

Wednesday, November 10, 2021 Project Initial Scoping Meeting Task #1

Intermunicipal Watershed Management Program

Component of the Local Waterfront Revitalization Program

An Office of New York Department of State

November 10, 2021

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- Introduction: Watershed Plan Overview
 - Watershed Advisory Committee & Consultants
 - Watershed Vision, Goal, and Characterization
 - Watershed Management Recommendations
 - Implementation Strategy
 - Monitoring and Tracking
 - Public involvement in vision, characterization, projects & actions, plan review
- Contract Elements:
 - Biological Study
 - Monitoring Protocol
 - Watershed Plan



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NYS DOS Watershed Planning Framework

Wednesday, November 10, 2021 Watershed Plan Overview **Project Initial Scoping Meeting**

WAC & Consultants

- Task 2 & 7 WAC meetings **
- Task 6 Outreach/Participation Plan & * Implementation
- Task 8, 9, 11, & 12 Initial Watershed ** Vision, Goal, Characterization, and Abilities for Best Management Practices (BMP) Implementation
 - □ Assess waterbodies & resources in the watershed and describe
 - Assess ability of local laws and programs to implement BMPs for water quality (WQ) protection and describe
 - Draft Watershed Characterization Report produced with maps and graphics

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Task #1

Watershed Plan Overview

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WAC & Consultants

- Task 2 & 7 WAC meetings
- Task 6 Outreach/Participation Plan & Implementation
- Task 8, 9, 11, & 12 Initial Watershed Vision, Goal, Characterization, and Abilities for BMP Implementation
 - □ Assess waterbodies & resources in the watershed and describe
 - Assess ability of local laws and programs to implement BMPs for WQ protection and describe
 - Draft Watershed Characterization Report produced with maps and graphics

Public Implementation

✤ Task 13 – 1st Public Meeting





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Watershed Plan Overview

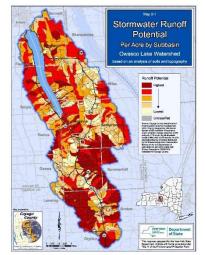
Public Implementation

✤ Task 13 – 1st Public Meeting

- Include public involvement in review and discussion of:
 - Watershed and waterbody characterization for identifying pollution issues
 - ✓ Shape goals, objectives, and vision of the plan
 - ✓ Water quality
 - ✓ Watershed protection and restoration issues

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Above: Grasse River watershed highlighted in pink.

Table 2-1. Land Cover Statistics for the Nine Major Subwatersheds to Owasco Lake (Source: NRCS 2011)

Land Use/Cover	Fore	Forested D		Developed Cultiva		ated Crop Hay/Pastu		Pasture	Wetlands/Water		Scrub/Shrub		Total	
	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percent	Acres	Percen
INLET-Main Stem	984	40%	93	4%	361	15%	482	20%	257	11%	272	11%	2,448	100%
INLET-Headwaters	1,397	36%	227	6%	531	14%	1,237	32%	223	6%	304	8%	3,918	100%
DIRECT DRAINAGE	603	18%	199	6%	1,149	33%	1,088	32%	162	5%	242	7%	3,442	100%
MILL	1,384	43%	148	5%	514	16%	792	25%	110	3%	242	8%	3,189	100%
VENESS	14	6%	6	3%	79	36%	98	44%	17	8%	7	3%	222	100%
SUCKER	82	8%	48	5%	352	35%	348	34%	165	16%	24	2%	1,019	100%
FILLMORE	438	64%	13	2%	28	4%	142	21%	17	2%	45	7%	683	100%
DUTCH HOLLOW	680	22%	142	5%	1,085	35%	891	29%	117	4%	167	5%	3,082	100%
HEMLOCK	499	26%	64	3%	497	26%	557	29%	184	10%	106	6%	1,907	100%
WATERSHED-WIDE	6,080	31%	940	5%	4,596	23%	5,636	28%	1,252	6%	1,406	7%	19,910	100%

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WAC & Consultants continued

- Task 14 Refinement of Watershed Vision and Goals per public input
- Task 15 Finalize Draft Watershed Characterization Report per public input
- Task 16 Watershed Management Recommendations
 - □ Identify management strategies and recommendations, and describe
 - Prioritize identified restoration and protection projects, and describe
 - □ Maps, graphics, and other visuals developed
 - Combine into a draft Watershed Management Recommendation Report



Stewards inspect boats and educate boaters throughout the Adirondacks, helping to prevent the spread of invasive species. Photo source: Adirondack Explorer



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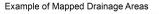
WAC & Consultants continued

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Public Involvement continued

Task 17 – 2nd
 Public
 Meeting









Watershed Plan Overview Project

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Public Involvement continued

