

"Placerville, a Unique Historical Past Forging into a Golden Future"

City Manager's Report

June 14, 2016 City Council Meeting

Prepared by: Pierre Rivas, Development Services Director

Item #: 8.5



Subject: Adopt a Resolution:

1. Approving a Consulting Services Agreement with Herrera Engineering Consultants, Inc., in an amount not to exceed \$31,500 for FY 2016/17 to provide technical support with the City's National Pollutant Discharge Elimination System (NPDES) Permit for the Hangtown Creek Water Reclamation Facility and other requirements for the wastewater collection system, and authorizing the City Manager to execute same; and
2. Approving a Consulting Services Agreement with Herrera Engineering Consultants, Inc., in an amount not to exceed \$30,000 for FY 2016/17 to provide technical support with the City's Small Municipal Separate Storm Sewer System (MS4) Permit, and authorizing the City Manager to execute same; and
3. Approving a Consulting Services Agreement with Herrera Engineering Consultants, Inc., in an amount not to exceed \$10,000 for FY 2016/17 to provide technical support with the permits and other requirements regarding the City's Domestic Water System, and authorizing the City Manager to execute same.

Discussion:

Hangtown Creek Water Reclamation Facility (HCWRF)

The HCWRF treats wastewater and discharges reclaimed water into Hangtown Creek under a National Pollutant Discharge Elimination System (NPDES) Permit regulated by the Regional Water Quality Control Board (RWQCB). Permits of this type are valid for five years and the current permit was adopted in February 2014. Steve Herrera, formerly of Psomas Inc., has provided consulting engineering services to the City of Placerville for many years related to these permitting requirements and assisting in the preparation of mandatory reporting. While with Psomas (previously Owen Engineering), Mr. Herrera led the design team for the HCWRF plant upgrade completed in 2009 and is therefore intimately familiar with plant operations.

Of current concern is the on-going issue of effluent zinc levels, which if not successfully addressed, could result in increased operational costs as well as potential penalties. Historically, the zinc levels found in the HCWRF effluent discharge frequently exceed the zinc limits specified in the NPDES Permit and the accompanying Cease and Desist Order (CDO) R5-2015-0009. The CDO, which includes a time schedule for reporting submittals and compliance with the zinc limits, will expire on March 1, 2017, requiring full compliance with zinc effluent limits.

The City has evaluated a number of alternatives for the purposes of meeting zinc compliance, among which include the addition of chemicals to enhance zinc removals within the existing treatment processes. Based on preliminary results, it appears that additional operational changes at the HCWRF may be necessary; including the assisted use of the existing sludge drying beds to facilitate zinc removals within the existing treatment processes. Mr. Herrera's intimate knowledge of the plant's processes will be an asset during this evaluation.

The proposed agreement for the 2016/17 fiscal year is to perform similar services to those conducted in prior years with the additional tasks related to compliance with the zinc effluent limit and additional reporting as required by the RWQCB summarized in the tasks listed below:

- Task 1. California Water Code Section 13267 Study for Development of Final Ammonia Criteria for Protection of Freshwater Aquatic Life. Participate in Central Valley Clean Water Association (CVCWA) conference calls; and advise the City regarding the steps to determine presence or absence of the fresh water mussels of concern in Hangtown Creek.
- Task 2. Zinc Compliance. Prepare Cease and Desist Order (CDO) Progress Reports (due August 2016), as required by the CDO Requirement #1, describing the results from operational modifications needed to enhance zinc removals. Provide on-going assistance to HCWRF staff in evaluating alternatives for compliance with effluent zinc limitations, met and/or confer with City staff to discuss options, compile quality data for the HCWRF influent, effluent and internal processes streams.
- Task 3. 2016 Annual Salinity Evaluation and Minimization Plan Progress Report. Prepare annual progress report required by NPDES Permit Special Provisions VI.C3.a.
- Task 4. Zinc Compliance. Prepare Cease and Desist Order (CDO) Full Compliance Report, as required by CDO Requirement #1, to report full compliance with the zinc effluent limitations by March 1, 2017.
- Task 5. Industrial General Storm Water Permit (IGP) Compliance. Conduct Annual Comprehensive Facility Compliance Evaluation with HCWRF staff; provide training as required; evaluate storm water sample results for compliance with NALs (Numeric Action Levels); upload sample results onto the SMARTS website; and prepare the 2016-17 Annual Report for City submittal to the SMARTS website (based on monitoring records provided by City staff).
- Task 6. General Support Services. Provide services as required to assist City in complying with NPDES permit and other waste discharge requirements related to the wastewater treatment and collection system, including review of draft self-monitoring reports and correspondence with the RWQCB prepared by City staff; review of results from the Year 3 Effluent and Receiving Water Characterization Study; development of recommendations for corrective actions; compilation and evaluation of analytical data assistance, as required, with the regulation of proposed commercial/industrial discharges to the sewer system and compliance with the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems.

