

# A River For All

*Fighting environmental injustice  
and health inequity in Seattle*



Technical Advisory Group

Urban Forest Symposium

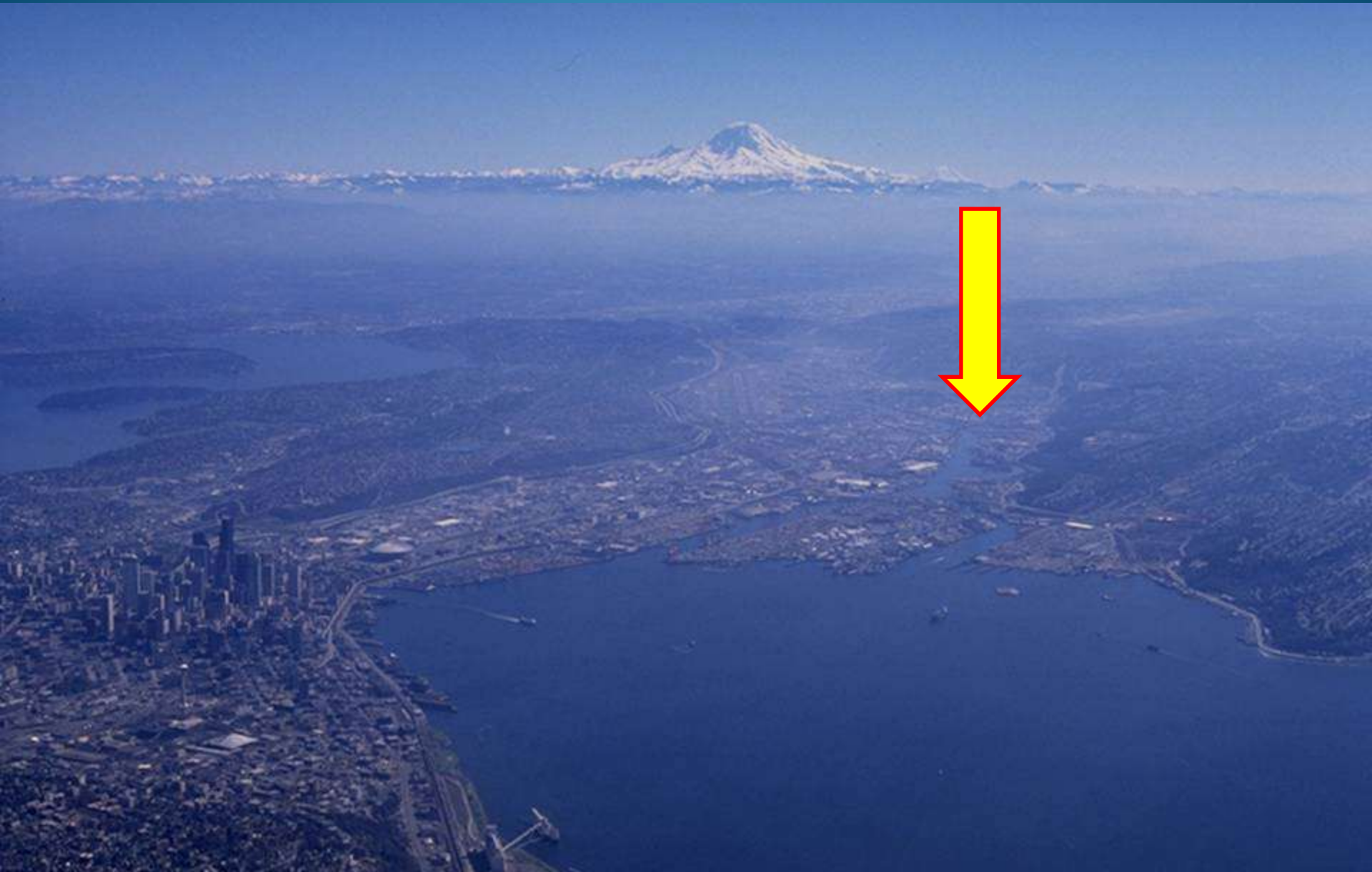
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Paulina López

*Policy and Community Development Manger*

# Duwamish River





# Duwamish River











In 2001, the EPA listed the Duwamish River as one of America's most toxic waste sites.



