

# Field Trips

## October 28, 2015

9<sup>th</sup> Biennial State of  
Lake Michigan/15<sup>th</sup>  
Annual Great Lakes  
Beach Association

Joint Conference

Fostering Basin-wide  
Partnership and Synergy



### Boardman River Restoration & Dam Removal

The former site of Brown Bridge Dam is the first stop after leaving Grand Traverse Resort. Brown Bridge Dam was removed in the fall of 2012 and is the first of three dams on the Boardman River scheduled for removal as part of the largest dam removal effort in Michigan's history. Participants will hear about removal and subsequent efforts and see up close the 2.8 miles of new/relic river channel that formed after the dam was removed. The tour will then continue to Boardman Dam slated for removal in 2017. The tour will also include a stop at the Boardman River Nature Center before heading back to the Resort. To learn more, visit [www.theboardman.org](http://www.theboardman.org)



Photo by The Watershed Center Grand Traverse Bay

### Kids Creek Restoration Project Tour

Munson Medical Center (downtown Traverse City) Participants will see a variety of stream restoration and green infrastructure techniques being used to restore Kids Creek, an impaired stream in the Grand Traverse Bay Watershed. The tour begins where approximately 900 feet of creek previously contained in underground culverts was daylighted in 2013 and 72,000 square-feet of impervious surfaces was eliminated to create a new 1,200 foot meandering stream channel complete with almost 40,000 square-feet of new floodplain. From there we'll see the low impact development techniques to reduce stormwater inputs to Kids Creek at Munson's new \$45 million Cowell Family Cancer Center. A highlight of the tour will be a peek at the newly installed green roof at the Cancer Center, visible from the chemotherapy wing of the Center. From there we will tour Munson's campus, looking at other current and future green infrastructure techniques being installed to reduce stormwater impacts to Kids Creek, including underground infiltration trenches, rain gardens, pervious pavement, riparian buffers and more. Project funding so far totals over \$3.4 million from Federal and State grants, as well as local match and private funding.



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### **Platte River State Fish Hatchery Tour**

Platte River State Fish Hatchery, Beulah, Michigan

Join us for a one-of-a-kind tour of the Platte River State Fish Hatchery, which raises coho and chinook salmon and is the main egg take station for coho salmon in all of the Upper Great Lakes. Your tour will begin at the Visitor's Center at the hatchery where you will receive a brief history of why we have salmon in the Great Lakes. The hatchery tour will be guided by a fisheries biologist. You'll explore the life history of Pacific salmon and the life cycle in the hatchery. You will get to see live fish and experience what life is like at the hatchery. The adult feral brood stock will be in the river and many will be in the spawning facility where you will have the chance to participate in a mock egg take. If you ever wanted to get

an up-close experience with a salmon or just see the birthplace of Michigan's world class sport fishing industry, this is your chance.

### **ROV Demonstration at Northwestern Michigan College**

**SESSION FULL**

Northwest Michigan College campus - Great Lakes Water Studies Institute

This field trip will feature hands on training and operation of NMC's fleet of Remotely Operated Vehicles (ROV). ROV's are used widely across the globe for subsea work in support of science and industry. NMC is home to the nation's first Bachelor's of Science in Marine Technology, first Freshwater Studies degree and numerous other water based training and education programs. The ROV is used throughout these programs and is critical to performing detailed work beneath the surface of the lake when depths, environmental considerations and duration prohibit diver intervention. Several types of ROV technology will be presented including a SAAB Seaeeye Falcon, Outland 1000 and OpenROV platforms. Participants will gain first-hand experience operating the vehicles along with a basic understanding of the system operation and example missions. All operations will occur in NMC's newly constructed, 70,000 gallon indoor Marine Technology Laboratory.

