain-of-Custody Form and analytical test data are attached in Appendix A.

Table 1 summarizes the current analytical test results for the monitoring well samples, along with the results of the previous analytical testing.

**TABLE 1**  
**SUMMARY OF GROUND WATER ANALYTICAL TEST DATA**

<u>Date Sample</u>	<u>Total Petroleum Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-Benzene</u>	<u>Total Xylenes</u>	<u>MTBE</u>
<b>Monitoring Well MW-1</b>						
1-21-87 <sup>(1)</sup>	21,020	1,148	8,627	1,792	6,012	
1-11-89 <sup>(1)</sup>	1,400	74	10	13	5	
7-12-89 <sup>(1)</sup>	1,200	470	49	45	33	
4-09-91 <sup>(2)</sup>	850	260	10	15	12	
7-14-92 <sup>(3)</sup>	13,000	2,300	1,200	1,200	1,200	
10-7-92 <sup>(3)</sup>	3,600	1,600	80	120	120	
1-11-93 <sup>(3)</sup>	1,200	410	16	23	19	
4-23-93 <sup>(3)</sup>	2,200	720	180	82	150	
7-08-93 <sup>(3)</sup>	3,200	1,200	110	97	100	
10-15-93 <sup>(3)</sup>	3,700	1,400	43	94	36	
1-25-94 <sup>(3)</sup>	1,600	680	16	41	35	
4-28-94 <sup>(3)</sup>	6,100	1,900	380	250	340	
7-27-94 <sup>(3)</sup>	6,000	1,800	510	220	450	
10-27-94 <sup>(3)</sup>	3,000	1,100	79	82	87	
1-26-95 <sup>(3)</sup>	1,600	660	100	82	87	
4-13-95 <sup>(3)</sup>	3,800	1,200	270	120	260	
7-21-95 <sup>(3)</sup>	5,200	1,500	450	190	400	
10-25-95 <sup>(3)</sup>	5,900	1,800	450	210	400	
1-21-97 <sup>(3)</sup>	3,100	1,100	87	160	180	ND<7.3
11-12-98 <sup>(3)</sup>	1,000	280	3.0	3.3	7.9	ND<30
1-16-01 <sup>(3)</sup>	4,700	1,200	18	150	49	ND<5
<b>Monitoring Well MW-2</b>						
1-21-87 <sup>(1)</sup>	5,018	386	1,981	285	1,432	
1-11-89 <sup>(1)</sup>	10,000	3,000	410	240	190	
7-12-89 <sup>(1)</sup>	7,600	2,700	540	250	320	
4-09-91 <sup>(2)</sup>	4,900	910	210	130	200	
7-14-92 <sup>(3)</sup>	13,000	4,400	1,500	610	1,100	
10-7-92 <sup>(3)</sup>	11,000	5,200	1,500	500	1,200	
1-11-93 <sup>(3)</sup>	17,000	940	1,100	480	930	
4-23-93 <sup>(3)</sup>	52,000	13,000	8,400	1,700	5,300	
7-08-93 <sup>(3)</sup>	6,400	2,500	470	280	530	
10-15-93 <sup>(3)</sup>	17,000	3,900	870	500	940	
1-25-94 <sup>(3)</sup>	16,000	5,400	1,140	640	1,500	
4-28-94 <sup>(3)</sup>	15,000	4,000	910	480	1,200	
7-27-94 <sup>(3)</sup>	18,000	6,000	760	630	1,600	
10-27-94 <sup>(3)</sup>	9,500	2,700	230	320	640	

**TABLE 1 (cont'd)**  
**SUMMARY OF GROUND WATER ANALYTICAL TEST DATA**

<u>Date</u> <u>Sample</u>	<u>Total Petroleum</u> <u>Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-</u> <u>Benzene</u>	<u>Total</u> <u>Xylenes</u>	<u>MTBE</u>
<b>Monitoring Well MW-2 (cont'd)</b>						
1-26-95 <sup>(3)</sup>	5,900	1,900	290	230	500	
4-13-95 <sup>(3)</sup>	10,000	3,300	620	360	930	
7-21-95 <sup>(3)</sup>	9,900	3,300	320	390	830	
10-25-95 <sup>(3)</sup>	13,000	4,900	400	580	990	
1-21-97 <sup>(3)</sup>	7,600	2,600	310	330	660	ND<20
11-12-98 <sup>(3)</sup>	31,000	11,000	750	1,500	2,300	ND<900
1-16-01 <sup>(3)</sup>	23,000	8,200	260	1,000	820	ND<30
<b>Monitoring Well MW-3</b>						
1-21-87 <sup>(1)</sup>	10,287	1,428	3,281	610	2,761	
1-11-89 <sup>(1)</sup>	5,300	1,800	340	150	160	
7-12-89 <sup>(1)</sup>	7,800	3,100	900	300	480	
4-09-91 <sup>(2)</sup>	9,400	1,400	730	200	510	
7-14-92 <sup>(3)</sup>	17,000	3,500	390	390	260	
10-7-92 <sup>(3)</sup>	9,200	4,300	470	390	610	
1-11-93 <sup>(3)</sup>	2,000	740	29	58	28	
4-23-93 <sup>(3)</sup>	6,500	2,600	280	260	190	
7-08-93 <sup>(3)</sup>	5,200	2,100	260	250	180	
10-15-93 <sup>(3)</sup>	11,000	3,500	580	430	370	
1-25-94 <sup>(3)</sup>	6,200	2,500	270	160	28	
4-28-94 <sup>(3)</sup>	5,300	1,700	190	210	180	
7-27-94 <sup>(3)</sup>	5,900	2,000	360	260	330	
10-27-94 <sup>(3)</sup>	8,000	2,200	580	260	470	
1-26-95 <sup>(3)</sup>	3,700	1,200	150	150	190	
4-13-95 <sup>(3)</sup>	4,000	1,400	200	180	210	
7-21-95 <sup>(3)</sup>	5,700	2,000	280	270	280	
10-25-95 <sup>(3)</sup>	11,000	3,500	1,100	460	680	
1-21-97 <sup>(3)</sup>	2,200	860	63	71	80	ND
11-12-98 <sup>(3)</sup>	180	44	0.51	ND	0.92	ND<20
1-16-01 <sup>(3)</sup>	64	11	0.77	ND	ND	ND<5

