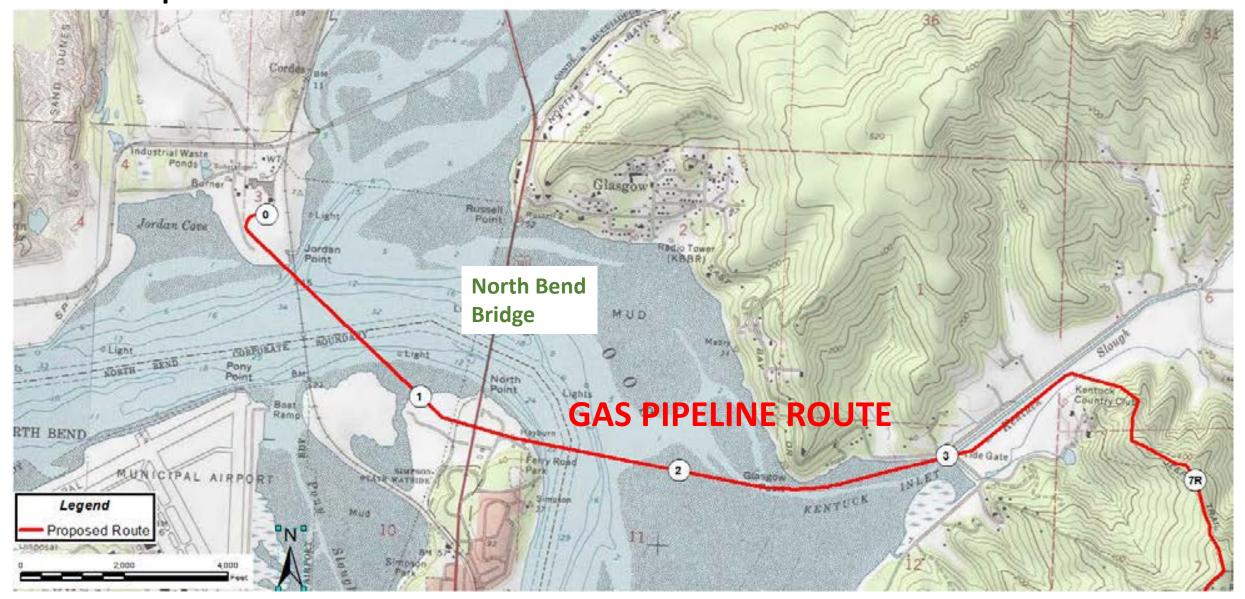
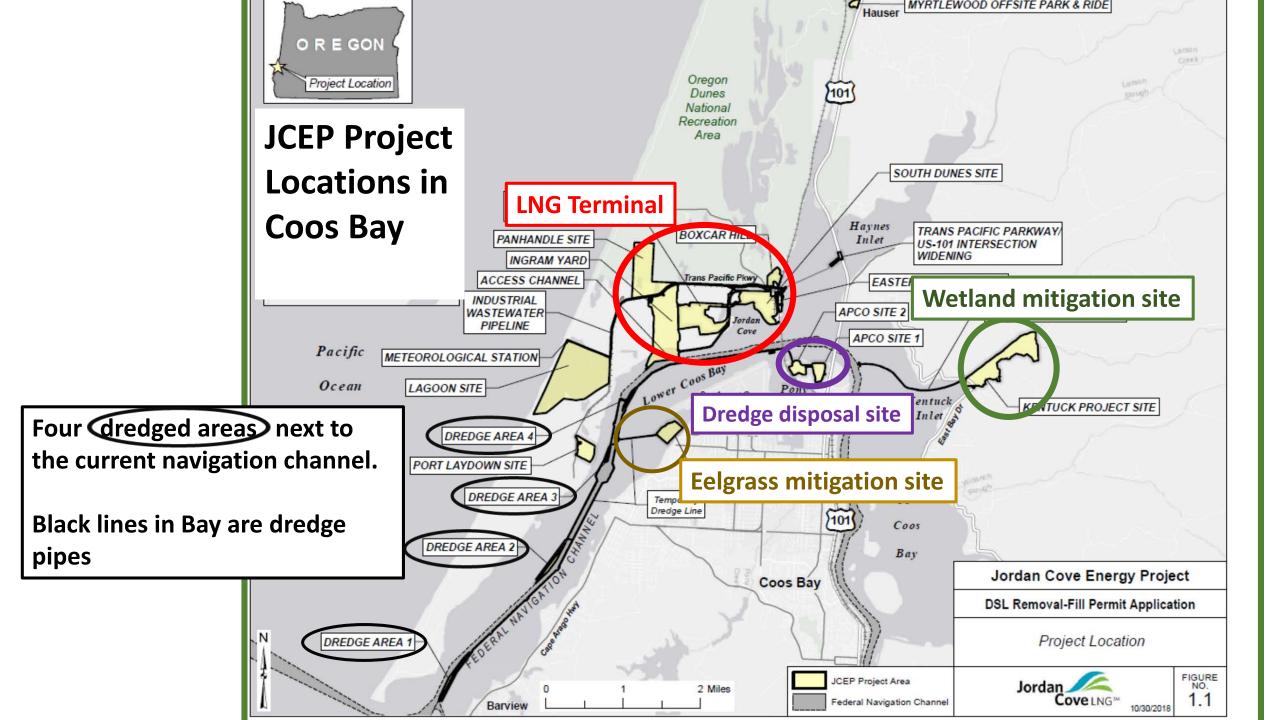
