

AUSTIN CITY COUNCIL

AGENDA



Thursday, July 27, 2006

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Watershed Protection and Development Review RECOMMENDATION FOR COUNCIL ACTION

ITEM No. 87

Subject: Authorize negotiation and execution of a contract with OZARK UNDERGROUND LABORATORY, INC., Protem, MO, for Barton Springs segment of the Edwards Aquifer spill plan dye studies in an amount not to exceed \$374,795.

Amount and Source of Funding: Funding in the amount of \$374,795 is available in the Fiscal Year 2005-2006 Capital Budget of the Watershed Protection and Development Review Department.

Fiscal Note: A fiscal note is attached.

Additional Backup Material

(click to open)

- ☐ [Attachment A - Scope of Work](#)
- ☐ [financial analysis](#)

For More Information: Nancy McClintock, 974-2652; Edward Peacock, 974-2224

Purchasing Language: Sole Source.

MBE/WBE: This contract will be awarded in accordance with Chapter 2-9 of the City Code (Minority-Owned and Women-Owned Business Enterprise Procurement Program. No subcontracting opportunities were identified; therefore, no goals were established for this solicitation.

Prior Council Action: May 25, 2006, by Resolution No. 20060525-051

The traces conducted under this contract will simulate accidental pollutant spills in the Barton Springs Zone and will assist City staff in preparation for such events. The results will provide the City with information on the potential impact on public health and drinking water supplies and on the endangered Barton Springs salamander. Roughly 50,000 persons rely directly on the Barton Springs segment for their drinking water supply.

Tracing was initiated in 1996 in the Barton Springs segment of the Edwards Aquifer by the Barton Springs/Edwards Aquifer Conservation District and City of Austin, and continued in 1998, 2001 and 2005. An additional study was recommended as a recovery action by the U.S. Fish and Wildlife Service (USFWS) in the 2005 Barton Springs Salamander Recovery Plan. Most recently, the need for additional tracing data was identified during the development of a spill response contingency plan for Barton Springs.

The study area is the Barton Springs segment of the Edwards Aquifer which has a recharge zone south of the Colorado River that covers about 90 square miles in area. Most of the Barton Springs segment discharges to Barton Springs, a major recreational facility owned by the City of Austin. Barton Springs is the only known location for two Barton Springs aquatic salamander species, one of which has been listed as endangered by the USFWS. Within the study area, the City of Austin has permit obligations from USFWS to protect aquatic salamanders at Barton Springs.

Ozark Underground Laboratory, Inc. (OUL) is the primary lab used for tracing analysis in the Barton Springs zone, including the purchase of grab sample bottles, dye, and quality charcoal receptors. OUL is

the only known lab that provides quantified concentration data from charcoal receptors. This service is a critical component of the City's study design, as it allows a more precise time of travel for dye peaks to be determined. Mr. Aley, the president and key staff member has provided assistance to the City in designing traces and interpreting results in the Barton Springs segment, and his lab manual provided the basis for lab analysis of tracing samples in the City's past studies. Comparability, consistency, and quality of data, cost effectiveness, and ready acceptance of the results by all concerned parties are the benefits of continuing with OUL. As such OUL is recommended by this department as a sole source for the provision of these services.

ATTACHMENT "A"

SCOPE OF WORK

for the Barton Springs Zone Spill Plan Dye Studies

1.0 General Description

Ozark Underground Laboratory (OUL) shall assist the City of Austin to refine current understanding of flow paths, travel time, groundwater basins, and loading in the Barton Springs Edwards Aquifer and to Barton Springs and its associated outlets.

2.0 Scope of Work

- 2.1 To assist the City in anticipating the effects of varying quantities of spilled materials using tracers by providing an increased tracer injection masses, by one (1) order of magnitude from previous traces in this area, providing examination of how much product and the maximum concentration that can be expected to discharge from contaminant spills of varying volumes.
- 2.2 To assist the City in refining delineation of groundwater basins between the Cold Springs, Sunset Valley, and Manchaca groundwater basins to determine which areas provide source water for each spring and downstream groundwater or surface water supply source.
- 2.3 To assist the City in measuring detailed arrival concentrations of tracers to Main, Eliza, and Old Mill Springs by providing one (1) hour interval monitoring of Main Barton, Upper Barton (if flowing), and Old Mill, and four (4) hour interval sampling of Eliza springs
- 2.4 To examine differences in arrival times and concentrations that will help reveal the structure of the main flowpaths and examine how water and other constituents are transported across the aquifer.
- 2.5 To assist the City in refining travel time along flow paths under different surface and groundwater conditions by timing the arrival of tracers that will be injected under varying flow conditions over the next five (5) years, resulting in groundwater travel times.

3.0 Tentative Tracing Schedule

Phase	Start	Focus
10	July-06	Barton Creek II
11	December-06	State Highway Hwy 45
12	July-07	Southern Divide/Quarries
13	December-07	Longhorn Pipeline
14	June-08	Mopac Expressway
15	December-08	artesian zone
16	June-09	additional traces to be determined
17	December-09	additional traces to be determined
	June-10	final report preparation
	September-10	final report completion

4.0 Price Proposal

Description	Subtotal	Total Expected Lab costs
Lab shipping		\$ 3,000
Consulting costs		\$ 10,000
Phase 10 - Lower Barton Creek Source Area		\$ 7,445
Dyes	\$ 1,250	
Analysis	\$ 6,195	
Phase 11 - SH 45 Area		\$ 39,190
Dyes	\$ 6,250	
Analysis	\$ 32,940	
Phase 12 - Southern Divide and Quarries		\$ 67,400
Dyes	\$ 12,500	
Analysis	\$ 54,900	
Phase 13 - Longhorn		\$ 37,030
Dyes	\$ 6,250	
Analysis	\$ 30,780	
Phase 14 - MoPac		\$ 37,520
Dyes	\$ 5,000	
Analysis	\$ 32,520	
Phase 15 - Artesian Zone		\$ 60,035
Dyes	\$ 12,500	
Analysis	\$ 47,535	
Phase 16 - Stormwater Tracking		\$ 38,635
Dyes	\$ 6,250	
Analysis	\$ 32,385	
Phase 17 - Revisit at Different Flows		\$ 37,270
Dyes	\$ 6,250	
Analysis	\$ 31,020	
Phase 18 - Revisit at Different Flows		\$ 37,270
Dyes	\$ 6,250	
Analysis	\$ 31,020	
Total Lab Costs		\$ 374,795

**CIP BUDGET
FISCAL NOTE**

DATE OF COUNCIL CONSIDERATION:

27-Jul-06

WHERE ON AGENDA:

DEPARTMENT:

Watershed Protection & Development Review

Description: Authorize negotiation and execution of a contract with OZARK UNDERGROUND LABORATORY, INC., Protem, Missouri, for Barton Springs segment of the Edwards Aquifer spill plan dye studies in an amount not to exceed \$374,795.

FINANCIAL INFORMATION:

Project Name: Barton Springs Spill & Dye Studies
Project Authorization: 2005-2006 Amended Capital Budget
Funding Source: Drainage Utility Fund
Fund/Agency/Orgn: 4850-617-2021

Total Current Appropriation	\$440,000.00
Unencumbered Balance	\$395,309.67
Amount of this Action	<u>(\$374,795.00)</u>
Remaining Balance	<u><u>\$20,514.67</u></u>

Financial Approval: _____ Joyce Pulich _____ Date: __07/10/06__