**TABLE 2 (cont'd)**  
**SUMMARY OF GROUND WATER ANALYTICAL TEST DATA**

<u>Date</u> <u>Sample</u>	<u>Total Petroleum</u> <u>Hydrocarbons</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl-</u> <u>Benzene</u>	<u>Total</u> <u>Xylenes</u>	<u>MTBE</u>
<b>Monitoring Well MW-4</b>						
4-28-94 <sup>(3)</sup>	190	3.8	2.9	2.1	3.1	
7-27-94 <sup>(3)</sup>	180	15	9.2	7.6	28	
10-27-94 <sup>(3)</sup>	130	8.6	6.6	4.5	17	
1-26-95 <sup>(3)</sup>	110	6.5	1.2	1.8	11	
4-13-95 <sup>(3)</sup>	82	3.9	N.D.	N.D.	2.5	
7-21-95 <sup>(3)</sup>	130	8.8	1.3	4.5	7.6	
10-25-95 <sup>(3)</sup>	95	6.6	1.7	4.3	7.0	
1-21-97 <sup>(3)</sup>	not sampled					
11-12-98 <sup>(3)</sup>	not sampled					
1-16-01 <sup>(3)</sup>	not accessible					
<b>Monitoring Well MW-5</b>						
4-28-94 <sup>(3)</sup>	30,000	4,000	3,000	810	3,500	
7-27-94 <sup>(3)</sup>	9,300	2,000	800	290	940	
10-27-94 <sup>(3)</sup>	15,000	2,700	1,300	420	1,100	
1-26-95 <sup>(3)</sup>	7,900	2,100	680	240	860	
4-13-95 <sup>(3)</sup>	7,900	2,400	580	340	630	
7-21-95 <sup>(3)</sup>	11,000	3,400	760	610	1,200	
10-25-95 <sup>(3)</sup>	13,000	2,900	830	570	1,100	
1-21-97 <sup>(3)</sup>	2,600	750	65	1860	280	ND
11-12-98 <sup>(3)</sup>	ND	2.2	ND	ND	ND	ND
1-16-01 <sup>(3)</sup>	ND	11	ND	ND	0.82	ND<5

Note: (1) Concentrations reported by Groundwater Technology, Inc.  
 (2) Concentrations reported by Environmental Science & Engineering, Inc.  
 (3) Samples obtained and reported by Geo Plexus, Inc.

Figures 6 and 7 indicate the concentration distribution maps for Total Petroleum Hydrocarbons as gasoline and Benzene, respectively.

### **7.0 SUMMARY OF FINDINGS**

The analytical test data from the previous investigation activities indicate that low to moderate concentrations of Total Petroleum Hydrocarbons as gasoline and Volatile Aromatic Compounds (BTEX) remain in the soil in the immediate vicinity of the former tanks; however, the extent of soil contamination is limited. There is no significant presence of MTBE in the soil. The highest concentrations of gasoline were detected in Borings EB-9, 10, and 11 which are located down-gradient of the former tanks and dispenser pump. The remaining samples indicate that the soil contamination extends in a radial pattern (cross- and down-gradient) from the former tank area.

The monitoring wells continue to exhibit low to moderate concentrations of Total Petroleum Hydrocarbons as gasoline and Volatile Aromatic Compounds (Benzene, Toluene, Ethyl Benzene, and Xylene) suggesting that the source of these compounds is the former underground storage tanks. However, the concentrations reduce significantly with distance from the source area and there is no detectable presence of MTBE in the ground water.

### **RECOMMENDATIONS**

It continues to be our opinion that the project site should be considered for closure as a "low risk" site without further investigation or remediation.



### LIMITATIONS

This report has been prepared for the exclusive use of Good Chevrolet and their authorized representatives. No reliance on this report shall be made by anyone other than the client for whom it was prepared.

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.