Task 17 – 2nd Public Meeting

- Include public involvement in review and discussion of:
 - ✓ Watershed management recommendations and prioritization projects
 - ✓ Finalized Draft Watershed Characterization Report & draft Watershed Management Recommendation Report.
- Include public review of biological study** and input on monitoring pilot*

NOTE: Public comments are obtained, and a written summary should be provided to DOS from this meeting

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WAC & Consultants continued

Watershed Plan Overview

- Task 18 Refinement and Finalization of Draft Watershed Management Recommendation Report per public input
- Task 19 Implementation strategy and schedule of identified watershed management practices, approaches, projects, and action
- Task 20 Draft tracking and monitoring plan for the watershed
- Task 21 Draft Watershed Management Plan, including all maps and graphics

Management Recommendation	Goal	Target	Project Leader*	Potential	Potential	Implementation Timing		
		Sub- watershed	& other involved organizations	Funding Sources	Cost†	1 year	2-5 years	5 + years
Build capacity of watershed organization and coordinator	1, 2, 4, 5	All	Watershed Task Force* SWCD, County Planning Dept., Town A, Town B	NYS DOS, NYS DEC, EPA	\$15,000	х		
Adopt local laws for environmental protection	10, 13, 14	All	Town A*, Town B*, NYSDOS, Regional Planning Council	NYS DOS	\$20,000- \$60,000	х		
Implement priority stream restoration	7, 10	A, C, E	Watershed Task Force*, NYS DEC, SWCD, Town B,	NYS DEC; Hudson River Estuary Program	\$260,000		x	
Install priority stormwater retrofit	11, 12	B, D, E	SWCD*, Watershed Task Force, Town A, NYS DOS, NYS DEC	NYS DEC; NYS DOS; NYS DOT	\$350,000		x	
Illicit discharge detection and elimination	11	C, E, F	Watershed Task Force*, Town B, County DOH	NYS DEC, NYS DOH, EPA	\$7,200	x		
Monitoring and project tracking	2,	All	Watershed Task Force*, NYS DEC, USGS			х	х	х



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Watershed Plan Overview

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WAC & Consultants continued

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		Objective	Locations	Parameters	Frequency	Metrics
		Assess annual external loads from major streams	Owasco Inlet Dutch Hollow Brook	Total phosphorus Soluble reactive phosphorus Total dissolved phosphorus Total nitrogen Suspended sediment Discharge	Annual: March- November, strive to sample during high flow conditions	Annual load (calculated using FLUX) Annual flow-weighted average concentration
Table 5.3 Farth	s to Measure Progre	Provide data to calibrate and verify loading model for completing Nine Elemente Plan ss toward Plan Recomme	Multiple locations representing data gaps and under- represented land use nations	Total phosphorus Soluble reactive phosphorus Total dissolved phosphorus Total nitrogen Succounded sediment		Per model requirements
Objective	Measured By	s toward Plan Acconnic	noutons	ertebrate	One event every	Family biotic index
Improve the capacity of local		alities with sediment and	erosion control local law	y (counts and	3 to 5 years for each stream,	(FBI), Percent mode affinity (PMA), Percent of dominan
government to reduce nonpoint	0	personnel attending env			during low flow	
sources of pollution	Number of municip	al Departments of Public on control best practices		conditions, target late July through early	family, Taxa richness, and Ephemeroptera- Plecoptera-	
Improve outreach and education on Owasco Lake watershed issues	Number of press re	leases regarding the Owa	sco Lake watershed		Sept.	Trichoptera (EPT) index.
	Number of contact	s with educational institut	ions	phorus	Before and after improvements	Flow-weighted
	Attendance at annu	al Lake Day events		active phosphorus		average
	Visits to related we	b pages		elved phosphorus gen		concentration
Expand recreational access and use	Number of canoe a	nd kayak rentals		d sediment		
	Attendance at local	parks		of concern: for	Baseline, then in	Load of pollutants of
	Number of beach c	losures		or concern. for	response to specific hypotheses regarding effectiveness of control actions	concern over critical period (March-June)
	Number of boat lau	inches		phorus		
Prevent introductions of invasive	Labor hours of boa	launch stewards		d sediment		
species	Number of vessel in	spections completed				
Develop enduring partnerships and collaborations	Number of municip Council	alities participating in the	Owasco Lake Watershee	1		
	Land area under co	nservation easement or o				
Acquire funds from multiple sources to	Number of grant ap	plications submitted				
support remedial measures	Total amount of no	n-municipal/non-County	unds received			
	Number of volunta	ry contributions received				
Identify and reduce adverse water quality impacts from agricultural		hich agricultural BMPs are Ps, or number of BMPs.	implemented, number	of		
operations	Reduction in CAFO	violations cited by NYSDE	C and WIP			
	Reduction in NYSDI	C citations for runoff from	n farms			
Rules and Regulations of the Owasco Lake Watershed and the Cayuga County Sanitary Code are being enforced.		ons, number of violations ections through the Cayu				
	Number of violation corrections through	ns, number of violation no the WIP.	tices and number of			
Improve public perception of lake	Periodic surveys of	public opinion				
conditions	Number of people :	attending meetings that a	re onen to the public			

