

**Meeting Date:** 9/15/2015

**Report Type:** Consent

**Report ID:** 2015-00772

**Title: Supplemental Agreement: Combined Sewer System Regulatory Compliance Support**

**Location:** Citywide

**Recommendation:** Pass a Motion authorizing the City Manager or the City Manager's designee to execute Supplemental Agreement No. 2 to City Agreement No. 2013-0898 with Larry Walker Associates in an amount of \$348,079, to add FY2016 services and increase the agreement not-to-exceed amount to \$1,118,599.

**Contact:** Dan Sherry, Engineering & Water Resources Manager, (916) 808-1434; Sherill Huun, Supervising Engineer, (916) 808-1455, Department of Utilities

**Presenter:** None

**Department:** Department Of Utilities

**Division:** Environmental & Regulatory Com

**Dept ID:** 14001331

**Attachments:**

- 1-Description/Analysis
- 2-Background
- 3-Agreement

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### **City Attorney Review**

Approved as to Form  
Joe Robinson  
9/5/2015 5:30:10 PM

### **Approvals/Acknowledgements**

Department Director or Designee: Bill Busath - 8/28/2015 8:56:33 AM

## **Description/Analysis**

**Issue Detail:** The Department of Utilities (DOU) requests approval of a supplemental agreement with Larry Walker Associates, Inc. (LWA), to continue assistance with ongoing regulatory compliance services for the City's Combined Sewer System (CSS). Services include logistical coordination for storm event sampling, collection of CSS discharge monitoring samples, analysis of laboratory sample results, annual reporting assistance, CSS facility system performance analysis, and other regulatory support as needed.

**Policy Considerations:** This report's recommendations are consistent with the following goals and policies of the City's 2035 General Plan:

1. The City shall continue to rehabilitate the CSS to provide adequate wastewater collection, treatment, and disposal in areas served by this system.
2. Protect local watersheds, water bodies, and groundwater resources, including creeks, reservoirs, the Sacramento and American rivers, and their shorelines.
3. Protect life and property from flooding.
4. The City shall continue to identify, construct, and maintain infrastructure systems and facilities required to promote and sustain a positive economic climate.

**Economic Impacts:** None

**Environmental Considerations:** The Community Development Department, Environmental Services Manager has reviewed the proposed supplemental agreement and has determined that the proposed project is exempt from the California Environmental Quality Act (CEQA) under Section Number 15061(b)(3) of the CEQA Guidelines. The activity is covered by the general rule that CEQA applies only to projects that have the potential for causing a significant effect on the environment. Where it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the activity is not subject to CEQA.

**Sustainability:** Not applicable

**Commission/Committee Action:** Not applicable

**Rationale for Recommendation:** LWA was selected through a Request for Qualifications process in 2013 to provide these services for a period of up to three years (FY2014 thru FY2016). An agreement was approved for the first year of services (FY2014), followed by the approval of Supplemental Agreement No. 1 for the second year of services (FY2015). The proposed Supplemental Agreement No. 2 is for the final year of services (FY2016).

**Financial Considerations:** The supplemental agreement with LWA adds \$348,079 to the not-to-exceed amount, raising the total not-to-exceed amount for professional services to \$1,118,599.

Sufficient funds are available within the CSS Regulatory Compliance Support Project (I14120600) and the Sanitary Sewer Management Plan (SSMP) Project (I14110110) to complete the project. Charges will be split as follows:

<b>Project No.</b>	<b>Fund</b>	<b>Fund Name</b>	<b>Amount</b>
I14120600	6006	Wastewater Fund	\$ 81,567
I14120600	6011	Storm Drainage Fund	\$ 244,702
I14110110	6006	Wastewater Fund	\$ 21,810
<b>Total Project Costs</b>			<b>\$348,079</b>

**Local Business Enterprise (LBE):** The current agreement with LWA was approved prior to the City's establishment of LBE requirements for professional service agreements.

## Background

The City of Sacramento owns and operates a combined sewer system (CSS) that conveys both sewer and drainage in common pipelines from the Downtown, East Sacramento, and Land Park areas. The CSS is comprised of 2 service areas that are approximately 7,500-acres and 3,800-acres. The 7,500-acre service area contributes both wastewater and stormwater to a common collection system, and the 3,800-acre service area is a separated sewer system that contributes flows into the CSS. The CSS is regulated under National Pollutant Discharge Elimination System (NPDES) Permit No. CA0079111, Order No. R5-2015-0045, which was renewed on April 17, 2015.

