



• Five sites located along the Dam shore

• But also observed in between sample locations

# But....

One trace site collected at the south end of the lake  $(\sim 1.75 \text{ miles from dam!})$ 

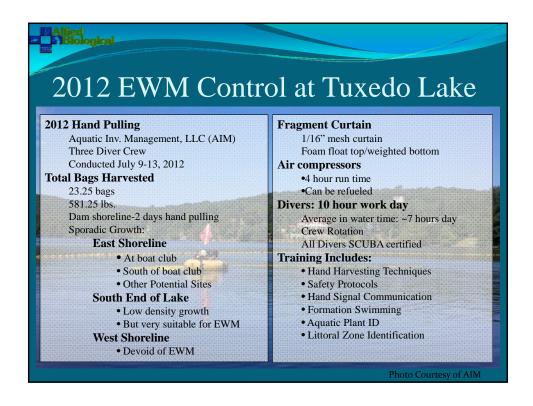


# Eurasian Water Milfoil Control Options • Herbicides • Renovate OTF (granular) with a containment curtain

- Water Use Restrictions
- EWM at the Outlet (downstream effects)
- Negative Public Perception

# Benthic Barriers

- Labor Intensive
- Underwater Obstructions
- Expensive (materials, installation, and maintenance)
- Suction Harvesting (DASH)
  - Non-selective
- Hand Pulling
  - Relatively low stem density
  - Selective
  - Positive Public Perception

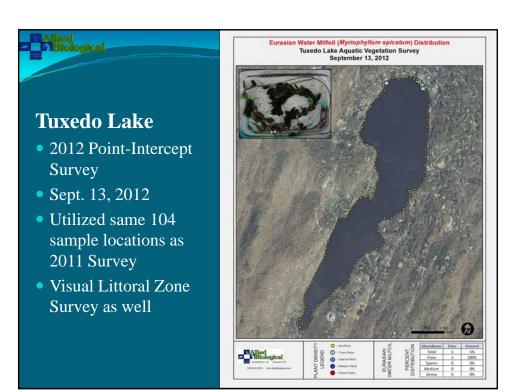






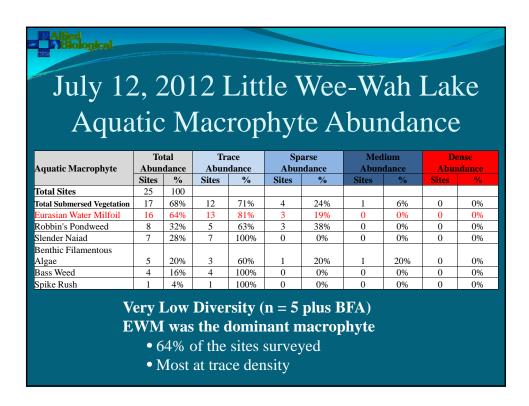
# 2012 Point-Intercept Surveys

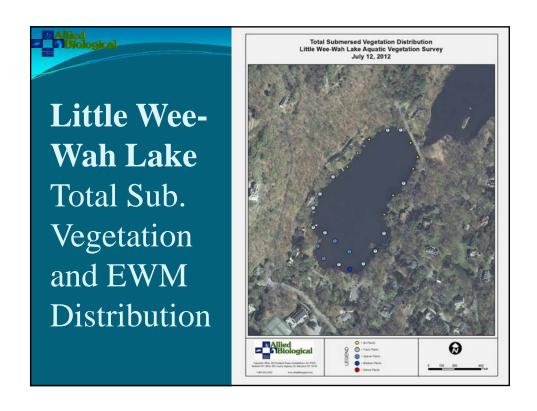
- Assumed EWM spread to Little Wee-Wah and Wee-Wah Lakes
  - Based on EWM location and flow dynamics
  - Confirmed in Wee-Wah Lake (Feb. 2012)
- ABI to conduct Point-Intercept Surveys in these two basins
  - Determine the abundance and distribution of EWM
  - Survey: June or July
    - Maps to be used by AIM to Hand Pull these basins, or
  - Develop alternate EWM Control Programs
- Tuxedo Lake to be surveyed in late season (Sept.)
  - Determine the efficacy of hand pulling project
  - Planning for hand pulling efforts in 2013
  - Identify any new infestations in the basin



<b>Sampling Location</b>	# of Stems Observed	Notes
Near site T4	5 rooted stems	Hand pulled 4 stems near surface; at le one more observed
Near site T42	10-15 rooted stems	Mixed in with other plants
Site T85 (and nearby)	4 rooted stems; one fragment on anchor	Hand pulled the 4 stems
Near site T89	2 stems rooted stems	
Site T92	1 stem on anchor	
Between T92 and T93	2 stems rooted stems	
On shore near T93	2 floating stems	Removed from lake
Site T93	2 stem fragments on anchor	
Near T94	5 stems (one on anchor)	
Between T94 and T95	17 rooted stems	Clumps of 9, 3 and 5 stems
Site T96	~20 rooted stems	One floating stem observed and collect
Near site T97	2 rooted stems	
Site T98	2 stems on anchor	
Near site T101	2 rooted stems	
Near site T103	1 rooted stem	
Near T104	4 rooted stems	Located near end of dock; hand pulled

### September 13, 2012 Tuxedo Lake Aquatic Macrophyte Abundance Total Trace Medium Sparse Aquatic Macrophyte Abundance Abundance Abundance Abundance Sites Sites Sites 100% Total Sites 104 0% 51% 28% 26% Total Submersed Vegetation 10 0% Wild Celery Arrowhead Rosette 14 13% 86% 14% 0 0% 0 0% Robbin's Pondweed 14 13% 12 86% 14% 0 0% 0 0% Slender Naiad 12 12% 67% 0% 33% 0 0% Bass Weed 6 6% 100% 0% 0 0% 0 0% 17% 0% 0% Leafy Pondweed 6% 83% 0 0 100% 0% 0% Eurasian Water Milfoil 0% 0 Benthic Filamentous Algae 0% 4% 50% 50% 0 0% 0% 1% 100% 0% 0 0% 0 0% Small Pondweed 1% 100% 0 0% 0 0% 0 0% Pipewort 1% 100% 0% 0 0% 0 0% 1% Spikerush 100% 0% 0 0% 0 0% Spiral-fruited Pondweed Increase in macrophyte diversity (n = 13)Dwarf water milfoil also observed • Timing of the survey (Sept. vs. Oct.) Still no floating macrophytes Distribution similar, but abundance increased





## Wee-Wah Lake July 12, 2012 Aquatic Macrophyte Abundance Aquatic Macrophyte Total Sites 100% Total Submersed Vegetation 89% Common Waterweed 70 85% 22 27 31% 17 24% 11 16% 20 29% 24% Small Pondweed 50 61% 54% 10% 12% Benthic Filamentous Algae 35 43% 19 54% 23% 17% 6% 80% 0% 0% Slender Naiad 6% 20% Arrowhead (rosette) 2% 100% 0% 0% Robbin's Pondweed Spikerush 1% 100% 0 0% 0 0% 0 0% Spiral-fruited Pondweed 1% 100% 0% 0 0% 0% Total Floating Vegetation 60% 20% 20% 0% Floating Filamentous Algae Low Aquatic Macrophyte Diversity (n = 8)EWM at 30% of sites **Increased BFA and FFA** Most at trace density **Dominant Macrophyte: Common Waterweed** • But mixed with other plants • 85% of sites (45% at nuisance density) • Reduced hand pulling efficacy? • Not present in other basins

