

Fish and Aquatics Instream Flow Study Schedule

Activity	2012				2013				2014				2015	
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q
Study Area Selection (Focus and Supplemental Areas)	—————													
Compile aquatic habitat (RSP Sec 9.09) and geomorphology (Sec 6.5) characterization study results			—————										
Identify proposed Focus Areas			—————											
Refine Focus Areas and identify supplementary area if needed for any underrepresented habitats					—————								
TWG confirmation of 2013 areas					—————									
Review available data and modify or add Focus Areas and supplementary sampling areas							—————		△					
TWG review and confirmation of additional areas in 2014 as needed									—————					
TWG review of proposed area weighting factors to extrapolate modeled to non-modeled areas											—————			
TWG meeting on area weighting												—————		▲

Fish and Aquatics Instream Flow Study Schedule (cont.)

Activity	2012				2013				2014				2015		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	
Review of 1980s Data and Information		—————											△		▲
Model Selection by habitat type (2-D, 1-D, etc.)				—————											
Propose habitat models for Focus Areas and supplemental area				—————											
TWG review and meeting on habitat model selection					—————							△			



Fish and Aquatics Instream Flow Study Schedule (cont.)

Activity	2012				2013				2014				2015		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	
Hydraulic Routing		—————→													
Review 2012 transect data RM 184 to 75	—————														
Develop executable mainstem ice-free flow routing model				———											
Model verification using stage recorder data				———										
Identify need for additional data				———						△					
Distribute draft Mainstem Ice-free Flow Routing Model to TWG for review					———										
Use draft model to support IFS and fisheries 2013-14 study efforts					—————										
Refine ice-free routing model using 2013 and 2014 data											—————				
Distribute final Mainstem Ice-free Routing Model to TWG for review														———	▲
Use final Mainstem Ice-free Routing Model for scenario evaluations															—————→

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Activity	2012				2013				2014				2015		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	
Periodicity		—————													
Review draft species and lifestage periodicity data developed under Fish Distribution and Abundance (Sec 9.06)			—						
Identify specific HSC/HSI periodicity data needs				—						
Distribute HSC/HSI periodicity to TWG				—				△					
TWG meeting on HSC/HSI periodicity used to model scenarios													—	▲	

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Activity	2012				2013				2014				2015		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	
HSC/HSI Fish: Field Data Collection (summer, fall, winter)		—————													
Use 1980s Susitna data and other existing HSC curves to develop draft species / lifestage HSC curves for the lower and middle Susitna River			—————												
Propose target HSC species, lifestages, substrate and cover				—											
TWG meeting on HSC/HSI targets and data collection study details					—————										
Conduct HSC/HSI summer surveys (snorkel, seining, electrofishing)		—————				—————				—————					
Conduct fish HSC/HSI winter surveys (underwater camera, electrofishing)					—————			—————						
Conduct aquatic biota stranding and trapping surveys						—————								
Coordinate and review adult/spawning HSC data collected by Fish and Aquatic biotelemetry (Sec 9.06)		—————								
Distribute preliminary findings of wintertime surveys to TWG							—————					—————			
Distribute preliminary results of HSC/HSI surveys and changes to draft HSC/HSI					—————			...	△						
TWG meeting on species and life stage HSC/HSI											—————		▲		

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Activity	2012				2013				2014				2015	
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q
Collect Physical and Hydraulic Data for Habitat Modeling						—————								
Collect data for digital terrain model						———							
Collect x-section and stage:discharge data at Focus Areas and supplemental areas						———							
Collect substrate/cover data at Focus Areas and supplemental areas						———							
Provide summaries of data collection efforts													△	▲

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	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q
Coordinate with Geomorphology, Groundwater, Riparian, Ice, and Water Quality Data Collection and Modeling			—————											
Hydraulic Model Integration and Calibration										—————				▲
Aquatic Habitat Modeling							—			△			▲
Reporting				—						△				▲
Alternate Scenario Post-Processing														—————▶