# **Chaumont Bay**

# SLELO-PRISM Water Chestnut & Hydrilla Surveillance 2012

July 3, 5, 6 & 10 (Water Chestut); August 9 & 13 (Hydrilla), 2012



Figure 1: Panoramic view of Chaumont Bay looking west, taken from near Sawmill Bay, July 5, 2012. Photo by Mike McHale.

Report drafted by Greg Chapman and Mike McHale, 7/11/12. Updated 8/22/12.

### **Introduction and Background**

Chaumont Bay is a large bay on the northeastern shore of Lake Ontario, west of the village of Chaumont and east of Point Peninsula in western Jefferson County, New York. The large, sheltered bay is a popular fishing, sailing and vacationing destination, and much of the shoreline is developed with camps, cottages and several marinas. Within the larger Chaumont Bay area are several smaller named bays, including Three Mile Bay, Sawmill Bay, Long Bay and Guffin Bay.

Public access is available from several locations along the bay's perimeter. The New York State Office of Parks, Recreation and Historic Preservation (NYSOPRHP) operates Long Point State Park on Long Point Peninsula, which provides a bay-side concrete boat ramp as well as fishing and shoreline use access. NYSOPRHP also owns and maintains a concrete boat launch at a site off Route 12-E north of the village of Chaumont that provides access near Sawmill Bay.





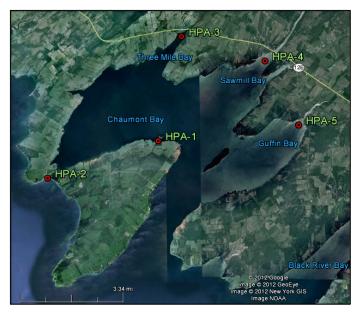
Lake Ontario region.

Figure 2: Location of Chaumont Bay within the eastern Figure 3: Map of Chaumont Bay and surrounding area.

The NYS Department of Environmental Conservation (NYSDEC) operates two boat launches on or near Chaumont Bay. A concrete boat launch providing access to Lake Ontario is located at the former Golden's Marina site off County Route 57 as it approaches Point Peninsula; a second concrete ramp provides access to Three Mile Bay and is located in the hamlet of Three Mile Bay along Route 12-E.

#### **Targeted Locations**

Due to the large area encompassed by Chaumont Bay, five Highly Probably Areas were identified to focus survey efforts. These included not only boat launch locations, but quiet eastern areas of individual bays within Chaumont Bay where species arriving from the larger Lake Ontario area could readily establish.



**Figure 4:** Map showing the locations of the five Chaumont Bay HPAs.

**HPA-1:** Long Point State Park. Survey area included the perimeter of the small bay adjacent to the concrete boat ramp.

**HPA-2:** The NYSDEC's former Golden's Marina Boat Launch. Visual survey conducted from shore of immediate area surrounding boat launch and nearby rock berm adjacent to County Route 57.

**HPA-3:** Three Mile Bay. Survey area included perimeter of the bay and area surrounding the NYSDEC Boat Launch.

**HPA-4:** Chaumont/Sawmill Bay. Survey area included perimeter of both bays and area near the NYSOPRHP Boat Launch.

**HPA-5:** Guffin Bay. Survey area focused on quiet channel at the eastern end of the bay.

### **Survey Methods and Objectives**

A survey targeting Water Chestnut (*Trapa natans*) and other aquatic and riparian invasive species<sup>2</sup> was undertaken by SLELO-PRISM seasonal employees Mike McHale and Greg Chapman on July 3, 5, & 6, 2012.

A subsequent survey targeting Hydrilla (*Hydrilla verticillata*) was undertaken by SLELO-PRISM seasonal employees Mike McHale and Greg Chapman on August 9 & 13, 2012.

Additional data detailing submerged aquatic vegetation was collected via rake toss near boat launch locations and within quiet bays. For each rake toss location, a weighted rake was thrown twice, once from each side of the canoe. Submerged aquatic vegetation collected on the end of

<sup>1</sup> See Appendix 1 for HPA assignment protocols.

<sup>2</sup> For a list of targeted species, see the SLELO-PRISM 2012–2016 Strategic Plan, pp. 36 – 37.

the rake was then analyzed from each toss, and the total number of species present was recorded,

as well as the number and identification of all invasive species present.

Invasive species occurrences were recorded using the iMapInvasives Observation Field Form and reported to the iMapInvasives database. A Garmin hand-held GPS unit was used to record invasive species occurrence coordinates, locations of rake tosses as well as tracking the route taken during the survey.

