Role of Technical Advisory Committee (TAC)

Made up of representatives from government, Tribes, & non-profits

Provide technical input during PLA development

- Participate in meetings
- Review documents
- Provide input on models & data gaps
- Ensure local interests are represented
TAC Meetings Overview

PLA Goals and Objectives - see poster

TAC Meetings # 1-6

Today’s Meeting #7 - New work:
Draft initial modeling QAPP
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 am</td>
<td>Welcome &amp; Introductions</td>
</tr>
<tr>
<td>9:10 am</td>
<td>Overview of Project Status and Draft QAPP</td>
</tr>
<tr>
<td>9:45 am</td>
<td>QAPP – LSPC</td>
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<tr>
<td>10:20 am</td>
<td>Break</td>
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<tr>
<td>10:35 am</td>
<td>QAPP – EFDC</td>
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<tr>
<td>11:15 am</td>
<td>QAPP – Food Web, Data Management</td>
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<tr>
<td>11:35 am</td>
<td>Comments from Audience</td>
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<tr>
<td>11:45 am</td>
<td>Next Steps</td>
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<tr>
<td>11:55 am</td>
<td>Wrap-up</td>
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<tr>
<td>12:00 pm</td>
<td>Adjourn</td>
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Green-Duwamish Watershed Pollutant Loading Assessment (PLA)

Goals

1. Address water, sediment, and tissue quality impairments under the Clean Water Act.

2. Prioritize pollutant reduction efforts to minimize recontamination of remediated LDW sediments.
PLA Objectives

• Develop a modeling tool to assess pollutant loads from different sources (point and diffused).
• Better understand the relationship between water, sediment, and fish tissue quality.
• Predict improvement in water, sediment, and tissue quality expected to occur as a result of management actions.
• Improve effectiveness of Monitored Natural Recovery, one of the LDW in-waterway sediment remedial actions, which is dependent on cleaner upstream sediments depositing in the LDW.
Goal 1 re: Clean Water Act

- Clean Water Act Section 303(d) responsibility: Restore impaired waters
- EPA’s 303(d) Program Vision
  - Acknowledges that tailored strategies to restore & protect designated uses may be appropriate alternatives to a traditional TMDL if they are faster and more practical
  - Allows States to prioritize alternative water quality restoration & protection plans
TMDL Alternative Restoration & Protection Plan: Green-Duwamish Toxics

- Encompasses many actions underway...
  - Lower Duwamish Waterway sediment cleanups (early actions & river-wide)
  - Source control activities & implementation plans (studies, NPDES permits, upland site cleanups)
  - Combined Sewer Overflow (CSO) control projects
  - PLA model development

- And potential actions under development
  - Green/Duwamish Strategy – Regional Stormwater Strategy
  - WRIA 9 Salmon Habitat Recovery Plan update
PLA Activities (2015)

• Technical Advisory Committee meetings
  – 6 meetings between Dec. ‘14 & June ‘15
• Interested Party Meeting
• Technical consultant memos
  – Existing Data & Model Evaluation (2/2015)
• Input for the EPA & Ecology Project Team
  – Project phasing, funding concerns
  – Coordination with local expertise
*Modelling QAPP will be updated as needed to reflect changes in the project over time. Two versions are shown here; additional versions may be necessary.
PLA Project Phasing

<table>
<thead>
<tr>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Modeling QAPP*</td>
<td>PCB congener evaluation</td>
<td>Database Development</td>
<td>Watershed Loading Estimates (empirical)</td>
</tr>
</tbody>
</table>
PLA Activities 2016-2017

- Ecology funding status
  - USGS water and sediment quality sampling at river miles 11 & 6 suspended
  - PCB congener report and database delayed
  - PCB congener assessment on hold
  - Contractor facilitation services unavailable

- Funding & schedule update pending
PLA Activities 2016-2018

• EPA funding status
  – Draft Modeling Quality Assurance Project Plan (QAPP)
  – Initiate model development focused on hydrology/hydrodynamics in watershed model (LSPC)

• Future funding priorities
  – Database development
  – Data assessment to prepare for future water quality model development
PLA Activities 2016-2017: QAPP

• QAPP Background
  – QAPPs are required for modeling projects
  – Unique aspects of this project and this QAPP
  – Benefits of a good QAPP
QAPP Next Steps

• Soliciting review/feedback
  – Emphasize watershed model since it is first in line
  – Two buckets: things we can and cannot revise now
  – Revise QAPP: major revisions reported back to TAC
  – Down the road: QAPP update on toxics & other new developments

• Tetra Tech starts compiling data
• QAPP finalization
• Watershed model development
Transition to QAPP Slides
Comments from the audience
Next Step

2019
- Sediment Transport
- EFDC Sediment Transport
- Modeling QAPP Update*
- LSPC Toxics

2020
- LDW Food Web Model
- Evaluate Management Scenarios

2021
- EFDC Toxics

2022
- 2023
- 2024
QAPP Comment/Feedback

• **TAC**
  – Send written comments by April 29\textsuperscript{th} (Friday)
  – Will be collected and incorporated into a future QAPP update.

• **Posted QAPP on website for public feedback**
Meeting schedule in 2016

- April 6th
  TAC Meeting #7

- June/July
  TAC Meeting #8
  - Continue QAPP discussion

- September
  TAC Meeting #9
  - Hydrodynamic Model

- December
  Interested Parties
Wrap Up

Do we need another meeting to discuss the QAPP?

Does the first Wednesday morning of the month work for scheduling?

Presentations and Meeting Notes and other project information may be found on website: http://www.ecy.wa.gov/geographic/GreenDuwamish/pla.html