Public Involvement continued

Task 22 – 3rd Public Meeting *

> Include public involvement in review and comment on the **Draft Watershed** Management Plan post-DOS comments

Include public comment of monitoring pilot,* including stand alone protocol

NOTE: Public comments are obtained, and a written summary should be provided to DOS from this meeting



Contract Elements: Final Products

- 1. Final Watershed Management Plan incorporating public input (Task 23)
- 2. Watershed Monitoring Protocol and Pilot* incorporating public input (Task 24)
 - Finalize after public and DOS comments
- 3. Biological Study** (Task 10)
 - Finalize after WAC, public and DOS comments

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Source: https://www.dec.ny.gov/chemical/23847.html



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Contracting Requirements:

- □ Semi-Annual Status Reports (Task 26)
- □ Payment Requests See contract
- □ MWBE Reporting (Task 25)
- Project Tracking throughout the contract
- □ Deliverables/ Products (See Tasks "Products")
- Communication with DOS throughout contract
- Project Closeout (Task 27, 26, 25, Payment Request, all products)



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Watershed Management Plan (WMP) Examples

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Owasco WMP

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2 702 1 2 2 3	10000	Target Sub-	Project Leader* &	Potential & Existing	Potential	Priority	Implementation Timing		
Specific Recommendations	Goal	Watershed or Critical Area	Potential Partners	Funding Sources	Cost +		1 Yr	2-5 Yrs	5+ Yrs
Regulatory and Programmatic Actions									
B-3-a. Assist watershed municipalities in amending local laws to control nonpoint source pollution.	2,5	Municipalities with lake shoreline and/or major tributaries	*CCPED, WIP, OLWMC	Department and agency budgets	\$\$\$	HIGH		x	-
B-3-b. Continue to offer training to municipalities on issues that can be addressed through local codes.	2, 5	Municipalities with lake shoreline and/or major tributaries	*CCPED, WIP	Department and agency budgets	\$\$\$	HIGH	x		8
B-3-c. Seek funds to assist municipalities with updates to local regulations.	5	Municipalities with lake shoreline and/or major tributaries	*CCPED, WIP	NYSDOS, CNYRPDB	\$\$\$	HIGH		x	
B-3-d. Advocate that municipalities incorporate projections of climate change.	5, 9	Municipalities with lake shoreline and/or major tributaries	*CCPED, CNYRPDB, WIP, CCE, OLWMC	Department and agency budgets; CNYRPDB resources	\$-\$\$	MED	1	x	0

Recommendation B-3: Adopt or Amend Local Regulations Designed to Reduce Nonpoint Source Pollution from Developed Areas

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Upper Hudson WMP

HUC-10 Subwatershed	Waterbody	Municipality	Uses Impacted	Types of Pollutant	Source of Pollutant	Classification
Anthony Kill – Hudson River	Upper Hudson, main stem	Glens Falls to Schuylerville	Fish consumption	PCBs, pathogens	Contaminated sediment, municipal	Impaired
Anthony Kill – Hudson River	Upper Hudson, main stem	Schuylerville to Riverside	Fish consumption, public bathing	PCBs, pathogens	Contaminated sediment, municipal	Impaired
Anthony Kill – Hudson River	Upper Hudson, main stem	Riverside to Mechanicville	Fish consumption, public bathing	PCBs, pathogens	Contaminated sediment, municipal	Impaired
Anthony Kill – Hudson River	Upper Hudson, main stem	Mechanicville to Troy Dam	Fish consumption, watersupply, public bathing	PCBs, pathogens	Contaminated sediment, municipal, industrial discharge	Impaired
Lower Schroon River	Brant Lake	Town of Horicon	Watersupply	Other pollutants	Other sources	Threate ned (possible)
Upper Schroon River	Schroon Lake	Towns of Chester and Horicon	Fish consumption, Recreation	Metals (mercury), Silt/Sediment	Atmospheric Deposition, Urban/Storm Runoff, Streambank Erosion, Road Bank Erosion, De-Icing Activities	Impaired

Table 2. List of Waterbodies, Impacted Uses, Types of Pollutants and Sources

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Capital Region Supervisor: Lisa Vasilakos | Lisa.Vasilakos@dos.ny.gov

Resources:

- Water Resources Management
 Water Resources Management | Department of State (ny.gov)
- Model Local Laws to Increase Resilience
 <u>Model Local Laws to Increase Resilience | Department of State (ny.gov)</u>

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