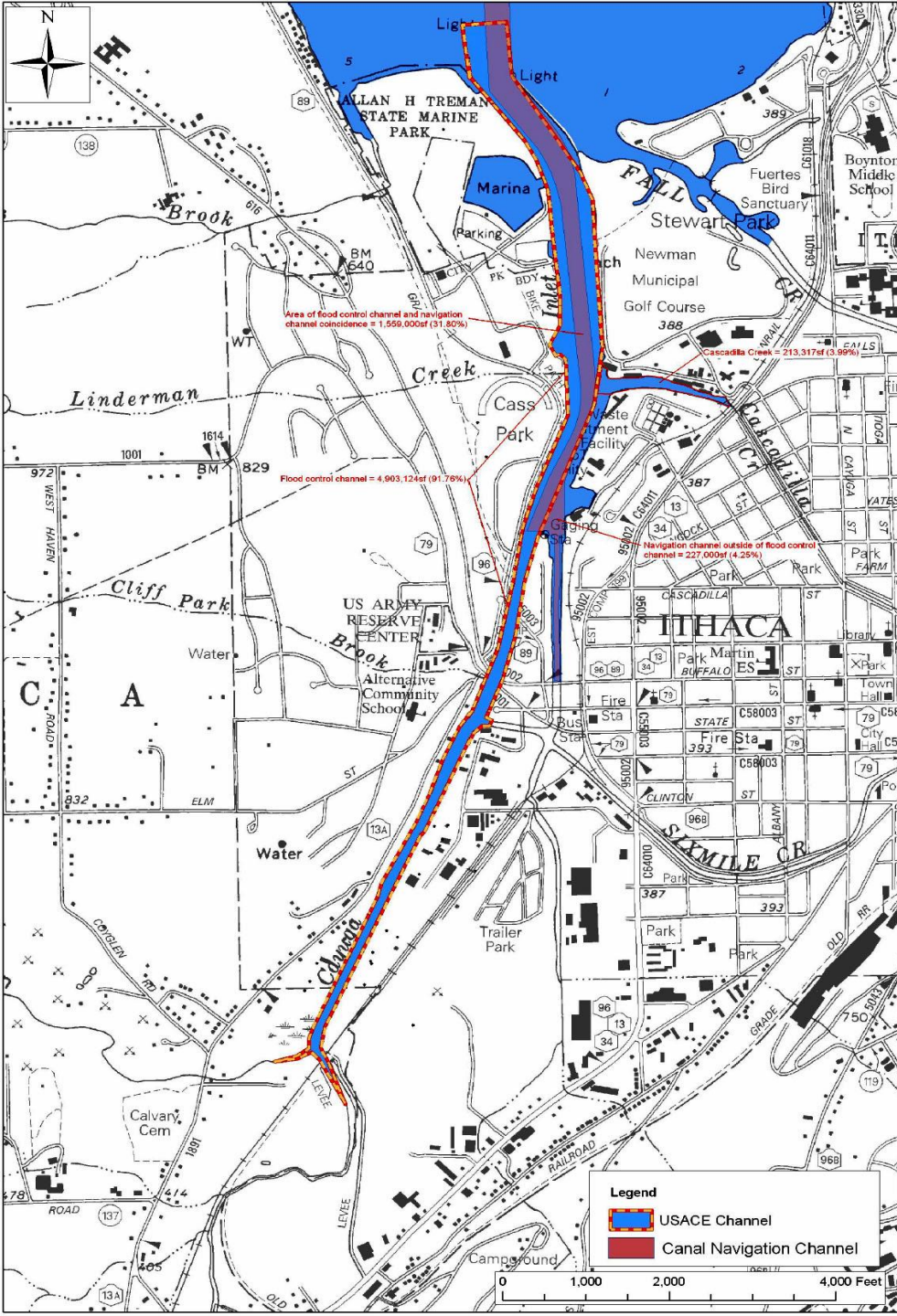


Sediment and Dredging in the Cayuga Inlet

Lisa Nicholas, Senior Planner,
City of Ithaca

December 5, 2012



Jurisdictional Responsibilities

US Army Corps of Engineers (ACOE):

Constructed the Flood Risk Management Project (1970)

Does annual inspections and issues a conditions rating

Repairs damage caused by weather events if project is active.

NYS DEC:

Responsible for maintenance of the flood control portion of the waterway, including needed maintenance dredging.

