

The Upper Hudson River Dredging Project: 2013 Season

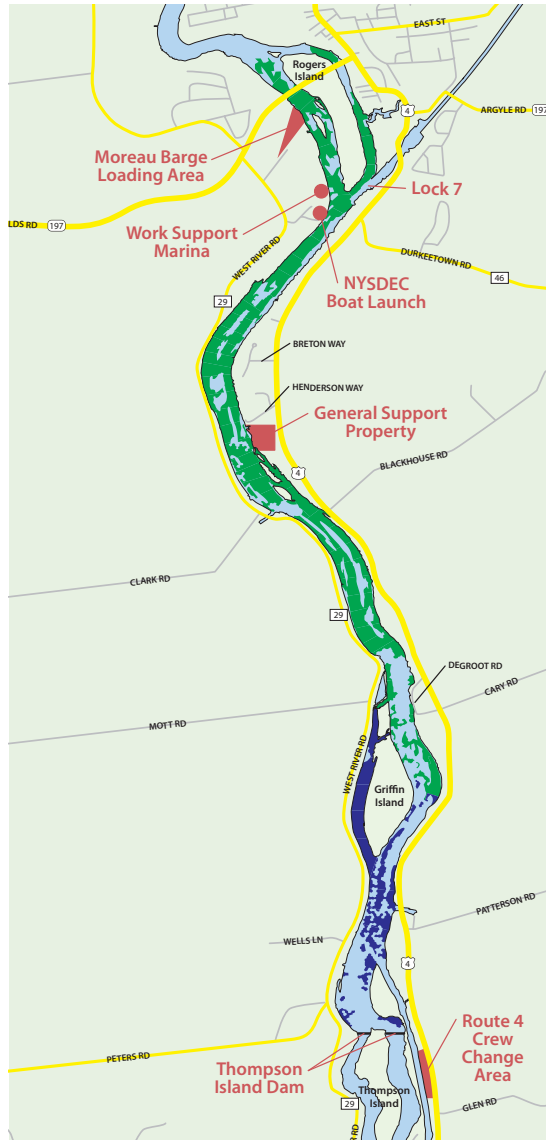


EPA Community Advisory Group
April 4, 2013



2013 Dredging

- > West Griffin Island to Thompson Island Dam
- > Between Lock 6 and Lock 5



2013 Challenges

- > 100 acres targeted for dredging
- > Dredge areas becoming more discrete
 - More movement and set up time
- > More shallow areas along shorelines making movement of equipment difficult
- > Transport barges up to 11 miles and through 2 locks to processing facility
- > Wide range of river conditions



Contracting

- > Cashman Dredging and Marine Contracting to perform dredging operations, backfilling and capping
- > Shaw Environmental and Infrastructure to operate processing facility
- > Finger Lakes Railway to operate rail yard
- > Ship to waste disposal facilities in Oklahoma, Ohio and Michigan
- > NYS Canal Corporation extension of lock operations to support project



Phase 2, Year 3

Technical Documents Drafted

- > Remedial Action Work Plan
- > Final Design Report
- > Community Health and Safety Plan
- > Remedial Action Health and Safety Plan
- > Remedial Action Monitoring Quality Assurance Project Plan



Processing Facility



2012-2013 Off-Season

- > Installed fourth water treatment train at processing facility
- > Replaced cloths on filter presses
- > Rebuilt processing facility equipment, pumps and size separation equipment
- > Rebuilt TGS buckets and one Sennebogen engine
- > Replaced trommel screens
- > Rebuilt hydrocyclones
- > Repaired conveyor belts and rollers
- > Repaired wharf barge indexing equipment