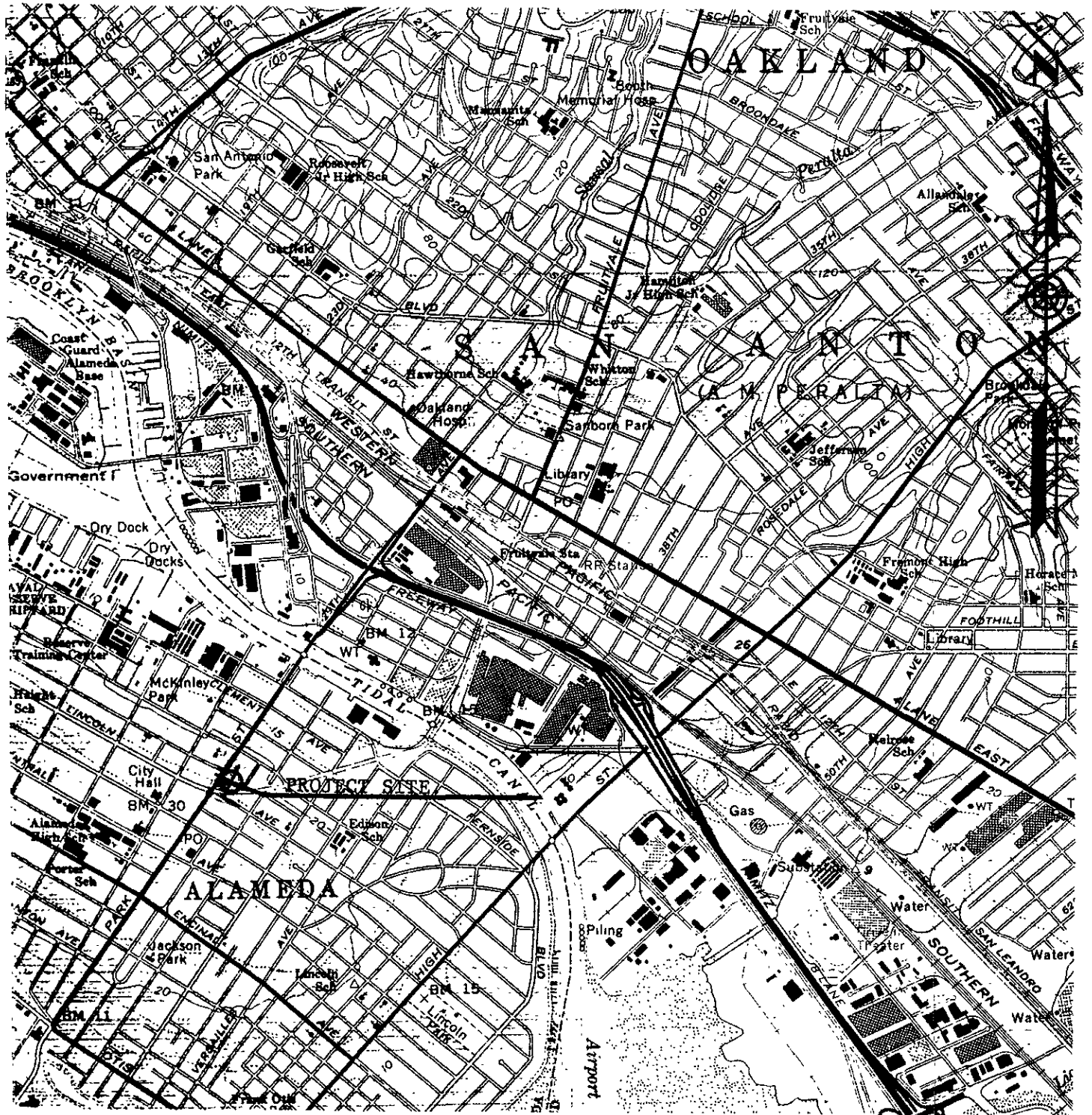
This report provides neither certification nor guarantee that the property is free of hazardous substance contamination.

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



GOOD CHEVROLET		
DATE 10-9-92	SCALE 1"=2000'	DRAWN BY deg
LOCATION MAP		
		Figure 1

GeoPlexus, Inc.

