

APPENDIX H:

Permit Crosswalk

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Table H-1. Permit requirements crosswalk.

Permit Reference Number	Permit Requirement	How Addressed	Document(s) Location
S5.C.5.c.iv.(1)	An assessment of existing hydrologic, biologic, and water quality conditions and an assessment of the current status of the aquatic community in the study area.	King County met this requirement with is review of data; stormwater quality sampling of base flows and storm flows; continuous flow monitoring; macroinvertebrate data collection for the purposes of estimated current B-IBI scores, assessed the aquatic community conditions, assessed riparian corridor conditions, and assessed wetland conditions.	Summarized in Chapter 3 of this Study King County, 2017b King County, 2017c King County, 2017d King County, 2017e
S5.C.5.c.iv.(2)	A compilation and/or generation of maps of the study area to identify the existing distribution and totals of general soil types, vegetative land cover, impervious land covers, MS4s and non-regulated public stormwater systems (if applicable). Maps shall be sufficient to allow construction of a rainfall/runoff model representation of the study area. Maps must also identify areas within the study area appropriate for special attention in regard to hydrologic and water quality impacts.	King County met this requirement with its development and/or updating of existing maps to support hydrologic/hydraulic and water quality modeling of the study area.	King County, 2018
S5.C.5.c.iv.(3)	Permittee shall use the existing conditions assessment in S5.C.5.c.iv.(1) and the maps described in S5.C.5.c.iv.(2), and calibrate a continuous runoff model to reflect the existing hydrologic, water quality, and biologic (as represented by B-IBI score) conditions.	King County met this requirement with its development of a HSPF continuous hydrologic model that was calibrated to existing conditions.	King County, 2018

Permit Reference Number	Permit Requirement	How Addressed	Document(s) Location
S5.C.5.c.iv.(4)	Permittee shall use the calibrated model to estimate hydrologic changes from the historic condition; predict the future hydrologic, biologic, and water quality conditions at full build-out under the existing comprehensive land use management plan for the study area.	King County met this requirement with its use of the calibrated HSPF model to estimate changes in hydrologic conditions, B-IBI scores, and water quality concentration of the pollutant parameters listed in the Permit between historical forested conditions and future land use conditions. Future land use development was assumed to include stormwater mitigation BMPs meeting current standards. B-IBI correlation evaluation was conducted and DeGasperi metrics were used based on WRIA 8 dataset.	King County, 2018
S5.C.5.c.iv.(5)	If the estimation in S5.C.5.c.iv.(4) predicts water quality standards will not be met, the Permittee shall use the calibrated watershed model to evaluate stormwater management strategies to meet the standards.	King County met this requirement with its use of the calibrated HSPF model in combination with a SUSTAIN model, to evaluate a combination of structural and non-structural measures that if implemented were projected to meet water quality standards for bacteria, copper, zinc and turbidity. Even under modeled fully forested conditions, exceedances of the temperature standards were observed.	King County, 2018
S5.C.5.c.iv.(5) continued	Stormwater Strategies to be evaluated must include: <ul style="list-style-type: none"> • Changes to development-related codes, rules, standards, and plans 	King County met this requirement with its evaluation of future (2050) land use development and evaluation of limiting the impervious area on developed lands. King County also evaluated strategies for implementing changes to exemption requirements, raising LID standards, and instating an in-lieu fee program.	Chapter 4 of this Plan and King County, 2018.
S5.C.5.c.iv.(5) continued	Stormwater Strategies to be evaluated must include: <ul style="list-style-type: none"> • Potential future structural stormwater control projects 	King County met this requirement with its evaluation of strategies for implementing potential future structural control projects. SUSTAIN was used in combination with the calibrated HSPF model to optimize combinations of structural projects.	Chapter 4 of this Study.
S5.C.5.c.iv.(6)	An implementation plan and schedule, including: potential future actions to implement the identified stormwater management strategies, responsible parties, estimated costs, and potential funding mechanisms.	King County met this requirement in this Watershed Management Plan, which includes a implementation plan and schedule with the required elements: potential future action to implement the identified stormwater management strategies, responsible parties, estimated costs, and potential funding mechanisms. Also an adaptive management strategy is defined to guide implementation of the potential future actions under the proposed implementation plan.	Chapters 11 and 12 and Appendix G of this Study.

Permit Reference Number	Permit Requirement	How Addressed	Document(s) Location
S5.C.5.c.iv.(7)	A public review and comment process, at a minimum, focused on the draft watershed-scale stormwater plan. The public review must allow for public comment from all governmental entities with jurisdiction within the study area.	King County met this requirement with its planning process, which has included ongoing coordination with a technical stakeholder group, the Muckleshoot Indian Tribe, and members of the public. A public comment period was held from January 24 to February 14, 2018.	The public outreach process is summarized in Section 1.4 and Appendix E.
S5.C.5.c.v	The watershed-scale stormwater planning process, as documented in the scope of work and schedule, may include an evaluation of strategies to preserve or improve other factors that influence maintenance of the existing and designated uses of the stream.	King County has included several evaluations of current conditions and potential strategies to improve riparian, wetland, and instream habitat that are expected to influence maintenance of the existing and designated uses of Bear Creek.	King County, 2017c King County, 2017d King County, 2017e Chapters 4, 5, 6, 7, and 8 of this Study.

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