

Information to be included in all Legislation Modifying a Contract:

1. **The names, contract compliance no. & expiration date, location by City/State and status of all companies (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR) submitting a competitive bid or submitting an RFP or RFSO.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>City/State</u>	<u>Status</u>
A. Black & Veatch Corporation	43-1833073 / 9/30/2015	Columbus, OH	MAJ
B. CH2M Hill Engineers, Inc.	32-0100027 / 1/7/2015	Columbus, OH	MAJ

2. **What type of bidding process was used (ITB, RFP, RFSO, Competitive Bid).**

RFP

3. **List the ranking and order of all bidders.**

Ranking:

- 1) Black & Veatch
- 2) CH2M Hill

4. **Complete address, contact name and phone number for the successful bidder only.**

Black & Veatch
 4016 Townsfair Way
 Columbus, OH 43219
 Contact Name: Bob O'Bryan, PE
 Phone: (614) 473-0921
 E-mail: OBryanBR@BV.com

5. **A full description of all work to be performed including a full description of work to be performed during any known phasing of the contract.**

This professional services contract with Black & Veatch will provide professional engineering services for the SWWTP Biosolids Land Application Facility project. Black & Veatch, as Design Professional (DP), will provide Preliminary Design Services (Step 1), Detailed Design Services (Step 2), and Engineering Services During Construction (Step 3).

The City has been working on incinerator upgrade designs to meet a Maximum Achievable Control Technology Standards (MACT) compliance date of March 21, 2016. The City has concluded that it is better to cease operation of the current Southerly Wastewater Treatment Plant (SWWTP) incinerator process and provide alternate means to handle the biosolids that have been historically disposed of by the incinerator process. With this project, the City plans to provide avenues to beneficially re-use biosolids. This project will provide infrastructure to the SWWTP in order to facilitate the maximum beneficial agricultural use of the plant's biosolids by land application including biosolids storage tanks with associated recirculation and pumping equipment, liquid biosolids piping, truck load-out facilities, and an odor control system. This project will also provide piping to pump digested and undigested biosolids cake sludge simultaneously to the cake storage silos, and piping to link the biosolids land application tanks with the dewatering, thickening, and digestion processes. The primary goal of this project is to provide sufficient storage facilities and basic feed piping and pumping by March 21, 2016; thereby, reducing the need to incinerate. After the MACT compliance date,

construction of facilities will be completed to permanently eliminate the need to incinerate. In order to meet this goal, the project design process was expedited to accelerate activities for this purpose by combining Step 1 and Step 2 design services into the original agreement.

Initial Professional Engineering Services were previously requested for Preliminary Design (Step 1) and Detailed Design (Step 2). These services included the following tasks: project management, investigation of existing facilities, gathering and evaluating process information and refining project goals, an evaluation of locations, size, and number of biosolids tanks and load-out facilities, preparation of a preliminary design report, surveying and geotechnical investigations for plan development, preparation of detailed design drawings and specifications, preparation of documents and drawings for permit approval, preparation of bid documents, and bidding assistance.

As the design developed, it only then became apparent that an additional design effort, above that initially planned, would be required to address all items required to provide a complete design for a fully functioning facility. The additional design effort performed was within the existing contract's scope of services. During the accelerated design process, it was anticipated that additional funding may be required, but every effort was focused to have the design completed, bid, and constructed to meet the March 21, 2016, MACT compliance date. The additional Step 2 tasks included the following: Parts Storage Building & Carpenter's Shop demolition and replacement, Digester gas seal replacement, odor mitigation for the Digester Feed Wells, operator work station, replacement of problematic valves, an expanded chemical feed system, stormwater plan revisions, replacement of sludge pumps, and training by the centrifuge manufacturer for proper equipment operation. This modification will pay for these services that have been completed.

In addition, with this request for modification, the DP will be tasked with Engineering Services During Construction (Step 3). These tasks will include construction phase engineering consisting of Technical Project Representation (TPR) to interpret contract requirements and to verify the construction contractor's compliance with the project's technical requirements, Resident Technical Representation, programming services, training services, start-up and commissioning assistance, generation of Standard Operating Procedures (SOP) manuals, and record project documentation. Construction Management, Administrative Services, Field Project Representation (FPR), and Materials Testing and Evaluation Services will be performed by others.

6. A narrative timeline for the contract including a beginning date, beginning and ending dates for known phases of the contract and a projected ending date.

Preliminary Design began on July 23, 2014 and was completed with the submission of a Preliminary Design Report (PDR) on November 17, 2014. Detailed Design began in November 2014 after the submission of the PDR and was completed on March 26, 2015. Advertisement for bids started on March 27, 2015 and was completed with a bid opening on May 6, 2015. The Notice to Proceed for the construction contract was issued on June 17, 2015. The DP will perform Services During Construction after this modification is approved. The overall contract duration, from initiation of Preliminary Design Services to completion of Services During Construction, is estimated to be two and one-half years.