SIDEWALK

MW-3

GOOD CHEVROLET  
SHOW ROOM

EB5

MW-2

EB4

APPROXIMATE  
LIMITS OF  
PREVIOUS  
EXCAVATION

SB4

EB6

EB3

APPROXIMATE  
LOCATION OF  
FORMER  
STORAGE  
TANKS

MW-1

PROPERTY FENCE LINE

EB2

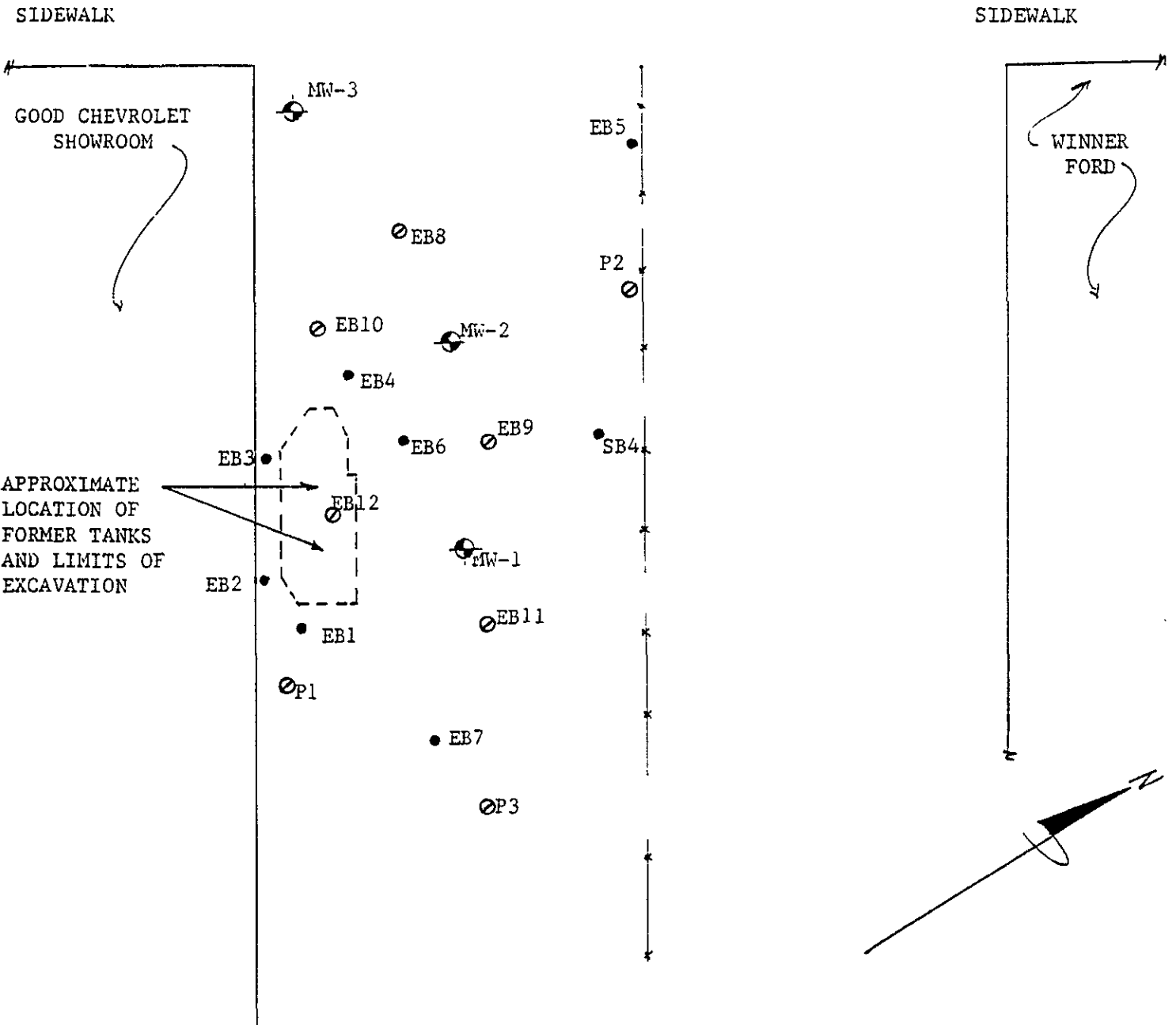
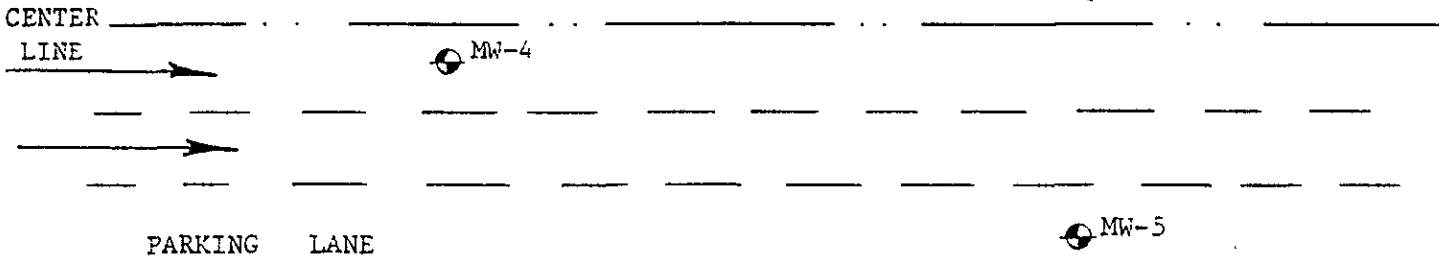
EB1

SERVICE CENTER

EB7

GOOD CHEVROLET		
DATE 10/25/93	SCALE 1"=10'	DRAWN BY dgc
SITE PLAN		
		Figure 2

ARROW INDICATES DIRECTION OF TRAFFIC FLOW



- ⊕ Monitoring Wells
- Borings Previous Studies
- ⊙ Borings Previous Study 1/97

GeoPlexus, Inc.