In June 1990, the Central Valley Regional Water Quality Control Board (Regional Water Board) issued a Cease and Desist Order requiring the City to eliminate outflows from the CSS into City streets and properties. In 1995, City Council adopted a Combined Sewer System Improvement Plan (Improvement Plan) intended to reduce outflows as well as discharges to the river. That same year, the Regional Water Board approved the Improvement Plan, rescinded the Cease and Desist Order, and issued an NPDES Permit that mandated implementation of U.S. Environmental Protection Agency's Combined Sewer Overflow Policy, which prescribes nationwide operational and planning goals for combined sewer systems.

Since 1995, in accordance with the Improvement Plan, the City has constructed over \$200 million in improvements to the CSS. Major upgrades to critical CSS facilities were completed to significantly improve the performance of the CSS and to provide increased primary treatment capacity. These improvements have significantly reduced street flooding, structure flooding, and treated and untreated discharges to the Sacramento River.

As part of the previous permit the City was required to update the CSS Improvement Plan (Updated Improvement Plan). Through significant modeling efforts, the updated Improvement Plan identified programs and projects that will further reduce the potential for flooding and reduction of discharges to the Sacramento River.

The new 2015 CSS NPDES Permit mandates the continued implementation of the Updated Improvement Plan and requires development and implementation of a Long Term Control Plan to continue protection of the Sacramento River. The permit requires extensive water quality and toxicity sampling of influent and effluent discharge; comprehensive reporting of system operations applicable to the CSS, including operations and maintenance activities; comprehensive reporting of infrastructure annual budgets, long term funding, and actual expenditures; annual analysis and reporting of untreated discharges to the river and on-line reporting of CSS outflows; and extensive

regulatory reporting and public notification including notification of downstream municipal water users.

Completion of the tasks required by the NPDES Permit is accomplished by City staff and through professional services agreements or construction contracts when staff expertise or equipment is not available. Contracted services have included flow measurement and modeling, long term capital improvement evaluation and prioritizations, infrastructure condition assessments, inspections and specialized maintenance, capital improvement construction, and compliance monitoring.

The Request for Qualifications (RFQ) process for this project was conducted in May 2013, and it included various NPDES Permit required tasks to be performed over a period of up to three years (Fiscal Year (FY) 2013-14, FY 2014-15, FY 2015-16). Only one Statement of Qualifications (SOQ) was received in response to the RFQ, from Larry Walker Associates, Inc. (LWA). The program manager reviewed the SOQ submitted by LWA and found that it met the City's RFQ requirements. The City Council approved City Agreement No. 2013-0898 and first supplemental agreement (No. 2013-0898-1), to authorize performance of these services for FY2013/14 and FY2014/15. Extension of the agreement for the final fiscal year is contingent upon the City Council's approval of a supplemental agreement specifying the scope of services and payment provisions for the extended term. The Utilities Department has been highly satisfied with the services performed by LWA.

The FY 2015-16 Combined Sewer System Regulatory compliance support services agreement includes: technical support for permit required studies; coordination, implementation, and data quality evaluation for permit required water quality and toxicity sampling activities; Delta regulatory expertise; analysis of CSS performance; and regulatory reporting.

## SUPPLEMENTAL AGREEMENT

**Project Title and Job Number: Combined Sewer System Regulatory Compliance Support (14120600)**

**Date: 8/13/2015**

**Purchase Order #: SACTO-0000022598**

**Supplemental Agreement No.: 2**

The City of Sacramento ("City") and Larry Walker Associates ("Contractor"), as parties to that certain Professional Services Agreement designated as Agreement Number 2013-0898, including any and all prior supplemental agreements modifying the agreement (the agreement and supplemental agreements are hereafter collectively referred to as the "Agreement"), hereby supplement and modify the Agreement as follows:

1. The Agreement is amended as follows:

a. The City Representative specified in Exhibit A of the Agreement is changed to:

Kyle Ericson, Senior Engineer  
1395 35<sup>th</sup> Avenue  
Sacramento, CA 95822  
Phone: (916) 808-5390  
Fax: (916) 808-1497  
Email: KEricson@cityofsacramento.org

b. The Scope of Services specified in Exhibit A of the Agreement is amended as follows:

**This supplemental agreement adds Fiscal Year 2015-16 services to the Agreement. Contractor shall perform the work and services specified in "Attachment 3 to Exhibit A," which is attached hereto and incorporated herein by this reference.**

c. The Fee Schedule/Manner of Payment specified in Exhibit B of the Agreement is amended as follows:

**The budget for performance of the FY 2015-16 CSS monitoring and support services is set forth on "Attachment 3 to Exhibit B," which is attached hereto and incorporated herein by this reference.**

2. In consideration of the additional and/or revised services described in section 1, above, the maximum not-to-exceed amount that is specified in Exhibit B of the Agreement for payment of Contractor's fees and expenses, is **increased** by \$348,079, and the Agreement's maximum not-to-exceed amount is amended as follows:

