

Sea-Tac Airport Third Runway 401 Permit Negotiations

FINAL DRAFT MEETING NOTES

October 24, 2000

1:30 – 5:00

These draft meeting notes have been prepared by Rachel McCrea, Floyd & Snider Inc. Please reply to Kate at (206) 292-2078, fax (206) 682-7867, rachelm@floyd-snider.com with comments on the accuracy of these notes by 1pm, Monday, 10/30/00.

ATTENDEES

Kelly Whiting, King County
Mark Lampard, King County
Joe Brascher, AquaTerra
Rick Schaefer, Earthtech

Paul Fendt, Parametrix
Jim Dexter, Parametrix
Alan Black, HNTB
Rachel McCrea, Floyd & Snider Inc.

MEETING AGENDA OVERVIEW

- Review Comments on and Status of SMP Basin Deliverables/Action Items

DEFINITION OF TERMS USED IN THESE NOTES

Resolution (general): The use of variations of the term "resolution" are for the purposes of these negotiations and refer only to the work of these technical negotiations between the Port of Seattle and the Department of Ecology. The terms are not intended to imply that, through these negotiations only, any issue has reached "final" resolution. Final resolution is subject to Ecology's receipt and approval of necessary documentation, subsequent public review and comment, evaluation of public comment and the final permit decision.

Resolved: The term "resolved" is used in these notes to mean that subsequent discussion of the issue is not necessary in these negotiations. This term assumes that subsequent documentation submitted on these issues will be consistent with the meeting discussions, and be adequate for public review.

Resolution Pending Review of Additional Information: This phrase is used to indicate that a possible or likely solution to the issue was identified in the meeting. Additional information will be submitted for review, and further discussion in these meetings will determine whether the issue is "resolved".

Action Items Defined for Further Discussion: This phrase is used to indicate that the issue was discussed, and action items defined for the production of additional information or documentation. Following submittal of such additional information, the issue requires further discussion.

DOCUMENTATION OF NEGOTIATIONS: MASTER LIST OF ISSUES

Ecology and the Port have agreed to maintain a single "master list of issues" that is updated at each meeting during these negotiations. It has been agreed that individual participants in these negotiations will not maintain other lists of issues separate from this master list. The following summary table is used to document this master list of 401 Permit technical issues.

All issues are included on the list that have been identified by the Port or Ecology for resolution prior to issuance of the 401 permit. Resolution of these issues is the purpose of these technical negotiations. It is recognized that additional issues requiring resolution may be identified through public comment.

Definition of these issues and actions to resolve are included in meeting notes. Any comment on this master list of issues should be directed to Kate Snider at Floyd & Snider.

401 Technical Issues Requiring Resolution	RESOLVED	RESOLUTION PENDING REVIEW OF ADDITIONAL INFORMATION	ACTION ITEMS DEFINED FOR FURTHER DISCUSSION	NOT YET DISCUSSED
Administrative				
• Documentation, master list of issues	✓			
1. Stormwater Master Plan – Detention Sizing				
Key Issues Discussed 10/2				
• Basin Acreage Discrepancies	✓			
• Use of different Target Flow Regimes for different basins	✓			
• Permeability assumptions of Airport fill material	✓			
• Infiltration evaluation of existing pond locations	✓			
• Project effect on Base Flows		✓		
• Use and documentation of HSPF and KCRS models		✓		
• North Employees Parking Lot		✓		
• SDW2 land use conditions	✓			
• SASA facility volumes		✓		
• SASA facility compliance with KC off-site flow criteria		✓		
• SDS-7, SDS3-A, SDS-3, SDS-2, 5, 6 collection areas		✓		
• New information for Walker Creek calibration		✓		
• IWS model input consistency with SMP	✓			
• SDE-3 conditions	✓			
Add'l Issues Discussed 10/6				
• IWS Pump station overflow modeling		✓		

401 Technical Issues Requiring Resolution	RESOLVED	RESOLUTION PENDING REVIEW OF ADDITIONAL INFORMATION	ACTION ITEMS DEFINED FOR FURTHER DISCUSSION	NOT YET DISCUSSED
• IWS Pump station land use values	✓			
• IWS Pump station routing of water quality design storm		✓		
• IWS Lagoon capacities	✓			
• Modeling of potential IWS Lagoon overflow		✓		
• Filter Strip BMPs	✓			
• IWS treatment performance	✓			
• SDN1-OFF	✓			
• SDN-6 Cargo	✓			
• SDW1B impacts to Wetland 39B	✓			
• Des Moines Creek Basin Plan consistency	✓			
• All items in the 9/14/00 King County comment letter not specifically listed above	✓			
2. Flow augmentation for Des Moines Creek	✓			
3. Potential South Access Road impacts to Tyee Pond		✓		
4. Borrow Site #3 hydrology		✓		
5. HPA / 401 issuance relationship	✓			
Add'l Issues Raised by Ecology on 10/10				
• Potential impacts of SR 509 Interchange		✓		
• Potential aquitard breaches in Walker Creek basin		✓		
• Runway De-icing / Dissolved Oxygen study		✓		
• Compliance with Kludt settlement	✓			
• Contaminated soil stockpile facility	✓			
• Structural feasibility of proposed big vaults	✓			
• NEPA /SEPA revision timing	✓			
Natural Resources Mitigation Plan (Issues raised by Ecology on 10/10, discussed 10/13)				
• NRMP consistency with SMP	✓			
• Maintenance of wetland 18, 37, 39B hydrology	✓			
• NRMP incorporation of technical responses to previously identified issues		✓		