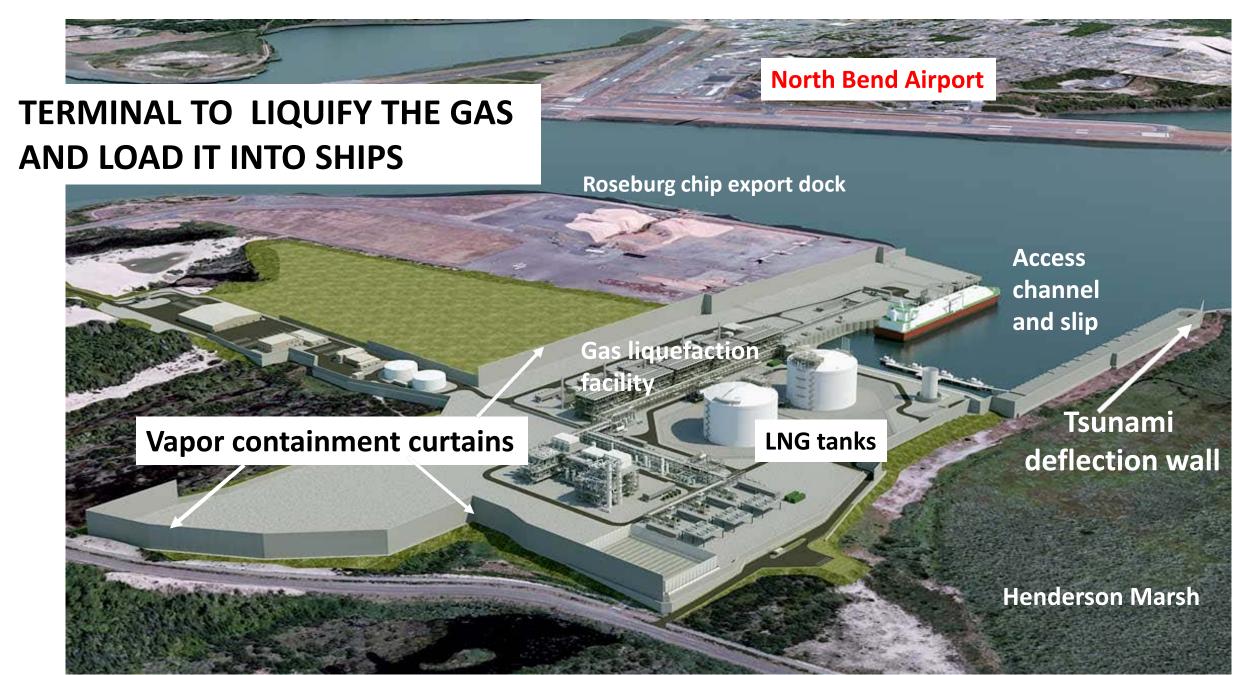


