

Sinclair and Dyes Inlets Fecal Coliform TMDL Community Advisory Committee June 14, 2007

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ENVVEST Partnership -- Naval Shipyard, Ecology, EPA

Ecology role - State agency designated by EPA to protect Water Quality (Clean Water Act)

- Review Navy Technical Design
- Address TMDL Requirements & Public Process
- Represent State Interest in Water Quality

Water Quality Standards

Protect These Beneficial Uses

- **Shellfish Harvest**
- **Fishing**
- **Contact Recreation**
 - **Swimming**
 - **Boating**
- **Aquatic Life (Fish & Wildlife Habitat)**
- **Shoreline Development**
- **Commercial & Industrial Activity**
 - **Shipping**
 - **Marinas**
 - **Shipyards**



Sinclair and Dyes Inlets TMDL (Water Quality Improvement Plan)

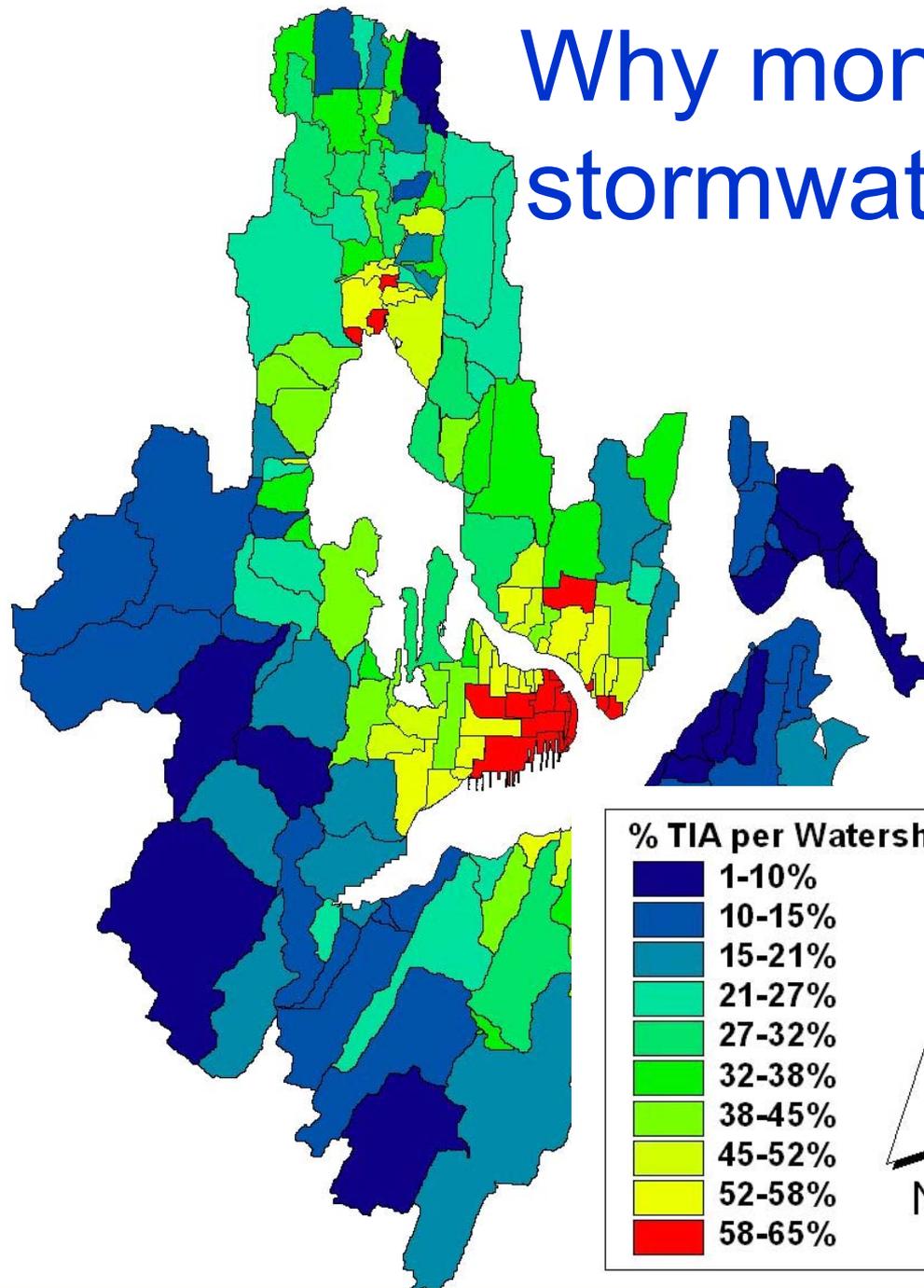
- **Goal -- open areas to shellfish harvest**
- **Study – determine most important sources of bacteria**
- **Plan to reduce bacteria – collaborate with Tribes & local organizations**