### **Observations**

During the course of the survey, early detection of a Water Chestnut infestation was accomplished within HPA-5, specifically within Guffin Bay's inlet channel. Although Water Chestnut plants were observed within an



**Figure 5:** Water Chestnut observed growing near the outlet of a stream feeding into eastern Guffin Bay, July 5, 2012. This occurrence is the largest patch seen growing at that location. Photo by Mike McHale.

approximately 20-acre area, occurrences were dispersed and mainly consisted of clusters containing less than 10 plants, with an estimated total of less than 200 plants (See Figure 7 on the following page for a density map of the affected area). A rapid response action was coordinated to removes these plants; see the Rapid Response Actions section below.



**Figure 6:** A small patch of Swallowwort removed from a rock berm near HPA-2 on July 3, 2012. Photo by Greg Chapman.

Swallow-wort (*Cynanchum* spp.) was additionally detected at HPA-2 (the former Golden's Marina NYSDEC Boat Launch) and along the nearby rock berm on County Route 57. The four small occurrences of Swallow-wort along the rock berm were removed upon detection by hand-digging; a somewhat larger population growing within the boat launch property was mapped and recorded. This information will be shared with the NYSDEC, who are planning to improve this property later this year.

Eurasian Water-Milfoil (*Myriophyllum spicatum*) was commonly seen growing in shallow places throughout the area surveyed, and was commonly observed during rake toss analysis. Zebra/Quagga Mussels (*Dreissena* spp.) were also occasionally encountered attached to submerged vegetation brought to the surface during the course of some rake tosses, and their shells were frequently seen along the shoreline and on the lake's bottom.

No Hydrilla occurrences were detected during the second rake toss survey conducted on August 9 & 13, 2012.

#### **Rapid Response Actions**

A Rapid Response Event targeting the emerging Water Chestnut population in eastern Guffin Bay was planned and executed on July 10, 2012. One-time parking and launch permission was

obtained from the owner of Guffin Bay Resort & Marina on nearby Point Salubrious (along

County Route 125); this significantly cut down on travel time that would have been necessary if the crew had launched from the NYSOPRHP Boat Launch near the village of Chaumont (the nearest public access).

To ensure adequate coverage of the widely-dispersed population and quick response time, a total of seven individuals in four canoes deployed to harvest Water Chestnut via hand pulling. Joining SLELO Field Crew members Mike McHale and Greg Chapman were four members of the Great Lakes Restoration Initiative (GLRI) Field Crew (Danielle Hurley, Brooks Davey, Emily Sheridan and Cody Mendoza) and SLELO-PRISM Coordinator Rob Williams.

Davey, Emily Sheridan and Cody Mendoza) and SLELO-PRISM Coordinator Rob Williams.

Over the course of two hours, a total of approximately three cubic yards of

mature Water Chestnut plants were removed. Plants were collected in black garbage bags and

brought to The Nature Conservancy's Northern NY Field Office for proper disposal.

Follow-up plans for this emerging Water Chestnut occurrence include a planned effort by SLELO Education and Outreach Coordinator Sarah Conley to contact landowners and homeowners adjacent to the Water Chestnut occurrence to enlist their help in continued



surveillance and management of this invasive species population.

**Figure 8:** GLRI Field Crew members Danielle Hurley and Brooks Davey search for Water Chestnut in eastern Guffin Bay on July 10, 2012. Photo by Greg Chapman.



**Figure 9:** A portion of the Water Chestnut removed from eastern Guffin Bay.

# **Data Tables and Maps**

Refer to subsequent maps for point locations. Key to abbreviations used in all tables: **EWM**: Eurasian Water-milfoil **CLPW**: Curly-leaf Pondweed **ZM**: Zebra/Quagga Mussels

**Table 1:** Rake toss results from Chaumont Bay (Water Chestnut survey).

Location	on: Chaumont Ba	Dates: 7/3, 7/5/, 7/6 2012					
Point	Lat/Long	Throw	Depth	# Spp.	# Inv.	Invasive Spp. present	Notes
274	44.02931937	1	9	3	2	EWM, CLPW	
2/4	-76.21376325	2	9	2			
075	44.02904235	1	7	1			
275	-76.21514132	2	7	2			
004	44.06838038	1	3	3	1	EWM	
001	-76.14808836	2	3	5	1	ZM	
002	44.07335739	1	3	5	1	EWM	
002	-76.1354176	2	3	4	1	EWM	
003	44.06205741	1	12	3			
003	-76.13545465	2	11	4	1	EWM	
004	44.03890315	1	5	3	1	EWM	
004	-76.13370812	2	5	3	1	EWM	
005	44.03866947	1	4	1			
005	-76.12333786	2	4				
017	44.08074285	1	3	3		EWM	
017	-76.19647365	2	3	3		EWM	

