

Presentation made to participants of the Northern Transportation Conference 2011

Session 7: Transportation Challenges in Northern Communities

September 20, 2011

MODULAR WHARF: an alternative solution



INTRODUCTION

Tulaktarvik: Partnership between Qikiqtaaluk Corporation and Ocean

Overview

Modular floating wharf
Achievements
Advantages
Design criteria

Other services Questions



INTRODUCTION

- Fleet of 25 tugs
- 10 Z-drive tugs (ASD)
- Fleet of 350 barges
- Fleet of 19 workboats
- 10 business locations in Canada
- From 450 to 550 employees (depending on season)
- 1 shipyard
- Over 25 years experience in maritime services





SERVICES

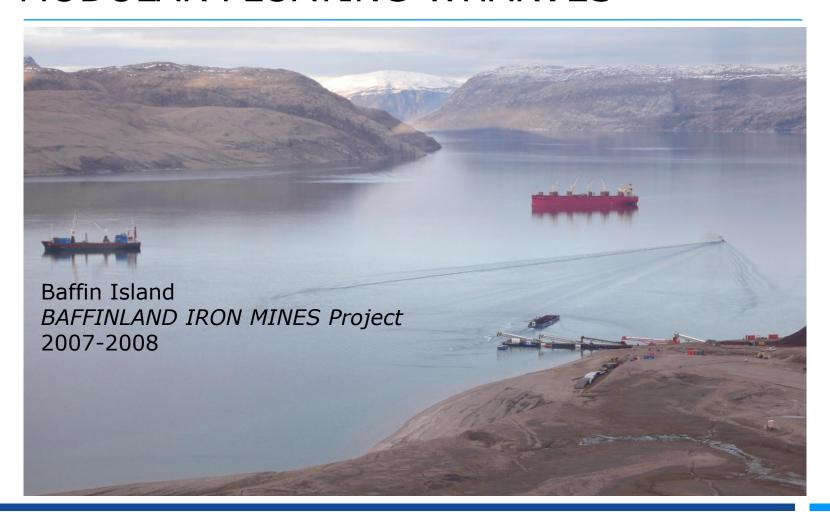
- HARBOUR TOWING and ICE MANAGEMENT
- PILOT BOATS
- TRANSHIPMENT AND SUPPLY SERVICES
- LONG DISTANCE TOWING
- INDUSTRIAL and TOPSIDE SHIP REPAIR
- SHIPYARD
- SALVAGE and REFLOATING
- MARITIME EQUIPMENT RENTAL
- DREDGING
- INSTALLATION OF MODULAR FLOATING WHARVES













Installation was carried out with:

- 1 hydraulic shovel
- 1 workboat
- 8 workers during 5 days



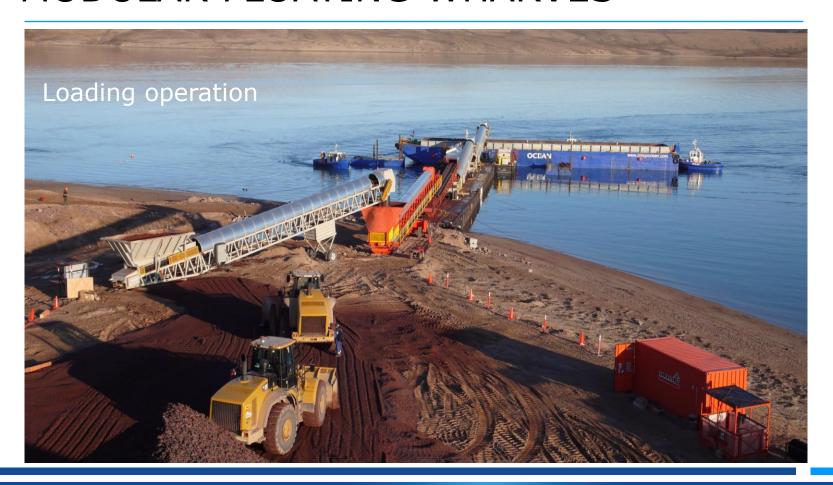




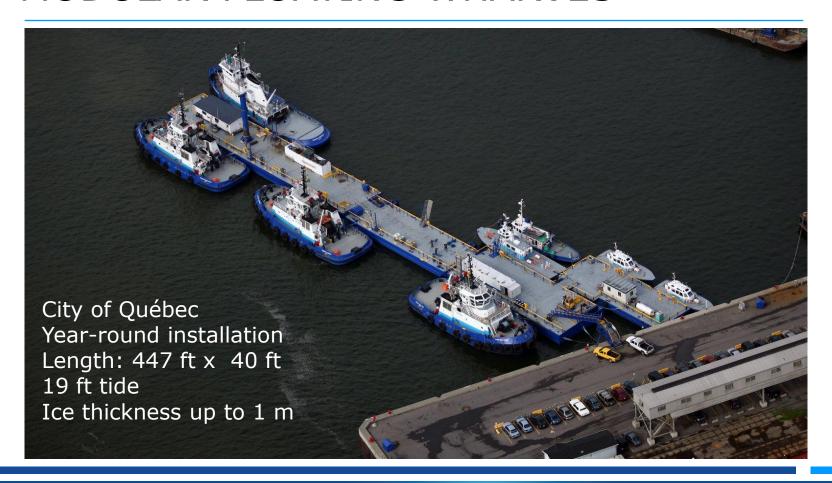




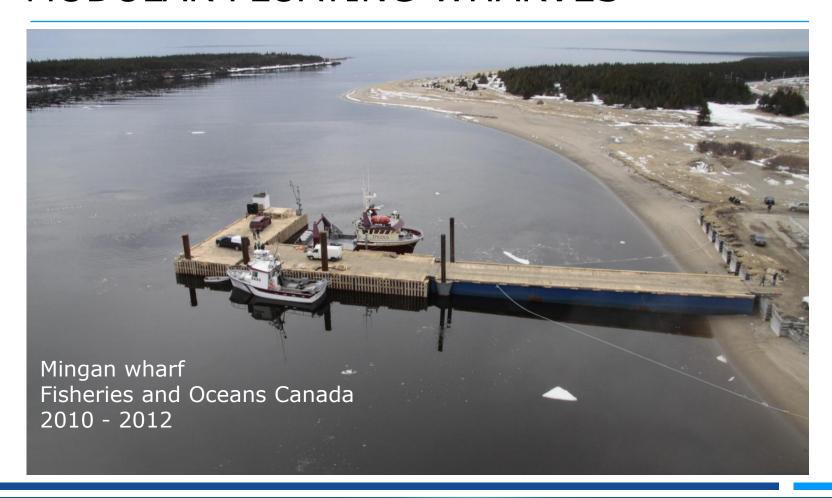




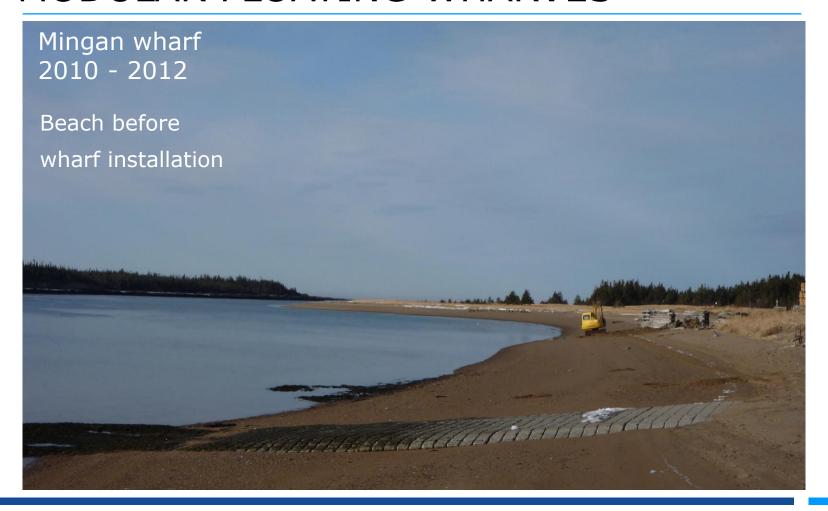
















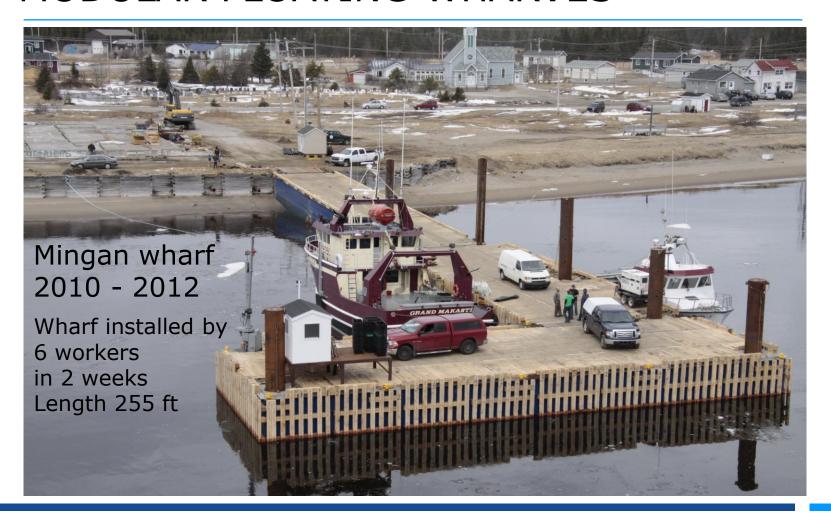


















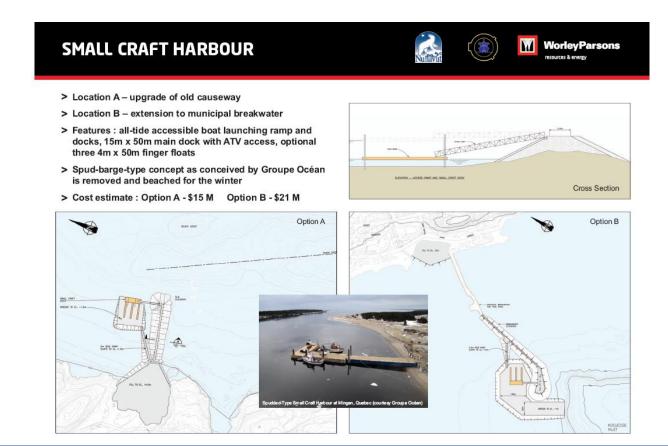






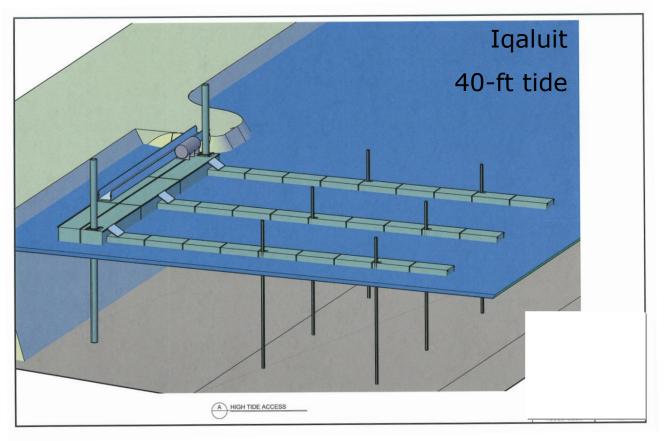


Iqaluit feasibility study - 2010





Small craft harbour proposition



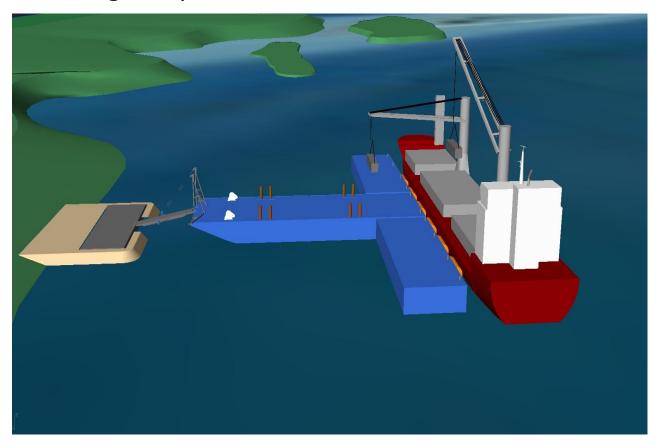


Solution for cargo ships





Solution for cargo ships





ADVANTAGES

Economical:

Lesser cost compared to the construction of a conventional wharf Eliminates cost overrun Mobilization of construction equipment at an affordable rate

Efficient:

Quick time frame for installation
Start your projects with our turnkey solution
Correct positioning will eliminate maintenance dredging
Can be adapted according to your needs