Agreement's original not-to-exceed amount:	<u>\$371,927</u>
Net change by previous supplemental agreements:	<u>\$398,593</u>
Not-to-exceed amount prior to this supplemental agreement:	<u>\$770,520</u>
<b>Increase</b> by this supplemental agreement:	<u>\$348,079</u>
New not-to exceed amount including all supplemental agreements:	<u>\$1,118,599</u>

3. Contractor agrees that the amount of increase or decrease in the not-to-exceed amount specified in section 2, above, shall constitute full compensation for the additional and/or revised services specified in section 1, above, and shall fully compensate Contractor for any and all direct and indirect costs that may be incurred by Contractor in connection with such additional and/or revised services, including costs associated with any changes and/or delays in work schedules or in the performance of other services or work by Contractor.

4. Contractor warrants and represents that the person or persons executing this supplemental agreement on behalf of Contractor has or have been duly authorized by Contractor to sign this supplemental agreement and bind Contractor to the terms hereof.

5. Except as specifically revised herein, all terms and conditions of the Agreement shall remain in full force and effect, and Contractor shall perform all of the services, duties, obligations, and conditions required under the Agreement, as supplemented and modified by this supplemental agreement.

# SUPPLEMENTAL AGREEMENT

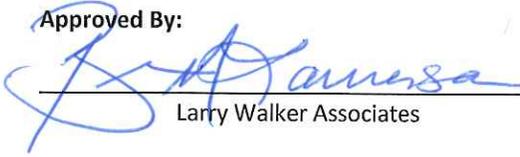
Approval Recommended By:

\_\_\_\_\_  
Project Manager: Kyle Ericson

Approved As To Form By:

\_\_\_\_\_  
City Attorney

Approved By:

  
\_\_\_\_\_  
Larry Walker Associates

Approved By:

\_\_\_\_\_  
City of Sacramento

Attested To By:

\_\_\_\_\_  
City Clerk

Attachment 3 Exhibit A

**CITY OF SACRAMENTO COMBINED SEWER SYSTEM MONITORING AND REGULATORY SUPPORT**

**FISCAL YEAR 2015-16 LARRY WALKER ASSOCIATES SCOPE OF SERVICES**

This Scope of Services describes the consulting services to be provided by Larry Walker Associates, Inc. (LWA) and its subcontractors to the City of Sacramento Department of Utilities (City) from July 2015 through January 2017. The 2015-16 tasks will be completed under the second amendment to the contract awarded in 2013.

LWA will provide services in support of the combined sewer system (CSS) National Pollutant Discharge Elimination System (NPDES) permit compliance (Order No. R5-2015-0045). These services include monitoring, reporting, system analysis and general regulatory support.

**TASK 1 WATER QUALITY MONITORING SUPPORT**

LWA will provide permit required monitoring support to the City for all CSS river discharge events and associated subcontracted laboratory services. It is assumed that LWA will provide field staff necessary for effluent monitoring, receiving water monitoring, and available to support other monitoring (influent) as needed and as described in the following sub-tasks.

The schedule of deliverables for all tasks is shown below:

<b>Sub-Task No.</b>	<b>LWA Deliverable</b>	<b>Deliverable Date to City</b>
1.1	Update Sampling and Analysis Plan	October 1, 2015
1.3	Sampling Event Follow-up Email, Chain of Custody forms, and sample tracking table	Within 3 calendar days of event completion
1.3	Laboratory reports for 'routine' data	Within 20 calendar days of event completion

**Task 1.1 Pre-season Sampling Preparations**

LWA will review and update the 2015-16 Sampling and Analysis Plan (SAP) to assess permit compliance, logistic improvements, safety, quality control samples, industry-standard sampling protocol changes, and feedback from the City staff and field staff. The SAP will be revised to address the changes to monitoring requirements from the 2010 permit to the current permit, and to include additional detail about reporting procedures. Additional analyses requested or for other programs may be added to the sampling program as funding is available.

LWA will present 2015-16 SAP edits and a review of the previous monitoring year at a meeting with the City Project Manager and the Supervising Plant Operators (SPO).

Following review and update of the SAP, LWA will lead a field training session for the LWA and City sample collection staff and other City staff. The training session will introduce the changes to the monitoring program to comply with the current permit, and will be a refresher session to review the event communication plan and general monitoring procedures. LWA will provide as-needed follow-up to assist new staff or address issues identified during the training.

LWA will not act as the safety officer for City staff, and health and safety policies listed in the SAP are intended for LWA staff. City staff should conform to City safety policies. The SAP will be finalized, if necessary, within two weeks of the training session.