**Table 2:** Water Chestnut observations at HPA-5.

Location	Location: Chaumont Bay (HPA-5)  Date: 7/5/20							
Point	Lat/Long	Species	Notes					
006	44.03966515	Water Chestnut	40 to 50 plants amongst floating vegetation					
000	-76.12065674	Water Criestriut						
007	44.04061063	Water Chestnut						
007	-76.12012583	water Chestnut	Less than 10 plants					
000	44.04105345	Mater Chapter	Loca than 40 plants					
800	-76.11972065	Water Chestnut	Less than 10 plants					
009	44.04135159	Water Chestnut	Loca than 10 plants					
009	-76.11918563	Water Criestriut	Less than 10 plants					
010	44.04149693	Water Chestnut	Less than 10 plants					
010	-76.11898664	Water Criestriat	Less than 10 plants					
011	44.04203245	Water Chestnut	Less than 10 plants					
011	-76.11810822	Water Criestriat	Less than 10 plants					
012	44.04341295	Water Chestnut	Less than 10 plants					
012	-76.11610754	Water Criestriat	Less than 10 plants					
013	44.04540868	Water Chestnut	Less than 5 plants					
013	-76.11194719	Water Chestriat	Less than 5 plants					
014	44.04519939	Water Chestnut	Loss than 5 plants					
014	-76.11235119	water Chestrut	Less than 5 plants					
015	44.04460344	Water Chestnut	Loss than 5 plants					
015	-76.11335367	vvater Chestriut	Less than 5 plants					
016	44.0440991	Water Chestnut	Loss than 5 plants					
010	-76.11395591	vvater Chestriut	Less than 5 plants					

**Table 3:** Swallow-wort observations at HPA-2.

Locatio	on: Chaumont Bay (	(HPA-2)	Date: 7/3/2012
Point	Lat/Long	Species	Notes
277	44.01143071	Swallow-wort	Along CR 57, south of boat launch. Plants hand
211	-76.28640376	Swallow-wort	pulled.
278	44.01136198	Swallow-wort	Along CR 57, south of boat launch. Plants hand
270	-76.28614501	Swallow-wort	pulled.
279	44.01127925	Swallow-wort	Along CR 57, south of boat launch. Plants hand
219	-76.28591778	Swallow-wort	pulled.
280	44.01012171	Swallow-wort	Along CR 57, south of boat launch. Plants hand
200	-76.28320288	Swallow-wort	pulled.
281	44.01113089	Swallow-wort	Larger patch (approximately 100 plants) on boat
201	-76.28722686	Swallow-wort	launch property. Plants not removed.

**Table 4:** Hydrilla survey rake toss data (*continued on next page*).

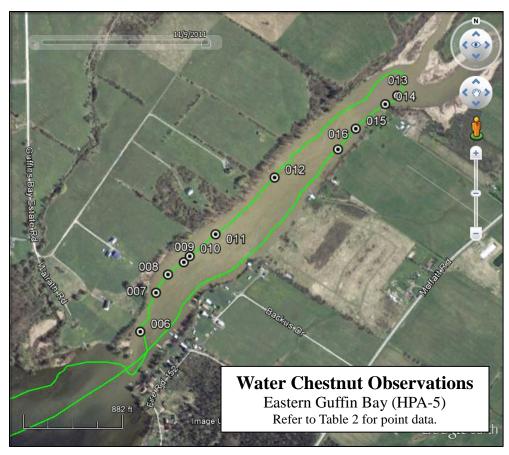
**Location: Chaumont Bay** 

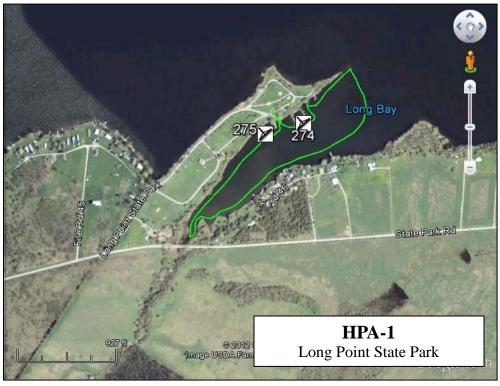
HPA-1: Long Point State Park Da							
Point	Notes						
274	44.02931937	1	8'	3	0		· Visual: EWM
274	-76.21376325	2	7'	3	0		
275	44.02904235	1	6'	2	1	ZM	
	-76.21514132	2	6'	2	1	EWM	

HPA-3: Three Mile Bay							Date: 8/9/2012
Point	Lat/Long	Throw	Depth	# Spp.	# Inv.	Invasive Spp. present	Notes
006	44.07314164	1	3'	4	1	EWM	Visual: ZM
006	-76.13526673	2	3'	3	1	EWM	
017	44.08074285	1	2'	3	0		
	-76.19647365	2	1'	5	1	EWM	