Environmentally friendly:

No dredging / No blasting Protect the ecosystem with low impact on marine life Eliminate compensation measures for aquatic environment



HARBOUR TOWING





PILOT BOATS





TRANSHIPMENT AND SUPPLY SERVICES





LONG DISTANCE TOWING





INDUSTRIAL AND TOPSIDE SHIP REPAIR



STATE-OF-THE-ART WORKSHOP IN THE PORT OF QUÉBEC OFFERING THE FOLLOWING SERVICES:

- WELDING
- CUSTOM-MADE PARTS
- MARINE REPAIRS)MECHANICS, HYDRAULICS, ELECTRICITY, PUMPS AND ENGINES)
- TOPSIDE REPAIRS (SHIPS CAN DOCK DIRECTLY ALONGSIDE THE WORKSHOP)
- CONSTRUCTION OF WHARFS, OF BARGES, ETC.



INDUSTRIAL AND TOPSIDE SHIP REPAIR

Mobile team for ship repair







SHIPYARD









SALVAGE AND REFLOATING





MARINE CONSTRUCTION AND EQUIPMENT RENTAL



DREDGING





CONCLUSION

Modular wharf: an alternate solution for port infrastructures

105, rue Abraham-Martin Suite 500 Québec (Québec) G1K 8N1 www.groupocean.com Tel: 418 694-1414

