TASK ORDER

This is Task Order No. 9

Task Order

In accordance with paragraph 1.01 of the Standard Form of Agreement Between Owner and Engineer for Professional Services – Task Order Edition, dated January 16, 2007 ("Agreement"), Owner and Engineer agree as follows:

1. **Specific Project Data**

   A. Title: City of Peoria - CSO Long Term Control Plan

   B. Description: Completion of services related to the refinement and negotiation of the Long Term Control Plan.

2. **Services of Engineer**

   AMEC will complete the following services during the development of a CSO Long Term Control Plan (LTCP).

   A. Task 01 – Project Management including subcontractor/subconsultant management and preparation of required reports for U.S. EPA/IEPA, schedule updates, and project summaries to the City.

   B. Task 02 – Public relations including One Water Committee updates, communication strategy development regarding EPA enforcement, and one (1) formal public hearing to present the agreed upon consent decree. This effort will also include preparing exhibits, fact sheets, and updating the portion of the Peoria web site related to CSO. AMEC will support City of Peoria staff in preparing exhibits and responding to questions as the LTCP is presented to City Council for adoption. This effort will include presentations at City Council meetings, as requested.

   C. Task 04A- Complete the detailed financial model developed for the City including provisions to address growth rates, future customer usage patterns, and changes in number of sewer customers. The financial model will also include provisions for addressing non-CSO capital costs and potential stormwater utility program fee contributions. Support the City in developing a financing plan and strategy including coordination with members of the City's financial team to look more specifically at level and timing of bonding and other elements of the financing assumptions to refine more specific scenarios. Develop a user's guide for the financial model for use by City staff.

   D. Task 04C- Continued coordination with the Storm Water Utility program as required to ensure possible ordinance changes are consistent with requirements under the Long Term Control Plan. Prepare a billing and implementation plan to address capital requirements to support CSO as well as credit and incentives policies for green infrastructure deployment on private

property. Integrating the public messaging between CSO and the Storm Water Utility will also occur including website development, informational and educational video production, and ratepayer education and training.

E. Task 05A –Refinement and finalization of green infrastructure report submitted to EPA evaluating the exclusive use of green infrastructure to meet the design requirements for CSO abatement. This report will detail the green infrastructure requirements for each sewershed and become the general template for subsequent engineering analysis. Green Infrastructure (GI) Alternatives Development and Evaluation includes the technical work elements necessary to develop (GI) green infrastructure solutions and validate implementation of GI storm water management as the primary solution for CSO control. Prepare a comprehensive report for U. S. EPA that incorporates the technical results of related Task05 activities as outlined in Appendix A of the draft Consent Decree dated September 26, 2014. This report will address, in addition to purely technical results, the results from public involvement and other City programs that can influence green infrastructure.

F. Task 05B- Based upon the results of Task 05A a detailed plan will be formulated to refine the analysis in the following areas

   a. Develop permanent sewer flow and rainfall metering program required to support green infrastructure design, implementation and compliance activities

   b. Update the existing sewer model developed for the LTCP, addressing smaller pipes higher in the collection system, soils, impervious characteristics and land use.

   c. Refine and recalibrate the hydrology model based upon the results of Task 05C.

   d. Possible uses of Eco Machines or related innovative technologies for larger deployment in Riverfront settings such as natural parks, soccer fields, urban gardens and green ways.

G. Task 05C- Continue flow monitoring activities at regulators and in the upper reaches of the collection system to create baseline flow analysis and event based flow measurements in areas where green infrastructure will likely occur (Task 05A and Task 05B). Provide field O&M of in place monitoring equipment.

H. Task 05D- Assist with initial green infrastructure project design and construction including prioritization, evaluation, engineering and implementation. Also assist in establishing suitability criteria for initial green infrastructure projects to consider potential CSO impact, sewer system condition and acceptability, appropriate connection and overflow points, ability to monitor results, and ability to analyze performance. Conduct analysis of results of Task 05B including potential improvements to GPSD regulators, use of in system storage devices and other measures to document green infrastructure success.

I. Task 05E - Provide coordination and support for the 2016 green infrastructure pilot project. The AMEC team will participate and coordinate as necessary the multi-member approach from project inception, public outreach, design, bidding, construction, and post-construction

monitoring. Also, in coordination with the City and other stakeholders AMEC, will assist in identifying opportunities for WBE/MBE participation. As part of the project team, AMEC will identify strategies to establish a WBE/MBE mentoring/development program that could be used for the implementation and maintenance of pilot project and possibly be expanded throughout the duration of the CSO project. The following tasks will be completed by Amec as part of the green infrastructure pilot project.

