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February 1, 2007

To Whom it May Concern:

The Abington Township Waste Water Treatment Facility provides sewage treatment in the southeastern region of Montgomery County, PA. Presently, the facility must achieve a secondary level of wastewater treatment, which includes nitrification, disinfection and removal of organics and suspended solids, prior to discharging into Sandy Run Creek – a tributary of the Wissahickon Creek. Two of Philadelphia Water Department's treatment facility intakes (Queen Lane and Belmont) are just a few miles downstream of the plant's outfall. As a result, stricter discharge limits were imposed in the facility's 2005 permit renewal, which included requirements for nutrient removal within three years. More restrictive discharge limits will be included in future permit renewals.

These discharge restrictions dictated that improved process monitoring, control and performance would be required to consistently meet regulations. In 2004 the plant completed improvements to its activated sludge process that included a conventional dissolved oxygen control system and an anoxic selector zone but no dedicated means of process monitoring or nutrient removal. As an amendment to this upgrade, management elected to add the BIOS, an innovative advanced process monitoring and control system developed by BioChem Technology, Inc. The system promised immediate benefits such as improved process stability and control, reduced ammonia discharge, aeration power savings, and the potential to optimize nutrient removal in the future.

The BIOS has been operating now for over two years. Overall, it has proved reliable and has been an asset to the operation and performance of our treatment process. I would advise Waste Water Treatment Facilities that are seeking improved nitrogen removal, reduced aeration energy, and improved process stability seriously to consider this technology.

Sincerely,

A handwritten signature in black ink that reads "Robert S. Leber".

Robert S. Leber
Wastewater Utilities Director