

12 June 2007

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

**Subject: Revised Proposal for Environmental Consulting Services  
Good Chevrolet  
Alameda, California**

Dear Ms. Stewart:

At your request, Geosyntec Consultants, Inc. (Geosyntec) is pleased to provide this revised proposal to Good Chevrolet for environmental consulting services at the site, located at 1630 Park Street in Alameda, California. The scope of work described herein is based on discussions with you, review of the 4 October 2006 letter to you from Mr. Steven Plunkett of Alameda County Environmental Health Services Department (ACEH), a file review conducted at the ACEH offices on 3 May 2007, and your 30 May 2007 request for the revised proposal.

## **BACKGROUND**

Based on our review of the available files at ACEH, we understand that two underground storage tanks (USTs) were removed from the Good Chevrolet site in 1986. One UST was a 500-gallon gasoline tank and the other UST was a 300-gallon waste oil tank. Following removal of the USTs, investigative activities have occurred at the site, including grab groundwater, soil and soil gas sampling and installation and sampling of groundwater monitoring wells. Data from the most recent groundwater monitoring report in June 2003 indicate that the groundwater at the site, which occurs between seven and ten feet below ground surface, contains various petroleum-related compounds, including total petroleum hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX). During the June 2003 monitoring event, the concentration of TPHg observed in groundwater from monitoring well MW-2 was 37,000 micrograms per liter ( $\mu\text{g/L}$ ) and the concentration of benzene was 7,100  $\mu\text{g/L}$ .

The findings of the June 2003 groundwater monitoring report also indicated that "gasoline contaminated soil remains in place at the project site and is confined to depths ranging from 7 to 11 feet below ground surface..."

In the October 2006 letter from ACEH, a total of ten technical comments regarding site characterization were made by Mr. Plunkett. In addition to the ten comments, the letter also contained a tentative project schedule that listed proposed deadlines for several technical reports. Three of the deadlines in the October 2006 letter have already passed; it is expected that revised deadlines can be agreed upon once the project is awarded.

### SCOPE OF WORK

The scope of work herein is based on the technical comments and report requests made in the October 2006 letter, as well as the tasks listed in your 30 May 2007 letter. The scope of work includes the following seven tasks:

- Task 1: Redevelop Existing Monitoring Wells;
- Task 2: Initial Groundwater Monitoring Event;
- Task 3: Report on Monitoring Well Redevelopment and Sampling;
- Task 4: Soil and Groundwater Investigation;
- Task 5: Investigation Report;
- Task 6: Installation of Groundwater Monitoring Wells; and
- Task 7: Routine Groundwater Monitoring and Reporting (two events).

#### *Task 1 – Monitoring Well Redevelopment*

Currently, five groundwater monitoring wells exist at the site. Other than total depth of each monitoring well, very little information was available regarding the well construction or geologic units the wells are screened in. The total depths of the groundwater monitoring wells at the site are:

MW-1	20 feet below ground surface
MW-2	20 feet below ground surface
MW-3	20 feet below ground surface
MW-4	23 feet below ground surface
MW-5	22 feet below ground surface

In the June 2003 groundwater monitoring report, it was reported that “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.” It appears that monitoring well MW-4 has not been sampled since October 1995 and may need to be destroyed and possibly replaced with a new well. However, because the monitoring well destruction and replacement was not included in the 30 May 2007 letter, this work is not included in this revised proposal.

Geosyntec will inspect the four monitoring wells to assess their status. It is expected that the four monitoring wells will need to be redeveloped in order to remove any sediment that may have accumulated in the monitoring wells. Geosyntec will subcontract Blaine Tech Services of San Jose, California (Blaine Tech) to develop the monitoring wells. The coordinates of the monitoring wells will be surveyed after the two new monitoring wells are installed, as described in Task 6 of this revised proposal.

The results of the groundwater monitoring well redevelopment will be presented in the Monitoring Well Redevelopment Report (Task 3).

