



## AGENDA REPORT

**Meeting Date:** July 8, 2008  
**Item Number:** F-6  
**To:** Honorable Mayor & City Council  
**From:** Shana Epstein, Environmental Utilities Manager  
**Subject:** AMENDMENT NO.1 TO THE AGREEMENT BETWEEN THE CITY OF BEVERLY HILLS AND RICHARD C. SLADE & ASSOCIATES, LLC FOR CONSULTANT SERVICES RELATED TO THE HYDROGEOLOGIC SERVICES

**Attachments:** 1. Amendment No. 1

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### RECOMMENDATION

Staff recommends that the City Council move to approve an agreement between the City of Beverly Hills (City) and Richard C. Slade & Associates, LLC (RCS) for consultant services related to the municipal-supply feasibility study for Robertson Corporate Yard in the amount of \$35,700, for a total not to exceed \$54,700.

### INTRODUCTION

RCS services were used to evaluate the hydrogeologic feasibility for siting and constructing a new municipal-supply well at the Robertson Corporate Yard, owned by the City. This corporate yard is located near the northwest corner of the intersection of Robertson Boulevard and Melrose Avenue within West Hollywood. The evaluation was to assess the feasibility of using this site for drilling and construction of new municipal-supply water well for the City. Available data and information for historic wells in the vicinity of the subject site were obtained and reviewed during Phase 1 of this project. This information included: driller's logs and other well construction data; static water levels; production data; pumping water levels and pumping rates; groundwater quality; and reports prepared by others. RCS prepared a technical report that summarized the findings and conclusions of Phase 1.

### DISCUSSION

On February 2008, RCS completed Phase 1 of the Robertson Yard groundwater feasibility study. Phase 1 involved data and information gathering and analyses. Phase 1 findings suggest that it may be feasible to construct a new water-supply well at

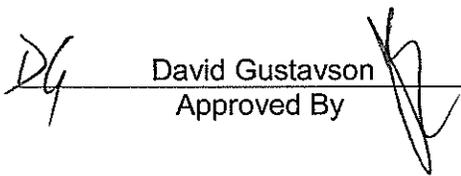
Robertson Corporate Yard. The pursuit of a new water well location always has its risks and may not be fruitful after the exploration. To confirm the feasibility of constructing a water-supply well at this site, it is first recommended that an exploratory borehole be drilled and testing in the open borehole be conducted. This testing may help confirm the types of geologic materials present beneath the site, the potential availability of groundwater, and the initial chemistry of the local groundwater (such as the presence of methane, hydrogen sulfide, iron, and manganese concentrations). If data from the borehole indicate favorable hydrogeologic conditions, then work may proceed in the design and eventual construction of a new water-supply well in the future. The borehole is to be permanently destroyed after all testing has been conducted.

Staff recommends continuing the groundwater-supply feasibility study for Robertson Corporate Yard. The next step involves two phases: Drilling Guidelines and Bid Sheets, and Drilling and Testing of the Exploratory Borehole. The first phase includes preparation of drilling guidelines, drilling costs estimates, and a pre-bid meeting that will assist the City in analyzing bids received from exploratory hole drilling contractors. The second phase includes drilling and testing of the exploratory borehole, destruction of the exploratory borehole, and written reports summarizing the findings of the phase. It is estimated that exploratory borehole drilling will cost \$75,000. The City of Beverly Hills will be responsible to seek a contractor that will perform this task. On the other hand, RCS will be at the site overseeing and logging drilling activities during drilling.

**FISCAL IMPACT**

The two-phased groundwater-supply feasibility study for Robertson Corporate Yard is estimated to not exceed \$35,700, for a total not to exceed \$54,700. This estimate does not include the drilling of the exploratory borehole. It is estimated that exploratory borehole drilling will cost approximately \$75,000. The City will be responsible to seek exploratory borehole contractors to complete this project. Funds are available in the Water Enterprise account for consulting services.

  
\_\_\_\_\_  
Scott Miller  
Finance Approval

  
\_\_\_\_\_  
David Gustavson  
Approved By

**AMENDMENT NO. 1 TO THE AGREEMENT BETWEEN THE CITY OF  
BEVERLY HILLS AND RICHARD C. SLADE & ASSOCIATES, LLC FOR  
CONSULTANT SERVICES RELATED TO HYDROGEOLOGIC SERVICES**

NAME OF CONSULTANT: Richard C. Slade & Associates, LLC

RESPONSIBLE PRINCIPAL  
OF CONSULTANT: Richard C. Slade, President

CONSULTANT'S ADDRESS: 12750 Ventura Boulevard  
Suite 202  
Studio City, CA 91604

CITY'S ADDRESS: City of Beverly Hills  
345 Foothill Road  
Beverly Hills, CA 90210  
Attention: Shana Epstein  
Environmental Utilities Manager