### **Task 1.2 Inter-Event Preparations**

LWA will provide logistical support for sampling events at the locations and in the roles described in the SAP. This may include the receiving water locations and influent locations. LWA will prepare sample bottles, bottle labels, and field log sheets for permit sample collection. LWA will regularly check with Operations and Maintenance Division staff to determine if additional bottles are necessary and will fill requests as needed. Sample coolers for City staff will be delivered to the appropriate mobilization area specified by field staff. LWA and City field crews will provide their own properly calibrated field measurement instrumentation. LWA and City field crews will prepare their own chain-of-custody forms that will be reviewed by the LWA Water Quality Monitoring Task Manager. LWA will subcontract with a forecast service to provide daily weekday forecasts and as-needed weekend and phone forecasting for up to eight months, splitting the cost with the Sacramento Stormwater Quality Partnership on those months where the service overlaps.

### **Task 1.3 Sample collection**

LWA will provide as-needed assistance to collect samples at effluent locations for up to four discharge events and provide as-needed assistance for influent monitoring. The SAP outlines roles and responsibilities of the designated consultant and City for sample collection. The on-call SPO will notify the LWA Water Quality Monitoring Task Manager of imminent discharge events including a pre-storm estimate based on forecasted rain events. During the storm event, the on-call SPO will provide a two-hour lead-time notification to the LWA Water Quality Monitoring Task Manager prior to the discharge event.

LWA field staff will mobilize to CWTP when notified by the SPO. Crews will be able to mobilize initially for discharges at Pioneer and CWTP. Additional samples may also be collected at Sump 2/2A. Because Sump 2/2A discharges are infrequent and short in duration, LWA field teams will need to be on site and notified prior to such discharges. LWA will not act as the health and safety officer for City staff and is not responsible for notifying City staff of hazards.

For budgeting purposes, it is assumed that: 1) two false starts will occur where field crews are mobilized but discharges and discharge sampling do not actually occur; 2) two LWA field crew staff will be available to team with available City staff for effluent monitoring for each routine discharge monitoring event, 3) up to two additional LWA field crew staff will be available for each "annual" discharge monitoring event, 4) City staff will perform all influent sample collection, and 5) one LWA staff will provide office-based logistical support for each discharge event. It is assumed that no receiving water monitoring will be performed and that the City is adequately participating in the Delta Regional Monitoring Program (RMP). It is expected that two LWA field crew staff will be necessary for the annual events, however, up to two additional staff may be mobilized, if necessary. If more than four discharge sample collection events occur, funding may be reallocated from other tasks, if available.

LWA will arrange for delivery of all samples to the appropriate laboratories from a sample mobilization location at the City facilities or LWA office. LWA will contract directly with commercial analytical laboratories according to specifications in the SAP, which are based on

the NPDES permit. These services include analysis of acute toxicity samples at certain locations. The City may provide bacteriological analytical services directly through the City Water Treatment Laboratory, though the Regional San laboratory is considered the primary laboratory. The City Water Treatment Laboratory may not have available capacity at all times and will be used if prearrangements can be confirmed with the City Water Treatment Laboratory. LWA will submit samples to the laboratory within six hours of sample collection and make best efforts to ensure that the laboratory can initiate the analysis within eight hours of sample collection.

Within three calendar days of the end of an event sample collection, LWA will send a summary of field activities to the designated City staff. The summary will include all relevant field sheets, operational log sheets, chain of custody forms, and a summary table of samples submitted. City staff will review these materials and provide comments or changes to requested analyses.

The budget estimate includes aquatic toxicity analysis and as-needed follow-up testing (e.g., dilution series or toxicity identification evaluations). If toxicity is observed, LWA will coordinate with City staff to provide a recommendation whether follow-up testing should be conducted. The NPDES permit does not currently require follow-up toxicity assessments such as a toxicity identification evaluation (TIE) or toxicity reduction evaluation (TRE), and it is expected that observed effluent toxicity would be due to chlorine or ammonia. The toxicity laboratory will screen for these constituents. Plant operations staff monitor chlorine residual hourly in all effluent discharges. Additionally, for the annual monitoring event, sufficient sample should be collected at all sites to allow for follow-up ammonia screening using zeolite to reduce ammonia related aquatic toxicity. It is assumed that one additional effluent sample per year will be required for this assessment. This scope of work does not specifically include additional TIE support or TRE preparation, however, if funds from other tasks can be reallocated, the LWA team can provide support and lab analyses for these follow-up analyses as requested by City.

## **TASK 2 REGULATORY REPORTING**

The NPDES permit requires monthly and annual reporting. LWA will provide data processing support for months in which CSS overflow discharges occur and the annual reporting. Annual reporting for the 2014-2015 monitoring year (as defined in NPDES permit) will be performed under the FY 2014-15 contract and is not included in this scope of services. Annual reporting for the 2015-2016 monitoring will be performed under this scope of services.

