# Stormwater Trends: Seattle and Beyond

AAPA Energy and Environment Seminar
Stephanie Jones Stebbins,
Director, Seaport Environmental and Planning
Port of Seattle

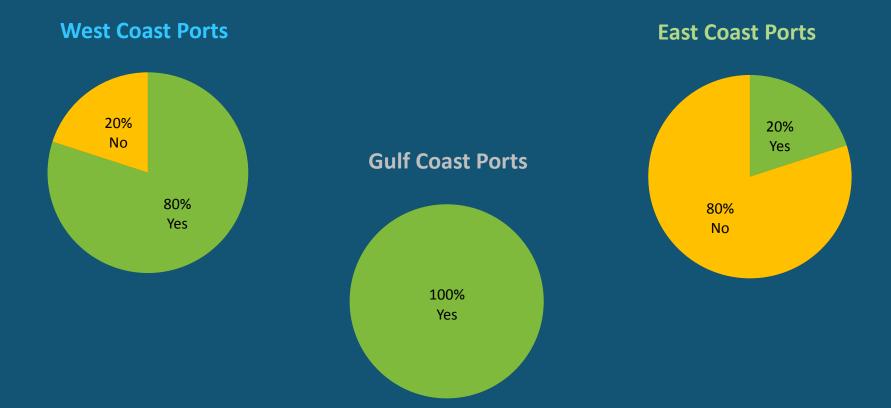


## Port Survey Participants

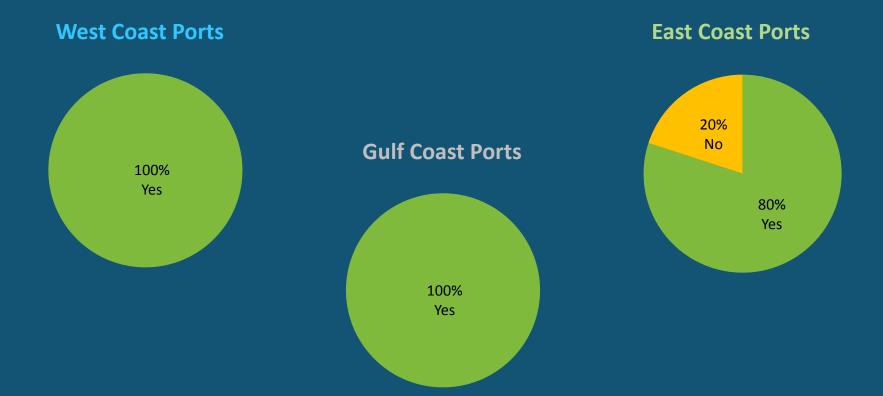


**Gulf Coast Ports** 

## Coverage by municipal permit



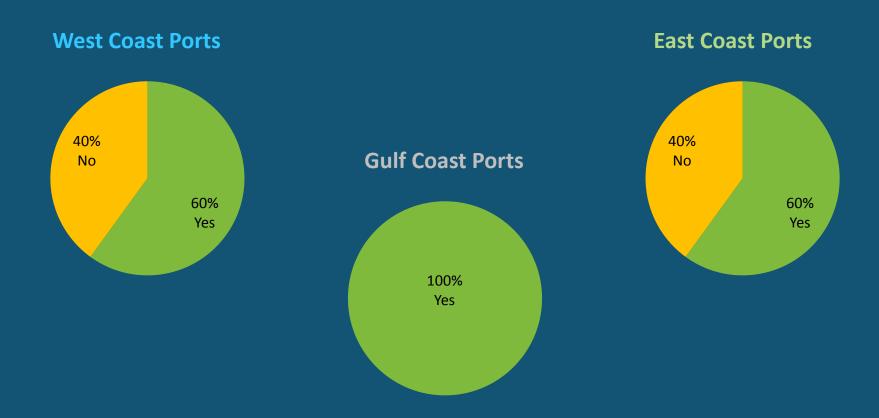
## Industrial Permit Coverage



## Required to conduct monitoring



## Ports and/or tenants required to meet enforceable effluent limits.



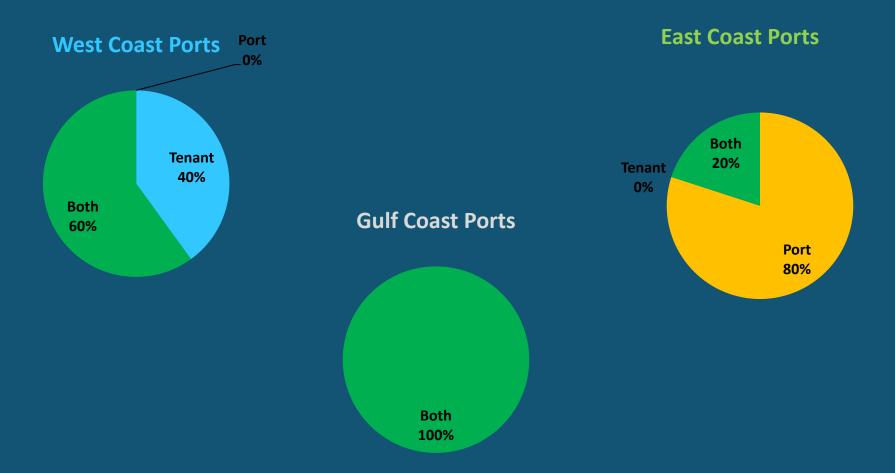
### Ports that receive copies/updates to tenants' SWPPPs.