COMMENCEMENT DATE: Upon receipt of Notice to Proceed

TERMINATION DATE: Upon satisfactory completion of all services  
as determined by the Director of Public  
Works

CONSIDERATION: Original agreement not to exceed \$19,000;  
Amendment No. 1 not to exceed \$35,700;  
Total not to exceed \$54,700 and more fully  
described in Exhibit A, including  
Attachments I and II to Exhibit A

**AMENDMENT NO. 1 TO THE AGREEMENT BETWEEN THE CITY OF  
BEVERLY HILLS AND RICHARD C. SLADE & ASSOCIATES, LLC FOR  
CONSULTANT SERVICES RELATED TO HYDROGEOLOGIC SERVICES**

This Amendment No. 1 is to that certain Agreement, dated June 19, 2007 and identified as Contract No. 215-07 (the "Agreement"), copies of which are on file in the office of the City Clerk, between the City of Beverly Hills, a municipal corporation ("City") and Richard C. Slade & Associates, LLC ("Consultant"), for consultant services related to hydrogeologic services.

R E C I T A L S

A. City entered into a written Agreement, dated June 19, 2007, for hydrogeologic consulting services.

B. City desires to increase the scope of services and the Consideration for the additional services.

NOW, THEREFORE, the parties hereto do amend the Agreement as follows:

Section 1. Section 1 of the Agreement entitled "Scope of Services" shall be amended to read as follows:

**Section 1. SCOPE OF SERVICES.** Consultant shall do, perform, and carry out, in a manner satisfactory to City, and consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions the services described in Phase 1 of Exhibit A and Phase 2 and 3 of Attachment I to Exhibit A, attached hereto and incorporated herein by this reference."

Section 2. The Consideration shall be amended as set forth above.

Section 3. Exhibit A shall be amended to add an Additional Scope of Services, attached hereto and incorporated herein as Attachment I to Exhibit A.

Section 4. The Hourly Rates set forth in Exhibit A shall be amended as attached hereto and incorporated herein as Attachment II to Exhibit A.

Section 5. Except as expressly modified by this Amendment, all of the provisions of the Agreement dated June 19, 2007 shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the \_\_\_\_ day of \_\_\_\_\_, 200\_\_\_\_, at Beverly Hills, California.

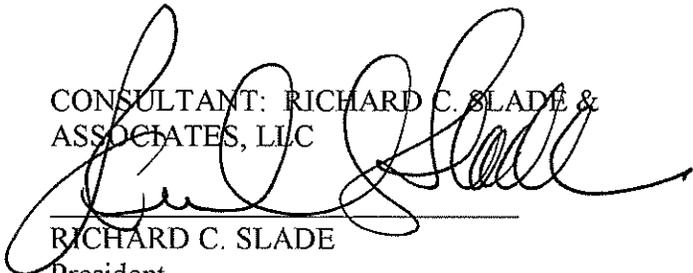
CITY OF BEVERLY HILLS,  
a municipal corporation

\_\_\_\_\_  
BARRY BRUCKER  
Mayor of the City of  
Beverly Hills, California

ATTEST:

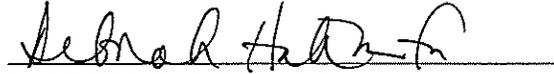
\_\_\_\_\_  
(SEAL)  
BYRON POPE  
City Clerk

CONSULTANT: RICHARD C. SLADE &  
ASSOCIATES, LLC

  
\_\_\_\_\_  
RICHARD C. SLADE  
President

[Signatures continue]

APPROVED AS TO FORM:



LAURENCE S. WIENER  
City Attorney

APPROVED AS TO CONTENT:



DAVID D. GUSTAVSON  
Director of Public Works & Transportation



KARL KIRKMAN  
Risk Manager

## ATTACHMENT I TO EXHIBIT A

### Additional Services-Phases 2 and 3

Consultant shall provide City with hydrogeological office and field services with regard to the drilling and testing of an exploratory borehole (test hole) at City's Robertson Corporate Yard.

Consultant shall complete two work phases that would include the following:

#### **Phase 2: Drilling Guidelines and Bid Sheets**

##### **Task 2.1 – Preparation of Drilling Guidelines**

Prepare the Drilling Guidelines for the drilling and testing of the proposed exploratory borehole. This new document will then be merged into a common set of "boiler plate" documents that will then be sent out by City for competitive bidding. For these guidelines, Consultant shall prepare technical details on the following aspects of the project:

- The drilling/construction method
- Required noise mitigation measures (if applicable) and onsite treatment and/or disposal of drilling fluids and/or "wastewater" generated during drilling and testing of the borehole
- Estimated pilot hole
- Downhole geophysical surveying techniques to be utilized
- Isolated aquifer zone testing methodology
- Permanent destruction of the test borehole

The Draft Drilling Guidelines shall be submitted to City in Word format for review and editing. Following review of the specifications by City, Consultant shall prepare the final set of the Drilling Guidelines. City will merge these documents with City's standard "boiler plate" information, and send out the entire package to potential bidders.

