

**CITY OF MILTON, WISCONSIN  
PHOSPHORUS PRELIMINARY COMPLIANCE ALTERNATIVES PLAN  
ENGINEERING SERVICES  
WORK ORDER**

**ENGINEERS' PROJECT NO. 160770.30**

**Project Description:**

The Project consists of preparing a preliminary compliance alternatives plan by September 30, 2016 as required in the current WPDES permit. This plan will not include preliminary engineering since upgrading would not necessarily be required if trading phosphorus with the City's MS4 is feasible.

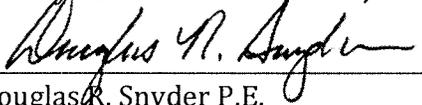
**Engineering Services:**

Provide engineering services in accordance with the City Engineering Services Agreement dated June 17, 2016. The scope of services for this Project is listed in Attachment A. Manpower requirements and a fee summary are listed in Attachment B.

**Compensation:**

Compensation for the services to be provided under this Work Order will be in accordance with the City Engineering Services Agreement dated June 17, 2016. The Owner shall pay the Engineer for the services performed or furnished under Attachment A, based upon the Engineer's standard hourly billing rates for actual work time performed plus reimbursement of out-of-pocket expenses including travel, which in total will not exceed \$7,000.

Submitted by: **Baxter & Woodman, Inc.**

By:   
Douglas R. Snyder P.E.

Title: Regional Manager

Date: July 22, 2016

Approved: **City of Milton, WI**

By: \_\_\_\_\_  
Al Hulick

Title: City Administrator

Date: \_\_\_\_\_

Attest: \_\_\_\_\_  
Elena Hilby, Clerk

**Additional Comments and Conditions:** None

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## SCOPE OF SERVICES

This Project includes the following:

1. ADMINISTRATION & MEETINGS – Confer with the City staff and project team to ensure that the goals of the Project are achieved, and to clarify and define the general scope, extent, and character of the Project. Submit a draft Preliminary Compliance Alternatives Plan to City staff for review and incorporate City's comments in final report. Two meetings are anticipated. One with City staff and one with City Council or appropriate City Committee.
2. PRELIMINARY COMPLIANCE ALTERNATIVES PLAN – Prepare a Preliminary Compliance Alternatives Plan using the format of the WDNR Phosphorus Alternatives Report Checklist including:
  - BACKGROUND INFORMATION - Provide a description of existing facilities, collection system, flows and loadings for the facility.
  - OPTIMIZATION PLAN SUMMARY - Provide a summary of the optimization plan efforts and the results of those efforts from 2013 to present.
  - TREATMENT OPTIONS - Develop potential treatment options including biological and chemical treatment, effluent filtration, groundwater discharge or regionalization.
  - WATERSHED INFORMATION – Summarize watershed information including a watershed map, locations of MS4s in the watershed and the non-point source to point source ratio for the watershed.
  - ADAPTIVE MANAGEMENT - Evaluate the feasibility of adaptive management including eligibility and needed load reductions to meet TMDL limits.
  - TRADING - Evaluate the offset needed for trading to be successful, potential trading with the City of Milton MS4 and estimated cost.

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- **FINANCIAL IMPACT OF COMPLIANCE** - Evaluate the potential cost impacts on rate payers from implementing the compliance options.
  - **OPTIONS TO CONSIDER FOR PRELIMINARY DESIGN** – Outline options to reduce effluent phosphorus that should be studied in the future if trading with the City’s MS4 is not a feasible option.

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**Manpower Requirements and Costs Summary**

<b>Task</b>	<b>Employee Class</b>	<b>Hourly Rate</b>	<b>Manhours</b>	<b>Labor Cost</b>
Engineering Report	Project Manager	\$160	34	\$5,440
	GIS Technician	\$85	8	\$680
	Administrative	\$70	8	\$560
Expenses				<u>\$320</u>
<b>Estimated Fee</b>				<b>\$7,000</b>

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