Overview on the New MNR Great Lakes Vessels

Dawn Walsh
Ministry of Natural Resources
GLASS – January 11, 2011

Ontario Explorer

Ontario

Huron Explorer 1

Ontario

MNR Great Lakes Vessels

- Two MNR Great Lakes Vessels fully equipped to conduct research and assessment including trawling, gillnetting, fish stocking, hydroacoustics and limnological surveys

- New vessels significantly improve MNR's ability to conduct coordinated monitoring and research on the Great Lakes with Ontario, Canada and other jurisdictions and partners

Design Features

- Length = 19.79m (65 ft)
- Beam = 6.49m (21 ft)
- Draft (max) = 1.53m (5 ft)
- Displacement @ 135 ton
- Max. speed – 10 knots
- “State of the art” Navigational package
- Galley, bunks (4) and head
- Moon pool
- Bowthruster
- Science Davit
- Wireless remote for many of the hydraulics
- Compliant with the new Canada Shipping Act and Commercial Vessel regulations
- “Sister Ships”

Project Plan and Budget

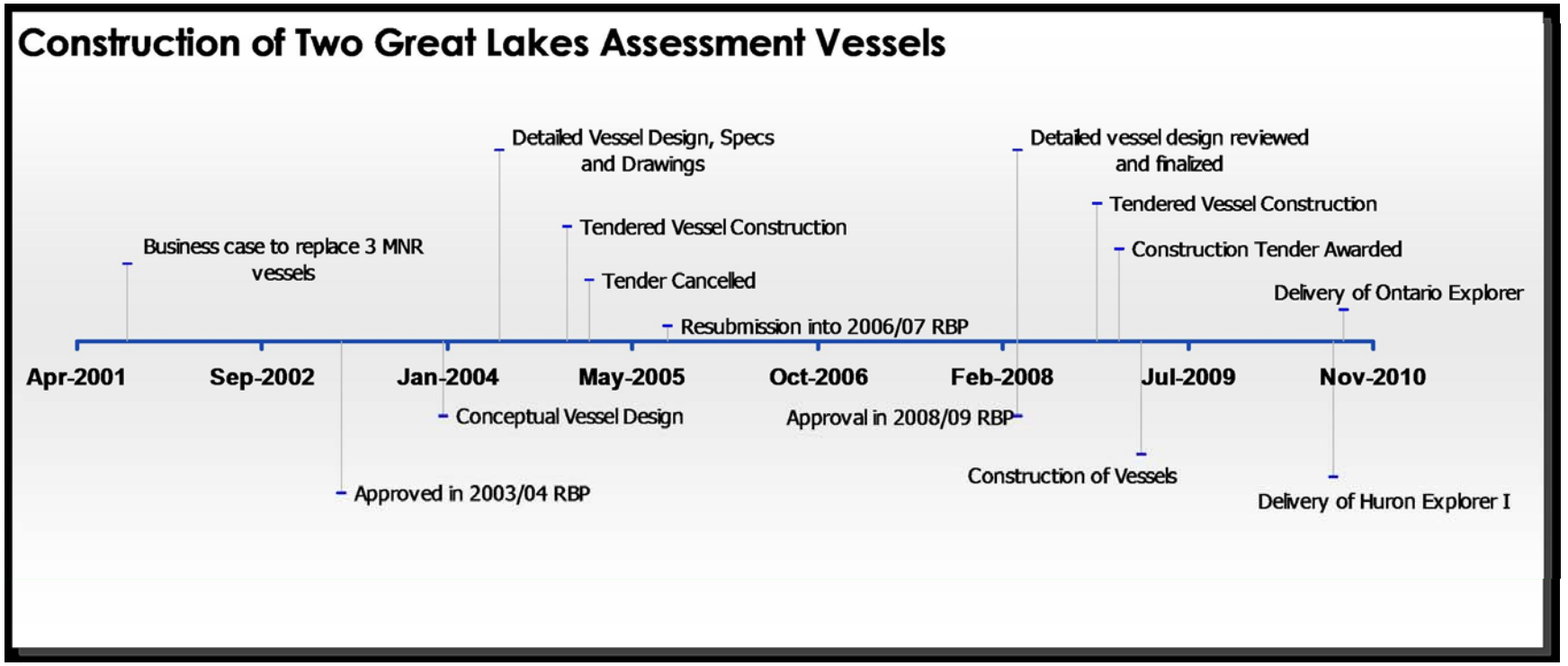
Project Phases:

- Phase 1 – Conceptual Design
- Phase 2 – Detailed Vessel Design
- Phase 3 – Construction of Vessels

Project Budget:

- $5.0 million

Project Timelines



Ontario

Design and Build Team

Builder: Hike Metal Products – Wheatley, Ontario (Lake Erie

Naval Architects: E.Y.E Marine Consultants – Dartmouth, Nova Scotia

MNR – Design and Build Team:

- Colin Lake – Lake Ontario Management Unit – Operations Supervisor
- Dale Dewey – Lake Ontario Management Unit – Operations Coordinator
- Jon Chicoine – Lake Ontario Management Unit – Boat Captain
- Gavin Christie – Lake Ontario Management Unit – Assessment Supervisor
- Ed Delaplante – Upper Great Lakes Management Unit – Operations Supervisor
- John Brookham – Upper Great Lakes Management Unit – Boat Captain
- Darrell Wilson - Upper Great Lakes Management Unit – Fisheries Technician
- Adam Cottrill - Upper Great Lakes Management Unit – Assessment Biologist
- Tim Johnson – MNR Research Scientist
- Dawn Walsh – Project Manager

Lessons Learned

- Plan, plan, plan
- Brief Senior Management early and often
- Incorporate contingency into budget
- Incorporate contingency in timelines
- Hire independent naval architect (vs. builder navel architect)
- Engage captains, operational staff and management staff throughout project
- High investment required in tender specifications and drawings

Next Steps - MNR Great Lakes Vessel Fleet

VESSEL	*LAKE*	*LENGTH (ft)*	*DISPLACEMENT (tons)*	*AGE*	*MEETS PROGRAM NEEDS*
ONTARIO EXPLORER	**Ontario**	**65**	**135**	**NEW**	**YES**
STEELCRAFT	**Ontario**	**45**	**23**	**56**	**YES**
HURON EXPLORER I	**Huron**	**65**	**135**	**NEW**	**YES**
ATIGAMAYG	**Superior**	**57**	**75**	**56**	**?**
EVERETT H.	**Superior**	**65**	**25**	**59**	**?**
KEENOSAY	**Erie**	**58**	**68**	**21***	**YES**
K. H. LOFTUS	**Erie**	**42**	**27**	**18**	**YES**
ERIE EXPLORER	**Erie**	**62**	**64**	**28**	**YES**
*Major retrofit in 1989					

Ontario