##### **Task 2.2 – Estimate of Probable Drilling Costs**

Prepare a detailed cost estimate for the drilling, constructing and testing of the exploratory borehole. This cost estimate will provide City with a reasonable and realistic expectation of drilling costs. Because of recent "prevailing wage" laws, drilling contractors' costs have substantially increased and Consultant is well aware of current construction costs for the required work because of their numerous ongoing drilling projects with drilling contractors in Southern California.

### Task 2.3 – Pre-Bid Meeting and Bid Assistance

Prepare for and attend a pre-bid meeting for the exploratory test hole and provide pre-bid clarifications and/or addenda, if necessary, for the project. Review and analyze bids received and make a recommendation to City for award of the contract. This task is for the purpose that all potential bidders should clearly understand site logistics such as access, available water supply, location of utilities, and fluids disposal at the proposed drill site. In addition, this meeting will enable the bidders to become familiar with the requirements of City and to become aware of City's needs and desires in completing the goals of this drilling and testing project.

### Phase 3: Drilling and Testing of Exploratory Borehole

#### Task 3.1 – Pre-construction Meeting

Prepare for and attend the pre-construction meeting for the test hole and provide a review of information provided by the drilling contractor who has been awarded the contract by City. Discuss key issues in the Drilling Guidelines, and help City maintain liaison with the contractor(s) during mobilization of drilling equipment to the job site.

#### Task 3.2 – Mobilization and Conductor Casing

Provide coordination with the contractor during drilling/installation of the conductor casing at the drill site. Consultant field geologists will not be present to observe the installation of the conductor casing but will maintain contact with the contractor during conductor installation. It should be noted that the contractor will need to have a County inspector observe and approve the installation of the conductor casing and its cement seal.

#### Task 3.3 – Pilot Hole/Borehole Geologic Logging

Provide field geologists on a full-time basis, to geologically log the drill cuttings from the pilot hole below the depth of the conductor casing for the exploratory test hole. It is anticipated that drilling will be to a maximum depth of approximately 850 ft. During pilot hole drilling, Consultant geologists will review fluid characteristics of viscosity, weight, and sand content to check contractor conformance with the specifications. In addition to the geologic logging, data on drilling penetration rates will be obtained from the driller and plotted on our geologic log, providing additional subsurface information for hydrogeologic interpretation. During drilling, Consultant field geologist will monitor for methane and hydrogen sulfide gas with a portable probe.

#### Task 3.4 – Downhole Geophysical Survey Log (Electric Log) Analysis

Consultant field geologists will be present to observe the electric logs of the entire exploratory test hole. Following this, Consultant will review and analyze the electric log to identify the depths for the subsequent isolated aquifer zone tests in the pilot hole. Also, the new electric log will be correlated to those that might be available for nearby wells.

### Task 3.5 – Isolated Aquifer Zone Testing

Observe downhole aquifer zone isolation testing for groundwater in as many as five (5) selected aquifers in the pilot hole. Consultant will select specific zones on the basis of our review and analysis of drill cuttings and the electric log. Consultant geologists will be present near the end of development of each test zone to collect groundwater samples for laboratory testing. Consultant field geologists will observe/monitor the temperature, pH, electrical conductivity (EC) and the turbidity of each zone, in order to help determine if formation water is being produced. Static (non-pumping) and pumping water levels and visual estimates of the amount of water being airlifted from each tested zone will also be obtained. It is envisioned at this time, that the water samples will be analyzed by City's contract laboratory.

### Task 3.6 – Destruction of Borehole

Following completion of all isolated aquifer zone testing in the exploratory borehole, the remaining test hole is to be permanently destroyed. The Consultant geologist will witness and approve the final sealing of the borehole.

### Task 3.7 – Summary of Drilling Operations Report

The Summary of Drilling Operations Report will serve to help document the drilling, and testing activities in the exploratory borehole.

The report will include the following items:

- Description of lithologic units and possible aquifers, including a geologic log
- Copies of all geophysical logs of the drilled borehole
- Isolated aquifers zone test descriptions
- Field water quality results, water level and discharge rate data from zone testing
- Analytical reports showing water quality results from the isolated aquifer zone testing
- Conclusions and recommendations

In essence, the feasibility of developing groundwater in useable quantities and of acceptable quality for municipal-supply purposes will be discussed in this report.

Three (3) Final copies of Summary of Drilling Operations Report will be submitted to City. The report, including all drawings, tables and appendices, will be provided to City. All electronic files will be placed on a CD and included in the report.

