



Great Ships Initiative Update

Great Lakes Commission
2007 Semiannual Meeting

Indianapolis, Indiana
May 14, 2007

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AMERICAN GREAT LAKES PORTS ASSOCIATION
WASHINGTON, DC

Project Genesis

**"Great Lakes Biological Pollution
Prevention Project"
funded by the GLPF**

- outreach effort to maritime industry
- proposed an industry led effort to solve the ANS problem in the Great Lakes
- GSI designed as the response

Objective

To end ship mediated
introductions of aquatic invasive
species into the Great Lakes

Project Managers

NORTHEAST-MIDWEST INSTITUTE

AMERICAN GREAT LAKES PORTS
ASSOCIATION

NATIONAL FISH AND WILDLIFE FOUNDATION

UNIVERSITY OF WISCONSIN / UNIVERSITY
OF MINNESOTA

Project Executive Committee

Port of Duluth	City of Superior	NOAA
Port of Milwaukee	(municipal vacancy)	U.S. Maritime Administration
Port of Chicago	State of Wisconsin	SLSDC
Port of Indiana	(state vacancy)	SLSMC
Port of Toledo	Great Lakes United	
Port of Cleveland	Great Lakes Commission	
Port of Erie	Fednav	
Port of Toronto	(vessel operator vacancy)	
Port of Hamilton		

Project Funding

(as of May, 2007)

Great Lakes Ports	100,000.00
U.S. Department of Transportation	900,000.00
Maritime Administration	700,000.00
SLSDC	50,000.00
SLSMC	50,000.00
NOAA	1,250,000.00
GLMRI	50,000.00
Total	3,300,000.00

Project Elements



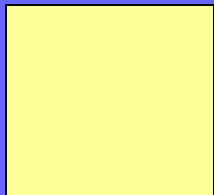
technology incubation / testing



harbor monitoring



installation assistance / financing



post installation monitoring / assistance

GSI Research & Testing Facilities

- Bench Scale (in laboratory - UWS/UMD)
 - Residual toxicity
 - Dose response
 - Mechanism
- Pilot Scale (Montreal pier facility)
 - Scale effects
 - Ambient conditions/organisms
- Shipboard (salty operator / CA laker operator)
 - Ship effects
 - Various ambient conditions/organisms

Treatment Technologies

Between 30-40 companies around the world are developing ballast water treatment technology

Do they work?

Says Who?

Based on What Tests?

Performed in what manner?

According to what criteria?

Certified by whom?

Why Test?

