

Dredging Project Update – December 2014



Dredging Project Update – 2014 Summary



- Volume Removed in 2014: 582,917 cubic yards
- Volume Removed to date: 2,523,839 cubic yards
- Kgs of PCBs removed in 2014: 26,375 kg
- Kgs of PCBs removed to date: 137,635 kg
- Last day of dredging was November 4th
- Backfill activities projected to be completed by December 6th



Dredging Project Update – 2014 Summary



- Capping index: 7.28% (Inventory: 0.5%)
 - Does not include bedrock, clay, and archaeological/structural offsets
- Remaining onsite stockpile: 20,000 cubic yards
- 49 TSCA (>50 ppm) trains shipped in 2014 season as of 11/26/14
- 15 Non-TSCA (<50 ppm) trains shipped in 2014 season as of 11/26/14
- About 4 trains of material remaining
- Some habitat work remaining (seeding and planting)

Next Steps: 2015



- Areas remaining (CUs) for 2015:
 - Estimated 250,000 CY
 - CU 60 East and West
 - East: just above Thompson Island Dam
 - CU 94, 95, & 96 in Lower Mechanicville Pool
 - Access challenges (eagle nest on Quack Island, CU 95)
 - Cultural resources (historic cribs, CU 96)
 - CU 99-6 & CU 99-7 in Troy Pool
 - Cultural resources (historic canal boat wreck in CU 99-7)
 - CU 64, 65, & 66 in Landlock
 - Half of CU 64 and CU 65 are remaining



Next Steps: 2015/2016



- As remaining areas are completed in 2015 (review/approval):
 - Form 1: CU Dredging Completion Approval
 - Form 2: CU Backfill/Engineered Cap Completion Approval
 - Form 3: Final CU Construction Completion Certification
 - Approval after habitat/stabilization activities



Next Steps: 2015/2016



- In 2015, habitat reconstruction of areas dredged in 2014
- In 2016, habitat reconstruction of areas dredged in 2015
- Shoreline stabilization inspections continue each year



Next Steps: Facility Decommissioning



- 2015: GE provides EPA with proposed approach for facility decommissioning
 - Includes sampling plan
 - As GE identifies equipment that is no longer needed for project activities during 2015, this equipment will be sampled, decontaminated, and demobilized from the site
- Discussions continue among GE, EPA, NYS, property owners, and municipalities regarding facility decommissioning and future use
- Decommissioning expected to begin late 2015 into 2016

Next Steps: Facility Decommissioning



- Facility decommissioning and restoration
 - Processing Facility
 - Work Support Marina
 - Route 4 Staging Area
 - Isthmus Transload Facility
 - Landlocked Barge Loading Area
 - Saratoga Barge Loading Area
 - Rensselaer Barge Loading Area
 - Crew Change Locations



Next Steps: Operations, Maintenance, and Monitoring (OM&M)



- Certification of Completion of Remedial Action
 - Sequence of steps that require GE submittal and EPA review (includes NYS and trustee review)
 - Also includes inspections
- After facility decommissioning and OM&M activities completed, Certification of Completion of the Work (similar review steps)
- Ongoing OM&M
 - OM&M for caps in Phase 1 and Phase 2 are slightly different, based on agreements

Next Steps: Operations, Maintenance, and Monitoring (OM&M)



OM&M

- Caps: year 1, year 5, and year 10 surveys, then 10-year surveys in perpetuity (for Phase 1, caps are monitored for 30 years)
 - Surveys after flood events
 - Cause of cap disturbance requires evaluation
 - Repairs if 3" of elevation loss over 4,000 sf area or 20% of cap area



Next Steps: Operations, Maintenance, and Monitoring (OM&M)



OM&M

- Habitat:
 - Benchmark evaluation phase
 - Typically five years, including year of planting
 - Observation of percent cover and species composition
 - Purpose: to monitor progress of initial plantings and natural recolonization
 - Comparison of individual areas to reference areas
 - Success Criteria phase
 - Quantitative, statistically-based evaluation
 - Habitat-specific (RFW and SAV)
 - Comparison by river reach to reference areas