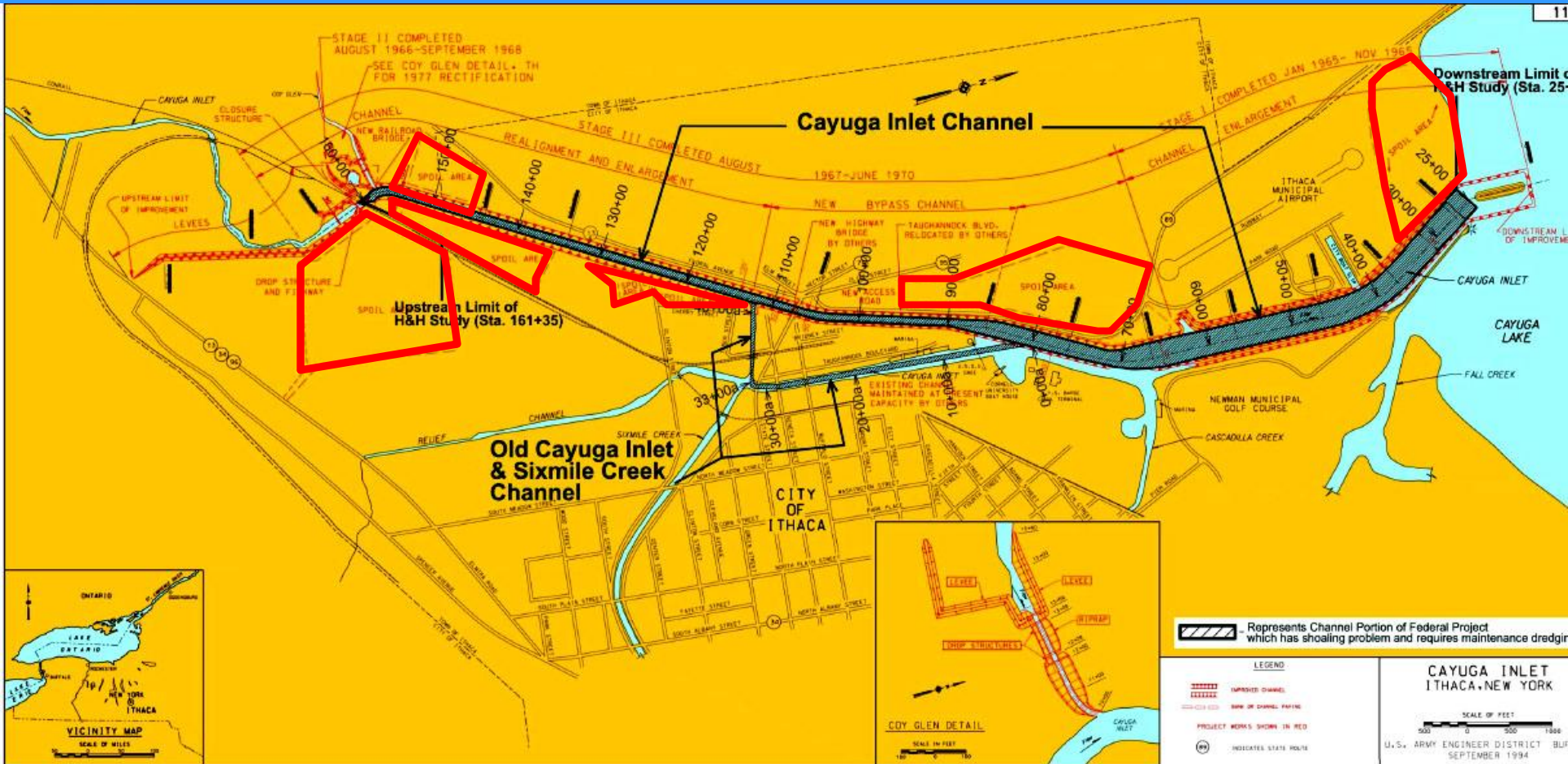
NYS Canal Corporation

Responsible for maintaining a navigation channel in the section of the inlet that was part of the Erie Canal

City of Ithaca

Responsible for 'ordinary maintenance which has included mowing, brush removal etc.

Army Corps of Engineers Project Diagram



Past Dredging:

1973: ACOE repaired damage from hurricane Agnes

1982: Thruway Authority (Canals) dredged for navigation

1997: ACOE repaired damage from winter of 1996

City Project to Site and Construct a Sediment Management Facility

2007 - 2012

Grant Funded (Environmental Protection Fund)

Site Constraints:

- Size
- Land Use
- Distance
- Ownership
- Regulatory issues

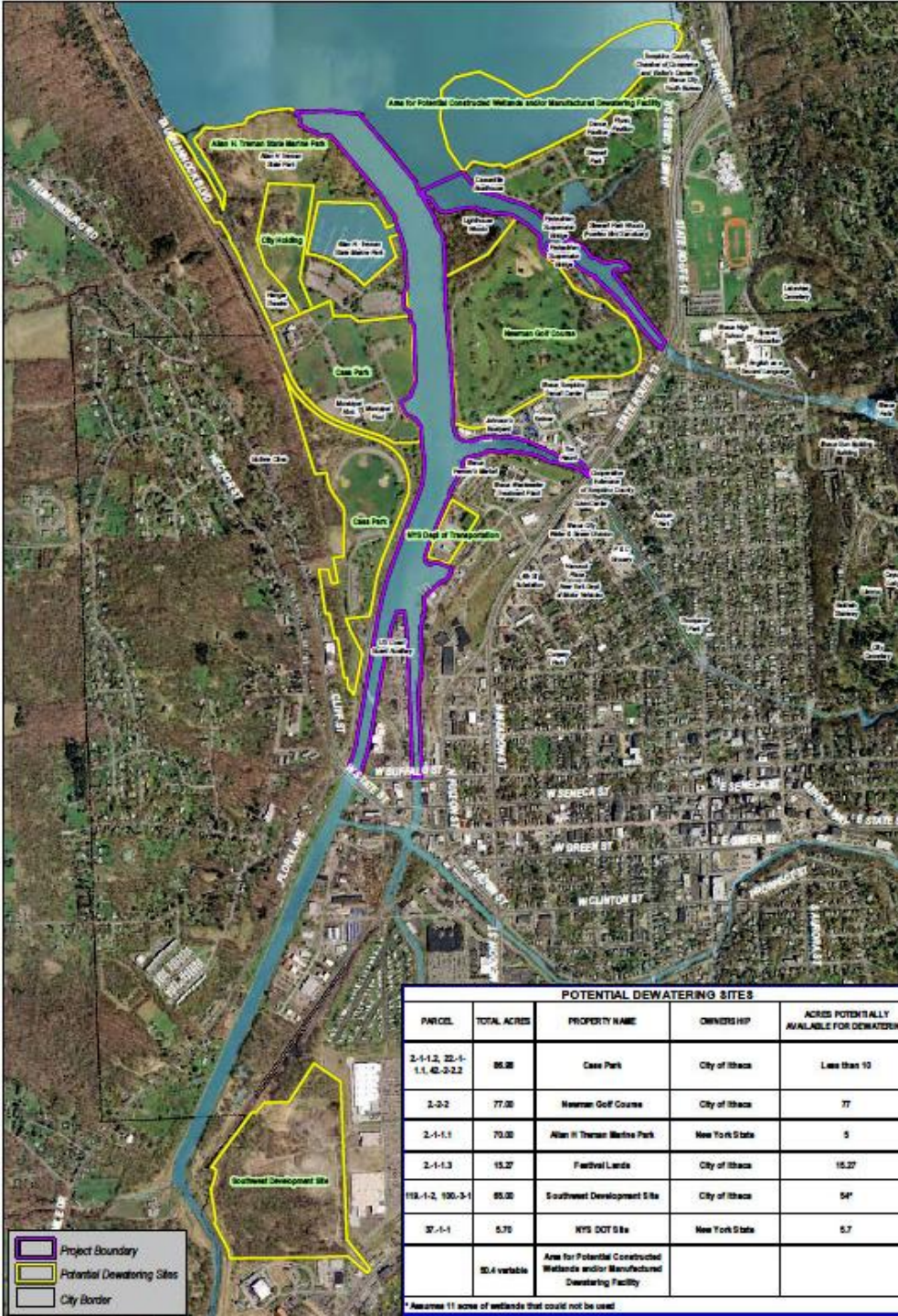
Worked with all Three Agencies & Local Stakeholders

Selected Southwest Parcel

Completed EIS in Early 2012

Received 2 Million Dollar State Allocation for Dredging Project

Currently on Hold Pending State Restoration Project



POTENTIAL DEWATERING SITES				
PARCEL	TOTAL ACRES	PROPERTY NAME	OWNERSHIP	ACRES POTENTIALLY AVAILABLE FOR DEWATERING
2-1-1.2, 22-1-1.1, 42-3-2.2	86.28	Case Park	City of Ithaca	Less than 10
2-3-2	77.20	Neuman Golf Course	City of Ithaca	77
2-1-1.1	73.00	Allen H. Therman Marine Park	New York State	5
2-1-1.3	15.27	Festival Lands	City of Ithaca	15.27
118-1-2, 130-3-1	83.20	Southwest Development Site	City of Ithaca	54*
37-1-1	5.70	NYS DOT Site	New York State	5.7
	30.4 variable	Area for Potential Constructed Wetlands and/or Manufactured Dewatering Facility		

* Assumes 11 acres of wetlands that could not be used

Project Boundary
 Potential Dewatering Sites
 City Border

Why is Dredging Needed?

USACOE: FRMP was designed to contain a 100 year+ storm event. Extensive shoaling has decreased its capacity. The channel should be returned to its original design dimensions. (Inspection, bathymetry, H&H Analysis)

NYS Canal Corporation: extensive shoaling has created impediments to recreational boating. (bathymetry, complaints)

NYS DEC: Increased risk of flooding due to diminished capacity. Must return the project to 'active' status. (2011 ACOE Periodic Inspection)

City of Ithaca & Community Members: Flood protection, recreational boating, the economic, recreational, aesthetic value depends on a fully functioning waterway. (all of the above, plus public complaints, economic evaluation)

Also: Potential Method to Eradicate Hydrilla

How much sediment needs to be removed to achieve these goals?

Current State Restoration Project

ACOE relegated project to “Inactive” status in 2011 – DEC Must Restore

Governor Allocates 13 Million to Address Flood Control Issues in Ithaca-
Through the NY Works Program

DEC Hires O’Brien & Gere to Develop a Recommended Course of Action

Hydrilla Management Heavily Considered

Timeline: Recommendation by Jan 31, 2013

Begin Dredging in Fall 2013

3-5 year project

Removal of 663,000 CY of Sediment