GOOD CHEVROLET		
DATE 12/5/98	SCALE 1"=20'	DRAWN BY dcb
BORING LOCATION PLAN		
		Figure 3

ARROW INDICATES DIRECTION OF TRAFFIC FLOW

CENTER LINE

PARKING LANE

SIDEWALK

SIDEWALK

GOOD CHEVROLET SHOWROOM

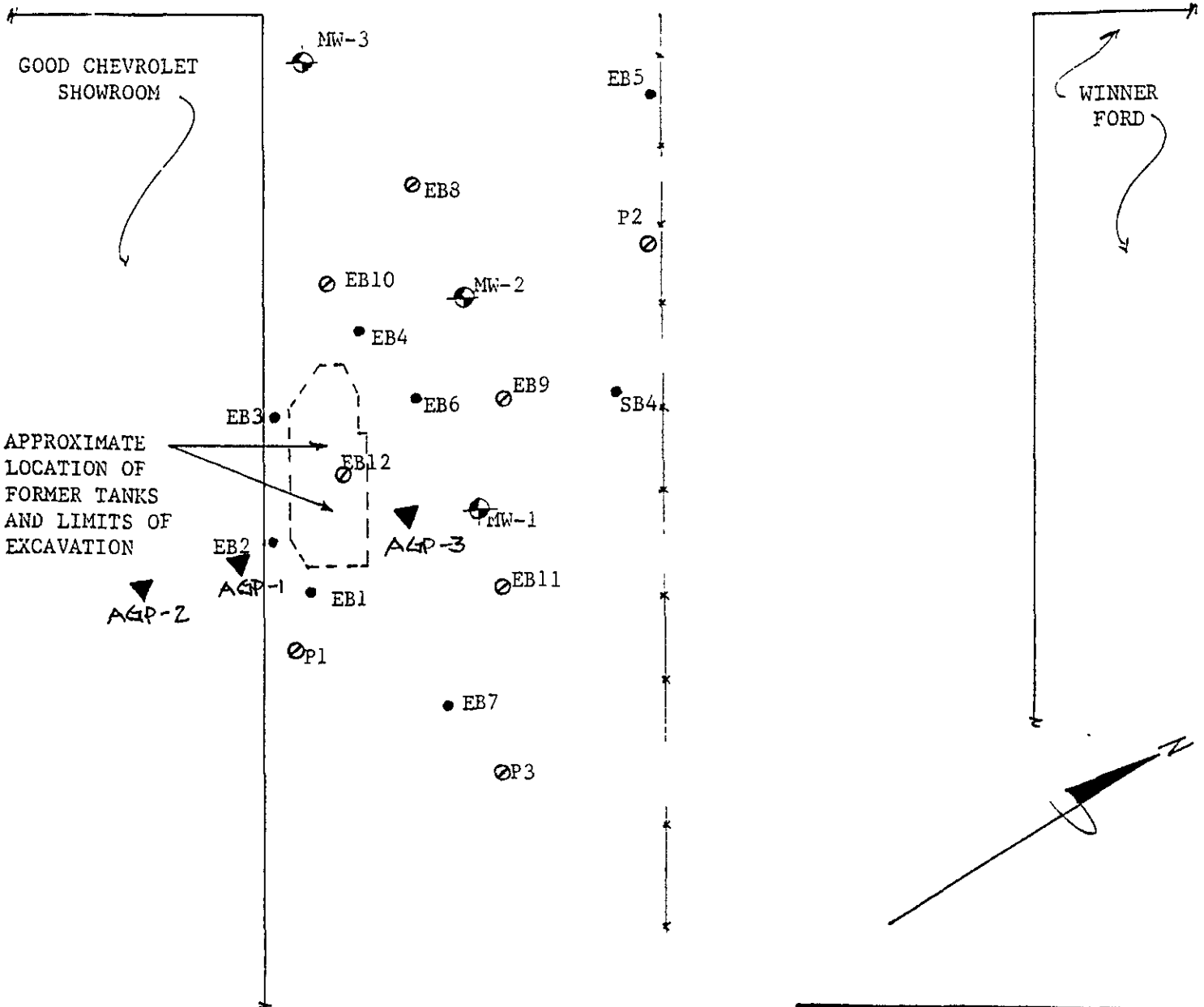
WINNER FORD

APPROXIMATE LOCATION OF FORMER TANKS AND LIMITS OF EXCAVATION

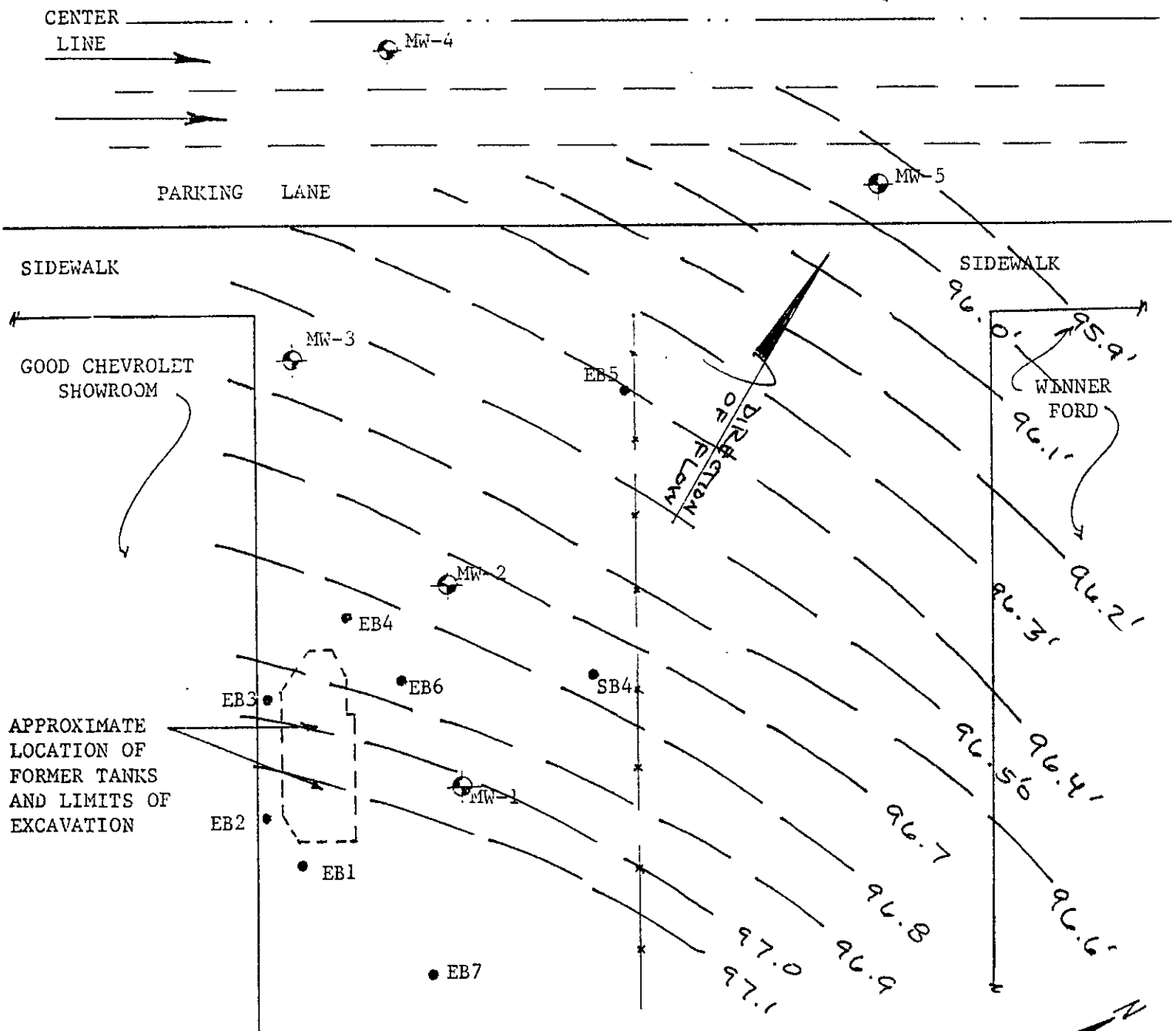
- ⊕ Monitoring Wells
- Borings Previous Studies
- ⊙ Borings Previous study 1/97

GeoPlexus, Inc.

