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30 **1.0 Overview for Developing the WRIA 1 Detailed Implementation Plan**

31 **1.1 Overview**

32 A detailed implementation plan is the primary grant requirement for the first year Washington State
33 Department of Ecology, Phase 4 Implementation Grant. The detailed implementation plan
34 submitted to Ecology must meet certain requirements identified in RCW 90.82.043 and 90.82.048 to
35 qualify a watershed planning area for subsequent years of Phase 4 Implementation Grant funds.

36 The RCW 90.82.043 requirements for a detailed implementation plan focus on strategies that provide
37 sufficient water for instream and out of stream uses and that include timelines and milestones for
38 achieving the strategies. Specifically, strategies meeting the RCW requirements will address provision
39 of sufficient water for a) production of agriculture, b) commercial, industrial, and residential uses,
40 and c) instream flows. Timelines and milestones included in the detailed implementation plan need
41 to also address planned and future use of existing water rights for municipal water supply purposes
42 that are inchoate (have never been used), including how the rights will be used to meet the projected
43 future needs and how these rights will be addressed when implementing ISF strategies (RCW
44 90.82.048).

45 In addition to timelines and milestones, other requirements for a detailed implementation plan as
46 identified in RCW 90.82.043 include defining coordination and oversight responsibilities, interlocal
47 agreements, rules, or ordinances that may be needed to implement strategies, local administrative
48 approvals and permits, and funding mechanisms.

49 **1.2 Approach for Developing the WRIA 1 Detailed Implementation Plan**

50 The WRIA 1 Detailed Implementation Plan is based on the actions and strategies in the approved
51 June 2005 WRIA 1 Watershed Management Plan (WMP), which were developed with the
52 involvement of the caucus-based WRIA 1 Planning Unit, the WRIA 1 Technical Teams (Water
53 Quality, Water Quantity, Instream Flow, Fish Habitat, Public Involvement and Education,
54 Watershed Plan Development, and Decision Support System), the WRIA 1 Staff Team/Technical
55 Team Leads (tribal, state, and local governments and utility district staff), and the WRIA 1 Joint
56 Board (policy board). The WRIA 1 WMP actions and strategies address the goals and objectives of
57 the WRIA 1 Watershed Management Project and include water quality, water quantity, instream
58 flows, and fish habitat. As part of the process for developing the WRIA 1 Detailed Implementation
59 Plan (DIP) the WRIA 1 WMP actions and strategies were reviewed to confirm that strategies are in
60 place that meets the DIP requirement for addressing provision of sufficient water for agriculture
61 production, commercial, industrial, and residential uses, and instream flows.

62 For purposes of completing the WRIA 1 DIP, the actions and strategies in the WRIA 1 WMP were
63 categorized into three tiers. The Tier 1 actions and strategies are those that are most directly
64 associated with addressing the provision of water to instream and out of stream users and/or are
65 strategies that relate to each other and are important factors in addressing water use. Tier 1 strategies
66 include the WRIA 1 Decision Support System and underlying models, the WRIA 1 Instream Flow
67 Selection and Adoption Action Plan (WRIA 1 ISF Action Plan), Compliance and Natural Resource

68 Policy Integration Programs, a WRIA 1 Long Term Monitoring Strategy, and Adaptive Management.
69 Tier 2 strategies include those actions that are likely to be included or have elements that are included
70 in the Tier 1 strategies or that, as a stand-alone action, are not likely to significantly influence
71 provision of water to a user. Tier 2 strategies include Ground Water Augmentation, Water Use
72 Efficiency, Public Involvement and Education and ‘Other’¹. For example, Ground Water
73 Augmentation as identified in the WRIA 1 WMP is an action being considered or likely to be
74 considered as part of the WRIA 1 ISF Action Plan negotiations occurring in a specific drainage. Tier
75 3 strategies and actions address goals of the WRIA 1 Watershed Management Project that are not
76 directly related to the provision of water for instream and out of stream uses. Tier 3 strategies
77 include Ground Water Model, South Fork Temperature and High Resolution Surface Water Quality
78 Model, Socioeconomic Study, E. Hemmi, Pilot County Facility and/or Road Low Impact Design,
79 and Low Impact Development Program

80 Sequencing of actions and strategies in the WRIA 1 DIP includes first completing and initiating the
81 Tier 1 actions then using Adaptive Management to evaluate the strategies to determine if they are
82 meeting their intended objectives. The WRIA 1 DIP incorporates a realistic timeframe for
83 implementing these actions with achievable interim milestones. A Governance and Administration
84 task is also included in this WRIA 1 DIP as a Tier 1 strategy to ensure that the actions and strategies
85 described in this document are implemented in a manner consistent with the June 2005 approved
86 WRIA 1 WMP and this WRIA 1 DIP.

