

**RESOLUTION NO. 15-1023**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON AUTHORIZING AN UPDATED SCOPE OF WORK TO THE TECHNICAL SERVICES AGREEMENT WITH KING COUNTY (RESOLUTION 12-818) TO PROVIDE WATER QUALITY MONITORING, LAB SERVICES, AND VOLUNTEER TRAINING THROUGH 2016**

**WHEREAS**, the City has identified the need for continued water quality monitoring, lab services and volunteer training in Lake Sawyer with the King County Department of Natural Resources and Parks, Water and Land Resources Division (WLRD); and

**WHEREAS**, the City and King County executed a Technical Services Agreement (Resolution 12-818) that calls for updated Scopes of Work every two years, expiring in 2016; and

**WHEREAS**, the City has budgeted funds for water quality monitoring;

**NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, WASHINGTON, DOES RESOLVE AS FOLLOWS:**

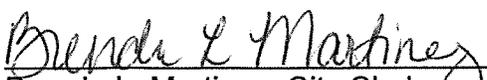
**Section 1.** The Mayor is hereby authorized to execute an updated Scope of Work to the Technical Services Agreement with King County to provide water quality monitoring, lab services, and volunteer training through 2016.

**PASSED BY THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, WASHINGTON, AT A REGULAR MEETING THEREOF, THIS 2ND DAY OF APRIL, 2015.**

CITY OF BLACK DIAMOND:

  
\_\_\_\_\_  
Carol Benson, Mayor

Attest:

  
\_\_\_\_\_  
Brenda L. Martinez, City Clerk

**Scope of Work 2015-2016**  
**City of Black Diamond Lake Sawyer water quality support services**

The King County Water and Land Resources Division will provide services through the Lake Stewardship Program (KC-LSP) to the City of Black Diamond ("City") via this scope under Black Diamond Resolution 12-818 for monitoring water quality and quantity on both a seasonal basis in Lake Sawyer. Monitoring will include assuring the quality of the compiled data and providing pertinent information on analyses, reporting back to the City and citizen volunteers in a timely fashion and in a manner agreed upon by both parties, and providing technical assistance to the City and the public on questions concerning water quality problems, environmental best management practices, and ecosystem functions.

**Annual monitoring program:**

KC-LSP will train designated City staff and volunteers in the correct methods for measuring daily precipitation and lake water levels, weekly measurements of surface water temperature and Secchi transparency, and observations on particles in the water, goose abundance, and gathering pertinent information on lake use. The program will provide and maintain the proper equipment and will consult or supervise on proper installation and use. The citizen volunteer or City staff will provide a boat and safety equipment necessary for getting to the chosen sampling site on the lake.

KC-LSP will also provide blank field sheets or electronic files for data reporting on a quarterly basis and will accept either completed field sheets or electronic data files in return.

**Seasonal monitoring program:**

Water collection will occur biweekly from May through October for a total of 12 events per season. KC-LSP will train City staff and designated volunteers in the correct methods for water sample collection and storage, measurements of surface water temperature and Secchi transparency, and for observations on particles in the water, goose abundance, and gathering pertinent information on lake use. The program will provide proper sampling equipment and will be responsible for repair or replacement if necessary. The program will also provide all sample bottles, properly labeled, and will pick up filled bottles at a designated site to deliver to the KC Environmental Labs for analysis.

Ten of the sampling trips will collect water 1 m beneath the surface, and two will collect depth profiles, collecting water from 1 m, as well as at the middle and near the bottom of the water column. Routinely measured water quality parameters will include concentrations of total phosphorus, total nitrogen, and chlorophyll-a, with identification of the major species of algae present if chlorophyll is high. Additional parameters measured during profile sampling events will include soluble reactive phosphorus, ammonia, nitrate, alkalinity and UV254 (water color).

**Database management, analysis, quality assurance, and reporting:**

The program will enter all received data from monitors and the KC Environmental Labs into a database to be made available to the city at the end of each year, analyze all data for consistency and general water quality conditions, pursue explanations for anomalies, look for trends or indicators of change in the parameters over time, and if requested make management suggestions to the city or citizens based upon the information.

A compilation of the data will be delivered to city staff and cooperating citizen volunteers within a reasonable time after the end of each year, as well as e-files of the data in excel format if

requested. A presentation to the city council or appropriate staff may be made if requested, with time for discussion of pertinent issues.

**Budget:**

The charges set out below are for a one year period and are based upon staff salaries, indirect operating charges, lab costs, equipment, and mailing charges.

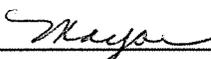
<b>Black Diamond-Lake Sawyer</b>	<b>2015</b>	<b>2016</b>
Seasonal WQ monitoring	\$ 8,000.00	\$ 8,000.00
Annual WQ monitoring	\$ 500.00	\$ 500.00
Flat fee subtotal	\$ 8,500.00	\$ 8,500.00

The seasonal and annual monitoring elements will be covered by a flat fee on a per lake basis, to be paid annually by the participating city.

Further technical assistance not related directly to the monitoring effort will be billable by the hour and materials, to be paid annually by the City upon receipt of detailed accounting from KC Water and Land Resources, but will be not be undertaken unless specifically agreed upon by King County and the City of Black Diamond communications, either in writing with signature and dates or via email.

**Authorized by City of Black Diamond:**

  
Name

  
Title

Date: 4/3/15