Next Steps: Operations, Maintenance, and Monitoring (OM&M)



OM&M

- Others:

- Fish Monitoring



- Continue current annual program (spring and fall) for minimum 3 years after completion of remedial action followed by program evaluation
 - Fish monitoring expected to continue into the foreseeable future (consideration of remedial action objectives and fish advisories)

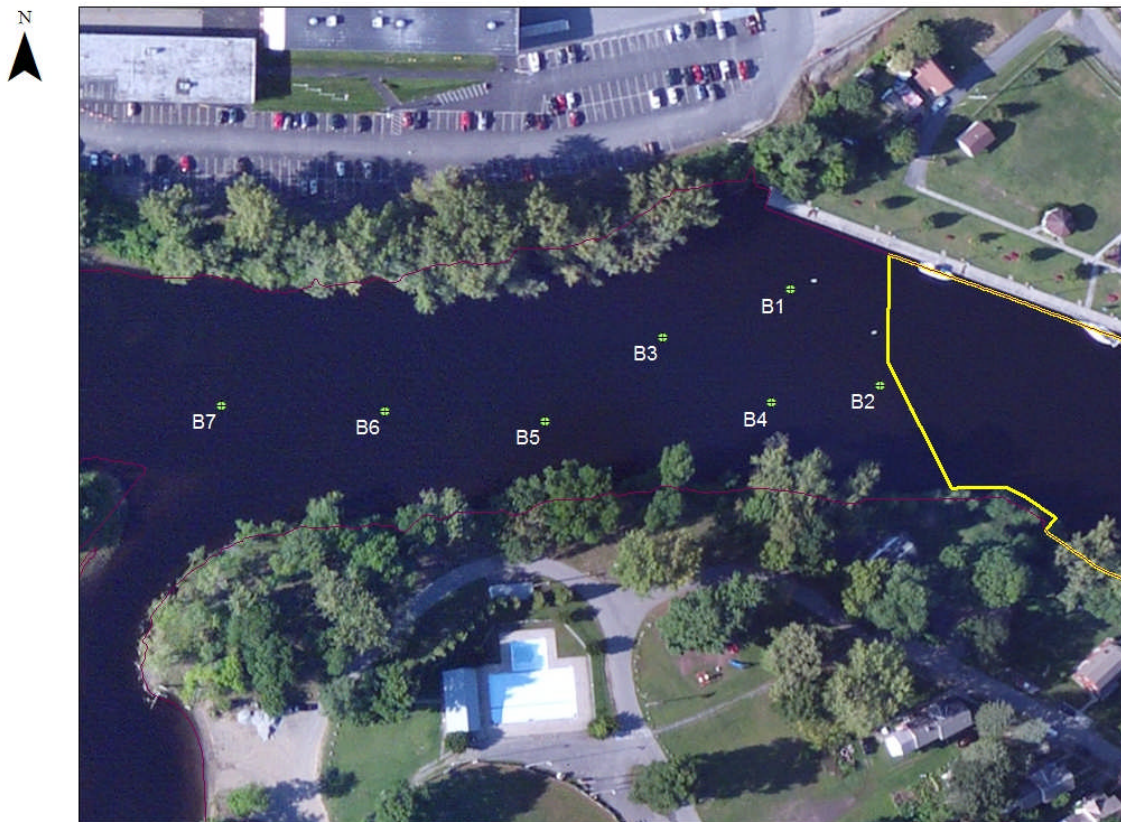
Next Steps: Operations, Maintenance, and Monitoring (OM&M)



OM&M

- Others:
 - Water Column Monitoring
 - Continue current program for minimum 3 years after completion of remedial action followed by review of monitoring program
 - Continue to evaluate PCB load to lower river
 - Continue to evaluate concentrations at baseline stations in the Upper Hudson River

CU 0



0 45 90 180 270 360 Feet

Hudson River
PCBs SUPERFUND SITE

- GE data show that 2 out of 6 samples were above the MPA criteria (3 g/m^2), but because they were individual areas, dredging was not required.
- NYSCC data show that 5 out of 7 samples were above the MPA criteria using a different sampling method