GOOD CHEVROLET		
DATE 12/5/98	SCALE 1"=20'	DRAWN BY dcb
SOIL GAS PROBE LOCATION PLAN		
		Figure 4



ARROW INDICATES DIRECTION OF TRAFFIC FLOW



APPROXIMATE LOCATION OF FORMER TANKS AND LIMITS OF EXCAVATION

JANUARY, 2001

	CASING ELEVATION	DEPTH TO WATER	WATER ELEVATION
--	------------------	----------------	-----------------

MW-1	104.76	7.70	97.06
MW-2	104.86	8.08	96.78
MW-3	104.52	8.00	96.52
MW-4	104.86	----	----
MW-5	103.62	7.67	95.95

Note: Casing and ground water elevations based on Temporary Bench Mark (TBM) with an assumed elevation of 100.00 feet.

GOOD CHEVROLET		
DATE	SCALE 1"=20'	DRAWN BY dgc
		Figure 5

ARROW INDICATES DIRECTION OF TRAFFIC FLOW

CENTER LINE

PARKING LANE

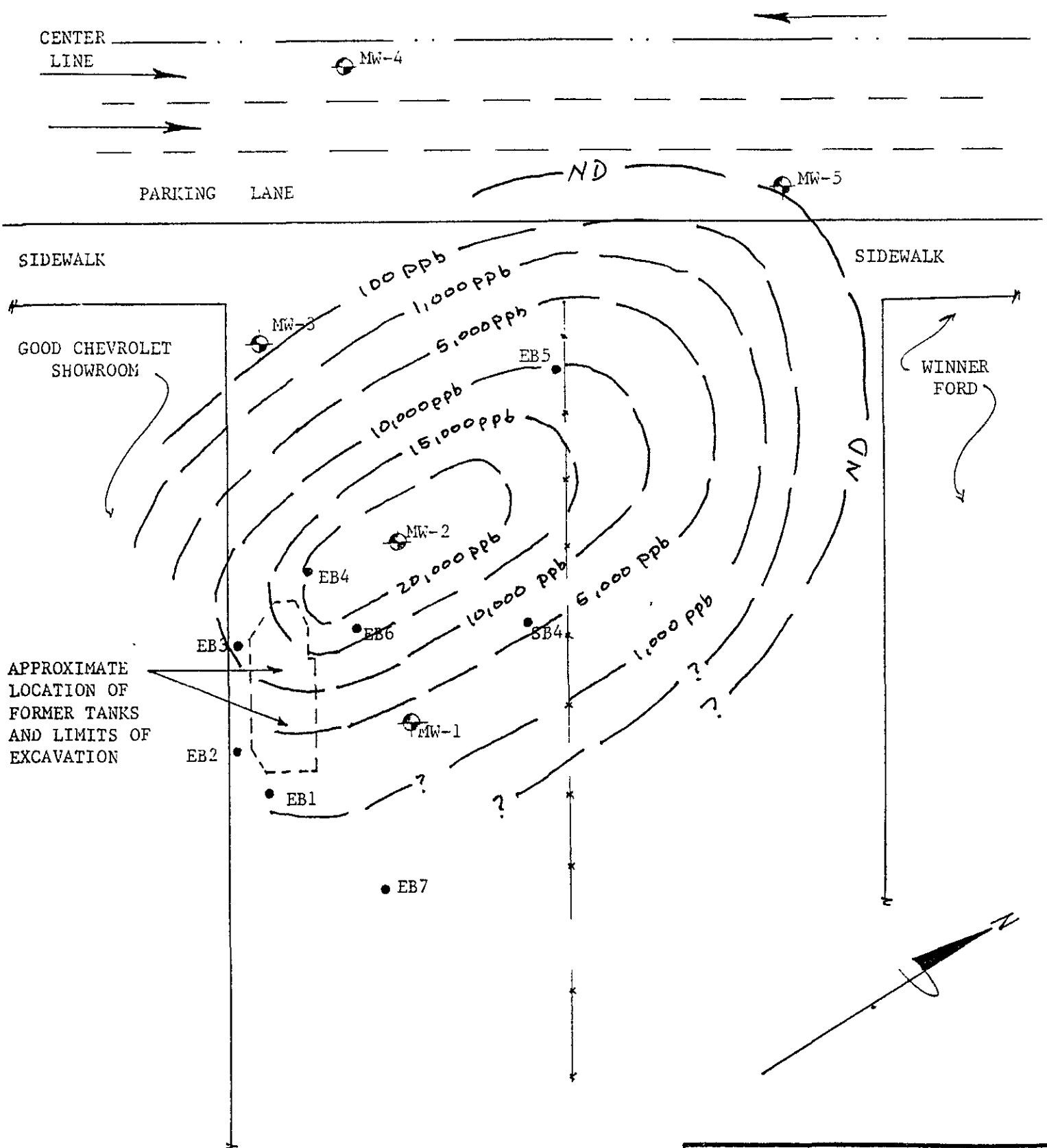
SIDEWALK

GOOD CHEVROLET SHOWROOM

APPROXIMATE LOCATION OF FORMER TANKS AND LIMITS OF EXCAVATION

SIDEWALK

WINNER FORD



GOOD CHEVROLET		
DATE JAN 2001	SCALE 1"=20'	DRAWN BY dcg
TPH GAS IN GROUNDWATER		
Figure 6		

ARROW INDICATES DIRECTION OF TRAFFIC FLOW

CENTER LINE

PARKING LANE

SIDEWALK

SIDEWALK

GOOD CHEVROLET SHOWROOM

WINNER FORD

APPROXIMATE LOCATION OF FORMER TANKS AND LIMITS OF EXCAVATION

GeoPlexus, Inc.