# Pollutants over WA

## environmental/health standards

Lead  
Mercury

Arsenic

Cadmium  
Chromium

Copper  
Silver

Zinc

PCBs

Dioxins

Anthracene  
Fluorene  
Fluoranthene  
Naphthalene  
Phenol

Pyrene

Pentachlorophenol

N-Nitrosodiphenylamine

Benzo(g,h,i,)perylene

Benzoic acid

Benzyl Acid

Benyl alcohol

Dibenzofuran

Hexachlorobenzene

cPAHs:

- Benz(a)anthracene
- Benzo(a)pyrene
- Benzo(b,k)fluoranthenes
- Dibenz(a,h)anthracene
- Indeno (1,2,3-cd)pyrene
- Chrysene

Acenaphthene

Acenaphthylene

1,2,4-trichlorobenzene

1,4-dichlorobenzene

2,4-dimethylphenol

2-methylnaphthalene

Diethyl phthalate

Di-n-octyl phthalate

Butybenzyl phthalate

Phenanthrene

# WARNING

Bottom-feeding fish, crab and shellfish may be unsafe to eat due to pollution.

El consume de pescado del mar, cangrejos y mariscos puede ser peligroso debido a la contaminación.

Có thể không an toàn để ăn cá dưới đáy biển, cua và hải sản vỏ cứng vì bị ô nhiễm.

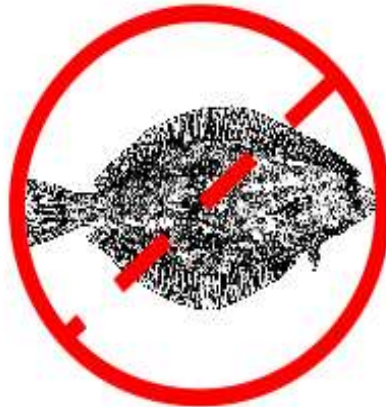
ត្រូវដឹងស្តីពីទេសសំណល់នៅបាតសមុទ្រខ្លះទាំងក្នុង និង សត្វសមុទ្រសត្វនានាខ្លះខ្លាញ់, ល្បែង, ត្រី។ ឈ្មោះ... បរិភោគអាច មានគ្រោះថ្នាក់ ដោយសារតែទេសសំណល់ទាំងអស់នោះក្រឡាត់ ។

ປາຢູ່ພື້ນນ້ຳ, ກະປູ ແລະ ຫອຍອາດຈະບໍ່ປອດພົບ ທີ່ຈະກິນບ້ອນນ້ຳເປືອນ

由於污染，底棲魚、螃蟹和有殼水生物可能食用不安全。

오염으로 인해, 바닥 어류, 게 및 조개를 섭취하는 것이 해가 될 수 있습니다.

В связи с загрязнением среды рыбы, которые обитают на дне, а также крабы, моллюски и ракообразные могут быть небезопасны для употребления в пищу.



It is not safe to eat even a single meal of resident seafood from the Duwamish River



# Impacted Communities





# Impacted Communities





- Air quality is poor, with diesel particulate concentrations twice as high as the county average.
- Related health indicators, such as asthma, are extremely troubling; childhood asthma hospitalization rates are nearly 40% higher than the Seattle average
- A closer look at life expectancy in the neighborhoods of South Park and Georgetown alone show that life expectancy is eight years shorter than the city and county average, and a full **13 years shorter** than for residents of Magnolia.
- Also, The neighborhood of South Park has the highest number of children per capita in the city. Citywide, 45% fewer teens are employed than in 2000, with disproportionate impacts on low-income, multi-child families