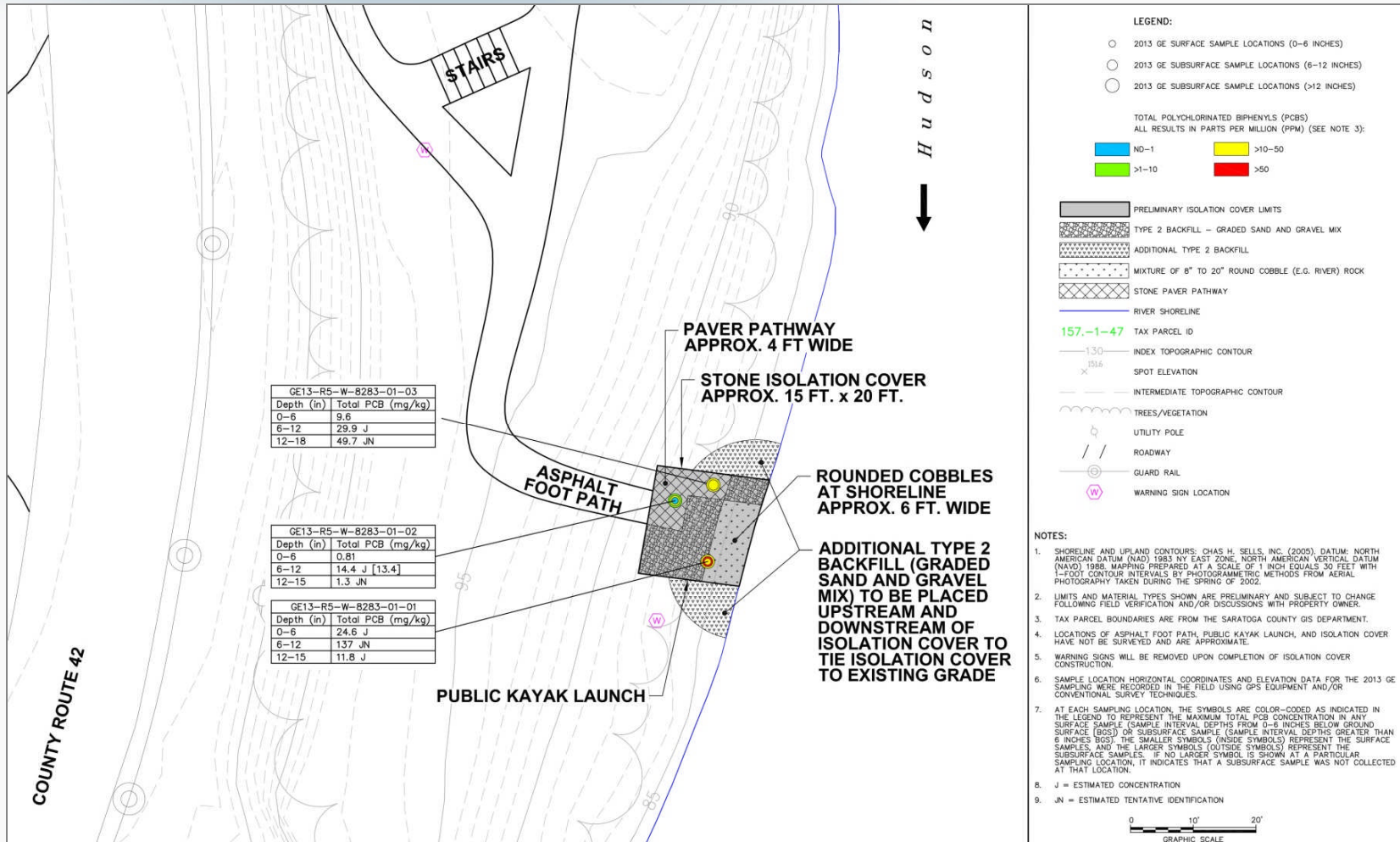
Hudson River
PCBs SUPERFUND SITE

Kayak Launch



- Elevated concentrations of PCBs identified at the Lock 5 kayak launch area
- Signage placed July 2014
- Based on site meeting in October 2014, design was prepared by GE
- EPA approved design based on consultation with Hudson River Crossing and NYS Canal Corp
- Cover installed and signage removed October 29 and 30, 2014
- GE will maintain cover until remedy is implemented

