

Bauneg Beg Lake Association Install Three Phosphorus Barriers into Brook.



Bauneg Beg Lake Association has teamed up with a Scarborough-based business, Mackworth-Enviro to install a prototype “Nutrient Removal Barrier” system to filter harmful phosphorus out of a feeder stream to the lake that has long been the source of excessive concentrations of the chemical element.



Gathered at brook that runs under RT 4 and into Bauneg Beg Lake are Mary Saltmarsh (BBLA), Anne Whitten (BBLA), Bonita Pothier (Senator King's office), Dana Peterson (BBLA) and co spearhead of this project, Andrew McCusker (Mackworth), Beth Alarcon (Mackworth), Paul Nelson (Senator Collin's office), Bob Cavicchio (BBLA). The gathering was for the ribbon cutting ceremony of the Mackworth Environmental barriers being in place.

With support from BBLA, Mackworth-Enviro designed a 3-barrier filter system aimed at removing phosphorus in the feeder stream to Bauneg Beg Lake and reducing the total that enters the lake.

The first barrier is made of coarse mesh material for retaining debris in the brook and prevent clogging of the second barrier which provides primary filtration.

Barrier 2 is made of woven and non-woven, fine-filtering materials for removing sediments, with the objective of reducing the concentration as measured by “total phosphorus”. These two barriers together are combined to perform phosphorus removal as such filter barriers have demonstrated effectiveness in prior applications and test systems.

The third barrier provides a vehicle for Mackworth development and testing of optimum materials to remove additional phosphorus by precipitating phosphorus from dissolved forms of the metal. This barrier has replaceable panels for testing several filtering materials for final polishing of phosphorus-related compounds such as dissolved phosphates.

A big **Thank You** to everyone who has volunteered, donated, and supported BBLA's fundraising efforts. Without your support this endeavor could not have taken place!