As stated above, this work is highly technical in nature and is over and above the typical scope of work that has been provided in the past by City Water Reclamation Facility staff. Because Mr. Herrera has worked with the City for many years through the upgrade of this facility and providing support services in kind, his firm is uniquely qualified to engage in these activities on the City's behalf.

The estimated fee to provide the proposed services described above are estimated to be \$31,500. These services are to be rendered on a time and materials basis.

Small Municipal Separate Storm Sewer System (MS4) Permit

The City municipal storm drainage system is required to be in compliance with General Permit No. CAS000004 Waste Discharge Requirements for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems General Permit adopted by the State Water Resources Control Board (Small MS4 Permit) on February 5, 2014. The Small MS4 Permit covers a five-year cycle and became effective July 1, 2013. The Small MS4 Permit includes a number of tasks that must be completed by specific dates.

The proposed agreement for Fiscal Year 2016/17 includes a number of tasks required by the Small MS4 Permit, including:

1. Attend City progress meetings and City-County coordination meetings and preparation of related meeting minutes as a matter of progress and public record of efforts.
2. Provide training and guidance materials for City staff as related to permit requirements.
3. Assist City staff in responding to the any correspondence from the State Regional Water Quality Control Board, inclusive of the anticipated 13267 letter from them regarding the Statewide Trash Amendments.
4. Preparation of the 2015-16 Evaluation required by the City Performance Effectiveness Assessment and Improvement Plan.
5. Preparation of the 2015-16 Annual Report due by October 15, 2016.
6. Other tasks as required to assist City staff with Small MS4 Permit compliance.

This work is specialized in nature, extremely labor intensive, and is over and above the typical scope of work that has been provided in the past by the City staff, and the MS4 permitting requirements are beyond the ability of current resources available to manage in-house.

The estimated fee to provide the proposed services described above are estimated to be \$30,000, which is \$5,000 higher than the Fiscal Year 2015-16 agreement. This estimate is based on the level of effort provided during the current 2015-16 Fiscal Year and the anticipated increase in the work necessary for compliance with Year 3 requirements. These services are to be rendered on a time and materials basis.

Domestic Water System Support Services

The water distribution system of the City is currently regulated by the State Water Resources Control Board Statewide Drinking Water Permit, Titles 17 and 22 of the California Code of Regulations, and other regulations implemented by the State Water Resources Control Board and Department of Public Health.

The proposed agreement for the 2016/17 fiscal year is for the provision of general support services to assist City staff in the compliance with the requirements adopted by the California Department of Public Health, California Regional Water Quality Control Board, and the State Water Resources Control Board. These would include drinking water requirements, and the Statewide Drinking Water Permit. General support services include:

1. Staff training and coordination assistance State staff.
2. Site visits as needed.
3. Assist the City in applying for permit coverage
4. Preparation of reports, letters, and preparation of responses to any Notices of Violation
5. Attend meetings as required.

The estimated fee to provide the proposed general services described above are estimated to be \$10,000. These services are to be rendered on a time and materials basis.

Options:

1. Approve the consulting services agreements as described above.
2. Do not approve the recommended consulting services agreements and risk falling out of compliance with the various permitting efforts.

Cost: The cost associated with these proposed Consulting Services Agreements will not exceed \$31,500, \$30,000, and \$10,000 respectively.

Budget Impact: The three proposed consulting services agreements with Herrera Engineering Consultants, Inc. totaling \$71,500 have been incorporated into the Proposed Fiscal Year 2016/2017 Operating Budget as shown below:

Agreement Description	Fund	Amount
WRF NPDES Permit Support	Sewer Enterprise Fund	\$ 31,500
MS4 Permit Support	General Fund	30,000
Domestic Water System Permit Support	Water Enterprise Fund	10,000
Total		<u>\$ 71,500</u>

Recommendation: Adopt a Resolution:

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Rebecca Neves, City Engineer



Pierre Rivas, Development Services Director



M. Cleve Morris, City Manager



Steve Youel, Community Services Director

Attachments:

1. Resolution
2. Proposal for NPDES Support Services for the HCWRF
3. Proposal to provide MS4 Permit Support Services
4. Proposal to provide Domestic Water System Support Services