The patented Shallow Water Environmental Excavation Project (SWEEP) System is designed to remove sediment down to a depth approximately 10 feet below water level.

This system includes the following:
- Ground penetrating radar to scan and record obstacles setting on the sediment to a depth of 4 feet below the sediment surface.
- GPS system to mark the obstacles, and track/monitor/record SWEEP dredge progress and completion.
- Barge mounted excavation equipment to remove obstacles in the sediment prior to the SWEEP operation.
- Conveyors to move sediment up to 3 miles from the Excavation project
- Equipment to unload the barges.

The dredge is used to move the sediment to a final resting place on land, at the shore, or elsewhere in the body of water. The components of the system will vary depending upon the specific project. At times the sediment will be used to build islands in the body of water, requiring minimal supports for the SWEEP. The Wheel dredge technology is expected to remove 1,600 cubic yards of sediment per hour under normal operating conditions, which favorably compares to rates of 250-1000 yd³/hr (mechanical dredges) and 400-800 yd³/hr (hydraulic dredges) of other systems employed for dredging projects.

END USE/APPLICATIONS:
Water Sediment Removal