229-mile Pacific Connector fracked gas pipeline and the Jordan Cove LNG export terminal

## 36 inch pipe - horizontal directional drilling under the bay Max depth 190ft

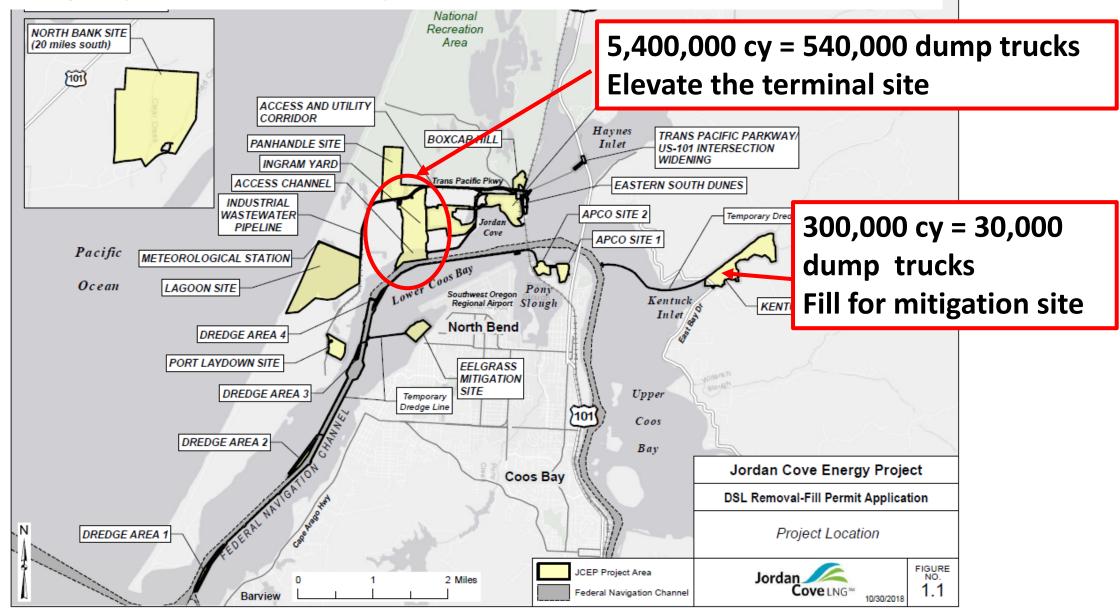


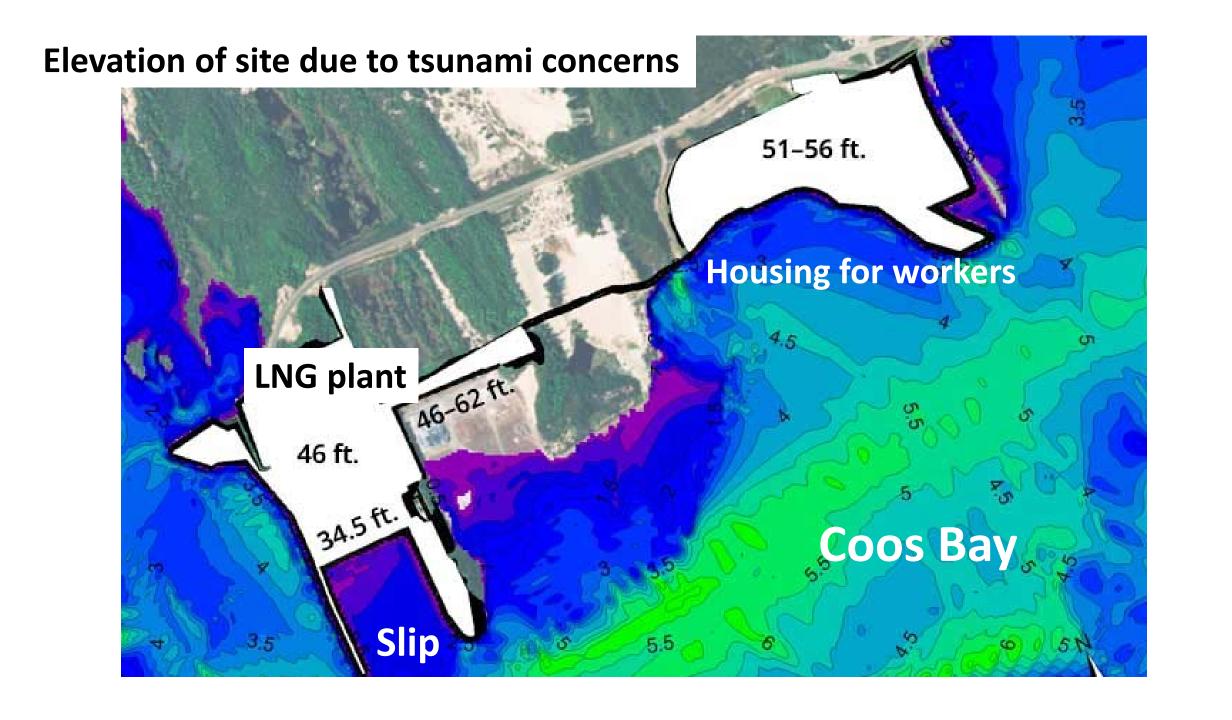


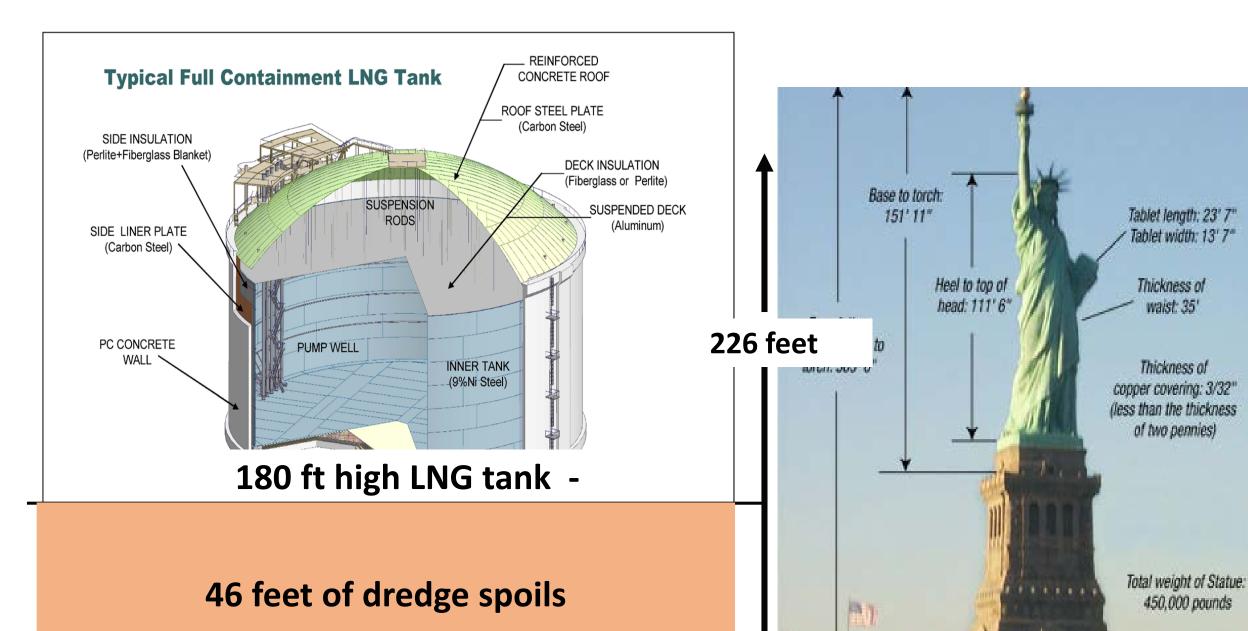


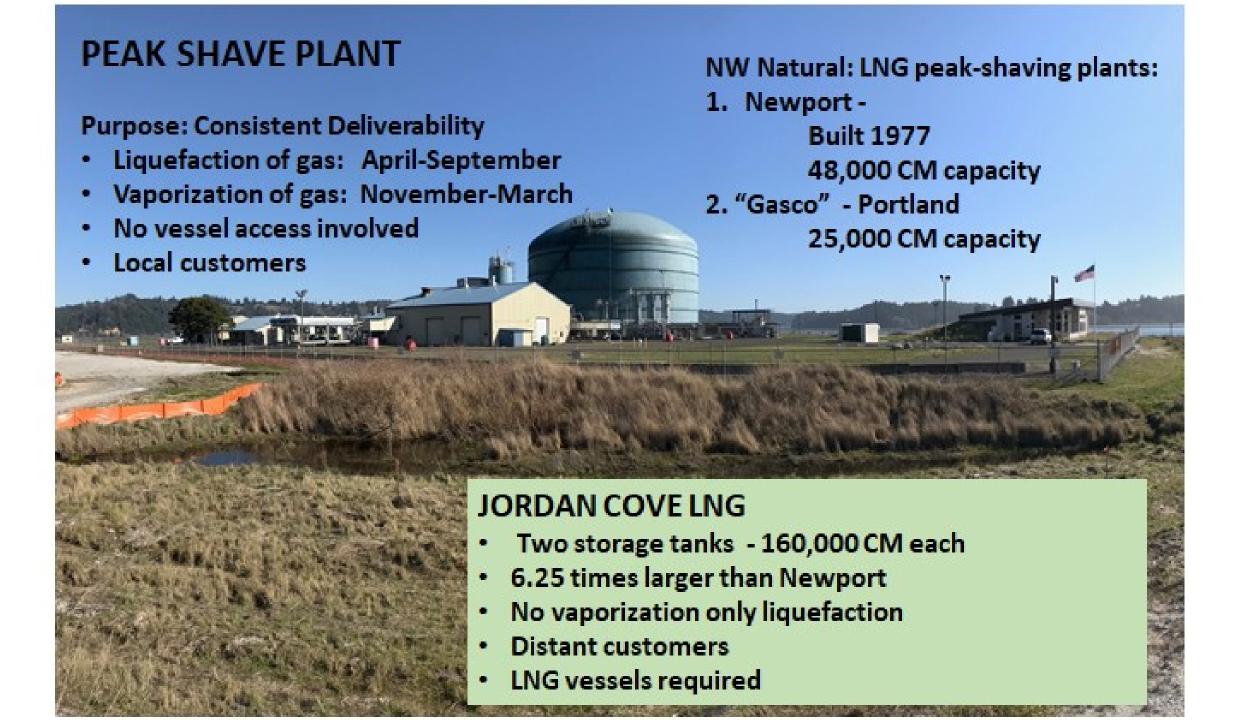
https://www.jordancovelng.com/project

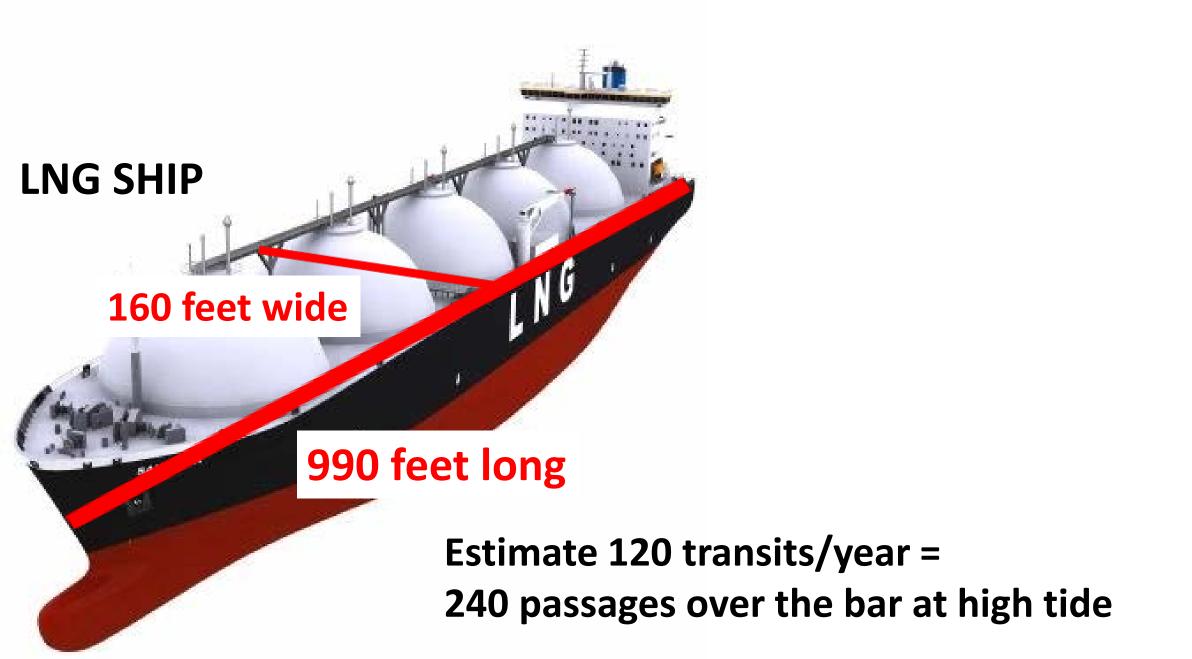
