

# Environmental Quarterly Update

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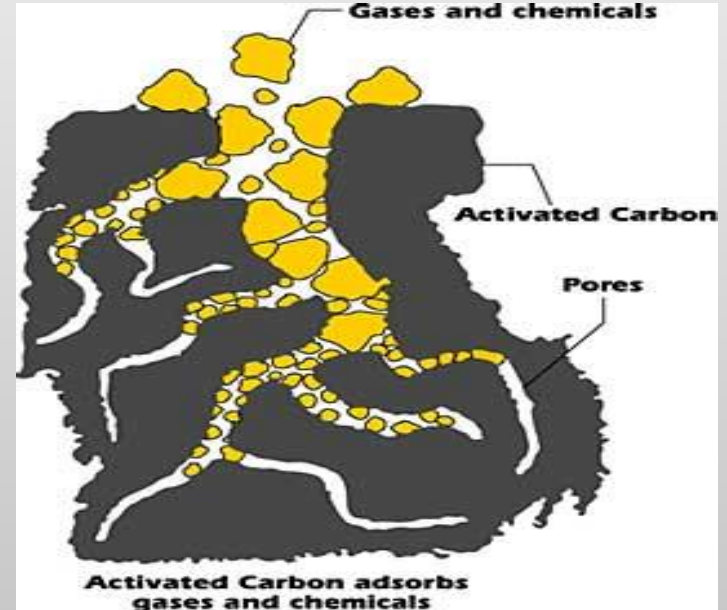
April 25, 2017

# Key Environmental Highlights

- Lower Duwamish Pilot Project
- Salmon Safe Certification
- Waste Reduction & Recycling Improvements
- Program to offset passenger air travel emissions
- Education & Outreach

# Lower Duwamish Waterway Activated Carbon Pilot Project

- An innovative cleanup technology to trap contaminants in waterway sediments
- If successful, can be used more widely
- Placement is complete and monitoring began this year



Pilot Project to inform the Future Cleanup Design

# Water Initiatives

## Salmon-Safe

- Marine Port - Parks
  - 2017
    - Integrated pest management, water shortage contingency, shoreline restoration and more
  - 2018
    - Two stormwater treatment & two restoration projects
- Aviation
  - Salmon-Safe Certification June 6, 2016
  - 2016/17
    - Low impact development guidelines, infiltration feasibility, landscape management plan update, water harvesting feasibility



Projects and procedures to improve salmon habitat

# Reducing Solid Waste

## Airport

- Mandatory **recycling** for airport concessionaires
- Mandatory use of **compostable/recyclable service ware** for concessionaires



## Seaport (P69 & Shilshole Bay Marina)

- Performed waste audits late December 2016
- 2017 goal - Divert an additional 20 tons of garbage



New compostable service ware reduces waste in landfills

# Good Traveler Program

- Good Traveler sells carbon offsets for air passengers
- Developed in San Diego, and launched at Sea-Tac Airport in December 2016



Good Traveler offers public a way to participate as a partner

# Sustainable InSights

- Sharing our initiatives and successes with the public
- Installed messaging with symbols:
  - Column wraps
  - Water refill stations
  - Hanging origami



Messaging helps passengers see sustainability in action

# Looking Ahead

- EPA community pilot project, Duwamish
- Renewable natural gas
- Energy & Sustainability Policy Directive
- Aviation biofuels

There is a lot more to come!



# Resource Slides



# Renewable Energy Projects

- **Aviation**

- Airport Solar Analysis
  - Evaluating sites on and off airport property
  - Prioritizing sites and analyzing glare for pilots
- Continuing to evaluate Renewable Natural Gas (RNG) opportunities



- **Maritime**

- P69 Solar feasibility analysis and Commerce grant application
- CEM Solar analysis with UW Solar/POS Engineering in process



Reducing reliance on fossil fuels and advancing the clean energy economy

# Maritime Solar

## Net Sheds

- Construction funding Approved Q4 2016
- Contracting (BID) Q1 2017
- Construction Q2 2017

<b>kWh Produced</b>	<b>11,000</b>
Deferred utility costs (annually)	\$840
CO <sub>2</sub> Deferred	279 lbs

## Pier 69

- Preliminary Engineering Feasibility Study
- Dept. of Commerce Grant Application: Q1 2017
- Prepare Environmental Analysis for project
- Request Design/construction: Q3 2017

<b>kWh Produced</b>	<b>90,000</b>
Deferred utility costs (annually)	\$7,000
CO <sub>2</sub> Deferred	1.15 MtCO <sub>2</sub>

Exploring Solar Energy Use across Maritime and Real Estate Portfolios

# 2017 Planned Maritime Energy Efficiency Projects

Planned Energy Efficiency Projects	Annual kWh Savings	Savings (\$)	CO <sub>2</sub> (MtCO <sub>2</sub> )
SBM	120,001	9,600	1.5
Jack Block Park	58,390	4,671	0.75
Fishermen's Terminal	419,420	33,554	5.37
Bell Street Parking Garage	TBD	TBD	TBD
<b>2017 Facility Reduction Totals</b>	<b>597,811</b>	<b>\$47,825</b>	<b>7.62</b>

Equivalent to providing 50 homes for a year

Not burning 900 gallons of gasoline

Planning for new energy efficiency projects at additional facilities in the works in 2017

# Environmental Scorecard

- Includes 12 categories
- Green indicates progress, red indicates no progress
- Scorecard will provide focus on metrics for Century Agenda progress



Assists Commission and Public in Tracking our Progress

# Water Initiatives

## Marine Stormwater Utility

### Milestones

- Began Utility-funded infrastructure work, Jan 2016
- Signed interlocal agreement with City of Seattle, Nov 2016
- Utility funds in 2016 = \$4.7M
  - Used to upgrade Stormwater Infrastructure and to manage stormwater

### Utility Work

- Purchased equipment to support work & improve infrastructure – CCTV truck, assessment software, tide gates
- Began stormwater system assessment, cleaning & urgent repairs – upgrade infrastructure will improve runoff quality to Puget Sound
- Progress: 24,444 linear feet (LF) inspected/assessed; 15229 LF cleaned; 69 LF repaired; 15 tide gates installed



Identify Repairs to Improve Water Quality

# Water Initiatives

## Aviation Stormwater Program

- Continued 100% treatment and flow control of Airport runoff
- Retrofitted 20 acre logistics area with LID bioretention treatment swale
- Updates to Airport Stormwater Manual



Advanced stormwater Low Impact Development at Airport

# Reducing Impacts from Transportation

- Electric Vehicle Infrastructure Plan
  - Recommend charging stations for passengers, visitors, and employees
  - Identifies locations, number and level of charging stations
  - Estimate budget and schedule
- Sea-Tac Airport Transportation Access Plan
  - Evaluate range of transportation modes
  - Improve efficiency and advance sustainable transportation modes

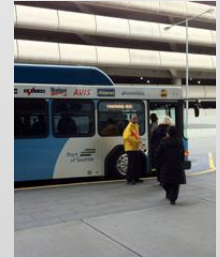


Transportation remains one of our greatest challenges



# Port Employee Transportation

- Port-wide Green Fleet Plan
  - Increase EVs
  - Right size vehicle requirements
  - Improve vehicle efficiency
- Port-wide Commute Trip Reduction Plan
  - Reduce ride-alone trips from employees
  - Increase ridesharing among employees
  - Expand to businesses with employees commuting to port facilities



Using advanced technologies to reduce reliance on fossil fuels