

URI Water Reserve Project

Principle Investigators

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Introduction

The purpose of the study was to develop and implement a system for partial or complete recycle of the 100,000 gallons of water that is used daily at the URI Aquaculture Facility at East Farm in a once through process.

Methodology

One graduate student was hired to research solutions to treating and reusing the water and to develop a plan to do so. A literature search has been conducted, along with visits to the URI Aquaculture Facility.

Based on this information a preliminary treatment process was developed. A biological treatment process, developed and manufactured by Bioprocess Technologies LLD in Portsmouth RI, was identified as a potential system for treating the effluent to better prepare it for recycle . A high BOD, high solids generator, using this process in Massachusetts, was visited to better understand the process.

Principle Findings and Significance

Since the University was in the process of hiring an outside energy consulting firm to handle their energy and water conservation projects, it was suggested that the project be delayed until a firm had been selected. That selection process now has been completed and a firm will be hired starting July 1st.