The following is a summary of expected reporting activity deliverables for the 2015-2016 scope of services.

<b>Sub-Task No.</b>	<b>LWA Deliverable</b>	<b>Deliverable Date to City</b>
2.1	Data assessment memoranda, CIWQS uploads	Within 24 calendar days of event completion
2.2	Annual data DMR drafted hard copies or CIWQS upload, if allowed	December 30, 2016
2.3	2015-2016 Annual Report Sections Assigned by City	December 18, 2016
2.3	2015-2016 Untreated Discharge Report, if necessary	December 1, 2016

### **Task 2.1 Data Compilation and Reporting**

LWA will coordinate all follow-up and corrective actions with analytical laboratories to resolve any identified analytical or sample problems. LWA will request electronic data deliverables

(EDD) from the laboratories and apply an EDD processing tool to expedite the compilation of data into a format compatible with the Surface Water Ambient Monitoring Program (SWAMP) database for receiving water data. Data will be maintained in a spreadsheet or database format and available upon request by the City. LWA will perform a data quality evaluation assessment and evaluate the appropriateness of data for future uses by adding necessary data qualifiers.

LWA will process the data and upload it for review in the California Integrated Water Quality System (CIWQS). LWA will review data and provide a summary table of qualified data and a narrative discussion of known significant problems affecting the data. LWA will target complete data compilation and review prior to the reporting deadline (first business day of the second calendar month following the monitoring event). In some cases, events late in the month coupled with laboratory delays may not allow significant City review time. The 2015-2016 SAP will include roles and schedules for CIWQS reporting. LWA will notify the City of CIWQS uploads and submit the data overview memorandum. If necessary, the City will request that LWA perform any changes or corrections. The City Legally Responsible Officer (LRO) or their City designee will submit the CIWQS reports for routine (monthly) and annual reporting as well as all required Discharge Monitoring Reports (DMR).

### **Task 2.2 FY 2015-16 Annual Report Assistance**

LWA will prepare specifically assigned sections of the 2015-2016 Annual Report including monitoring data and loading summaries for the Nine Minimum Controls Report and preparation of the Untreated Discharge Report. LWA will provide as-needed support services to the City to complete other sections of the annual report. It is expected that there are sufficient FY 2014-15 funds to prepare the 2014-2015 report.

LWA will assist the City with preparation of the Nine Minimum Controls Annual Progress Report as required in permit section E.X.D.3. The LWA-led team will provide as-needed technical support to the City in reviewing any changes to the report format based on the forthcoming Report of Waste Discharge or comments from the Regional Water Board, and then compiling and reviewing the draft report as an attachment to the annual report.

The City is required to submit as part of its Nine Minimum Controls Annual Progress Report that is due on January 30<sup>th</sup> of each year, a summary of existing monitoring data and an evaluation of the efficacy of CSO controls (including pollution prevention efforts) to minimize and/or prevent impacts from CSOs. LWA will prepare a summary of existing monitoring data and estimate the load of key constituents removed by CSO controls. If necessary, the City is required to propose revisions to the CSO control program (including the Nine Minimum Controls) to improve the efficiency and effectiveness of controls.

LWA will prepare the following report sections by December 18, 2016:

- C. Review and modify the pretreatment program
- D. Maximize flow to the POTW Treatment Plant
- I. Monitoring to characterize CSO impacts and efficacy of CSO controls

LWA will review all existing sections or items prepared by the City and provide comments on suggested language or additional analysis.

LWA will assist the City in preparation of the 2015-16 annual report due January 30, 2017. LWA will provide technical and coordination support to assist in the preparation of the report. LWA duties may include but not limited to the following: review of any report language or analysis and suggested edits, as-needed assistance in preparation of materials not covered under other Scope-of-Services items, attendance at meetings specific to the annual report preparation, and preparation of responses to comments from the Regional Water Board.

If the City has any untreated discharges in 2015-2016, an “Untreated Discharge Evaluation Report” as described in the NPDES permit Attachment E Section X.B.7.d. is required. If necessary, LWA will prepare this report and submit along with the event-specific monthly reporting (self monitoring report).

LWA will provide the draft upload of annual data to CIWQS by December 30, 2016. “Annual” data refers to the samples collected once per year when a discharge occurs.

### **Task 2.3 Regulatory Reporting and Compliance**

LWA will provide as-needed support to respond to regulatory reporting requests or other evaluations including but not limited to responses to notices of violation, data requests from regulators and other parties, interpretation and assessment of modeling performed by others, and as-needed review of online reports in CIWQS, Total Maximum Daily Load (TMDL) data requests or other. It is assumed that the level of effort will not exceed the budgeted amount unless funds are reallocated from other tasks.