#### *Task 2 – Initial Groundwater Monitoring Event*

Following redevelopment, groundwater samples will be collected from the four site groundwater monitoring wells. Under Geosyntec’s direction, Blaine Tech will perform the following during the initial groundwater monitoring event:

- Use an interface probe in each monitoring well to check for the presence of free product at the top of the water column;
- Measure the water level in each monitoring well using a graduated electronic water level sounder from the northern edge of the top of each well casing, which will be surveyed following installation of two additional monitoring wells (Task 6);
- Purge a minimum of three well casing volumes from each well. During purging, Blaine Tech Services will measure turbidity, pH, temperature, electrical conductivity, and dissolved oxygen using a Horiba U-10 and record the parameters on a field data sheet; and
- Collect a sample from each monitoring well.

All down-hole equipment will be cleaned before use and between sampling locations.

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The groundwater sample from each well will be collected into laboratory-supplied sample containers and labeled with project identification, sample location, analytical parameters, date and time sampled and any preservative added to the sample. The groundwater sample bottles will be placed in individual zip lock bags, packaged with bubble wrap, and stored in an ice-cooled chest, maintained at approximately 4°C, for transport under chain-of-custody procedures to the analytical laboratory.

The groundwater samples will be delivered to Entech Analytical Labs, Inc. of Milpitas, California (Entech) for the following analyses:

- Petroleum compounds, including BTEX, fuel oxygenates, ethanol, and lead scavengers, using EPA Method 8260B;
- TPHg by EPA Method 8260B;
- Total petroleum hydrocarbons as diesel (TPHd) with silica gel cleanup by EPA Method 8015M; and
- total lead by EPA Method 6010B.

#### *Task 3 – Report on Monitoring Well Redevelopment and Sampling*

Upon receipt of the field notes from Blaine Tech and the laboratory analytical results from Entech, Geosyntec will prepare a groundwater monitoring report that summarizes the data collected, presents analytical results in tabular and graphical format and evaluates the chemical concentrations of petroleum-related compounds in groundwater. A figure depicting groundwater elevation contours will not be included in this monitoring report. After the monitoring wells are surveyed (Task 6), groundwater elevation contour figures will be created. Geosyntec will submit a draft version of the groundwater monitoring report to Good Chevrolet for review and comment, prior to submitting a final report to ACEH.

The analytical results, as well as electronic copies of each monitoring report, will be uploaded to Geotracker, the State of California online environmental database, and the ACEH database.

#### *Task 4 – Soil and Groundwater Investigation*

Geosyntec will prepare a Soil and Groundwater Investigation Work Plan (Investigation Work Plan) that will describe the investigation to evaluate the lateral and vertical extent of petroleum-

related compounds in the subsurface at the site and downgradient of the site. The Investigation Work Plan will contain information on the proposed drilling and sampling locations and techniques, sample analysis, permitting, and data analysis. A draft version of the Investigation Work Plan will be submitted to Good Chevrolet for comments, prior to being finalized and submitted to ACEH for their approval. Geosyntec will also prepare a site-specific health and safety plan (HASP) for the soil and groundwater investigation field activities.

Once the Investigation Work Plan has been approved by ACEH, Geosyntec will implement the soil and groundwater investigation. Prior to mobilizing equipment in the field, Geosyntec will mark the proposed drilling locations with white paint, have a private utility locator clear the boring locations, and notify Underground Service Alert (USA) of the proposed drilling. Geosyntec will also obtain the appropriate drilling and encroachment permits from Alameda County and the City of Alameda, respectively.

It is assumed that the investigation will be performed by Gregg Drilling and Testing of Martinez, California using direct push drilling methods, which will enable collecting geologic data at several locations and targeting specific high-permeability zones for soil or groundwater sampling. For the purposes of this proposal, Geosyntec has assumed 3 days of direct push drilling and sampling at the site.