## Dredge a 45 foot deep channel for the LNG ship to access the plant Fate of dredge spoils from the slip and access channel

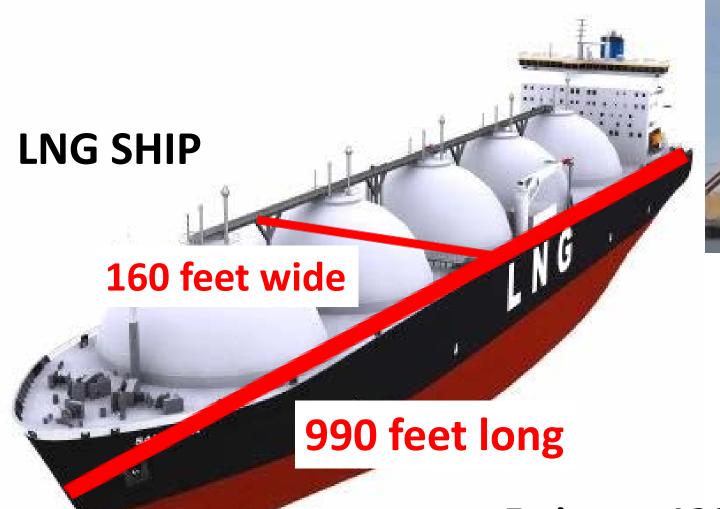














650 feet long

Estimate 120 transits/year = 240 passages over the bar at high tide





650 feet long

Estimate 120 transits/year = 240 passages over the bar at high tide

#### SOCIETY OF INTERNATIONAL GAS TANKER AND TERMINAL OPERATORS LTD (SIGTTO)

#### Purpose of SIGTTO

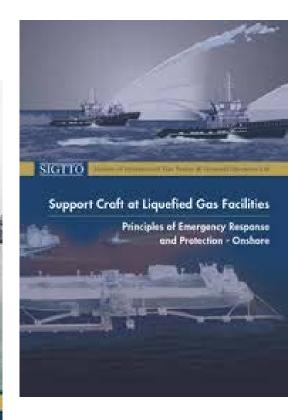
# Jordan Cove Energy Project L.P. is a member of SIGTTO

Liquefied Gas Handling Principles

on Ships and in Terminals (LGHP4)

- To exchange of technical information among its members.
- To share experience.
- To enhance the safety.
- To Achieve Operational Reliability of gas tankers and terminals.