MW-4

MW-5

MW-3

MW-2

MW-1

EB5

EB4

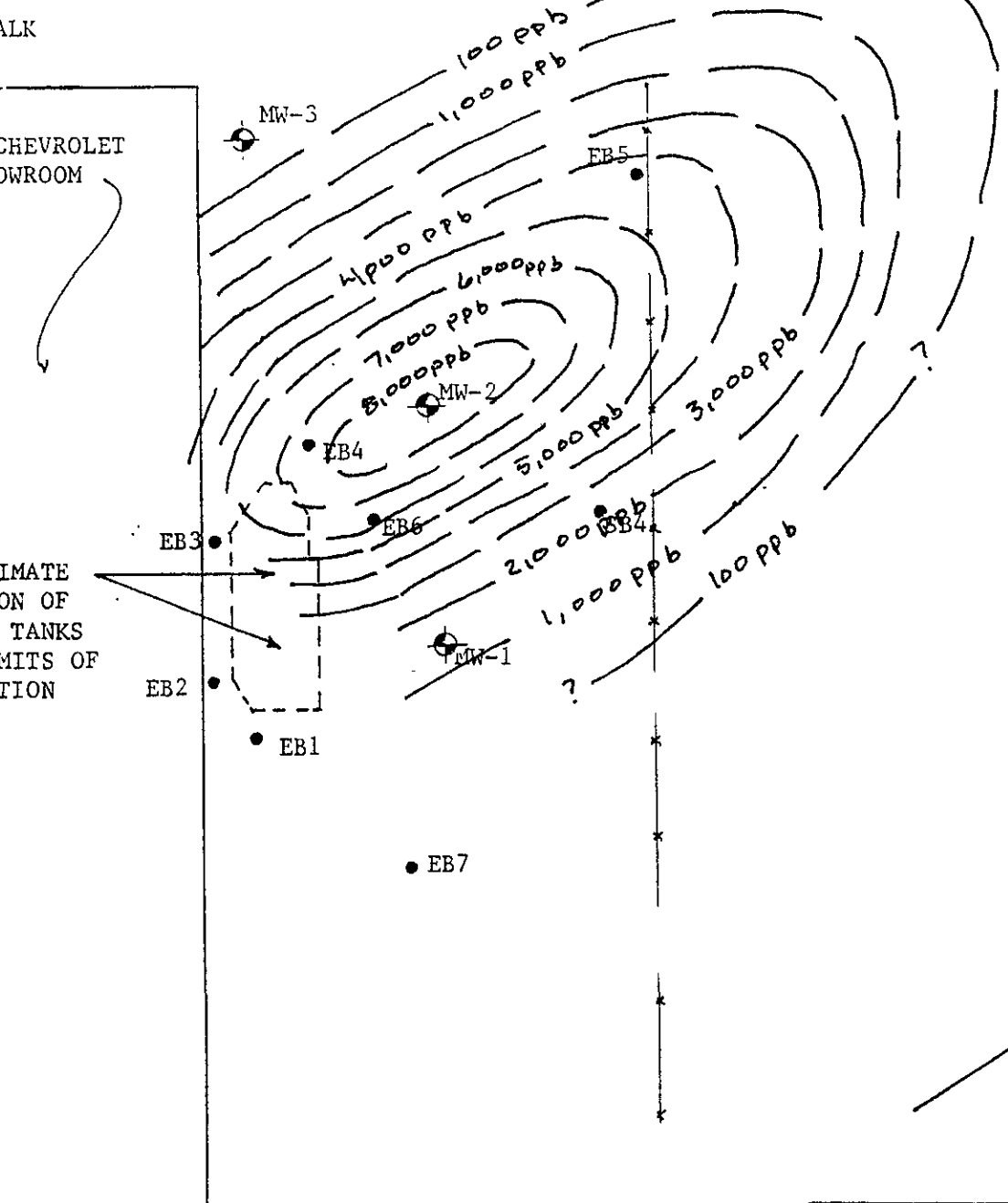
EB3

EB6

EB2

EB1

EB7



GOOD CHEVROLET		
DATE JAN 2001	SCALE 1"=20'	DRAWN BY dcg
BENZENE IN GROUNDWATER		
		Figure 7



**APPENDIX A**  
**CHAIN-OF-CUSTODY FORM**  
**AND**  
**ANALYTICAL TEST DATA**

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis						Condition of Samples	Initial
		GOOD CHEVROLET								TPH <sub>g</sub> /GAL/MIN	OXYGEN/MIN	PH	CO <sub>2</sub> /GAL		
Send Report Attention of:			Report Due		Verbal Due										
CATHERINE GLICK			/ /		/ /										
Sample Number	Date	Time	Comp	Grab	Station Location										
+ MW1-WS1A,B	1/16/01	1127		/	MONITORING WELL 1	2EA	Acidified 40 ml WSP	✓	✓	✓			58060		
+ MW2-WS1A,B		1110		/	MONITORING WELL 2			✓	✓	✓			58061		
+ MW3-WS1A,B		1050		/	MONITORING WELL 3			✓	✓	✓			58062		
+ MW5-WS1A,B		1143		/	MONITORING WELL 4			✓	✓	✓			58063		
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	Remarks: STANDARD TURNAROUND									
<i>[Signature]</i>		1/17/01	<i>[Signature]</i>		1/17 10:45										
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time	All Reports to Address Below:									
<i>[Signature]</i>		1/17 12:4	<i>[Signature]</i>		01/17 12:40	683 MCCARTY AVENUE MOUNTAIN VIEW, CA 94041 408-987-0210 FAX 650 314-0493									
Relinquished by: (Signature)		Date/Time	Received by: (Signature)		Date/Time										

L'SV



McCAMPBELL ANALYTICAL INC.