Ports that have tariffs and lease contract language that require tenants' compliance with port's SWPPP.



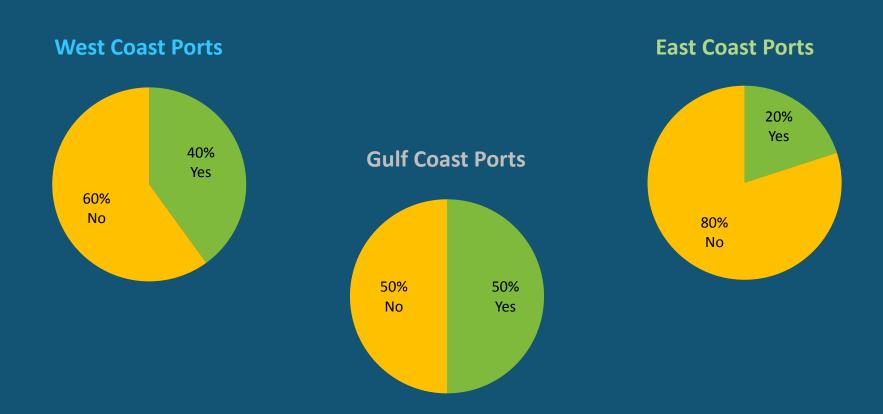
Is Port or tenant responsible for selection, design, installation and/or maintenance of treatment devices or other BMPs?



## Port has participated in verification and testing of new treatment technology.



## Port is subject to Total Maximum Daily Loads, TMDLs.



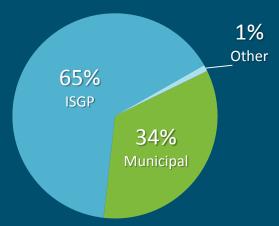


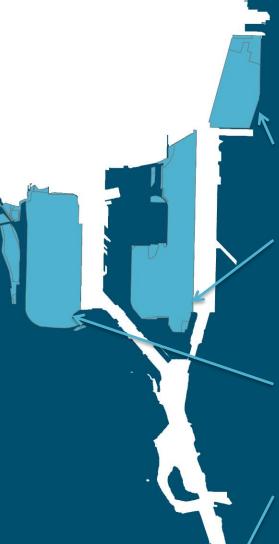
### Permit Coverage

- Phase I Municipal Stormwater Permit
- ISGP Permits
  - \_ 18 Tenant Permits
  - \_ 2 Port Permits
  - \_ Covering 700 Acres
- Other SEA/RE NPESP Permits
  - \_ Individual, Boatyard, Construction

#### **All NPDES Permits**

100% of Permit Coverage at RE/SEA





#### ISGP — Tenants

**T-46:** Port installing Up-flo on 3 of 4 outfalls / ~80 acres

**T-18:** 20 outfalls / ~200 acres: treatment at source locations

T-5: 14 outfalls~160 acres

**T-115:** Chitosan treatment system on 2 of 5 outfalls / ~70 acres

#### Also Treatment needed at:

• T104, T106, T108, T25 & T30

#### ISGP Thresholds

WA State ISGPs contain the most stringent requirements in the country for Zinc & Copper.

#### **Corrective Action Threshold Limits**



#### Stormwater Costs

∕(5-year⁄esti⁄mat⁄e)

ISGP costs

\$50M to 100M Municipal Program

\$10M

Stormwater infrastructure repair & upgrades

\$23M

## Total Stormwater requirements Next 5 years

\$85 to \$135 Million

in SW Requirements

Plus

\$23 Million in SWM fees



\$23 million could be used repair and replaced 16 miles of Port owned stormwater pipes.

### City Stormwater Fees

**SWM Fees to City: 1997 - 2018** 



Port has the same obligations and authority as the City.

#### **Obligations:**

Phase 1 municipal permits

### **Authority**

RCW 53.08.043 expressly grants port districts
 "all of the powers relating to systems of sewerage" that are granted to cities.

#### Port SWM Fees and Expenditures

- Commission approved rates and budget
- Utility spending includes:
  - 80% SIRUP
     Stormwater Infrastructure Repair &
     Upgrades
  - 20% Phase I PermitCompliance & Administration

