



November 2020



#### **Meet the Team**











Peter Keeshan Managing Director

#### Dean Kirkby Project Engineer

#### Thanh Nguyen Regulatory & Stakeholder Relations Manager

Amy Dopson Community Engagement Specialist

### **Agenda for Today**



- Who is Vopak
- The Vopak Pacific Canada
  Project
- Environmental Assessment
  Overview
- Community Engagement Activities
- Submit Your Feedback & Questions

With great pride we present our proposed project to you.

We look forward to your questions & comments!



### Who We Are





### **Vopak Values**

Care for people and the planet, and living our Vopak values, is leading in all our decisions.



Care for Safety, Health & Environment Sustainability is at the core of every decision Integrity We can look ourselves in the mirror every day Team Spirit We work together, we excel together **Commitment** We say what we do and we do what we say Agility We learn, adjust, improve and change



Storing vital products with care

#### **Vopak's Fundamentals on Safety** Vopak Transfer Management Permit to Lockout and of Product of Change Work Tagout . . . Motorized **Confined Space** Working at **Excavation** Vehicles **Heights** Entry

### **Project Opportunity**

#### **Ideal Location**

- Shortest sailing route to Asia on the Pacific
- Safe port operations

#### **Market Demand**

Increasing demand for products in Asia

#### **Benefits**

- Expands Canada's export portfolio
- Gives global access to landlocked Canadian products
- Contracting, procurement & employment opportunities
- Economic growth for local, provincial and across Canada





### Vopak Pacific Canada



#### **Project Description**

#### Supporting Infrastructure





Liquid Petroleum Gas (LPG) storage tank



Methanol storage tanks



Clean Petroleum Products (CPP) storage tanks



#### **Project Description Continued**







#### **Products We Would Store**





### **Transportation Process**



Supply	Rail Import	Cooling	Storage Capacity	Vessel Export	Market Demand
		,			
LPG	~60 railcars per day	-42 °C	98,000 m3	~2 vessels per month	Demand in Asia is set to increase by 21% in 5 yrs
Methanol	~90 railcars per day	No cooling process	220,000 m3	~ 8 vessel per month	Asia has the largest & fastest growing market
CPP (Diesel/ Gasoline)	~90 railcars per day	No cooling process	260,000 m3	~ 2 vessels per month	Steady demand in Asia

### **Transportation Safety**







- Puncture resistance system
- Thermal protection and heat shielding
- 99.998% of all rail shipments arrive at destination without incident

- Double hull structures
- Tanks systems typically have 2 barriers
- Routine inspections
- Piloted by qualified marine professionals with local knowledge

#### **Jetty Design Update**

**Smaller overall footprint** 

No longer require dredging or deep water mooring structures

Mooring methods are safe and utilize worldclass technology

**Reduces potential environmental effects** 



#### **Estimated Project Timeline**





### **Construction Activities**

- Site preparations & earth works
  (6 8 months)
- Foundation & concrete work (no pile driving)
- Delivery of prefabricated equipment
- Construction of tanks (2 years)
- Assembly, installation & pre commissioning of facility
- Expanding existing rail loading/unloading facilities



#### **Marine Construction Activities**





#### Two years to complete

• Activities will occur during the least risk window

Only 2.5 months of activity each year from November 30 to February 15

#### Includes seven months of

- Installing over water structures
- Jetty construction
- Mooring installation system



### Environmental Assessment Overview





### The Application

on the Project





Section 4

Methodology

### Approach



#### Methodology used to assess Project Related Effects

Baseline



Identify areas to assess

Define the local and regional study areas

Identify potential assessment Project effects for each identified area

Reduce potential Project impacts with proposed mitigation measures

Identify areas where effects may remain post mitigation efforts

Assess the potential cumulative effects on areas with remaining effects

Identify follow-up strategies

#### **Areas Assessed**





### **Aboriginal Interests**





### Defined Boundaries and Indicators

Spatial boundaries

Temporal boundaries

Indicators

Local study areas Regional study areas

Construction Phase

• Operation Phase

Decommissioning Phase

Measuring Metrics

• Reporting Metrics



### **Overview of Field Surveys**

#### **Marine mammals**

#### **Marine resources**

#### **Freshwater fish & habitats**

#### **Terrestrial resources**

#### Archaeology

#### Assessment





- Site clearing
- Road traffic
- Construction activities
- Commissioning & testing
- Transportation
- Product storage
- Vessel berthing & cargo
  loading
- Maintenance
- Cleaning & removal activities

• Fly rock

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- Sediment release
- Worker safety incident
- Spills or leaks
- Unloading process
- Cargo transfer process
- Marine transit incident
- Fire or explosion
  - Worker safety incidents

- Changes that could occur to each assessed area
  - Initial effects
  - Effects likely to remain post mitigations
  - Cumulative effects
- Likelihood of effects

- Avoid
- Minimize
- Restore
- Offset
- Compensate

### **Examples of Mitigation Measures**



#### Marine Habitats

#### Marine Fish & Invertebrates

- Schedule activities during the least risk windows
- Make best efforts to avoid placing vertical spuds or anchors in valued/ sensitive habitat areas

- Monitor underwater noise
- Exclusion zones
- Minimize overwater lighting
- Slow speeds in harbour

**Marine Mammals** 

- Monitoring
- Bubble curtains/ other noise
  attenuating devices
- Stop Work Protocols

### **Examples of Mitigation Measures**



### Marine Use & Navigation

#### Community Services & Infrastructure

#### **Community Well-being**

 Develop & implement a Marine Access and Vessel Communications Plan

- Work camps
- 14/7 work schedules
- In-camp health care
- Limit traffic with bus transportation

- Support social housing initiatives
- At-site Indigenous Liaison
- Cultural awareness training

### **Key Follow Up Strategies**



## Environmental Monitoring

- Monitor fuel deliveries & transfers
- Storage facility inspections
- Water quality monitoring (upstream & downstream)

#### **Follow-up Programs**

- Report any hazardous air pollutant emissions
- Report GHG emissions
- Investigate any noise complaints

#### **Compliance &** Auditing

- Weekly monitoring reports
- Mitigation implementation report (annually)



### Community Engagement



### **Local Opportunities**





### **Local opportunities**





### **Consultation & Engagements**





### Ways to Connect and Learn More





# Thank you for participating!

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