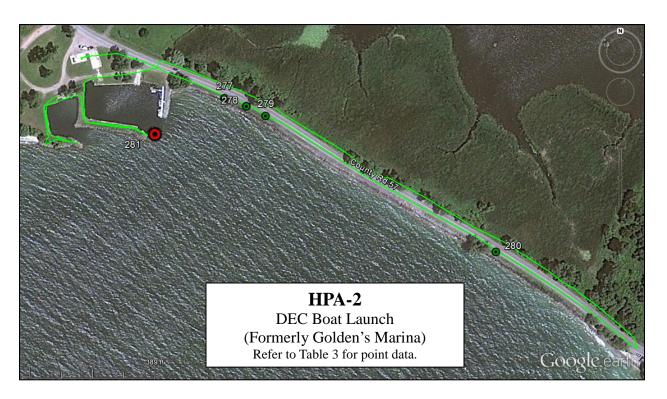
HPA-4: 0	HPA-4: Chaumont State Boat Launch/Sawmill Bay Date: 8/13/2012								
Point	Lat/Long	Throw	Depth	# Spp.	# Inv.	Invasive Spp. present	Notes		
024	44.06663711	1	1.5'	3	0				
021	-76.15108363	2	2'	2	0				
022	44.0612794	1	9'	4	1	EWM			
022	-76.13590828	2	9'	4	1	EWM			
023	44.06357059	1	9'	7	2	EWM, ZM			
023	-76.13339757	2	7'	6	2	EWM, ZM			
024	44.06482285	1	6'	5	1	EWM			
024	-76.12985437	2	5'	5	1	EWM			
025	44.07023756	1	6'	4	1	EWM			
025	-76.13816611	2	6'	4	1	EWM			
026	44.07314164	1	5'	6	2	EWM, ZM			
020	-76.13526673	2	4'	6	2	EWM, ZM			
027	44.06926769	1	7'	4	1	EWM			
UZI	-76.14669202	2	6'	5	1	EWM			

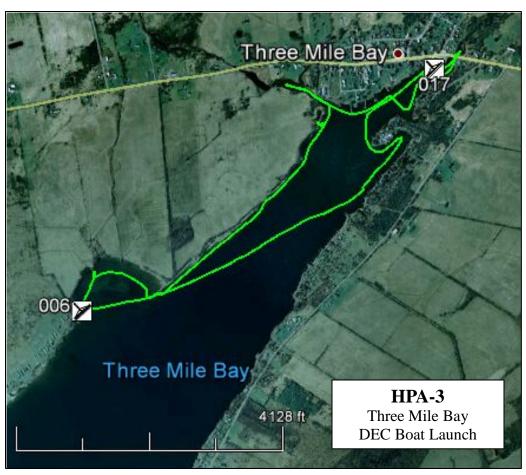
HPA-5: 0	HPA-5: Guffin Bay Date: 8/13/20							
Point	Lat/Long	Throw	Depth	# Spp.	# Inv.	Invasive Spp. present	Notes	
008	44.03896753	1	3'	4	1	EWM		
000	-76.1337978	2	3'	4	2	EWM, ZM		
009	44.03971142	1	3'	3	1	EWM		
009	-76.12059362	2	2'	4	1	EWM		
010	44.03992038	1	3'	3	1	EWM		
010	-76.11997026	2	3'	5	1	EWM		
044	44.04103132	1	2'	4	1	EWM		
011	-76.11862094	2	2'	5	1	EWM		



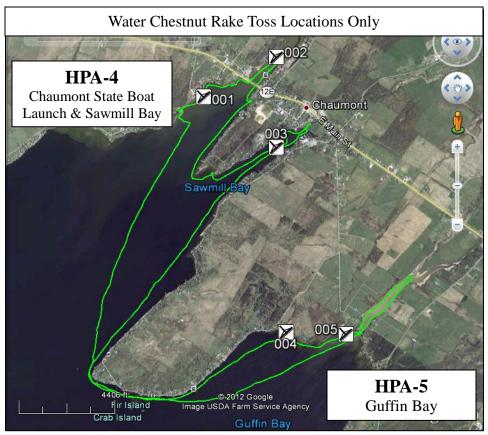


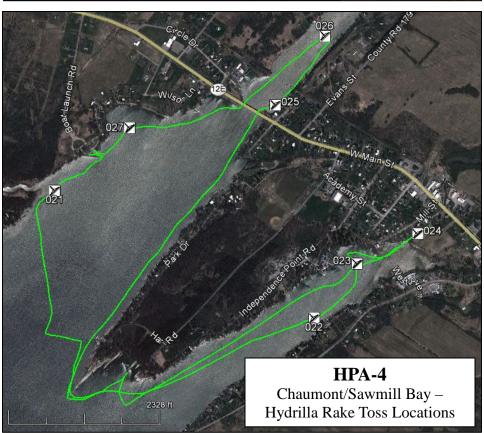
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