Involving Student's in the City's Brownfield Opportunity Area Planning Process

Project Goals:

- Create model program for City / School District collaboration.
- Increase awareness and interest in science, technology, engineering and math (STEM).
- Align real-world projects with the Auburn Enlarged City School District mission to grow capacity and opportunity for students to get involved in STEM-related activities.
- Build long-term capacity and awareness within the residents of Auburn.

Learning Opportunities for Students:

Through class-developed projects/studios specific to the BOA study area, students will have the opportunity to directly interact with the STEM professionals, present their ideas and findings at public meetings and build capacity in the community.

BROWNFIELDS

Work with Environmental Engineers to understand how brownfield information and data is collected and interpreted to inform future land use planning.

Potential Activities:

- Guided bus tour of brownfield sites to learn about the curbside assessment process
- In-class session to discuss data gathering and how information is used in planning
- Provide literature to classroom teachers for further instruction
- Teacher-defined research project specific to brownfield assessment

ECOLOGY AND AQUATIC RIVERINE SYSTEMS

Work with Biologists to work within stream education stations to better understand water quality and overall riverine conditions.

Potential Activities:

- Set up sampling stations at four locations – mouth of outlet, upstream from the dam, downstream from the dam and in a naturalized area
- Conduct sampling in Fall and Spring (Fall session with Bergmann, Spring session through classroom instruction)
- Collect water and macro invertebrate samples
- Provide database for students to input data and run statistics over time

HYDROPOWER

Work with Water Resource engineers to conduct a preliminary feasibility assessment for hydropower at the Dunn & McCarthy site, including a review of previous hydro investigation reports and site visits.

Potential Activities:

- Site visit to working and potential hydropower station locations with Water Resource engineer
- In-classroom learning opportunities and literature distribution
- Research paper, facilitated by classroom instructor, analyzing power output for multiple locations