PROTECT THE PUBLIC
INTEREST

PROTECT THE PURCHASER
FROM FRAUD

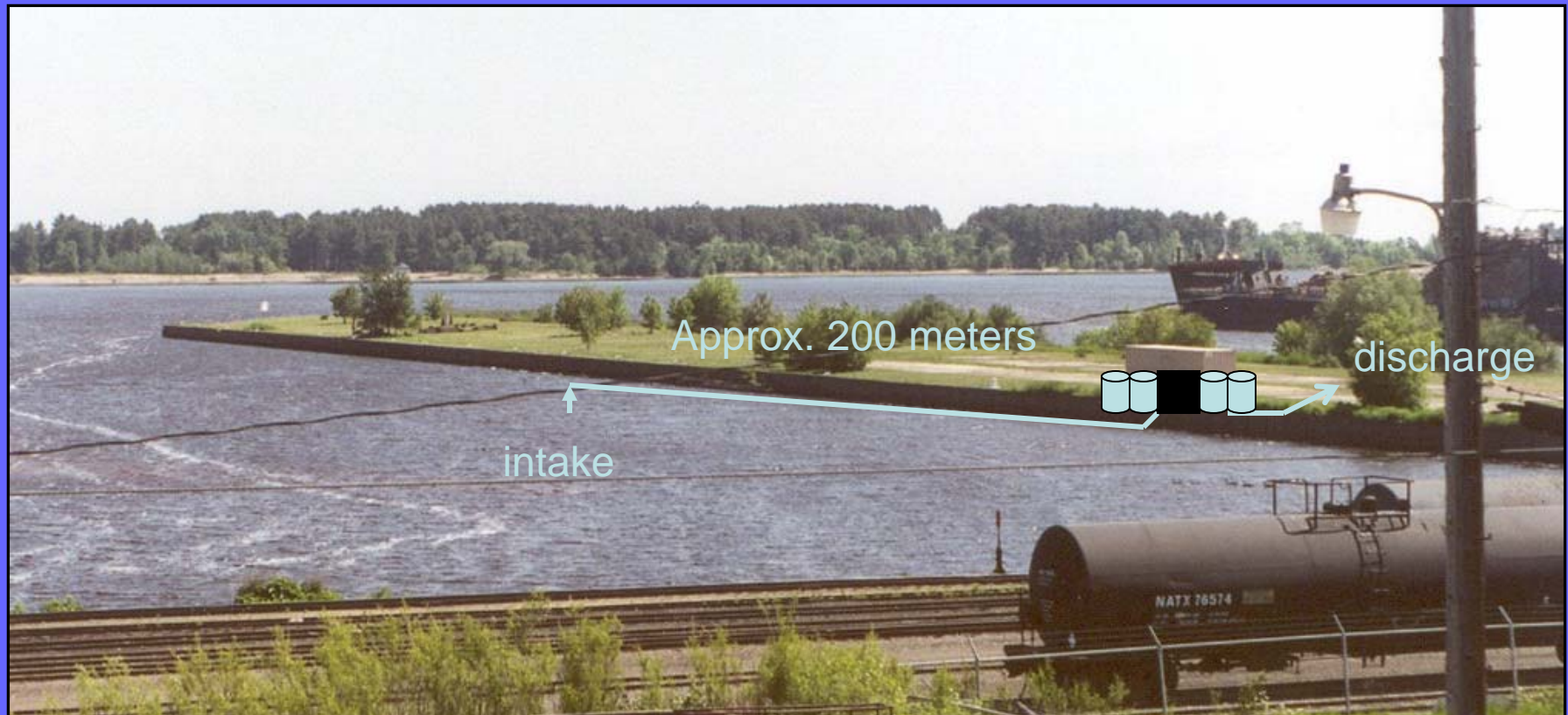
Montreal Pier Test Facility

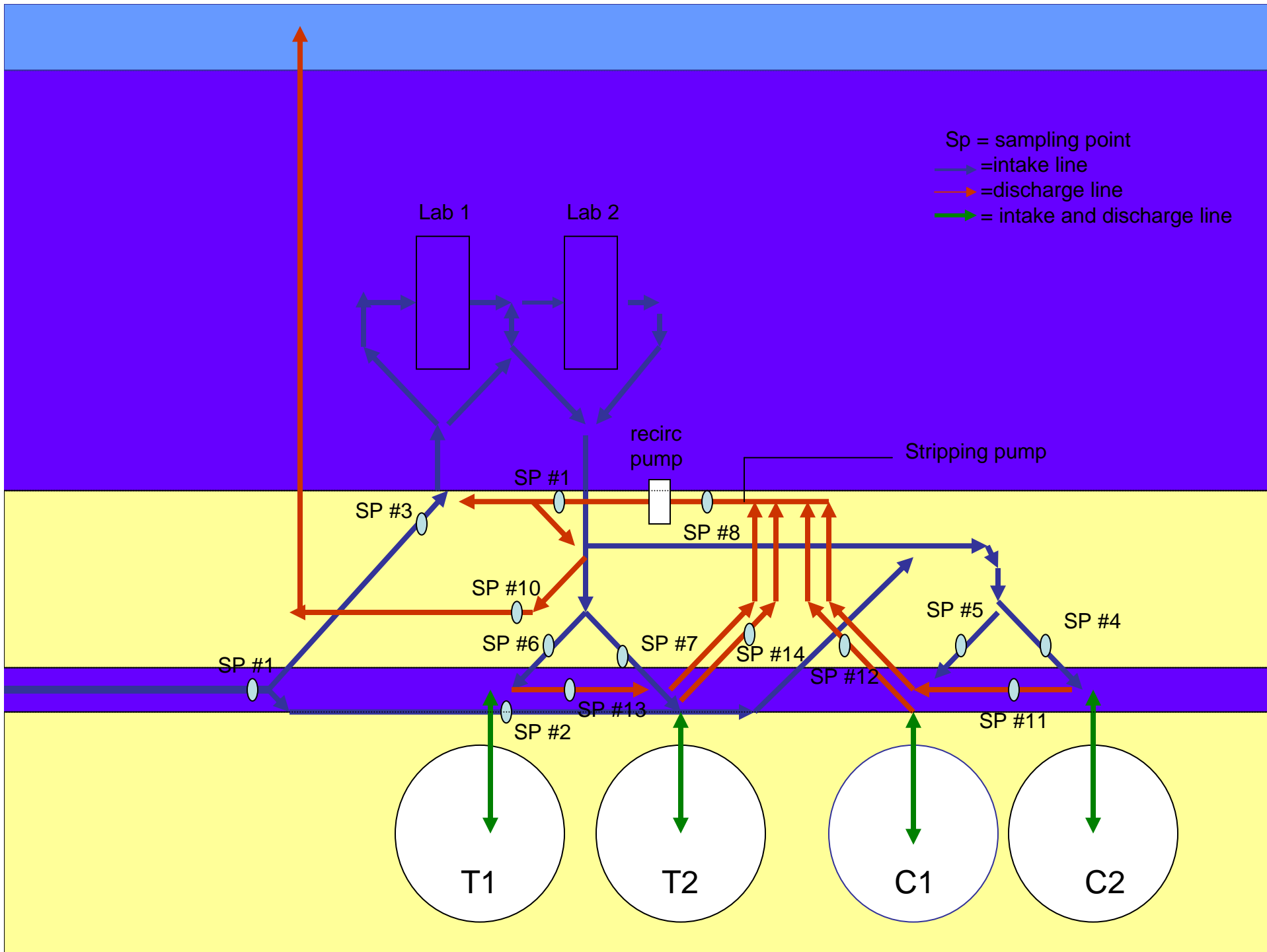
Superior, Wisconsin

Port of Duluth/Superior



Montreal Pier Test Facility





Set of Four 200 Cu Meter Tanks



Piping Framework



Valves



Automated Valves



Pressure and Flow Control Valves



Diaphragm Valve

What's Next?

- Spring 2007
 - IMO Consistent Facility Construction Complete
 - Scientific Protocols Complete
- Summer 2007
 - First Solicitation for Treatments to be Tested
 - Facility Calibrated/Vetted
 - Preliminary Tests at Bench/Pilot Scale
- Fall 2007
 - First Full RFP Issued (for Bench, Pilot and Shipboard Tests)

Want to Know More?

“Great Ships for the Great Lakes”
GSI Scoping Report

available at:

www.nemw.org