401 Technical Issues Requiring Resolution	RESOLVED	RESOLUTION PENDING REVIEW OF ADDITIONAL INFORMATION	ACTION ITEMS DEFINED FOR FURTHER DISCUSSION	NOT YET DISCUSSED
• S Access Road/Tyee Pond Impacts		✓		
• Vacca Farm floodplain habitat design elements	✓			
• Stormwater pond cross sections	✓			
• Performance standards	✓			
• Documentation of indirect impacts	✓			
• Wetland delineations	✓			
• Documentation of Miller Creek buffer	✓			
• Fencing/signage for buffers/mitigation areas	✓			
• Restrictive Covenant for Auburn mitigation site	✓			
• Buffer planting in area of potential RDF	✓			
• Wetland impact analysis of IWS expansion	✓			
• Source of irrigation water for mitigation areas	✓			
• Mitigation Fund	✓			
NPDES Major Modification	✓			
Add'l Issues Raised by Ecology on 10/20				
• Timing of Corps public notice	✓			
• Temp. const. staging area w/in SASA footprint		✓		
• Water quality BMPs (401/402)	✓			
• Lagoon #3 potential direct impacts	✓			
• Add'l wetlands on Auburn site	✓			
• 401 relationship to A.O./Gov. Cert. for MTCA GW study	✓			
• Potentially contaminated properties in S. Runway Protection Zone	✓			
• Soil Quality at Borrow Sites	✓			
• Potential confirmation of groundwater quality w/in embankment			✓	
• Construction stormwater management	✓			
• Clean Air and CZM	✓			
• Compatibility of potential RDF and Tyee mitigation	✓			

STORMWATER MASTER PLAN ACTION ITEM UPDATES

BASIN UPDATE: DES MOINES CREEK

RESOLUTION PENDING REVIEW: King County received and reviewed the Des Moines Creek Basin package that did not contain the latest model information for SASA. King County will review SASA and provide comments as necessary (to be discussed Friday 10/27). Overall, the material presented in the Des Moines Basin deliverable meets performance goals and none of the comments provided and listed below would change the outcomes/pond sizes presented in the material. Results from the discussion of the deliverable include:

- Consistent approach between basins needed for including or not including existing large storage facilities in the model for predeveloped conditions. King County has no preference. Parametrix will evaluate whether to include or to exclude these facilities.
- Parametrix will clarify and address discrepancies in input files (basins DM3, DM9, DM14).
- Parametrix will include a stage corresponding to riser overflow in the summary table of KCRTS/HSPF comparison. King County recommends including a stage at which every orifice kicks in.
- Parametrix will clarify when presenting volumes in F Tables, Appendix C and SMP whether the volume refers to volume of storage provided (top of riser) or to volume of storage at a maximum modeled stage. Parametrix will ensure that volumes presented in the model and Appendix C are the same (F Tables 40, 43).
- Parametrix will clarify which are and which are not overflows, why, and ensure that they are modeled consistently.
- King County recommends including a stage at 17.5 feet in SDS-3.
- Parametrix will double check that the 256 discharge combines with the 98 ac/ft discharge before releasing and clarify this in the schematic and model.
- Parametrix will review pre- and post- land use values in off-site basins (DM3, 4, 6, 7, 9, 10, 11, 12, 13, and 22) to make values consistent or clarify why values are different.
- Parametrix will adjust duration plots to capture points in the range of flows that are most pertinent (adjustment to User-defined class limit and check of data set re: annual peaks).
- Parametrix will label the location of the POC in the model.

BASIN UPDATE: WALKER CREEK

RESOLUTION PENDING REVIEW: Walker Creek Basin pond sizing / HSPF and KCRTS model runs will be delivered to King County today. Calibration documentation (revised Appendix B) prepared by J. Brascher will be transmitted by email to King County 10/25.

BASIN UPDATE: MILLER CREEK

RESOLUTION PENDING REVIEW: Source of error in runoff files still unknown. Problem could be in either KCRS or HSPF runoff files. Materials provided to King County (in two partial "works-in-progress" submittals 10/22 and 10/24) include pond sizing according to HSPF model, excluding NEPL. King County review of provided materials (in HSPF) will not begin until source of error in runoff files is found in case the problem is determined to be in HSPF. Parametrix will email most current .wdm and input files to J. Brascher 10/25. J. Brascher will research source of error 10/25.

Issue Update: SASA facility compliance with King County off-site flow criteria

RESOLUTION PENDING REVIEW: King County is willing to support the proposed evaluation of SASA facility flows to address compliance of the in-stream facility with King County Manual requirements. This proposed evaluation will be discussed with Ecology in a King County-Ecology meeting scheduled for Thursday 10/26.

Issue Update: North Employees Parking Lot

RESOLUTION PENDING REVIEW: Many options to address this subbasin were discussed. Four options will be presented and discussed at the meeting Friday 10/27.

1. High flow bypass to IWS outfall
2. Infiltration
3. Change of performance standards
4. Water re-use to augment summer Miller Creek flows

Issue Update: Modeling of Potential IWS Lagoon Overflow

RESOLUTION PENDING REVIEW: Kennedy-Jenks material provided to King County included the discussion of the analysis, not the analysis itself. King County raised questions regarding a statement in the report about safety of the easterly containment dike and about summer overtopping during construction of the Lagoon #3. Parametrix will messenger these questions to the Port. A Feb 2000 K-J report statement about maximum practical storage volume is inconsistent with SMP volume. Parametrix will request this report from the Port and evaluate the inconsistency.

Kennedy-Jenks material did not address King County concerns regarding a continuous vs. event model of the lagoon system. Parametrix will evaluate a continuous flow model either in KCRS or in a spreadsheet model and include this material in the SMP. The continuous flow model will look at discharge limits during storm events over a range of processing rates.

Parametrix will include the following sentence in the SMP text: "IWS sizing assumes no other diversions."