

RESOLUTION NO. 13-847

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, KING COUNTY, WASHINGTON, AUTHORIZING THE MAYOR TO EXECUTE A TECHNICAL SERVICES AGREEMENT WITH THE KING COUNTY DEPARTMENT OF NATURAL RESOURCES AND PARKS, WATER AND LAND RESOURCES DIVISION FOR CONTINUED WATER QUALITY MONITORING, LAB SERVICES AND VOLUNTEER TRAINING


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

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 a technical service's agreement with the King County Department of Natural Resources and Parks, Water and Land Resources Division (WLRD) for the fiscal years 2013/14 for services outlined in Exhibit A, scope of work/estimated costs per year, in an amount not to exceed \$17,943.00 for both 2013 and 2014 combined.

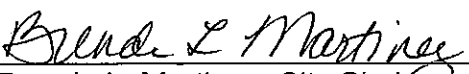
PASSED BY THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, WASHINGTON, AT A REGULAR MEETING THEREOF, THIS 3RD DAY OF JANUARY, 2013.

CITY OF BLACK DIAMOND:



Rebecca Olness, Mayor

Attest:



Brenda L. Martinez, City Clerk

Exhibit A

Scope of Work 2013 - 2014
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 via this scope under Black Diamond Resolution 12-818 for monitoring water quality on a seasonal basis in Lake Sawyer and for measuring inlet streams water quality each year from January through May and November – December in years 2013 and 2014.

Monitoring will include assuring the quality of the compiled data and providing pertinent information and analyses, reporting back to the city and citizen volunteers in a timely fashion and in a manner agreed upon by both parties, and providing some technical assistance to the city and the public on questions concerning water quality results or problems.

Seasonal monitoring program:

Lake sampling will occur monthly from May through October for a total of six events each year (2013-2014). Sampling locations have been previously identified by King County, city staff and volunteers. For four of these events, parameters will include Secchi transparency, temperature, total phosphorus, total nitrogen, chlorophyll-a, and pheophytin at 1m depth. For the remaining two events (May and August): Secchi + 3 depths (1m, middle and 1m from bottom) ---temperature, total phosphorus, orthophosphate, total nitrogen, ammonia, chlorophyll-a and pheophytin, total alkalinity, and water color as measured by UV254.

Base-flow stream sampling will occur monthly from January to May, then resume in November - December for a total of 7 events each year. Parameters measured will include conductivity, total alkalinity, total suspended solids, total phosphorus, orthophosphate, temperature and a flow estimate.

Two storm events each year will be sampled by city staff at 5 - 8 stations along the inlets if precipitation conditions are met (1-inch in a 24-hour period). The same parameters will be measured as for the routine events, with the addition of an oil-and-grease measurement at the stations just above the two inflows to the lake, as well as at the lake outlet.

KC-LSP will train designated citizen volunteers and/or city staff in the correct methods of data collection 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 and will pick up filled bottles from the lake at a designated site to deliver to the KC Environmental Labs for analysis. Either samples will be delivered to county personnel living in Maple Valley, or KC staff will meet a volunteer or city staff at a half-way point for delivery to the King Street Center on the day after collection. County staff will then deliver the samples to the King County Environmental Labs within the timeframes required to meet testing protocols.

Database management, analysis, quality assurance, and reporting:

The program will enter all collected data from monitors and parameters measured by the King County Environmental Laboratory 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 make management suggestions to the city and citizen volunteers based upon the collected information.

A compilation of the data as part of the program's annual report will be delivered to city staff and cooperating citizen volunteers within a reasonable timeframe after the end of each year, as well as e-files of the data in excel format. 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 based upon staff salaries, indirect operating charges, lab costs, equipment, materials, and mailing charges.

Black Diamond - Lake Sawyer	2013	2014
Seasonal monthly Lake WQ monitoring	\$ 3,424	\$ 3,664
Seasonal monthly inlet WQ monitoring	\$ 3,237	\$ 3,463
Annual monitoring	\$ 500	\$ 525
Routine monitoring subtotal	\$ 7,161	\$ 7,652
2 inlet storm samples, city staff	\$ 1,512	\$ 1,618
Agreement total	\$ 8,673	\$ 9,270

Seasonal and annual routine water quality monitoring will be billed on a flat rate basis, to be paid annually by Black Diamond upon receipt of an invoice from King County in the fourth quarter of 2013 and 2014. Billing for monitoring for two storm events will also occur annually, but will be based on an accounting of costs incurred, as storm events are not predictable and rainfall criteria might not be met.

Further technical assistance not related directly to the mechanics of the monitoring effort will be billable by the hour, to be paid annually by the city upon receipt of a detailed accounting from KC Water and Land Resources, but shall not exceed \$1000 per year unless specifically agreed upon by both parties in writing, including signatures and date.

Authorized by:



Rebecca Olness, Mayor, City of Black Diamond

1-4-13

Date