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Telephone : 925-798-1620 Fax : 925-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

Geo Plexus, Inc. 683 McCarty Avenue Mountain View, CA94041	Client Project ID: Good Chevrolet	Date Sampled: 01/16/01
	Client Contact: Cathrene Glick	Date Received: 01/17/01
	Client P.O:	Date Analyzed: 01/18/01
		Date Extracted: 01/18/01

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*, with Methyl tert-Butyl Ether\* & BTEX\***  
EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) <sup>+</sup>	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes	% Recovery Surrogate
58060	MW1-WS,A,B	W	4700,a	ND<50	1200	18	150	49	100
58061	MW2-WS,A,B	W	23,000,a	ND<200	8200	260	1000	820	96
58062	MW3-WS,A,B	W	64,a	ND	11	0.77	ND	ND	---#
58063	MW5-WS,A,B	W	ND	ND	11	ND	ND	0.82	---#
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	5.0	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

\* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

\* cluttered chromatogram; sample peak coelutes with surrogate peak

\*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

 Edward Hamilton, Lab Director



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	Client Contact: Cathrene Glick	Date Extracted: 01/19-01/22/01
	Client P.O:	Date Analyzed: 01/19-01/22/01

**Oxygenated Volatile Organics By GC/MS**

EPA method 8260 modified


Lab ID	58060	58061	58062	58063	Reporting Limit	
Client ID	MW1-WS,A,B	MW2-WS,A,B	MW3-WS,A,B	MW5-WS,A,B		
Matrix	W	W	W	W	S	W
Compound	Concentration*				ug/kg	ug/L
Di-isopropyl Ether (DIPE)	ND<5.0	ND<30	ND	ND	5.0	1.0
Ethyl tert-Butyl Ether (ETBE)	ND<5.0	ND<30	ND	ND	5.0	1.0
Methyl-tert Butyl Ether (MTBE)	ND<5.0	ND<30	ND	ND	5.0	1.0
tert-Amyl Methyl Ether (TAME)	ND<5.0	ND<30	ND	ND	5.0	1.0
tert-Butanol	ND<25	ND<150	ND	ND	25	5.0

**Surrogate Recoveries (%)**

Dibromofluoromethane	96	95	107	108	
Comments:	j	j			

\* water samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L  
 ND means not detected above the reporting limit; N/A means surrogate not applicable to this analysis  
 (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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		Date Received: 01/17/01
	Client Contact: Cathrene Glick	Date Extracted: 01/19-01/22/01
	Client P.O:	Date Analyzed: 01/19-01/22/01


**Ethylene Dibromide (1,2-Dibromoethane) and 1,2-Dichloroethane (1,2-DCA)**

EPA method 8260

Lab ID	Client ID	Matrix	EDB <sup>+</sup>	1,2-DCA <sup>+</sup>	% Recovery Surrogate
58060	MW1-WS,A,B	W	ND<5.0,j	ND<5.0	96
58061	MW2-WS,A,B	W	ND<30,j	ND<30	95
58062	MW3-WS,A,B	W	ND	1.4	107
58063	MW5-WS,A,B	W	ND	ND	108
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	1.0 ug/L	1.0 ug/L		
	S	5.0 ug/kg	5.0 ug/kg		

\* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L.  
h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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### QC REPORT

Date: 01/18/01 Matrix: Water

Extraction: TTLC

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 121800

Instrument: GC-3

Surrogate1	0.000	101.0	104.0	100.00	101	104	2.9
Xylenes	0.000	28.2	27.1	30.00	94	90	4.0
Ethyl Benzene	0.000	9.6	9.2	10.00	96	92	4.3
Toluene	0.000	9.7	10.0	10.00	97	100	3.0
Benzene	0.000	9.8	10.3	10.00	98	103	5.0
MTBE	0.000	9.9	10.3	10.00	99	103	4.0
GAS	0.000	83.9	78.2	100.00	84	78	7.1

SampleID: 11601

Instrument: MB-1

Oil & Grease	0.000	18.4	18.6	23.70	78	78	1.1
--------------	-------	------	------	-------	----	----	-----

SampleID: 11701

Instrument: GC-11 A

Surrogate1	0.000	117.0	115.0	100.00	117	115	1.7
TPH (diesel)	0.000	8625.0	8625.0	7500.00	115	115	0.0

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2100$$

RPD means Relative Percent Deviation



## QC REPORT

## VOCs (EPA 8240/8260)

Date: 01/18/01-01/19/01 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L			Amount Spiked	%Recovery		RPD
	Sample	MS	MSD		MS	MSD	
SampleID: 12201							
					Instrument: GC-10		
Surrogate	0.000	91.0	91.0	100.00	91	91	0.0
tert-Amyl Methyl Ether	0.000	117.0	115.0	100.00	117	115	1.7
Methyl tert-Butyl Ether	0.000	114.0	113.0	100.00	114	113	0.9
Ethyl tert-Butyl Ether	0.000	116.0	116.0	100.00	116	116	0.0
Di-isopropyl Ether	0.000	119.0	118.0	100.00	119	118	0.8
Toluene	0.000	99.0	100.0	100.00	99	100	1.0
Benzene	0.000	110.0	109.0	100.00	110	109	0.9
Chlorobenzene	0.000	104.0	105.0	100.00	104	105	1.0
Trichloroethane	0.000	97.0	98.0	100.00	97	98	1.0
1,1-Dichloroethene	0.000	128.0	130.0	100.00	128	130	1.6

$$\% \text{ Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation