

GLENBARD WASTEWATER AUTHORITY
Executive Oversight Committee
Agenda

January 12, 2017

7:30 a.m.

**Meeting will be held at the Glenbard Wastewater Plant
21 W 551 Bemis Rd, Glen Ellyn, IL**

1. Call to Order
2. Roll Call
3. Pledge of Allegiance
4. Public Comment
5. Consent Agenda – The following items are considered to be routine by the Executive Oversight Committee and will be approved with a single vote in the form listed below:

Motion the EOC to approve the following items including Payroll and Vouchers for the Month of December 2016 totaling \$736,333.90 (Trustee Clark)

- 5.1 Executive Oversight Committee Meeting Minutes:
December 8, 2016 EOC Meeting
- 5.2 Vouchers Previously Reviewed by Trustee Clark:
December 2016
- 5.3 Sodium Thiosulfate Contract Award

The Glenbard Wastewater Authority posted the bid notice and packets to our web site on December 1, 2016. Notification was given publicly through an advertisement to bid that was published in the Daily Herald on December 1, 2016. The deadline for receipt of the sealed bids was January 3, 2017 at 11:00 a.m. After opening the bid documents, reviewing the unit prices, and confirming that all required documentation was present, PVS Minibulk was the lowest responsive, responsible bidder. PVS has been our long-term Sodium Thiosulfate provider due largely in part to the delivery requirements we have mandated and based on their proven performance record and consistent pricing. GWA does not have any reason to deny them award of the new contract.

The Operations Staff requests the EOC to award a three-year contract to PVS Chemical, Detroit MI for the purchase and delivery of Liquid Sodium Thiosulfate at \$1.72 per gallon/delivered with the amount expensed to CY2017 O&M Budget 270-1-530440.

5.4 Sodium Hypochlorite Contract Award

The Glenbard Wastewater Authority posted the bid notice and packets to our website on December 1, 2016. Notification was given publicly through an advertisement to bid that was published in the Daily Herald on December 1, 2016. The deadline for receipt of the sealed bids was January 3, 2017 at 11:00 a.m. After opening the bid documents, reviewing the unit prices, and confirming that all required documentation was present, Alexander Chemical Corporation was the lowest responsive, responsible bidder. Alexander Chemical has been our Sodium Hypochlorite provider in the past. To date, we do not have any reason to deny them award of the new contract. The previous price the Authority was paying competitively per gallon of Sodium Hypochlorite was \$0.69 to Rowell Chemical Corp. from March 2014 until current.

The Operations Staff requests the EOC to award Alexander Chemical Corporation the 3-year Sodium Hypochlorite supply contract for a unit price of \$0.632 per gallon delivered. The cost of the Sodium Hypochlorite will be expensed to the Glenbard's Stormwater Plant O&M budget line item 270-1-530440.

5.5 Contract Laboratory Services Open Purchase Order Request

The Authority Staff would like to request waiving of competitive bidding requirements per the Village of Glen Ellyn code, 1-10-2: EXCEPTIONS TO COMPETITIVE BIDDING. Per Administrative Order No. 3 Section "D" Professional Services – Section 3 the Authority is required to seek at least three competitive proposals. The request provides support that the Authority has gathered and evaluated three competitive proposals from qualified laboratories.

This request is made due to the specific requirements that need to be met in order for the Authority to properly test our Influent, Effluent, Anaerobic Digester and Land Applied Biosolids samples per the IEPA and EPA specifications. With your approval, a purchase order will be created under O&M account 270-520806 – Professional Services Laboratory Support for a not to exceed budgeted amount of \$30,000 to be utilized during the 2017 calendar year.

5.6 Filters & Consumables Open Purchase Order Request

The Maintenance staff with assistance from Nissen has researched the filters and consumables necessary for routine preventative maintenance of the new MAN engines located in Building Y - CHP. The engines are beginning CY2017 with approximately 2,000 hours of runtime on each engine.

The estimated CY2017 parts and warranty requirements per engine = \$26,123.24. In accordance with the Nissen 2-year warranty (began May 28, 2016) spare parts are to be purchased thru Nissen. It is desired to treat this purchase as a single

source warranty required purchase. Yes, these spare parts are available from other vendors, but if purchased thru other vendors, warranty issues arise. After the two-year warranty expires, the spare parts will be competitively bid. Based on the 2-year warranty, it is desired to create an Open Purchase order from account #270-520975 – Equipment Maintenance in the amount of \$55,000 within the \$86,000 budgeted for maintenance on the Nissen Engines on an as required basis.

The Maintenance Staff would like to request waiving of competitive bidding requirements per the Village of Glen Ellyn code, 1-10-2: EXCEPTIONS TO COMPETITIVE BIDDING, and Administrative Order Part C, Section f. *Standardization Purchases*. This request is made due to the specific nature of the consumables that are recommended by the manufacturer and supported during the warranty period of the Nissen Engines. With your approval, a purchase order will be created under O&M account 270-520975 – Equipment Maintenance in the amount of \$55,000.

5.7 Required Lubricants Open Purchase Order Request

The Authority Staff would like to request waiving of competitive bidding requirements per the Village of Glen Ellyn code, 1-10-2: EXCEPTIONS TO COMPETITIVE BIDDING. This request is made due to the specific nature of the lubricants that are recommended by the manufacturer and supported during the warranty period of the Nissen Engines. With your approval, a purchase order will be created under O&M account 270-520975 – Equipment Maintenance for a not to exceed amount of \$20,000 within the \$86,000 budgeted for maintenance on the two Combined Heat and Power engines during the 2017 calendar year.

6. Request to pay a \$10,315 overage to the Combined Heat and Power Guaranteed Maximum Price for field changes provided at the request of the Authority.

Based on my review of the CHP Change Order Log the credits that have been put toward the adders equate to net change of \$10,315.06. The only out of scope change to the CHP project was the addition of the trench drain. The increase in size of the stormwater pump station and the insulation of the overhead hot water pipes inside the building were modifications to the original scope. The trench drain work described is clearly outside the scope of the original project. We thought we would have enough credit to offset the additional work, but we fell short with other in scope changes that consumed the buffer.

Based on my discussions with VGE Public Works Director, Julius Hansen he felt the change was beneficial and supported the work. The design and construction does indeed work and has prevented potential flooding of the MCC room during some significant rain events that occurred during summer and fall of 2016. I would like to make a recommendation based off of the work that was clearly acknowledged as out of scope. Authority staff would request a formal invoice for the overage of construction costs from Baxter & Woodman. This amount would be for the \$10,315.06 mentioned earlier. As for

the overage indicated from BWCSI, I am not so inclined to request to cover any of those charges at this was a known risk that should have been included in the original cost. The majority of the costs to complete the out of scope work were absorbed by the CHP project. The amount requested was over and above the available funds for this project and therefor is being requested to be paid from the Capital Fund 40 reserves.

Motion the EOC to approve the out of scope work in the amount of \$10,315.06 to be invoiced to Capital Fund 40 Reserves to the B&W Boller Joint Venture for construction and installation of stormwater runoff protection for Building U.

7. Biological Phosphorus Detailed Feasibility Study

On September 23, 2015, Illinois Environmental Protection Agency (IEPA) issued a revised National Pollutant Discharge Elimination Systems (NPDES) permit to Glenbard Wastewater Authority (GWA). As expected, the permit included several requirements related to nutrient limits on phosphorus. Special Condition 17 includes requirements for GWA to submit a phosphorus feasibility study to “evaluate the timeframe, and construction and Operations & Maintenance (O&M) costs of reducing phosphorus levels in its discharge to a level consistently meeting a limit of 1 mg/L, 0.5 mg/L, and 0.1 mg/L.” The feasibility study is due by September 23, 2017. A phosphorus effluent limit of 1.0 mg/L on a monthly basis will become effective ten years after the effective date of the permit, or in 2025.

Baxter & Woodman (B&W) was awarded the NPDES Permit Assistance RFQ/RFP at the February 2016 EOC meeting, with the Danish Hydraulic Institute (DHI) as a subconsultant, to assist with NPDES compliance, including preparing the phosphorus feasibility study. While the NPDES permit timeframe affords a delay to implementing nutrient removal technology, the B&W team has demonstrated an opportunity for GWA to save money immediately by implementing a biological phosphorus removal process.

The recommended alternative represents a net present value of \$10 million over the next twenty years, with savings continuing to accumulate through the full equipment lifecycle. The B&W Technical Memorandum outlines the recommended improvements, comparing against the recommendations of previous evaluations to demonstrate the significant financial benefit and highly innovative solution proposed. The 2013 Facility Planning Report recommendations will be a significant cost to GWA over the next 20 years, as represented in the present worth analysis. The proposed project developed as part of this Phosphorus feasibility study constitutes a highly innovative and cost-saving solution for the conversion to a biological phosphorus removal process and includes major improvements to the secondary treatment process.

In order to proceed with the recommended project, a detailed feasibility study is recommended to finalize basis of design, confirm project cost, and evaluate the need for additional treatment units. This scope, which will constitute a majority of the work in the proposed Danish Grant Work Package 1, can be used toward Danish grant eligibility in

the future. However, by conducting this work as part of a separate evaluation, GWA has the ability to pull out of the project at any point.

The proposed conversion to a biological phosphorus removal process represents a net present value of over \$10 million for the Authority, compliance with forthcoming regulations, and annual savings of \$1.6 million. By implementing this solution now, rather than waiting for phosphorus effluent limits to become effective, the Authority will benefit from the energy savings and funding that are currently available. The Authority staff and the Technical Advisory Committee have provided their support for moving forward with the budgeted detailed feasibility study in order to capitalize on energy savings while also benefiting from significant grant funding and low lending rates.

Motion the EOC to waive competitive bidding for Professional Service Per Administrative Order No. 3 Section C (1a) and to award Baxter & Woodman the Detailed Biological Phosphorus Feasibility Study in the amount of \$95,000 to be invoiced to the Capital Account 40 Biological Phosphorus Removal Engineering.

8. UV System PLC Replacement – Presented by Rick Freeman

The Authority Staff would like to request waiving of competitive bidding requirements per the Village of Glen Ellyn code, 1-10-2: EXCEPTIONS TO COMPETITIVE BIDDING. Per Administrative Order No. 3 Section “D” Professional Services – Section 3 the Authority is required to seek at least three competitive proposals. The request provides support that the Authority has gathered and evaluated three competitive proposals from qualified firms.

Originally included in Iron Brook UV’s quote for refurbishment of the Ultra Violet Disinfection System approved by the EOC at the October 2016 meeting, was the cost to replace the PLC hardware and Panelview Human Machine Interface (HMI), services to be provided by subcontracted integrator Sirron Systems Incorporated of Ontario, Canada. The cost breakdown of their portion of the approval is **\$137,688.21**. After the award and prior to agreeing to the work Authority staff made a decision to seek pricing from local subcontracted systems integrators. To comply with the “Rule of Three” Authority staff sought two more competitive bids from Donohue and Associates and B&W CSI. The lowest cost for purchase and installation was provided by BW CSI in the amount of **\$105,700**. Based on the professional work previously received by BW CSI the Authority requests the EOC waive competitive bidding and award BW CSI the UV System PLC upgrade project in the not to exceed amount of \$105,700.

Motion the EOC to waive competitive bidding for Professional Service Per Administrative Order No. 3 Section “D” Professional Services – Section 3 which is an authorized exception in the purchasing policy to approve the professional purchase and installation of PLC Hardware and HMI services by BW CSI for the Not to Exceed Amount of \$105,700

9. Discussion
 - 9.1 Facilities Improvement Project Update – Presented by Matt Streicher, along with updates from GWA legal counsel Greg Dose and/or Alison Wetzel.
10. Other Business
 - 10.1 Technical Advisory Committee (TAC) recap
 - 10.2 Pending Agenda Items
11. ***Next EOC Meeting*** – The next regularly scheduled EOC Meeting is set for ***Thursday, February 9, 2017 at 7:30 a.m. at the Glenbard Facility.***