



Assessment of Water Resources that Might Benefit from Augmentation

Development of Preliminary Environmental Information for the Reclaimed Water Comprehensive Plan



King County

Department of Natural Resources and Parks
Wastewater Treatment Division



Wetlands Information



Goal for Wetlands

- Determine population of wetlands that have been hydrologically altered and are most likely to benefit from additional water



Approach for Wetlands

- Use readily available GIS data
 - King County Wetland Inventory
 - National Wetland Inventory
- Use criteria to select subpopulation of potential wetlands
 - Not a bog or coniferous wetland
 - Total impervious area in basin >10%
 - Forest area in basin <50%

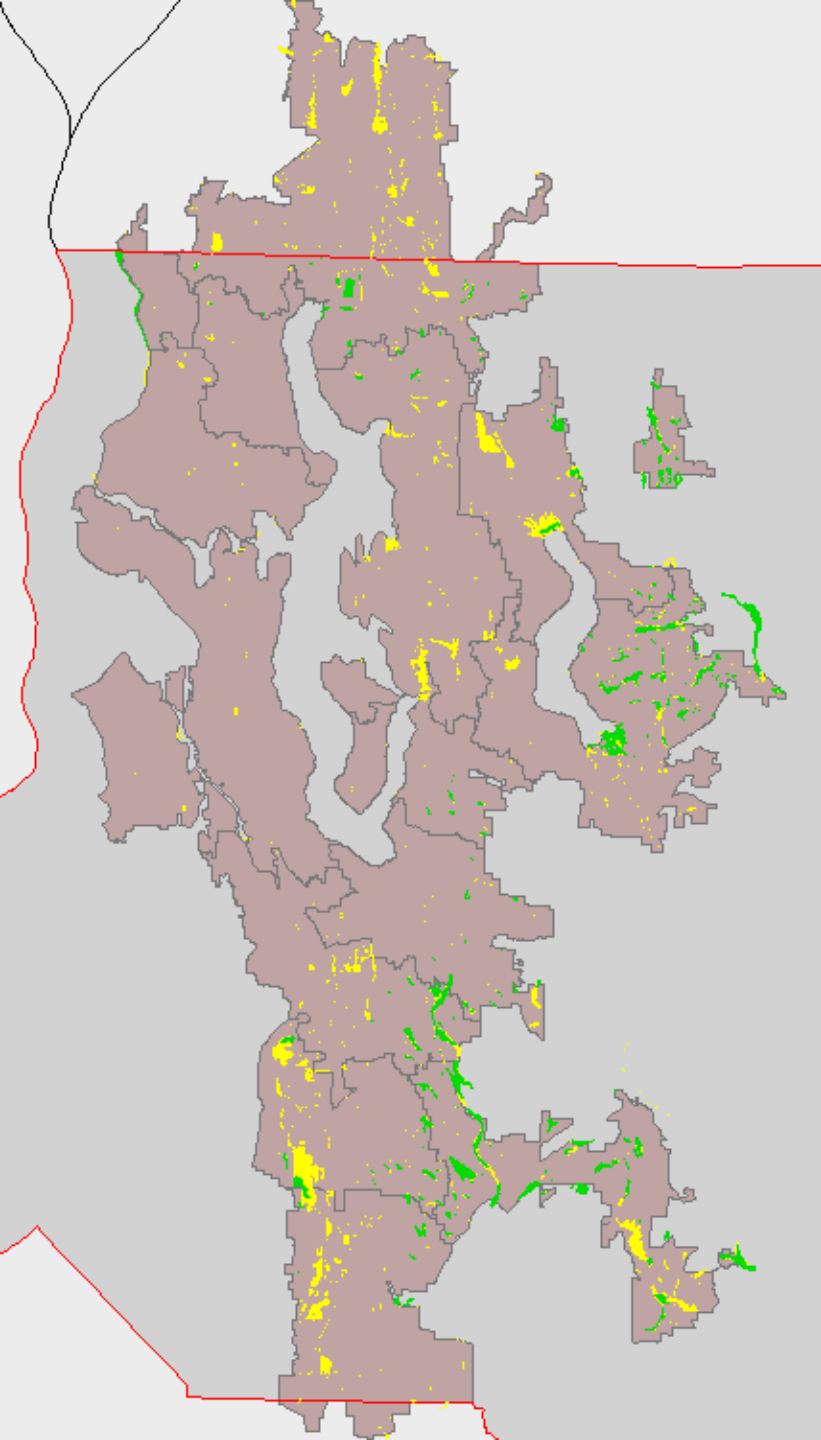


Summary of Findings

Filters applied	King County Wetland Inventory	National Wetland Inventory
# wetlands in data set	237	1483
Eliminate bogs and forested wetlands	Bogs (23) & Forested Wetlands (12) → 202	Bogs (16) & Forested Wetlands (9) → 1458
Total impervious area greater than 10%	193	1405
Forested area less than 50%	48	865