The contract is being funded by incremental appropriation through the use of modifications. The original award provided funding for the Preliminary Design Services (Step 1) and Detailed Design Services (Step 2). This request for modification will provide additional, ,

Detailed Design Services (Step 2), that are within the scope of services, but their needs were not fully determined at the time of the original contract, and Services During Construction (Step 3).

7. **A narrative discussing the economic impact or economic advantages of the project; community outreach or input in the development of the project; and any environmental factors or advantages of the project.**

With the planned increase in or expansion of beneficial re-use of biosolids facilitated by this project, the SWWTP will have the necessary infrastructure to facilitate the maximum beneficial agricultural use of the plant's biosolids by land application. With the elimination of incineration at SWWTP, there will be a corresponding improvement in air quality due to the elimination of the incinerator emissions. Both of these items are beneficial environmental advantages of this project since the City of Columbus Green Action Plan specifically calls for expanded reuse of biosolids and reduction of incineration. Land application uses are currently the lowest cost method for biosolids utilization. Expansion of these beneficial uses presents an economic advantage. No community outreach impact is considered for this project.

8. **A description of any and all modifications to date including the amounts of each modification and the Contract Number associated with any modification to date. (List each modification separately.)**

ORIGINAL CONTRACT: \$3,221,708.00 (EL016159)

Funding provided for Preliminary Design Services (Step 1) and Detailed Design Services (Step 2).

9. **A full description of the work to be performed as part of the proposed contract modification. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)**

PROPOSED MODIFICATION NO. 1: \$3,739,887.00

This modification will provide \$3,739,887.00 for additional Detailed Design Services (Step 2), that are within the scope of services, and Engineering Services During Construction (Step 3).

10. **If the contract modification was not anticipated and explained in the original contract legislation a full explanation as to the reasons the work could not have been anticipated is required. (Changed or field conditions is not sufficient explanation. Describe in full the changed conditions that require modification of the contract scope and amount.)**

This Contract Modification, for Services During Construction (Step 3), was planned and was anticipated. The additional Detailed Design work performed was not planned, but is a continuation of the services included within the existing contract's scope of services. During the accelerated design process, it was anticipated that additional funding may be required, but every effort was focused to have the design completed, bid, and constructed to meet the March 21, 2016, MACT compliance date. The additional Step 2 tasks included the following: Parts Storage Building & Carpenter's Shop demolition and replacement Digester gas seal replacement, odor mitigation for the Digester Feed Wells, operator work station, replacement of problematic valves, an expanded chemical feed system, stormwater plan revisions, replacement of sludge pumps, and training by the centrifuge manufacturer for proper equipment operation. In so much as the majority of the work included in this

modification was planned for and anticipated within the original procurement, due to the highly complex and technical nature of this wastewater treatment plant infrastructure, it is not reasonable or cost efficient to undertake a new procurement effort to acquire these services.

11. An explanation of why the work to be performed as part of the contract modification cannot be bid out. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

In so much as the majority of the work included in this modification was planned for and anticipated within the original procurement, due to the highly complex and technical nature of this wastewater treatment plant infrastructure, it is not reasonable or cost effective to undertake a new procurement to acquire these services. The lengthy process for initiating a new procurement and for a new entity to gain understanding of the project would likely cause an unacceptable project delay and additional cost.

12. A cost summary to include the original contract amount, the cost of each modification to date (list each modification separately), the cost of the modification being requested in the legislation, the estimated cost of any future known modifications and a total estimate of the contract cost.

The original engineering contract for Preliminary Design Services (Step 1) and Detailed Design Services (Step 2) was for an amount of \$3,221,708. This request for modification for additional Detailed Design Services (Step 2) , that are within the scope of services, and Engineering Services During Construction (Step 3) will be \$3,739,887.00. The following is an estimate of costs for the contract:

Original Contract (Step 1 and Step 2)	\$3,221,708.00
<u>Modification No. 1 (Additional Step 2 and Step 3)</u>	<u>\$3,739,887.00</u>
CURRENT PROPOSED TOTAL	\$6,961,595.00

If unforeseen issues or difficulties are encountered that would require additional funding, a modification would be requested.

13. An explanation of how the cost of the modification was determined.

A cost proposal was provided by Black & Veatch and reviewed by the Division of Sewerage and Drainage and was deemed acceptable.

14. Sub-Consultants identified to work on this contract, their contract compliance no. & expiration date, and their status (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR):

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>Status</u>
Please see the attached Subcontractor Work Identification Forms, June 11, 2015.		

15. Scope of work for each subcontractor and their estimate of dollar value to be paid.

Please see the attached Subcontractor Work Identification Forms, June 11, 2015.

Note: The Contract should be considered to include any and all work that is anticipated to be awarded to the company awarded the original contract throughout the contract/project timeline. This includes the original contract and any and all future anticipated modifications to the contract to complete the contract/project.

Updated as of 4-10-10