

**401 Permit Decision-Making
Sea-Tac International Airport, Third Runway**

FINAL DRAFT MEETING NOTES

LOW FLOW ANALYSIS

**April 4, 2001
1:00 – 4:00**

These draft meeting notes have been prepared by Rachel McCrea, Floyd & Snider Inc. Please reply to Rachel at (206) 292-2078, fax (206) 682-7867, with comments on the accuracy of these notes by 5pm, Friday, 4/13/01.

ATTENDEES

Ann Kenny, Dept. of Ecology
Kevin Fitzpatrick, Dept. of Ecology
Dave Garland, Dept. of Ecology
Kelly Whiting, King County
Rick Schaefer, EarthTech

Keith Smith, Port of Seattle
Paul Fendt, Parametrix
Tom Atkins, Parametrix
Joe Brascher, AquaTerra
Kate Snider, Floyd & Snider Inc.
Rachel McCrea, Floyd & Snider Inc.

MEETING SCOPE AND AGENDA

The purpose of this meeting is to scope the technical questions and comments related to the low stream flow impact analysis, excluding items related to operational plans and maintenance for the augmentation facilities. This includes King County comments on surface water modeling and non-hydrological effects, as well as Ecology comments on the modeled groundwater contributions (e.g. results of slice model). The goal is to reach conclusions regarding the potential need for additional work product related to low stream flow impacts.

The technical questions and comments reviewed include:

- King County Enclosure 2, Checklist Group 6, #s 1, 2, 3, 5, 7, and 8
- King County Enclosure 2, Checklist Group 3, #s 5 and 6
- King County Enclosure 2, Checklist Group 2, #s 13 and 14
- Ecology Memo from Dave Garland (March 9, 2001), page 3, Recommendation #3

ECY00007412

KING COUNTY ENCLOSURE 2, CHECKLIST GROUP 6

1. The Port will verify the origin of the 1994 instream flow calculations and will provide Ecology and King County with the input files and the landcover tables.

Corrections being made to the Stormwater Master Plan may ripple to the 2006 values used in the low stream flow analysis. If applicable, the revised material will be used in the HSPF remodeling of low flow conditions and will be provided to King County and Ecology.

2. A small technical meeting will be held with K. Whiting, J. Brascher, P. Fendt and P. Ellingson to walk through a water flowchart in order to determine what water was counted in each model. Final water balance materials will be developed by the Port and submitted to King County and Ecology.

The Port will clarify the logic found on page 8 regarding how the 7-day, 2-year low flow contribution was determined to be 75% of the average increase from fill discharge.

3. This item was discussed and clarifications were provided to King County. This item is related to #2, above.
4. Operational plan comments were not covered in this meeting.
5. The Port will revisit assumptions for the Smith property and non-respondents.
6. Maintenance comments were not covered in this meeting.
7. Refer to #1, above.
8. This item is addressed in the ongoing SMP process for Miller Creek.
9. Upper Walker Creek gauge 42C will be included in Table 6-3A of the SMP, and data from that gauge will be evaluated for use in confirming existing instream flow data used in the low flow analysis.

KING COUNTY ENCLOSURE 2, CHECKLIST GROUP 3

5. Refer to #2, above.
6. Refer to #5, above.

KING COUNTY ENCLOSURE 2, CHECKLIST GROUP 2

13. The Port will reassess low flow statistics based on SMP Walker Creek revisions.
14. The Port will verify assumptions regarding groundwater in the offsite basins in order to assess the effect of new impervious surfaces in the 2006 model. The results of this effort will be discussed related to SMP Deliverable 4.

ECY00007413

ECOLOGY MEMO FROM DAVE GARLAND, RECOMMENDATION #3

Ecology requested that a memo from the Port be submitted in 1 week proposing a process for segmenting the embankment for slice analyses that would take into account the varying thickness of the embankment. Based on that proposal, Ecology will make a determination regarding additional modeling to increase the representative nature of the slice model's results regarding the embankment's offsetting effects. The proposal will be presented to Dave Garland and Ann Kenny by Pony Ellingson (PGG).

NEXT MEETING

A future meeting of the low flow technical group will be scheduled, potentially for the week of April 16, 2001. Agenda will include:

- Action items from the small meeting regarding water balance
- Action items from the slice model proposal
- Discussion, if determined appropriate by Ecology, of maintenance and operations comments

ECY00007414