### Task 3.8 – Project Administrative Services

The Consultant Project Geologist shall provide project administrative services for exploratory borehole to help keep City informed of events and details during each work task. These projects administrative services will include:

1. Provide status/update memoranda to City staff during the drilling and testing
2. Evaluate any change order requests and provide recommendations to City to approve/disapprove these requests, if applicable
3. Review of progress billings submitted by the Contractor in order to check that the drilling contractor has provided City with an accurate accounting and billing for time and materials used in conducting work associated with the drilling and testing work
4. Provide a final “punch list” at the end of all testing activities to identify possible deficiencies, if any, and to help resolve these deficiencies between the contractor and City.

**Well Construction Contingencies:**

A. The exploratory test hole for this project is to be drilled to a depth of approximately 850 ft; geologic logging will be performed by Consultant geologists on a full-time basis from 50 ft. below ground surface (bgs) to 850 ft bgs. Pilot hole drilling is estimated to be conducted at a rate of 5 feet per hour. An estimate of at least 160 field hours for Consultant geologists will be required.

B. A maximum of five down-hole isolated aquifer zone tests may be performed in the open borehole.

C. Unusual drilling and/or construction conditions are not anticipated in the Consultant cost estimate and schedule, and these include such items as: frequent drill rig breakdowns, losing the pilot hole due to cave-in, lost tools down-hole, etc.

D. Consultant assumes, in accordance with the Drilling Guidelines, that the contractor will pay directly for all isolated aquifer zone testing and NPDES monitoring and testing.

E. The above costs do not include any costs to be charged to City by the contractor for drilling and testing of the exploratory borehole.

**Deliverables:**

Consultant shall complete two work phases that would include the following:

**Phase 2: Drilling Guidelines and Bid Sheets** \$3,900.00

- Task 2.1 – Preparation of Drilling Guidelines
- Task 2.2 – Estimate of Probable Drilling Costs
- Task 2.3 – Pre-Bid Meeting and Bid Assistance

Task 2.1 and 2.2 - due within 8 weeks of date of notice to proceed.

Task 2.3 - Performed during the bidding time frame.

**Phase 3: Drilling and Testing of Exploratory Borehole** \$29,800.00

- Consultant shall initiate work on this project within 10 days of receiving a written notice-to-proceed.
- Consultant field monitoring work shall be completed during a total estimated 30-day period drilling and testing.
- The drilling schedule is all contingent upon the property availability, drill rig availability, the scheduling of drilling and testing operations by the drilling contractor, and possible weather/logistical constraints.
- An estimated 4 weeks - Consultant shall complete the Summary of Drilling Operations Report following receipt from City of the final laboratory water quality analyses of all aquifer zone testing, and also following receipt of requisite well documents from the drilling contractor.

Consultant shall commit the personnel and resources to be available when the drilling activities are being performed. Time to complete work during drilling and testing is entirely dependent on the contractor's availability, work schedule, job progress, and weather conditions and on possible down-hole problems that may encounter during drilling.

Anticipated costs for Consultant office and field services during the drilling and testing of the Exploratory Borehole for City of Beverly Hills are as follows:

a.	Phase 2: Drilling Guidelines and Bid Sheets	\$ 3,900.00
b.	Phase 3: Drilling and Testing of Exploratory Borehole	\$29,800.00
c.	Rental of Gas Detection Meters (T&M)	\$ 2,000.00
	Total Estimated Cost:	\$35,700.00

2. Maximum Dollar Amount. The total amount of charges for the additional services shall not exceed \$35,700.00, based on the rates set forth in Attachment II to Exhibit A.

3. The estimated Phase 3 costs for Consultant do not include any charges for the drilling contractor to drill and electric log the test hole, to conduct isolated zone testing, or to permanently destroy the borehole.

**ATTACHMENT II to EXHIBIT A**

**Hourly Rates**

Principal Groundwater Geologist	\$215.00/hour
Senior Groundwater Geologist	\$154.00/hour
Staff Groundwater Geologist	\$102.00/hour
Geologic Logging/ Field Work, Water Wells	\$90.00/hour
Clerical, Graphics and GIS Work	\$60.00/hour
Depositions and Court Testimony (4-hour minimum per day)	\$350.00/hour

**SPECIAL EQUIPMENT AND SERVICES**

Pressure Transducers (for water level monitoring during aquifer testing) (Weekly Rates Available)	\$100.00/day
Field Water Quality Probe (T, pH, EC)	\$50.00/day
Electric Tape Water Level Probe	\$25.00/day
Subsurface Exploration, Water Quality Laboratory	Cost + 15%
Job Supplies, Reproduction, etc.	Cost + 15%
Automobile Mileage	\$0.45/mile