## **TASK 3 CSS PERFORMANCE**

LWA has previously provided support in reviewing modeling in support of the Long Term Control Plan (LTCP), and has prepared the Plan of Operations. The LWA team will provide engineering and technical support as requested by the City to prepare necessary updates, which may include but are not limited to the following – Updates to the LTCP, updates to the Plan of Operations, and others.

### **Task 3.1 CSS Model and Support for LTCP Update**

The permit requires an update to the Long Term Control Plan (LTCP) by June 1, 2018. As directed by the City, LWA will review model outputs and reports prepared by other consultants to support the LTCP and evaluate the sufficiency of the analysis of water quality impacts. LWA will provide summary comments and recommendations for additional analysis or modified approaches necessary to comply with the NPDES permit or at the request of the Regional Water Board. LWA will attend up to three meetings with the City and Regional Water Board to discuss the content of the LTCP Update in regards to water quality. LWA and team partner MWH International will provide as needed engineering support to evaluate the water quality components of CSS operational optimization and proposed LTCP projects.

### **Task 3.2 Plan of Operations Updates**

LWA prepared a Plan of Operations in 2012 under direction of City staff. Annually the Plan of Operations is reviewed by the City to incorporate any changes in operations or procedures. This task includes as-needed engineering support to assist the City resolve operational issues within the CSS or perform more detailed technical updates necessary to comply with the permit.

## **TASK 4 SANITARY SEWER OVERFLOW SAMPLE COLLECTION AND ANALYSIS**

LWA will provide as-needed monitoring and regulatory support of the City's sanitary sewer overflow (SSO) program based on the 2013 amendment to the General Order Waste Discharge Requirements (WDR, Order No. WQ 2013-0058-EXEC). LWA previously developed the Sampling and Analysis Plan (SAP) for this response effort and will provide as-needed monitoring assistance, City staff training, and support. LWA will not act as a safety officer for the City as City staff must adhere to City protocols.

### **Task 4.1 SSO Regulatory Support**

LWA will provide as needed regulatory support related to reporting and other communication with the State Water Resources Control Board, the Regional Water Board, and other parties.

### **Task 4.2 SSO Field Support**

When requested by the City, LWA will review and prepare recommendations on the City sampling plan documents. LWA will provide as needed sample collection support including field staff or office support when notified by the City, and will prepare a sampling kit for City field crews. In addition, LWA will provide a training session on sampling procedures for City staff when requested by the City. The budget estimate assumes minor updates to the SAP, one City staff training, on-call phone support, and two field visits to support City staff sample collection efforts, including sample analysis.

## **TASK 5 DELTA METHYLMERCURY TMDL SUPPORT**

The City CSS has a wasteload allocation for all discharges in the final Delta Methylmercury Total Maximum Daily Load (TMDL). While the City can meet the wasteload allocation in years with a low to average number discharge events, compliance in years with larger discharge volumes may require development of methylmercury control measures. While the TMDL Phase 1 assessment is currently underway, the City submitted a Control Study Work Plan to the Regional Water Board in April 2013 and initiated sampling in the spring and summer of 2013. The proposed study includes collection of influent samples, solids bench testing, and assessments of collection system "hot spots". Under a previously funded and ongoing effort a progress report will be submitted in October 2015. That report will include recommendations for additional activities, as necessary, prior to a final study report that is due October 2018. The level of effort in FY1516 is expected to include further characterization of methylmercury in the influent, effluent, solids, and evaluation of key factors that inhibit or amplify methylation of mercury within the CSS. It is expected that modeling to evaluate the benefit of the LTCP volume reductions will be performed by another consultant in 2016-17, and that model results can be used with some interpretation to meet the requirements of Study Objective No. 2. The October 2015 Progress Report will detail this future schedule.

### **Task 5.1 Mercury Sample Collection and Analysis**

LWA will collect or coordinate collection with City staff of additional influent and effluent samples to support Regional Water Board implementation of Phase 1 of the Delta Methylmercury TMDL. The additional sample collection is intended to better characterize influent and effluent loads. Samples will only be collected as funds remain and if collection of other NPDES permit requirements can already be assured. An additional sediment sampling

event and bucket tests may be performed during 2015-2016 by LWA and the contract laboratory if it is necessary based on forthcoming findings. LWA will also coordinate collection of any collection system sediment samples if the City identifies hot-spots and requests assistance. LWA will coordinate with the laboratories team partners in the analysis and reporting of results. These activities may be modified based on the October 2015 Progress Report.

