Port Infrastructure Challenges

Tyler O’Rourke Port Engineer
Jan. 2014
Port Saint John – 3 Minute Port Tour
West Side
PSJ - Cruise Facilities
PSJ – Courtenay Bay
Port Infrastructure
The Challenge-Balancing Act

- Demand for Upgraded Berths and Facilities
- Maintenance of Existing Infrastructure

Capital funds

Port Saint John
Pier 10 Renewal Project
American Iron and Metal

- New Metal Shredding / Recycling facility
- Completely rehabilitated 24-acre site producing 250,000 tonnes of export steel
- Utilized Roller compacted concrete
- 1930’s Vintage Pier Face
Pier 10 Renewal
Pier 10 - Renewal
Infrastructure Challenges
Pier 14 “The Breakwater”

- Constructed in 1890's
- Timber Pile structure
- Failure began to occur in 2003
Pier 12
“The Wooden Leg”

- Constructed in 1912
- Wooden Crib Structure
- Berth facing design under way
Rodney Container Terminal

- Consists of over 2000 Hollow Concrete Piles
- Advanced State of Deterioration at only 40 years of service
- Narrow Bridge Structure
Growing Need for Space
Protection Street Realignment

- Newly constructed street at the west port Boundary
- Provides 10 acres of expansion capability
Cruise Infrastructure

Infrastructure Challenges

• Mooring Requirements

• Gangways – Hydraulic and Conventional (28-Foot Tidal Window)

• Scouring to Crib Structures
Rail Infrastructure

Challenges:
1. Container terminal rail layout & entrance
2. Rail pond & switching reconfiguration needs
3. Future rail storage requirements
4. Navy Island sheds A/B/C spur lines upgrades completed
5. Barrack Point to Lower Cove rail rehabilitation
Tool Box Update

GIS Data and Mapping Systems
Sonar Scanning
Asset Management
Recommendations

Preventative Maintenance Saves!

CEO and Board Work Boat Tour – Provide management the opportunity to view infrastructure first hand