

**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 RFSQ.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>City/State</u>	<u>Status</u>
A. Malcolm Pirnie, Inc. (now acquired by ARCADIS U.S., Inc.)	132653703 / 03/09/2012	Columbus / OH	MAJ
	570373224 / 7/10/2015	Columbus / OH	MAJ
B. ms consultants, inc.	346546916 / 05/27/2012	Columbus / OH	MAJ

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

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

1. Malcolm Pirnie, Inc. (now acquired by ARCADIS U.S., Inc.)
2. ms consultants, inc.

4. **The name, address, contact name, phone number and contract number of the firm awarded the original contract.**

Malcolm Pirnie, Inc., (now ARCADIS U.S., Inc. and so referred to hereafter)  
100 E. Campus View Blvd., Suite 200, Columbus, OH 43235  
Contact: Steve Mess, P.E.; (614) 985-9201

5. **A description of work performed to date as part of the contract and a full description of work to be performed during any future phasing of the contract.**

This professional services contract modification with ARCADIS U.S., Inc. will provide continuing professional engineering services for the Wastewater Treatment Facilities Ash Lagoons Improvements project, Project 650333-100000. Both the Jackson Pike and Southerly Wastewater Treatment Plants have multiple hearth furnaces that incinerate biosolids. The ash produced is mixed with incinerator scrubber water and/or plant flushing water and was previously pumped to the two ash lagoons at each plant. Decant draining off the ash lagoons contained concentrations of copper that occasionally exceeded new NPDES permit limits, and the Ohio EPA required this decant to be eliminated from being released directly into the receiving stream, the Scioto River, by 8/01/2013. The Scope of Work for this project, at the City's discretion, originally consisted of the following elements:

- A. This project was originally intended to investigate the construction of new ash lagoons that were to drain to the plant effluent for the purpose of diluting the copper concentrations of the ash decant to acceptable concentrations for release into the Scioto River, or to combine the existing ash lagoon decant with the treatment plants' effluents, or to recycle decant from the existing ash lagoons to plants' headworks for treatment.

B. Jackson Pike WWTP:

1. Study the matter of leakage known to occur in the Jackson Pike ash lagoons and investigate options to replace them or to provide new ash lagoon liners for both lagoons and construct a new ash flume or alternative ash conveyance system.

C. Southerly WWTP:

1. Investigate new, smaller ash storage and conveyance to be constructed out of the Scioto River floodway, due to floodway constraints.

**6. An updated contract timeline to contract completion.**

This project's Business Case Evaluation (BCE) was begun on 8/31/2011 and the BCE proposed, investigated and evaluated multiple alternative methods to eliminate the discharge of incinerator ash decant containing copper concentrations in excess of new regulatory limits to be in effect by 8/1/2013. The Design Professional (DP) began work on supplying design and construction cost information for multiple BCE alternatives after the Notice to Proceed was given on 3/18/2011. It was originally estimated that a Preliminary Design for the project would be completed in 4 months from the date that the Notice to Proceed was given.

However, early in the BCE process an alternative to the originally-envisioned ash lagoon modifications or new lagoon construction was identified. An innovative alternative was proposed by the City's project committee to convey ash slurry into dewatering containers to transport dewatered incinerator ash directly to beneficial reuse, eliminating the need for lagoons and the need for storage and subsequent excavation of the ash from lagoons.

Pilot projects for the new system were started at both WWTPs and continued during the BCE process. The DP provided pilot project start-up and documentation preparation assistance, Testing and Evaluation Services and Administrative Services. Components of the SWWTP pilot test system were built by the maintenance staffs of the City of Columbus Sewer Maintenance Operations Center (SMOC), Composting Facility, SWWTP, and by the WWTP Construction Services Contractor. Components of the JPWWTP pilot test system were built by the JPWWTP maintenance staff.

The DP's Detailed Design for the SWWTP system commenced during the pilot testing when it was demonstrated that the dewatering methodology worked and that the ash dewatering/transport system alternative would be the recommendation of the BCE report. The construction and design field verification of the SWWTP system was performed by the WWTP Construction Services Contractor and by the SWWTP maintenance staff personnel. The design and construction of the JPWWTP system was performed by JPWWTP maintenance staff personnel.

The DP performed Services during Construction at SWWTP that included Technical Project Representation (TPR) to interpret design requirements, to design modifications to the plant's pumping and conveyance system, and to provide direction for compliance with the project's technical requirements. Construction Management and Field Project Representation (FPR) were performed by others.

The overall contract duration, from initiation of BCE/Preliminary Design services to completion of Services during Construction, was originally estimated to be 30 months. The

BCE final report was submitted for approval on 7/2/13. This modification will provide designs for multiple identified continuing improvements to the ash loadout system subsequent to meeting the regulatory deadline of 8/1/2013.

The contract shall be funded by incremental appropriation, through the use of this modification. The original award provided funding for the BCE, Preliminary Design and Detailed Design for the SWWTP ash loadout system. The current need for Detailed Design, as-built drawings and Services during Construction are anticipated to continue into 2014.

**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.**

The cost of this project was scaled down from an initial estimated capital cost of \$19,859,000.00 to design and construction expenditure levels to date of less than \$1,000,000.00. The innovative new ash dewatering and transportation process was designed, tested and built through cooperative skilled team interaction of City of Columbus personnel from all of the Division of Sewerage and Drainage facilities. This project will enhance the beneficial reuse of incinerator ash by eliminating the need to handle and transport the ash multiple times; it will end the practice of storing ash in or near the floodplain of the Scioto River, which will eventually end the downstream transport of ash during seasonal flooding events; it will eliminate the ash lagoon decant overflows directly into the Scioto River and instead will provide for WWTP processing of the incinerator ash decant flow, all in keeping with the spirit and the intent of the City of Columbus' Green Action Plan.

**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.)**

This is the first contract modification.

**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: \$119,500.00

This modification provides funding for additional detailed design, as-built drawings and construction-phase engineering services and commissioning assistance tasks that are envisioned to be necessary during the course of continuing improvements for CIP 650333.

**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.)**

Contract Modification No. 1 was planned and anticipated, and so stated in the original contract's legislation. It is a planned continuation of the services originally included within the existing contract's scope of service.

**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.)**

The funding provided by this Contract Modification No. 1 is for continuation of the existing work of the contract. In so much as work was planned for and anticipated within the original procurement, it is not reasonable or cost effective to undertake a new procurement to acquire these services.

**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.**

This contract is proposed to be modified for a total contract amount of \$430,148.00 that is estimated to be sufficient to complete the work included in the extensively modified scope of services. Accurate estimates of cost for all steps of engineering services, and project services during construction, are difficult to produce at this phase of the project due to the many possible alternatives for incinerator ash loadout system facility improvements that are being considered. Following is an estimate of design and engineering costs for the contract:

Original Contract	\$ 310,648.00
Modification No. 1 (Budgeted 2014)	\$ 119,500.00
CURRENT PROPOSED TOTAL	\$ 430,148.00

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

A cost proposal was provided by ARCADIS U.S., Inc. and reviewed by the Division of Sewerage and Drainage and was deemed acceptable. The cost of this contract modification is consistent with the direct labor, overhead, and profit rates established within the original proposal.

**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>
See attached Subcontractor Work Identification Forms, November 14, 2013.		

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

See attached Subcontractor Work Identification Forms, November 14, 2013.

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.