



Town of Johnstown

TOWN COUNCIL AGENDA COMMUNICATIONS

AGENDA DATE: October 3, 2022

SUBJECT: Amend Water Treatment Plant Design Agreement with Burns & McDonell

ACTION PROPOSED: Consider Approval of Addendums 1, 2 and 3 to the Water Treatment Plant Design Agreement with Burns & McDonell

ATTACHMENTS:

1. Addendum 1
2. Addendum 2
3. Addendum 3

PRESENTED BY: Ellen Hilbig, Utilities Director

AGENDA ITEM DESCRIPTION:

Enclosed for your review and consideration is a request to approve design Addendums 1, 2, and 3 to the project scope for the Water Treatment Plant (WTP) design that was awarded to the engineering consultant, Burns & McDonnell, during the September 8, 2021 Council Meeting. The additional design services to the WTP project scope result in a total additional cost of \$1,145,495 to the project.

Addendum 1 totals \$407,937 and consists of two scope change items; adding additional property to the site design and design of an on-site facility to process solids generated during treatment. The design team determined in order to provide room for future plant expansions and to maintain plant operations during construction it was necessary for the Town to obtain and design for an additional 6.5 acres of property. After discussions with the Town's engineering consultant for the Central Wastewater Treatment Plant project it was determined the volume and density of the solids generated by the water treatment processes were not accounted for in the design loadings of the new wastewater plant. This required the scope of the water treatment plant design to be expanded to incorporate a solids handling solution.

Addendum 2 consists of unscoped cost estimating work performed by Burns & McDonnell's construction team on the WTP design in order to provide a detailed cost basis for the design and

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resulted in an addition of \$119,217 to the project. The work consisted of developing a project cost model and providing construction level cost information for the three design options presented to Council at the August 29 work session. This information was also used to develop the Town's budget for the construction of the Water Treatment Plant.

Addendum 3 represents the scope change required to shift from the original design of Ozone-Biologically Activate Filtration (BAF) to Membranes and Granular Activated Carbon (GAC) resulting in a total additional cost of \$618,791. The information presented at the August 29 work session identified that based on the water quality data collected, that the Town's reported levels of the taste and odor compounds Geosmin/MIB exceeded the treatment level supported by Ozone BAF requiring a transition in treatment to a Membrane GAC system. This change was made in order to guarantee taste and odor treatment and remove the potential for a taste and odor incidents to Town residents. The new design approach impacts schedule resulting in an extension of the project design completion to July of 2023. The Town and Burns & McDonnell are working together to streamline the schedule and incorporate cost savings where possible.

The 3 separate addendums resulted in a total additional cost of \$1,145,945 to the Water Treatment Plant design. The project will also have approximately \$350,000 of unused additional service request funds that were budgeted for in the Original Contract. These funds were allocated for pilot testing of various treatment processes to ensure the optimal WTP. Staff is requesting these funds remain available, but allocated for contingency* with authorization of use by the Town Manager.

Total Design Expenses:

1. Original Contract	\$2,890,722.00 (including pilot testing)
2. Original Contract Credit	(\$350,000.00)*
3. Addendum 1	\$407,937.00
4. Addendum 2	\$119,217.00
5. Addendum 3	\$618,791.00
Subtotal	\$3,686,667.00
Contingency	\$350,000.00*
Total	\$4,036,667.00

LEGAL ADVICE:

Addenda issued per approved Contract documents

FINANCIAL ADVICE:

The total project expenses to date are \$1,737,963 leaving a balance of \$1,037,018 in the 2022 fiscal year for design. Sufficient funds are budgeted in 2022 to cover the added design costs from the

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addendum. The FY 2023 preliminary budget already presented to Council will need to be updated to account for the remaining funds necessary to complete design services for the project.

RECOMMENDED ACTION: Approve addendums 1, 2 & 3 to the Water Treatment Plant design agreement with Burns & McDonnell for a total cost not to exceed \$1,145,945 and authorize the Town Manager to approve the use of the \$350,000 as needed for contingency funds.

SUGGESTED MOTIONS:

For Approval: I move to approve addendums 1, 2 & 3 to the Water Treatment Plant design agreement with Burns & McDonnell for a total cost not to exceed \$1,145,945 and authorize the Town Manager to approve the use of the \$350,000 as needed for contingency funds.

For Denial: I move to deny the design addendum 1, 2 & 3 and have Staff reevaluate the design delivery method for the project.

Reviewed and Approved for Presentation,



Town Manager