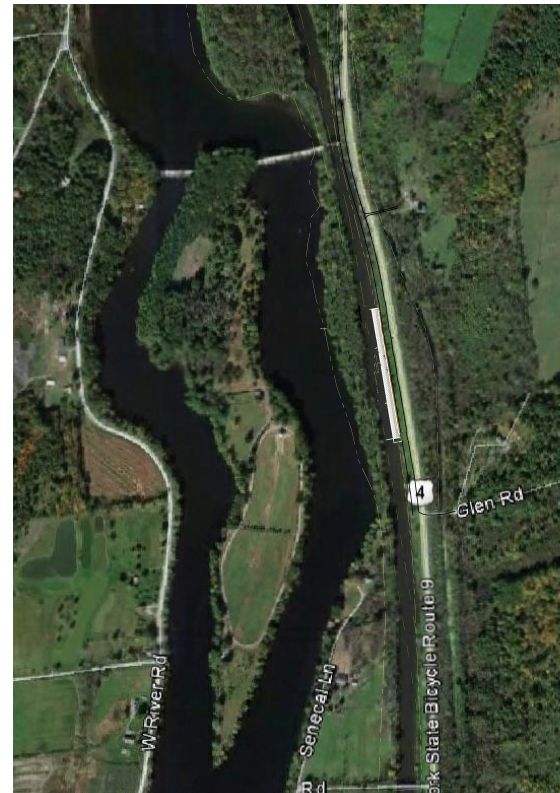


New Staging Areas

Saratoga Backfill Loading & Staging Area



Route 4 Crew Parking Area



Mobilization Activities

- > Setting up support facilities
- > Tree survey between Locks 5-6
- > Setting up dredge and backfill platforms
- > Assembling excavators and buckets
- > Setting up Vessel Traffic Service
- > Re-assembling pipes, pumps, tanks at processing facility
- > Place vessels in river



Anticipated Schedule: April

- > Install docks at work support marina and new Route 4 parking area
- > Mobilizing equipment for tree-trimming in west Griffin Island channel
- > Pre-dredge survey
- > Calibrate dredge equipment
- > Place excavators on dredge platforms
- > Delivery of backfill/cap material to barge loading facility
- > Move 17 barges to river moorings
- > Test monitoring systems and begin air and water monitoring
- > Begin placement of backfill behind Griffin Island



Anticipated Schedule: May-Summer

- > Mobilize rail yard equipment and railcars
- > Complete equipment assembly
- > Begin dredging behind Griffin Island and in the main stem of the river in CU-49
- > Begin dredging south of Lock 6 two weeks after start of dredging
- > Begin loading railcars, target three weeks after dredging



Habitat Planting

Completed to Date:

- > Completed through CU 19
- > Nearly 265,000 plants and 60 pounds of seed already planted
- > 8.4 acres of sub-aquatic vegetation
- > 2.3 acres of riverine fringing wetland

2013 Habitat Planting

- > In 2013, planting to take place in CU-20 through CU-26
 - Primarily along west shoreline
 - Targeted planting of 8 acres of SAV
- > Eight weeks of work likely
- > Plants obtained from local sources and commercial sources



Cultural Resources Investigations of 2013 Dredge Areas

- > Work performed in 2012
- > In River Assessment (Thompson Island to CU 74)
 - Identified follow-up targets — remote sensing
 - 10 targets identified for “in-field” verification (i.e. camera and diving surveys)
 - Two areas being discussed (pier and cribbing); 8 need no further evaluation
 - Continue to follow protocol for unanticipated discoveries
- > Terrestrial archaeological survey of shoreline (Thompson Island to CU 77)
 - Total of 12 areas investigated; 2 historical sites identified (Moses Kill and historic boatyard near Route 4 bridge)
 - Lock 5 investigation completed for support facility



Cultural Resources Investigations of Future Dredge Areas

- > To be performed this year
- > Archaeological studies to be performed south to CU-100
 - Terrestrial and underwater assessments
 - Remote sensing data (multi-beam, side scan sonar and magnetometer) analyzed from Schuylerville to Troy
- > Identified anomalies to be examined by underwater video and divers
- > URS Corp. to perform work, with EPA oversight



Questions