Kayak Launch Design



Kayak Launch - North



Kayak Launch - East



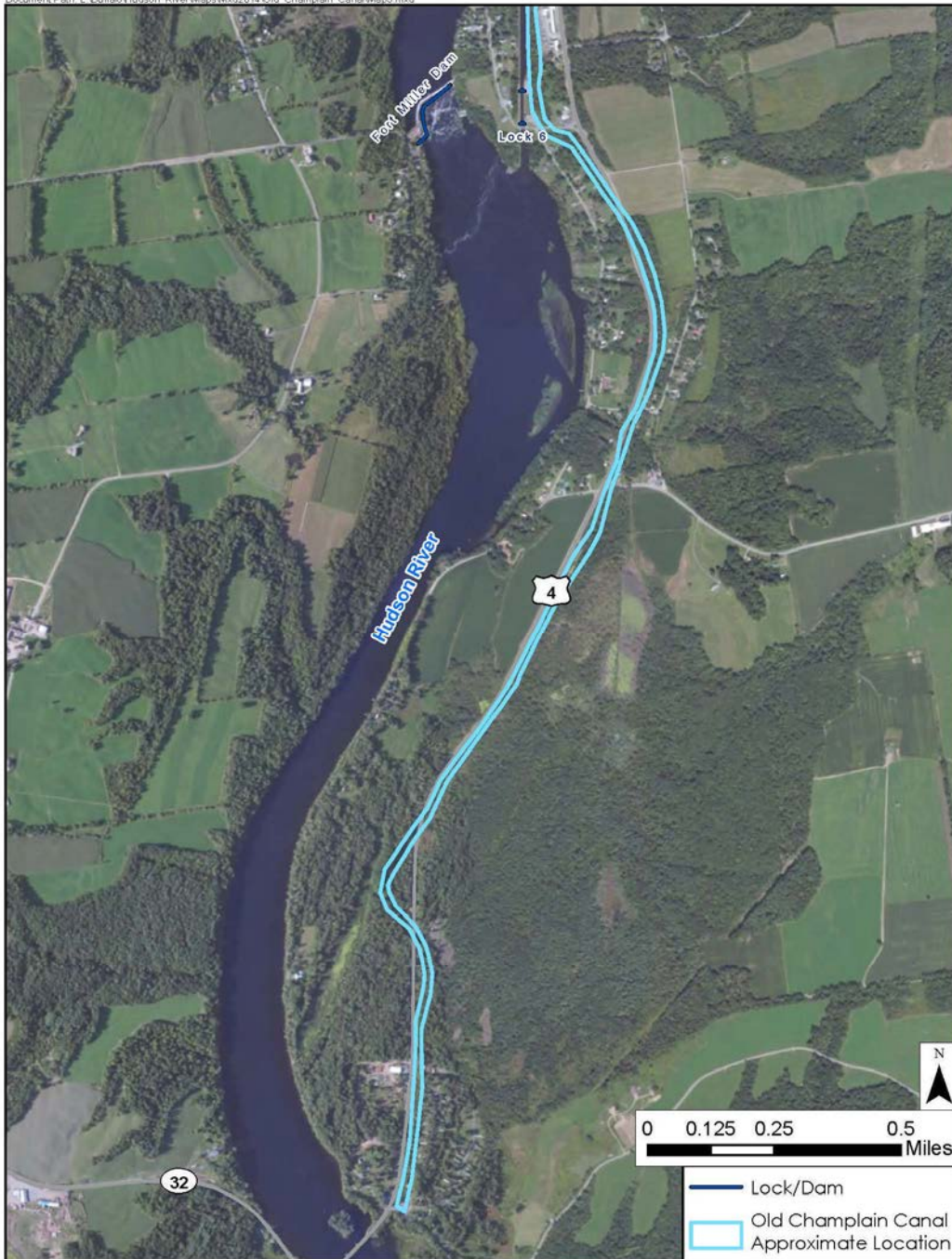
Kayak Launch - South



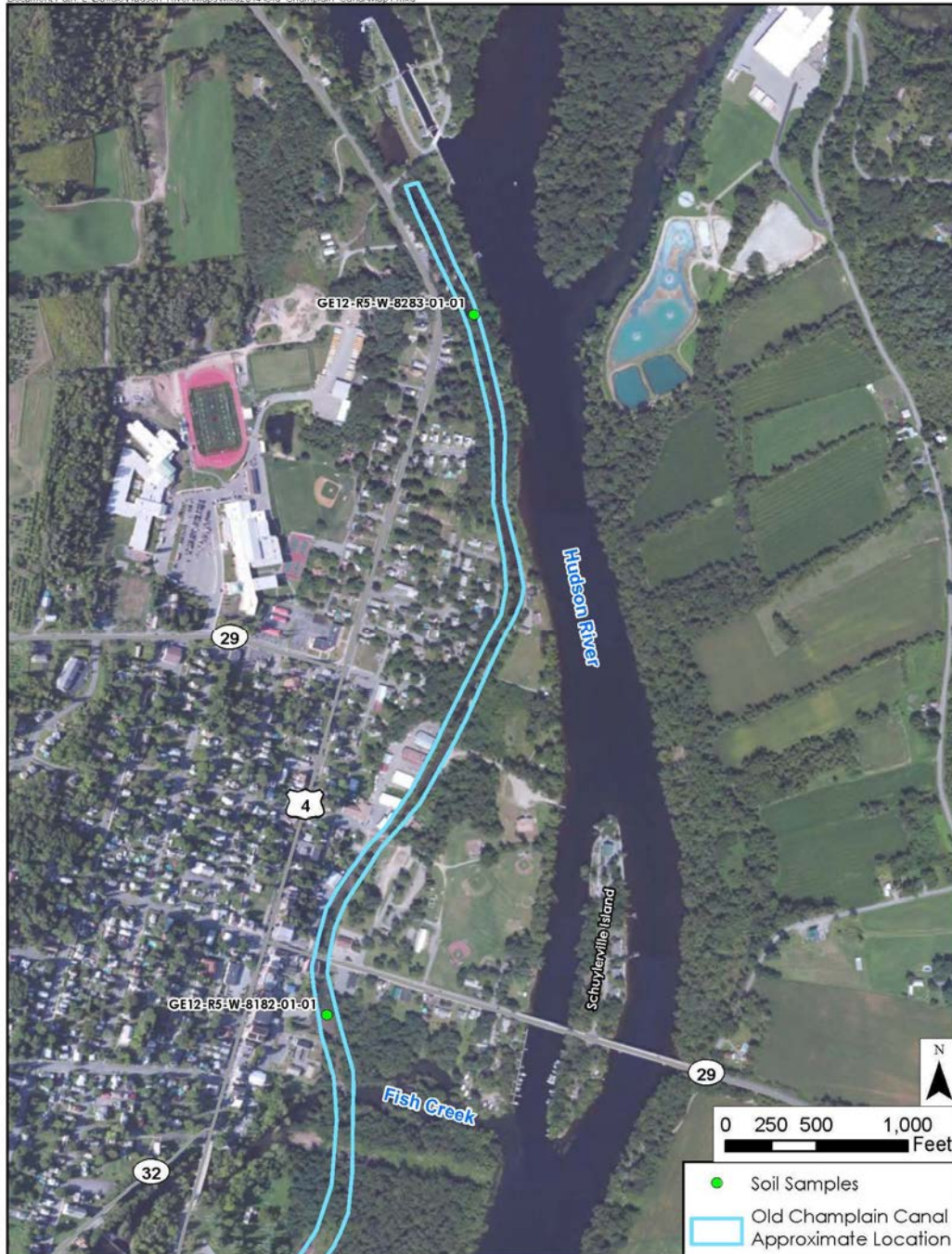
Champlain Canal Background



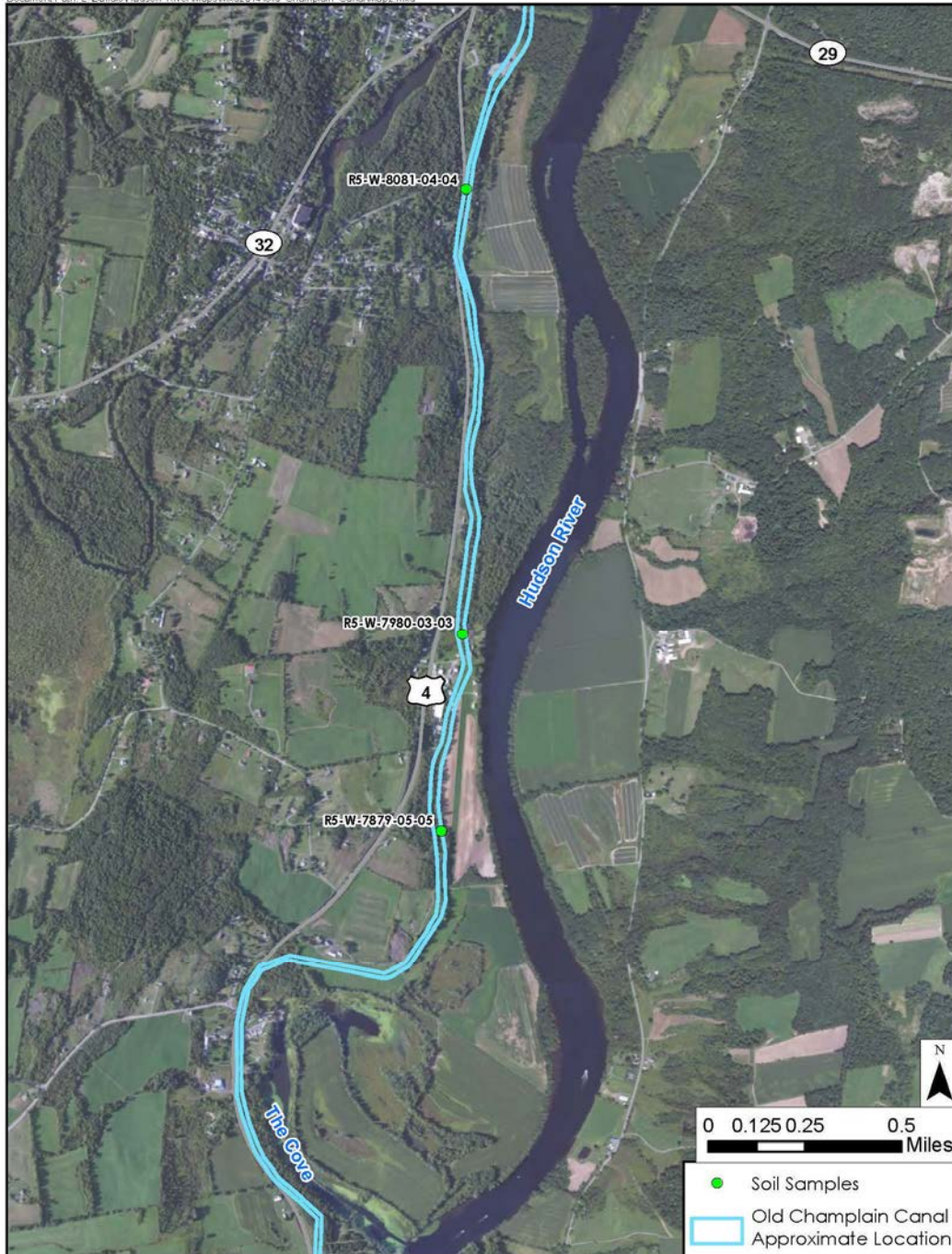
- Champlain Canal is considered a backwater area in the 2014 Floodplain Work Plan
- Canal is present in multiple locations within the project area
- Sampling will be conducted in representative areas including the bottom and shoreline
- To date, some representative samples have been collected between Lock 5 and The Cove in Schuylerville area
- GE to prepare sampling plan for EPA review



Schuylerville – Lock 6



Schuylerville Area



Schuylerville – Cove

Questions?