98108 Health Disparities

# Who is deciding our future?

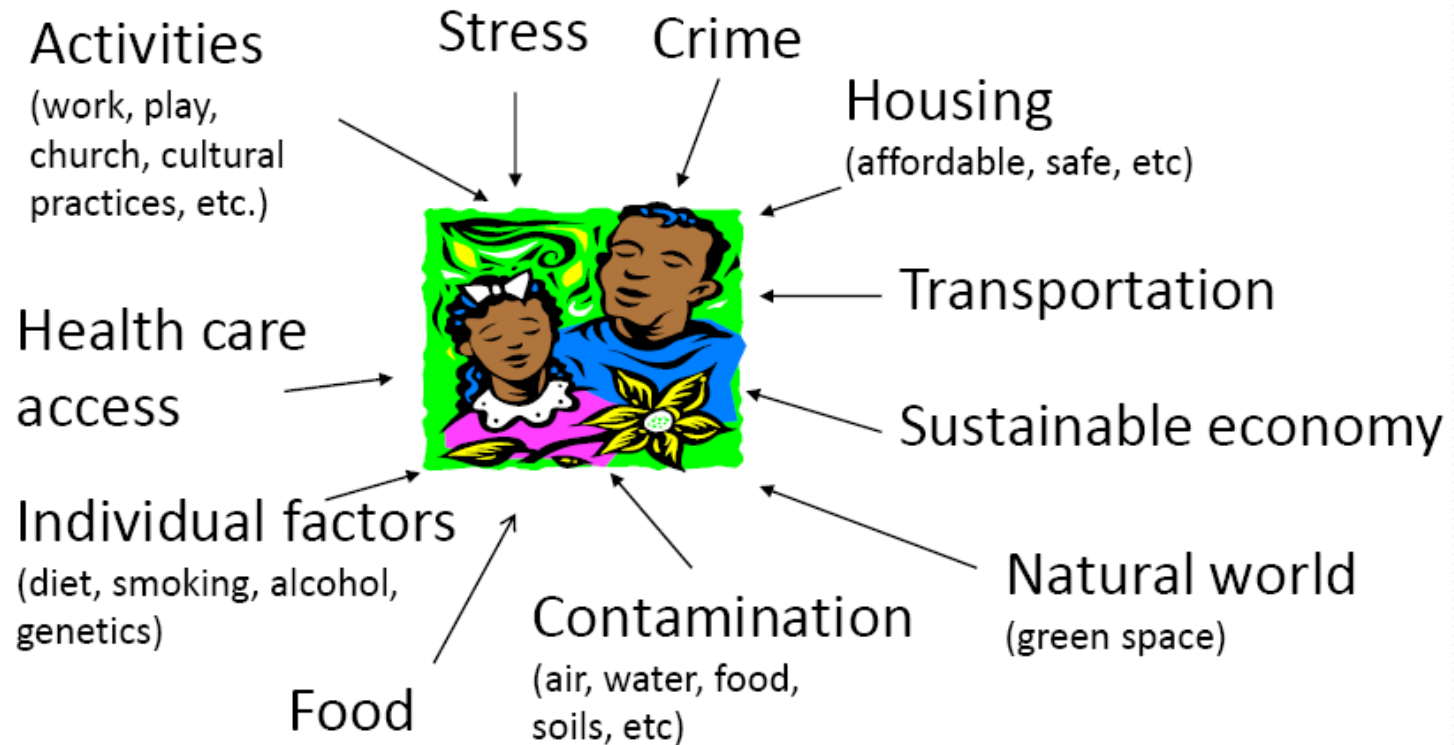




# What does the “community” need?



# ENVIRONMENTAL JUSTICE



***“The environment is everything: where we live, work, play, go to school, as well as the physical and natural world. And so we can’t separate the physical environment from the cultural environment.”***

*(Robert Bullard, 1999)*





# Cumulative Effects - Imagine



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# OR.....



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# We CAN speak for ourselves!



# We hope for...





# Questions?



# Thank you!



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