#### SOCIETY OF INTERNATIONAL GAS TANKER AND TERMINAL OPERATORS LTD (SIGTTO)

Site Selection and Design for LNG Ports and Jetties (Info. Paper no. 14)

Site Selection and Design for LNG Ports and Jetties

### "REMOVE AS MANY RISKS AS POSSIBLE"



Software Paper No. 14



Jordan Cove Energy Project L.P. is a member of SIGTTO

LNG terminals should not be sited in areas close to

Coos Bay: 16,295

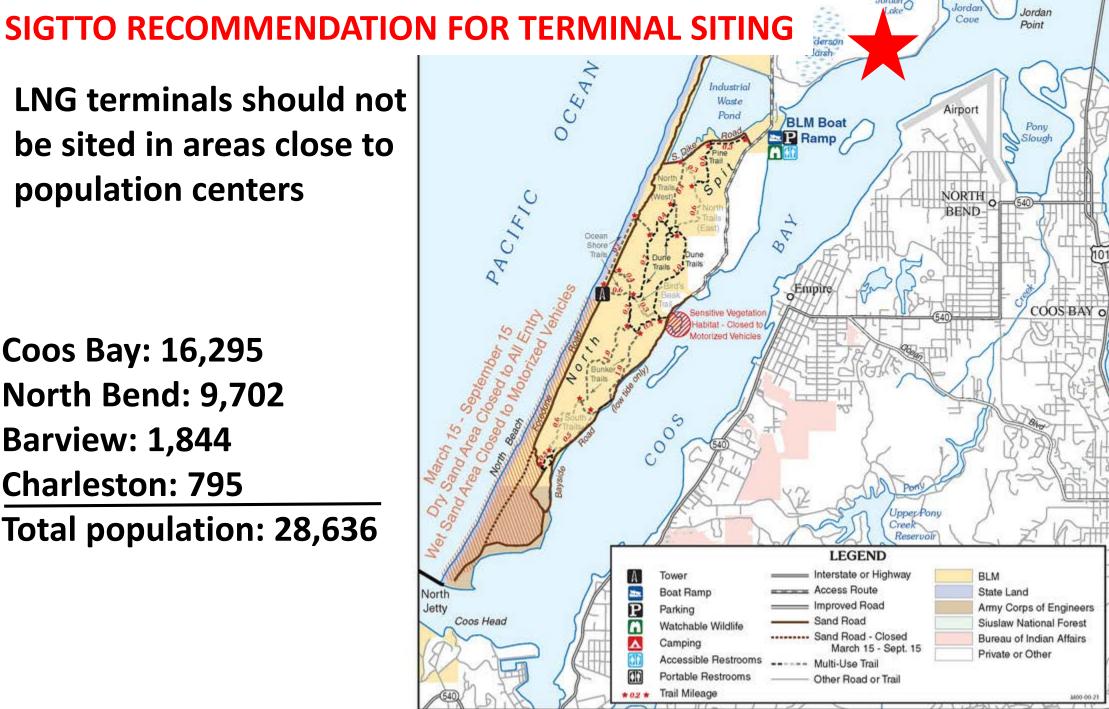
North Bend: 9,702

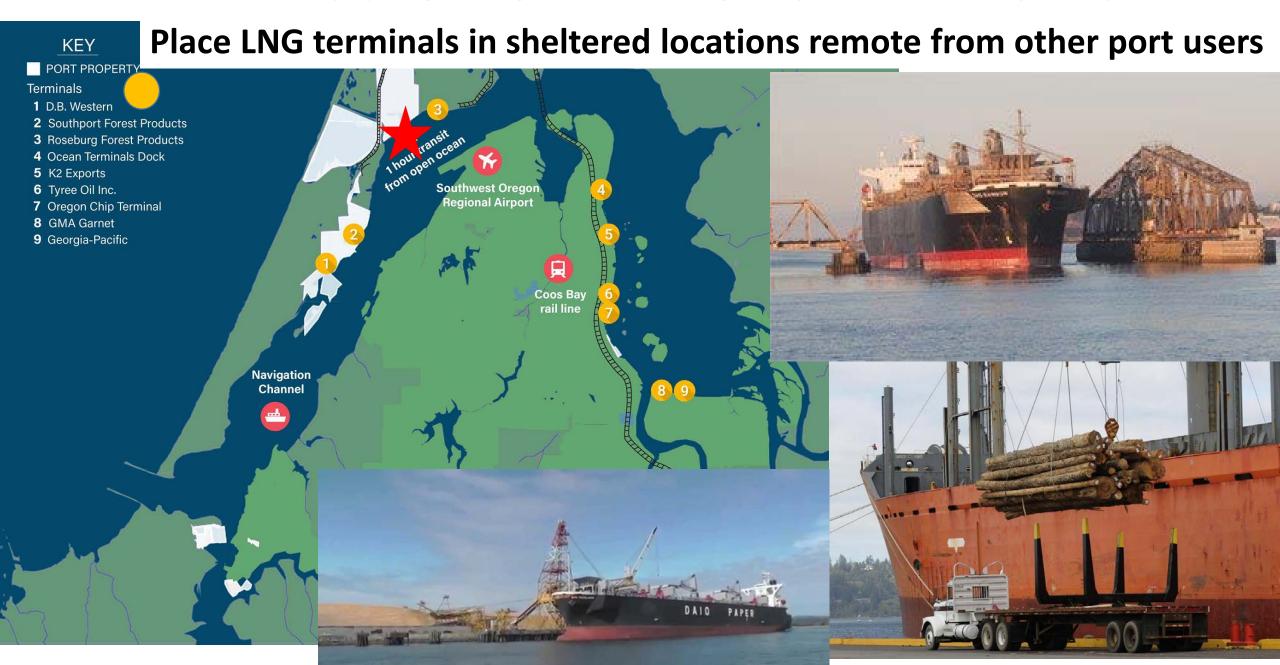
population centers

**Barview: 1,844** 

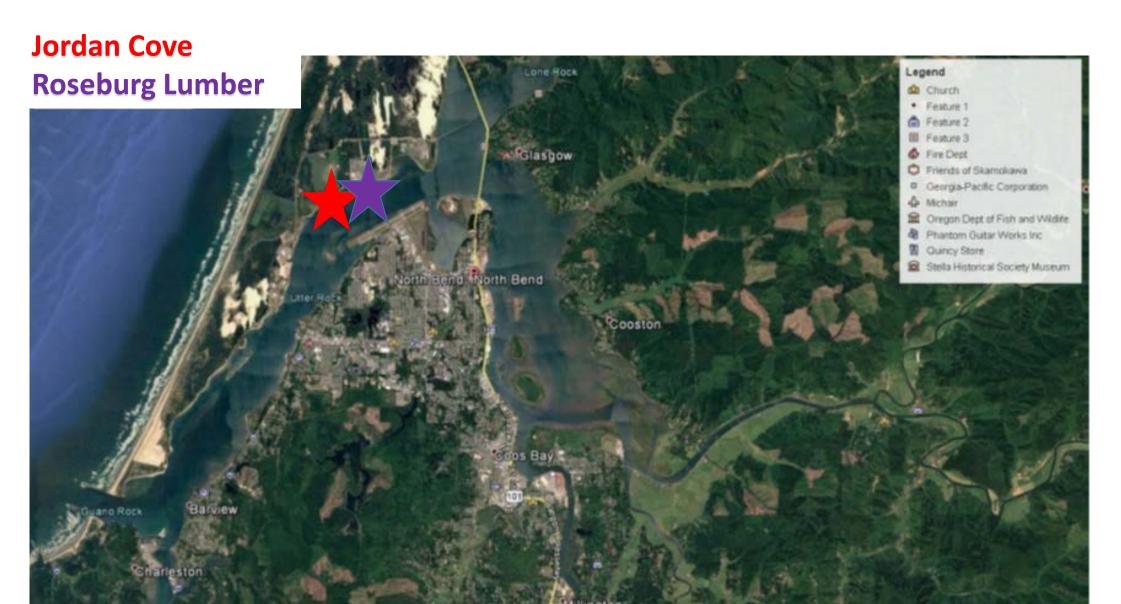
**Charleston: 795** 

**Total population: 28,636** 



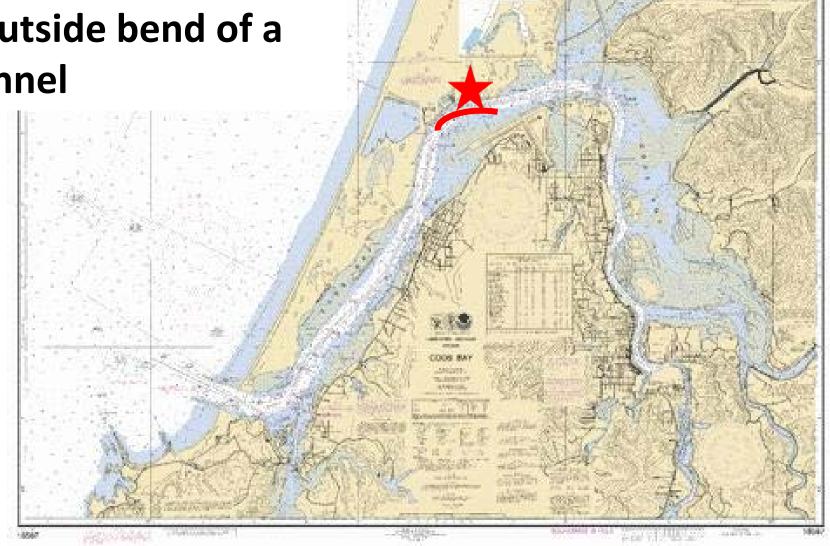


Simultaneous LNG operations and ship movements in adjacent berths should be avoided