### **Task 5.2 Attend Meetings with Regional Water Board and CVCWA**

At the direction of the City, LWA will attend up to three meetings with the Regional Water Board or CVCWA regarding TMDL Phase 1 activities and progress.

## **TASK 6 DELTA AND REGULATORY EXPERTISE**

Delta water quality is a critical resource to California as a major drinking water supply, agricultural supply, and wildlife habitat. This level of interest is expected to increase in the coming years with increasing resource demands, major proposed infrastructure changes such as the California Water Fix and California EcoRestore (formerly BDCP), and land use and "conservation project" planning as described in the Delta Plan. Sacramento and San Joaquin River Delta dischargers face increasing regulatory pressures, even in cases where those discharges may not cause significant impacts or are a benefit to the community and receiving water. LWA will provide general tracking support for a wide range of Sacramento and San Joaquin River Delta policy, planning, and implementation activities.

### **Task 6.1 Attend CVCWA Delta Meetings and Prepare Summary Notes**

LWA will attend CVCWA Delta meetings on behalf of the City to gather information and coordinate commenting on issues related to the City CSS. This includes up to three of the monthly meetings in person or via teleconference. Additional meetings may be attended if time is combined with other client representation (e.g., Sacramento Stormwater Quality Partnership).

### **Task 6.2 Prepare comments on BDCP, Delta initiatives, and Statewide Policy**

LWA will prepare comments specific to the City CSS for the Delta initiatives expected to be drafted for public review in 2015-2016, including the Bay Delta Conservation Plan (BDCP) follow-up versions and amendments, TMDLs, Delta nutrient objective development, and other policies. LWA will provide technical as-needed review of City-prepared or other partner (e.g., Regional Water Agency) comments or contribute comments on water quality related items.

LWA tracks all statewide activities and prepares summaries for clients of issues that may affect them (e.g., State Toxicity Policy, TMDLs, State Trash Policy, etc.). LWA will prepare as needed summary of the issues potentially affecting the City CSS and will also provide as-needed information to the City or as-needed representation at policy development or stakeholder meetings.

### **Task 6.3 Participate in Delta Regional Monitoring Program Pathogen Study**

The City and LWA have contributed time and resources to the Delta Regional Monitoring Program (RMP) Pathogen Subcommittee that is implementing the Basin Plan Amendment and Central Valley Drinking Water Policy Workgroup recommendation to include a study of sources, fate and transport, and general pathogen assessments. The objective of the study is to develop baseline information that can be used if future conditions trigger follow-up action by the

Regional Water Board. LWA will participate on behalf of the City and in coordination with the Sacramento Stormwater Quality Partnership to represent the City's "wet weather" discharge interests in implementing this study. Participation in the Pathogen Study was included in the ROWD as a follow-up activity to address the CSS as a potential source of *Cryptosporidium* and *Giardia*. Under the current permit, the City is allowed to participate in the RMP in lieu of conducting receiving water monitoring.

Study implementation began in April 2015 and is expected to continue through March 2017. During 2015-2016, LWA will continue to coordinate the monitoring efforts conducted for the study. LWA will assist in assessing the data collected under the study, and will work with the RMP Technical Advisory Committee (TAC) to adaptively manage the study implementation.

#### **Task 6.4 Attend Delta RMP Technical Advisory, Regulated Entity, and Steering Committee Meetings**

LWA will attend Delta RMP TAC and Steering Committee meetings on behalf of the City and in coordination with the Sacramento Stormwater Quality Partnership to gather information and represent the City's interests for the CSS. This includes up to six TAC and four Steering Committee meetings in person or via teleconference. LWA will assist in the facilitation of the regulated entity meetings scheduled before the quarterly Steering Committee meetings. It is expected that these efforts will be split with multiple external entities (e.g., Sacramento Stormwater Quality Partnership and Regional San).

### **TASK 7 PROJECT COORDINATION**

LWA will ensure that the City has access to requested staff and around-the-clock wet weather support for the duration of the project.

#### **Task 7.1 Project Coordination**

LWA will coordinate staff and subcontracted laboratories to ensure timely delivery of high quality work products. LWA will provide project status reporting and track budget and deliverable submittals.

LWA will provide project management to ensure that the project is completed on time and within budget, including project coordination and administration necessary to achieve the tasks previously described, and periodic communications with the City and subcontractors. LWA will provide qualified staff to complete all tasks as described in the preceding Scope of Services.

The LWA Project Manager and task leads, as necessary, will lead and attend progress meetings every other month or as requested by the City. LWA will prepare an agenda and distribute to City in advance of each scheduled progress meeting.

LWA will produce Progress Reports for review at the progress meetings as needed to keep the City apprised of work progress, schedule and budget status.