- Field data collection – Perform topographic survey of project area; verify existing sewer infrastructure for GI tie-in and flow monitoring locations; perform pre-construction flow monitoring; and perform perc tests to determine existing soil characteristics.
- Neighborhood/stakeholder meeting(s) – Coordinate stakeholder meetings for roll-out of green infrastructure pilot project and provide additional information for use of green infrastructure as method of CSO control as part of the long term control plan.
- Green infrastructure component selection – Assist in establishing suitability criteria for green pilot project including consideration of potential CSO impact, sewer system condition and acceptability, appropriate connection and overflow points, ability to monitor results, and ability to analyze performance. Assist with development of monitoring plan, protocol, and implementation to obtain meaningful results that can be translated to EPA reporting.
- Engineering design – Complete design calculations and drawings and specifications suitable for design build construction for selected GI components for team review at selected completion intervals.
- Permitting – Complete required sewer infrastructure permit applications for GI installation
- Bidding assistance – Provide assistance with preparation of bid package for GI related work. Attend pre-bid meeting and answer contractor questions during the bidding phase. Provide feedback for selection of qualified contractors for bid award.
- Construction assistance – Provide construction related services to assist the City during GI construction. It is anticipated that primary resident construction inspection services will be provided by others.
- Project Evaluation & Monitoring – Conduct green pilot project post construction performance evaluation to analyze function and effectiveness of GI elements. Post construction flow monitoring and model updates will be used as part of the post construction evaluation.

J. Task14- Technical review and responses to U.S. EPA's complaint for settlement including analysis of potential SEP projects to offset a portion of civil fines.

K. Task 15 – Program Management - Develop a Program Management Information System to be used in planning, budgeting, managing, tracking, and forecasting LTCP implementation program activities to ensure delivery of program on scope, schedule and budget. Develop green infrastructure project standards including checklists, design submittal standards, minimum deliverable requirements, and construction standards to be applied to all designs – public and private. Set parameters and objectives for appropriate site metrics from engineering and CSO perspective including watershed size, location within the sewershed, soils, hydraulic control and performance, and overflow connection points to CSO. Develop a system to measure performance of green infrastructure projects on a sewershed by sewershed basis such that the appropriate level of green is built in each sewershed and the target CSO reduction is achieved. Develop a monitoring plan, protocol and implementation to obtain meaningful

results for required reporting to U.S. EPA. Assist in the evaluation and prioritization of green projects by developing a matrix that incorporates City and project stakeholder's diverse and varied interests as well as CSO reduction goals to obtain majority consensus and project agreement from interested parties. Assist the City in development of an overall system operation and maintenance plan and schedule.

3. **Owner's Responsibilities**

Owner shall have those responsibilities set forth in Article 2 and in Exhibit B.

4. **Times for Rendering Services**

Description	Completion Date
Services of Engineer Described Above	December 31, 2017

5. **Payments to Engineer**

A. Owner shall pay Engineer for services rendered a total compensation value as follows:

Category of Services	**Compensation Method**	**Estimate of Compensation for Services**
Basic Services	Standard Hourly Rates	01 – Project Management - $35,000.00 02 – Public Involvement - $342,000.00 04 – Financial Assessment-$275,000.00 05 – Green Infrastructure Analysis and Implementation - $490,000.00 05E – Pilot Project - $144,500.00 14 – Technical Review and SEP Development – $45,000.00 15 – Program Management $50,000 **Total Base Services - $1,381,500.00**

AMEC may alter the distribution of compensation between individual phases of the work noted above to be consistent with services actually rendered, but shall not exceed the total estimated compensation amount unless approved in writing by Owner. The terms of payment are set forth in Article 4 of the Agreement and in Exhibit C.

6. Other Modifications to Agreement: *(none)*

7. Attachments: *(none)*

8. Documents Incorporated By Reference: *(none)*

TASK ORDER

Terms and Conditions: Execution of this Task Order by Owner and Engineer shall make it subject to the terms and conditions of the Agreement (as modified above), which Agreement is incorporated by this reference. Engineer is authorized to begin performance upon its receipt of a copy of this Task Order signed by Owner.

The Effective Date of this Task Order is _____.

OWNER:
City of Peoria

By: _____

Name: Patrick Urich

Title: City Manager

ATTEST:

By: _____

Name: Beth Ball

Title: City Clerk

By: _____
Name: Scott Reeise

Title: Asst Dir of Public Works/
City Engineer

Address: 3505 N. Dries Lane
Peoria IL 61604-1210

E-Mail
Address: sreeise@peoriagov.org
Phone: 309-494-8818
Fax: 309-494-8855

ENGINEER:
AMEC Environment & Infrastructure, Inc.

By: _____

Name: Gregory E. Asbury

Title: Vice President

REVIEW AND APPROVED:

By: _____

Name: Donald Leist

Title: Corporation Counsel

By: _____
Name: Michael Rogers

Title: Director of Public Works

By: _____
Name: Greg Asbury

Title: Vice President

Address: 8901 N. Industrial Road
Peoria, IL 61615

E-Mail
Address: greg.asbury@amec.com
Phone: 309-693-5690
Fax: 309-692-9364