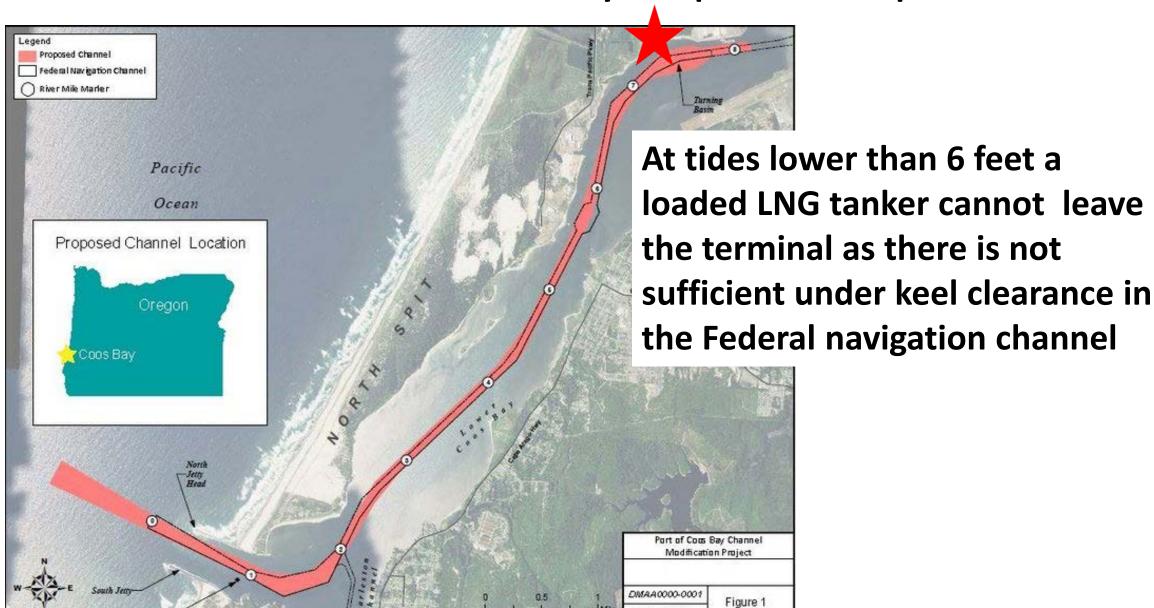


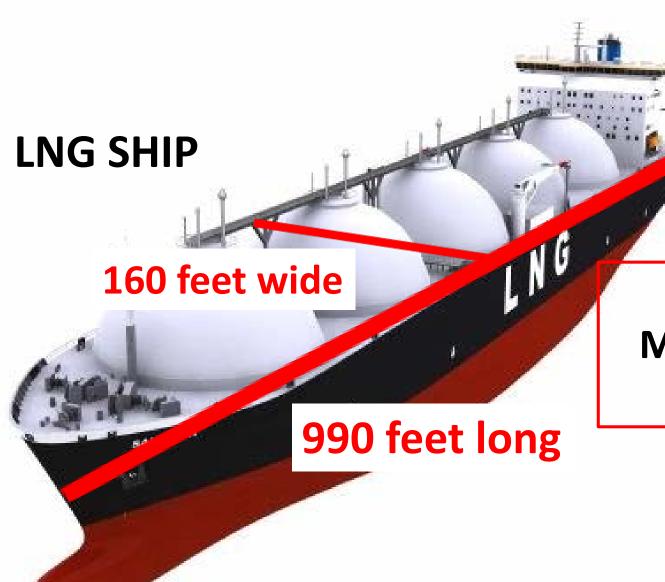
LNG terminals should not be sited on an outside bend of a shipping channel

This minimizes the risk of other ships colliding with a berthed LNG tanker if the ship fails to make the turn



LNG Tankers should have a ready escape route to open water





Harbor channels should have a minimum width equal to five times the width of the largest ship to allow for safe manouvering

160 feet x 5 = 800 feet
Much of the Coos Bay channel is
only 300 feet wide



#### INFO PAPER NO14 IS AVAILABLE ON THE COOS BAY L of WV WEB SITE

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Application of Amendments to Gas Carrier Codes Concerning Type C Tank Loading Limits	£25.00	2012	<b>&gt;</b>
Crew Safety Standards and Training for Large LNG Carriers. Esssential best practices for the industry	£75.00	2003	<b>&gt;</b>
ESD Arrangements & Linked Ship/ Shore Systems for Liquefied Gas Carriers	Free	2009	->
ESD Arrangements & Linked Ship/ Shore Systems for Liquefied Gas Carriers (2009) - Addendum	Free	2017	<b>&gt;</b>
Fire Prevention in the Cargo Containment Systems of Liquefied Gas Carriers in Shipyards	Free	2001	<b>→</b>