The soil and groundwater samples collected during the investigation will be analyzed by Entech for petroleum compounds using EPA Method 8260B, TPHg by EPA Method 8260B, TPHd with silica gel cleanup by EPA Method 8015M, and total lead by EPA Method 6010B. Entech's standard list of petroleum compounds includes BTEX, fuel oxygenates, ethanol, and lead scavengers. For the purposes of this proposal, Geosyntec has assumed a total of 15 soil samples and 15 groundwater samples will be collected during the soil and groundwater investigation.

The disposal of investigation-derived waste (IDW) will be the responsibility of Good Chevrolet and costs associated with the IDW disposal are not included in this proposal.

#### *Task 5 – Investigation Report*

Following completion of the soil and groundwater investigation and receipt of analytical data, Geosyntec will evaluate the data and prepare a Soil and Groundwater Investigation Report (Investigation Report). The report will contain a description of the work conducted and presentation of the data collected in both tabular and illustrated form, including in hydrogeologic cross-sections. The report will also include recommendations for the installation of additional

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groundwater monitoring wells at the site. A draft version of the Investigation Report will be submitted to Good Chevrolet for review and comment, prior to submittal to ACEH.

The analytical data and electronic copy of the Investigation Report will be uploaded to the Geotracker website and the ACEH database.

#### *Task 6 – Installation of Groundwater Monitoring Wells*

Following the soil and groundwater investigation, it is assumed that two additional groundwater monitoring wells will be installed to evaluate concentrations over time and to characterize the lateral extent of TPHg and BTEX in groundwater. Prior to installing the monitoring wells, Geosyntec will obtain the appropriate monitoring well installation permits and encroachment permits, if needed. For the purposes of this proposal, Geosyntec has assumed that the groundwater monitoring wells will be installed with a hollow-stem auger drill rig and that the completed monitoring wells will be 2-inch diameter, Schedule 40 PVC wells, with 10-foot well screens. The groundwater monitoring wells will be developed in accordance with ACEH guidelines. The details of the proposed groundwater monitoring wells will be included in the Soil and Groundwater Investigation Report.

After the new monitoring wells have been installed, all of the site monitoring wells will be surveyed by a licensed land surveyor. To comply with Geotracker requirements, the longitude and latitude of the top of casing of the four existing and two new monitoring wells will be surveyed using NAD 83 and the results uploaded to the Geotracker website.

The disposal of IDW will be the responsibility of Good Chevrolet and costs associated with the IDW disposal are not included in this proposal.

Upon the completion of the monitoring well installation and development and surveying, Geosyntec will prepare a Monitoring Well Installation Report. The report will contain information on the well installation and development, geologic logs of the well borings, well construction details, and survey coordinates of the monitoring wells. A draft version of the Monitoring Well Installation Report will be submitted to Good Chevrolet for review and comment, prior to submittal to ACEH.

#### *Task 7 – Routine Groundwater Monitoring*

The groundwater monitoring wells at the site will be monitored on a quarterly basis. For the purposes of this proposal, we have assumed two monitoring events for six groundwater

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monitoring wells. Blaine Tech will perform the groundwater monitoring, using the techniques and equipment described under Task 2 of this proposal. The groundwater samples will be delivered to Entech for the same analyses listed in Task 2 of this proposal.

Upon receipt of the field notes from Blaine Tech and the laboratory analytical results from Entech, Geosyntec will prepare groundwater monitoring reports that summarizes the data collected, presents analytical results in tabular and graphical format and evaluates the concentrations of petroleum hydrocarbons in groundwater. Groundwater elevation contours will also be included in the quarterly groundwater monitoring reports. Geosyntec will submit a draft version of each groundwater monitoring report to Good Chevrolet for review and comment, prior to submitting a final report to ACEH.

The analytical results, as well as electronic copies of each monitoring report, will be uploaded to Geotracker and the ACEH database.