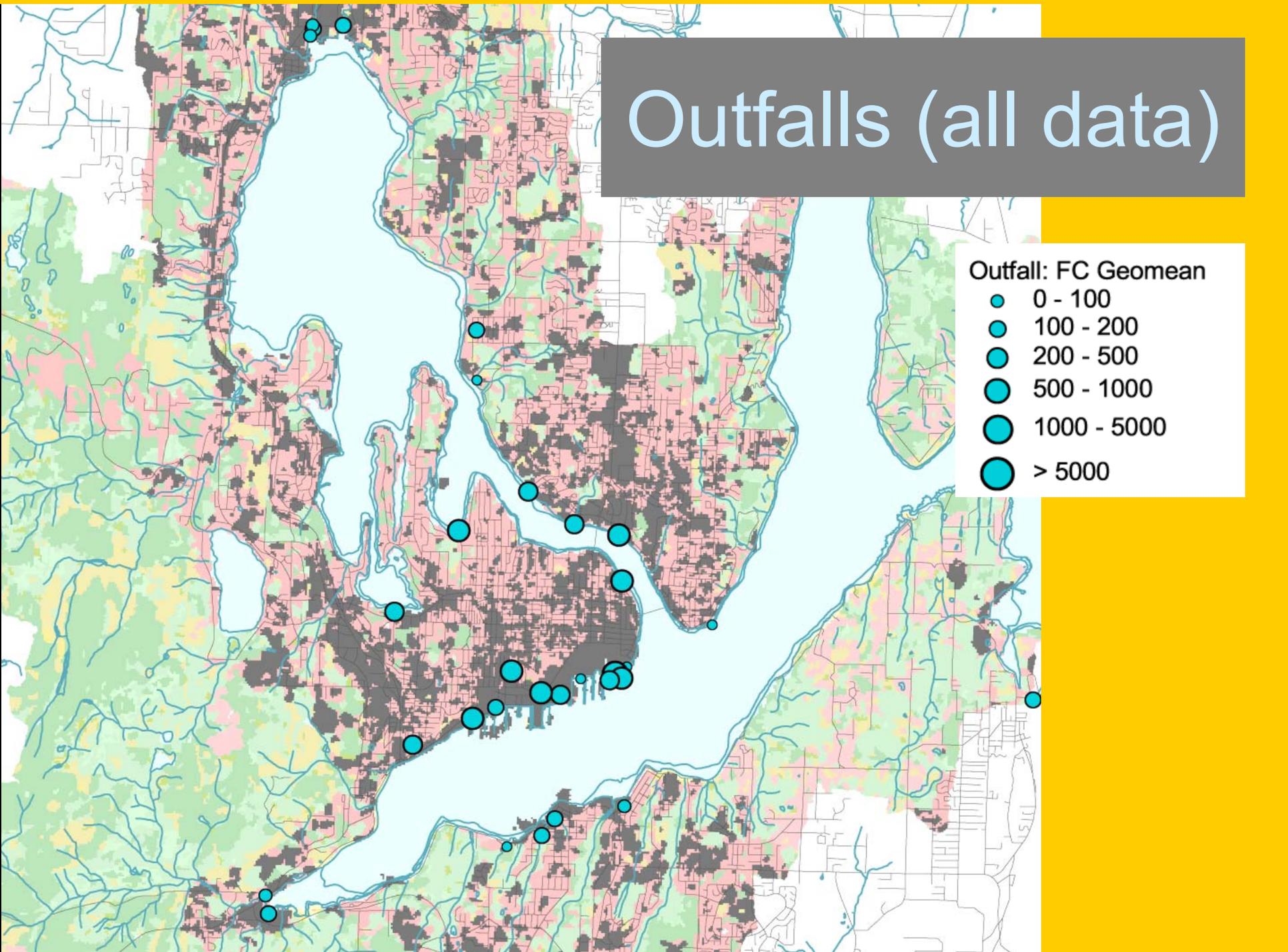
Sinclair and Dyes Inlets Fecal Coliform TMDL

- **Ecology's role -- Review Navy model – Define critical conditions for TMDL model runs**
- **Outcome of modeling – determine load allocations, wasteload allocations**
- **Implementation plan –**
 - **Requirements (stormwater permittees and municipal sewage treatment facilities)**
 - **Recommendations**