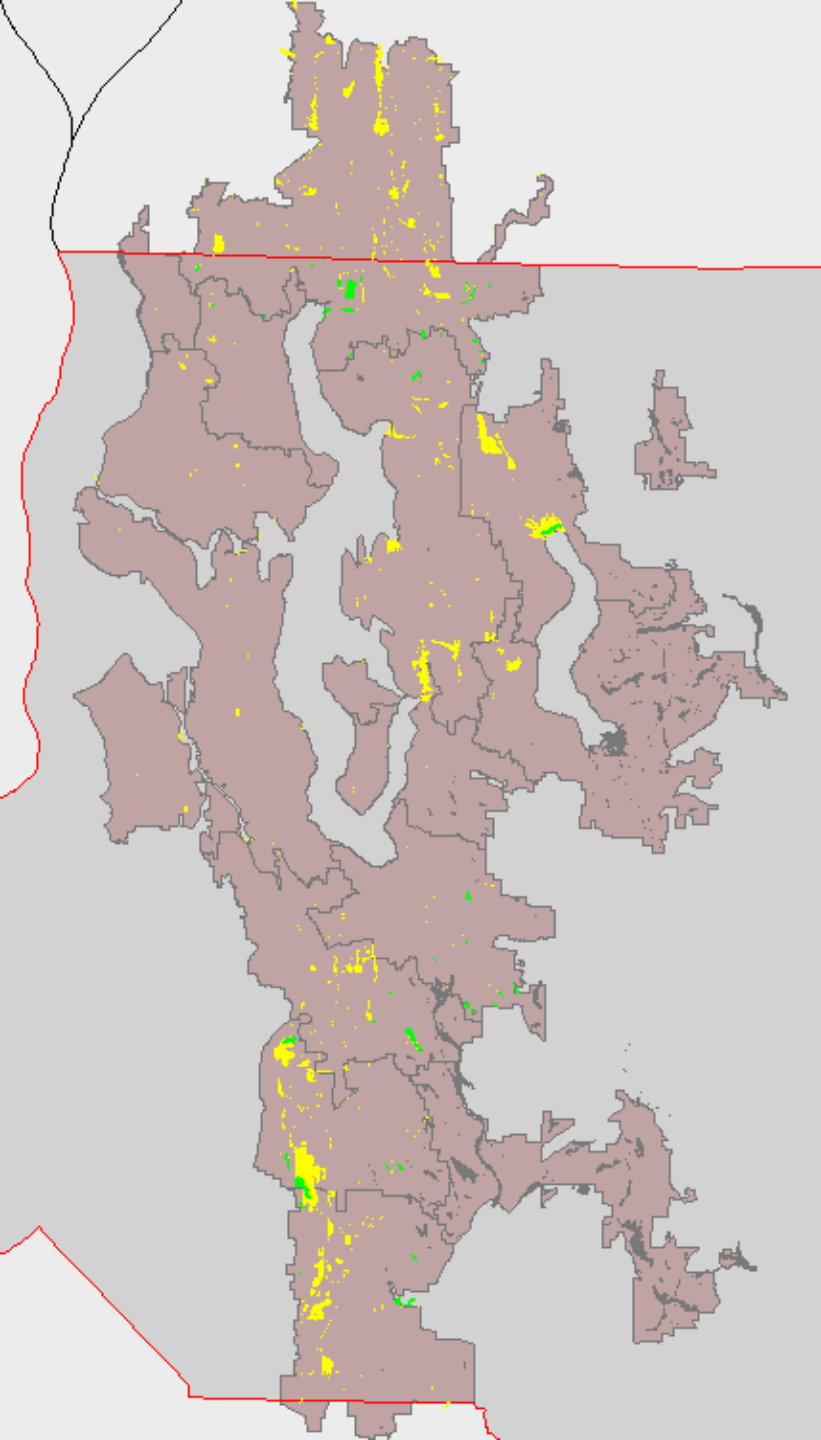
Key Findings

- All Wetlands in dataset



Key Findings

- Wetlands that have been hydrologically altered and are likely to benefit from additional water





Wetlands Uncertainties and Conclusions

- Some uncertainties exist
 - Wetland inventories are outdated
 - Lack of site-specific information in inventory makes assessment difficult
- However, data are sufficient to conclude
 - That there appear to be plenty of altered wetlands in the planning area that could possibly benefit from additional water



Next Steps

- Incorporate comments on draft reports
- Any future assessments to be determined by Reclaimed Water Comprehensive Plan Team depending on project needs
- Possible ideas include
 - Site visits to verify information
 - Calculation of amount of improvement
 - Accounting for climate change

QUESTIONS?