#### **ESTIMATED BUDGET**

The estimated cost to perform the work described herein is \$99,600. Details of the cost estimate are summarized below. Our work will be performed under the terms and conditions of a master service agreement between Geosyntec and Good Chevrolet and will be charged on a time-and-materials basis, using the 2007 Rate Schedule (Attachment 1). The estimated cost of \$99,600 will not be exceeded without your prior authorization.

	<b>Labor</b>	<b>Expenses</b>	<b>Task Total</b>
Task 1 – Redevelop Existing Monitoring Wells	\$1,900	\$1,900	\$3,800
Task 2 – Initial Groundwater Monitoring Event	\$600	\$3,000	\$3,600
Task 3 – Report on Monitoring Well Redevelopment and Sampling	\$2,400	\$100	\$2,500
Task 4 – Soil and Groundwater Investigation	\$16,300	\$24,700	\$41,000
Task 5 – Investigation Report	\$14,500	\$500	\$15,000
Task 6 – Installation of Groundwater Monitoring Wells	\$7,200	\$14,300	\$21,500
Task 7 – Routine Groundwater Monitoring and Reporting	\$5,020	\$7,180	\$12,200
		<b>TOTAL</b>	<b>\$99,600</b>

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## SCHEDULE

The ACEH October 2006 letter included a proposed schedule for technical reports; however, three of the proposed deadlines have passed. Upon authorization to proceed, Geosyntec will work with ACEH and Good Chevrolet to develop new report deadlines. It is anticipated that Geosyntec will perform the groundwater monitoring well redevelopment within four weeks of receiving authorization to proceed, pending subcontractor availability.

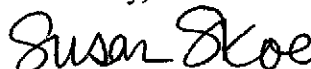
## TEAM AND STAFFING

Carolyn Kneibler, P.G., C.HG. will be the Associate hydrogeologist in charge of the environmental work proposed herein. Project Manager, Susan Skoe, P.E., will be assisted by Geosyntec's Oakland-based professional staff.

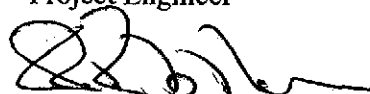
In Geosyntec's proposal dated 15 May 2007, a copy of Geosyntec's standard professional service agreement was attached for your review. If you have any comments on the service agreement, please contact the undersigned to discuss. Geosyntec needs a signed service agreement and work order to proceed with the scope described herein.

Geosyntec Consultants appreciates this opportunity to provide environmental services to Good Chevrolet this important project. If you have any questions or require additional information, please contact the undersigned at (510) 836-3034.

Sincerely,



Susan H. Skoe, P.E.  
Project Engineer



Carolyn Kneibler, C.HG  
Associate Hydrogeologist

Attachment: 1. 2007 Rate Schedule



## GEOSYNTEC CONSULTANTS 2007 RATE SCHEDULE

<u>Engineer/Scientist</u>	<u>Rate/Hour</u>
Staff Professional	\$ 92
Senior Staff Professional	\$105
Professional	\$118
Project Professional	\$136
Senior Professional	\$154
Associate	\$175
Principal	\$195
<u>Field Services</u>	
Engineering Technician	\$ 52
Senior Engineering Technician	\$ 62
Field Manager	\$ 72
Site Manager	\$ 76
Field Superintendent	\$ 86
<u>Design, Graphical, and Administrative Services</u>	
Designer	\$ 98
Senior Drafter/Senior CADD Operator	\$ 88
Drafter/CADD Operator/Artist	\$ 78
Admin Assistant/Tech Word Processor	\$ 49
Clerical	\$ 39
<u>General</u>	
Direct Expenses	Cost plus 12%
Subcontract Services	Cost plus 12%
Communications Fee	3% of Professional Fees
Specialized Computer Applications (per hour)	\$ 15
Personal Automobile (per mile)	\$ .485
Photocopies (per page)	\$ .09