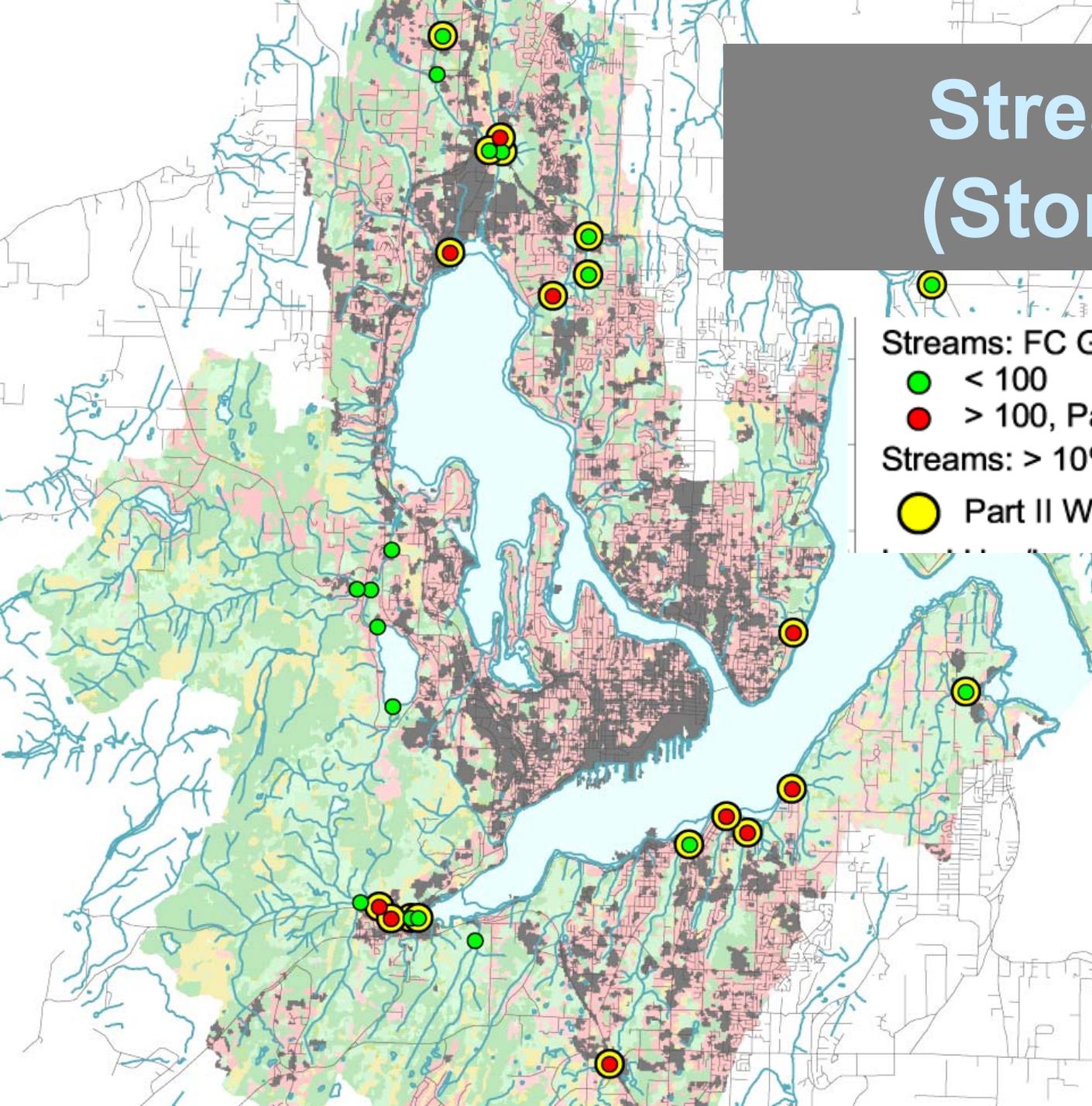
Why monitor stormwater?



Outfalls (all data)



Streams (Storms)



Streams: FC Geomean

● < 100

● > 100, Part I WQS Violation

Streams: > 10% of samples over 200

● Part II WQS Violation

Implementation Plan

Nonpoint Sources

- **Current programs (Kitsap Health PIC) to address bacteria inputs to streams**
- **Kitsap Conservation District – livestock Best Management Practices**
- **Shoreline sources – boats and marinas**
- **Education – public awareness**

Implementation in Urban Areas

Kitsap Health District Lessons

Dyes Restoration Project

- Outreach/ assist commercial property owners – good housekeeping practices, inspect stormwater system
- Water quality sampling to identify priority areas and track progress



Implementation Plan – Point Sources

- **Bacteria sources dictate strategies**
- **Stormwater as source/conveyor – Ecology's new stormwater permit for smaller municipalities**
- **Stormwater permittees will have permit requirements (Best Management Practices – EPA guidance)**
- **Wastewater treatment plants could have reduced effluent limits for bacteria**

Implementation

Municipal Stormwater Programs

- **Public outreach & education**
- **Public involvement**
- **Illicit Discharge Detection & Elimination**
- **Municipal O & M**



Implementation Plan

Next Steps

- **Fall 2007 – Outline of implementation strategy (Advisory workgroup)**
- **Role of permittees**
- **Role of watershed organizations**
- **Requirements for stormwater permittees**
- **Additional recommendations supported by advisory workgroup**

Contact information

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*DYES
INLET*