LWA will submit a monthly invoice with detailed budget status information on a subtask basis, and a monthly written report describing project activities and expenditures during the period covered by the invoice.

## Attachment 3 to Exhibit B

### 2015-16 City of Sacramento Combined Sewer System Monitoring and Regulatory Support Larry Walker Associates Estimated Budget

Task	Description	Vice President	Senior Eng/Sci	Project Eng/Sci 2B	Project Eng/Sci 2A	Project Eng/Sci 1B	Project Eng/Sci 1A	Lab Costs[1]	Other Direct Costs	TOTALS [1]
<b>Water Quality Monitoring Support</b>										
1.1	Pre-season Sampling Preparations	4	0	40	0	24	40	\$ -	\$ 120	\$ 18,100
1.2	Inter-Event Preparations	8	0	40	0	40	24	\$ -	\$ 5,240	\$ 24,520
1.3	Sample collection	8	0	16	0	24	24	\$ 50,446	\$ 1,150	\$ 63,836
Sub TOTAL LABOR HOURS		20	0	96	0	88	88			
Sub TOTAL COSTS								\$ 50,446	\$ 6,510	\$ 106,456
<b>Regulatory Reporting</b>										
2.1	Data Compilation and Reporting	8	0	24	0	48	100	\$ -	\$ -	\$ 28,120
2.2	FY 2015-16 Annual Report Assistance	4	0	40	0	64	64	\$ -	\$ 60	\$ 27,600
2.3	Regulatory Reporting and Compliance	32	0	40	0	16	16	\$ -	\$ 80	\$ 20,880
Sub TOTAL LABOR HOURS		44	0	104	0	128	180	\$ -	\$ -	
Sub TOTAL COSTS								\$ -	\$ 140	\$ 76,600
<b>CSS Performance</b>										
3.1	CSS Model and Support for LTCP Update	28	36	52	0	0	16	\$ -	\$ 60	\$ 27,340
3.2	Plan of Operations Updates	8	12	24	0	0	16	\$ -	\$ -	\$ 11,500
Sub TOTAL LABOR HOURS		36	48	76	0	0	32			
Sub TOTAL COSTS								\$ -	\$ 60	\$ 38,840
<b>Sanitary Sewer Overflow Sample Collection and Analysis</b>										
4.1	SSO Regulatory Support	16	0	24	0	0	24	\$ -	\$ 50	\$ 12,210
4.2	SSO Field Support	4	0	16	0	0	24	\$ 2,000	\$ 140	\$ 9,600
Sub TOTAL LABOR HOURS		20	0	40	0	0	48			
Sub TOTAL COSTS								\$ 2,000	\$ 190	\$ 21,810
<b>Delta Methylmercury TMDL Support</b>										
5.1	Mercury Sample Collection and Analysis	16	0	32	16	12	24	\$ 11,674	\$ 120	\$ 30,054
5.2	Attend Meetings with Regional Water Board and CVCWA	8	0	8	0	0	12	\$ -	\$ 120	\$ 5,440
Sub TOTAL LABOR HOURS		24	0	40	16	12	36			
Sub TOTAL COSTS								\$ 11,674	\$ 240	\$ 35,494
<b>Delta and Regulatory Expertise</b>										
6.1	Attend CVCWA Delta Meetings and Prepare Summary Notes	12	0	8	0	0	0	\$ -	\$ 140	\$ 4,840
6.2	Prepare comments on BDCP, Delta initiatives, and Statewide Policy	24	0	40	0	0	0	\$ -	\$ 60	\$ 14,020
6.3	Participate in Delta Regional Monitoring Program Pathogen Study	24	0	40	0	0	0	\$ -	\$ 120	\$ 14,080
6.4	Attend Delta RMP Technical Advisory, Regulated Entity, and Steering Committee Meetings	16	0	12	0	0	0	\$ -	\$ 60	\$ 6,580
Sub TOTAL LABOR HOURS		76	0	100	0	0	0			
Sub TOTAL COSTS								\$ -	\$ 380	\$ 39,520
<b>Project Coordination</b>										
7.1	Project Coordination and Planning	40	0	40	0	72	0	\$ -	\$ -	\$ 29,360
Sub TOTAL LABOR HOURS		40	0	40	0	72	0			
Sub TOTAL COSTS								\$ -	\$ -	\$ 29,360
<b>TOTAL LABOR HOURS</b>		<b>260</b>	<b>48</b>	<b>496</b>	<b>16</b>	<b>300</b>	<b>384</b>			
<b>TOTAL COSTS</b>								<b>\$ 64,119</b>	<b>\$ 7,520</b>	<b>\$ 348,079</b>

Notes:  
[1] Includes 10% LWA markup for lab costs and subcontractor labor.