87 An important note for reviewing this document is that the purpose of this WRIA 1 DIP is not to
88 review all of the June 2005 WRIA 1 WMP strategies and actions; it is intended to provide a
89 framework for implementing the strategies. The WRIA 1 DIP has been developed from the
90 perspective that it is an addendum to the WRIA 1 WMP and therefore does not repeat but references
91 information from the WRIA 1 WMP as needed to assist the reader. This WRIA 1 DIP has been
92 prepared as an implementation tool for the entities identified as lead for actions and strategies
93 identified in the WRIA 1 WMP. It is also a tool for WRIA 1 Watershed Management Project
94 participants to use in monitoring the implementation and progress of actions and strategies designed
95 to achieve the water quality, water quantity, instream flows, and fish habitat goals established in
96 March 2000. This DIP has been prepared with the intent that it will be reviewed and updated in
97 accordance with the adaptive management strategy outlined in the WRIA 1 WMP and in Table 3 of
98 this WRIA 1 DIP.

99 Given the intended use of the WRIA 1 DIP as a tool for implementing actions in the WRIA 1 WMP,
100 the format is primarily a series of implementation tables that chart the tasks, subtasks, milestones,
101 timelines, leads, and other information relevant to Tier 1 strategies and actions. The narrative
102 included in the WRIA 1 DIP is intended to support the implementation tables and address elements
103 of RCW 90.82.043 and 90.82.048.

¹ The June 2005, WRIA 1 Watershed Management Plan identifies “Other Actions” and lists Feasibility Deep Aquifer Storage, Transbasin Importation, Water Transfer Procedures & Challenges, Water Banking Survey, Water Rights Information Center, and Water Reuse.

104 **2.0 Coordination of Activities with Other Planning Entities**

105 This section of the WRIA 1 DIP addresses the requirement of RCW 90.82.043 to “consult with
106 other entities planning in the watershed management area and identify and seek to eliminate any
107 activities or policies that are duplicative or inconsistent”.

108 **2.1 Coordination of WRIA 1 Watershed Planning with Other WRIA 1 Planning Efforts**

109 The primary mechanism to address the RCW requirement for consultation with other planning
110 entities has been to involve the entities throughout the WRIA 1 Watershed Management Project
111 process beginning with Phase I – Organization and continuing through the current Phase IV –
112 Implementation.

113 Section 1 of the June 2005, WRIA 1 Watershed Management Plan – Phase 1 (WRIA 1 WMP)
114 describes the organizational structure of the WRIA 1 Watershed Management Project including the
115 interests and caucuses represented on the WRIA 1 Planning Unit, the members of the WRIA 1 Joint
116 Board, the purpose of the WRIA 1 Staff Team and Technical Teams, and the function of each of
117 these entities in the process. The structure and functions described in the WRIA 1 WMP have
118 remained in affect through the development of the WRIA 1 DIP.

119 During Phase III- Watershed Management Plan Development, there was extensive participation of
120 the WRIA 1 participants in identifying actions and strategies to address key issues and to develop the
121 WRIA 1 WMP implementation strategy. The relationship of other planning activities to the
122 recommended actions and strategies being considered was discussed prior to making the WRIA 1
123 WMP recommendations. For those recommendations that had a potential for duplication or
124 inconsistencies, a phased or stepped approach to implementation was recommended that includes
125 identifying potential overlapping elements as well as identifying gaps that programs may not be
126 addressing. To address potential duplication and inconsistencies among existing programs, a specific
127 recommendation is included in the WRIA 1 WMP for a Natural Resource Policy Integration (NRPI)
128 Program. The NRPI Program is a Tier 1 program in this WRIA 1 DIP.

129 The WRIA 1 Salmon Recovery Program is a multi-government planning effort with a WRIA-wide
130 scope to address salmon recovery and protection of ESA and non-ESA listed species of salmonids.
131 The WRIA 1 Salmonid Recovery Plan includes implementation of actions that are directly or
132 indirectly linked to the actions and strategies identified in the WRIA 1 DIP. Given the linkages
133 between these programs, the WRIA 1 Joint Board tasked the WRIA 1 Staff Team to work with the
134 WRIA 1 Salmon Recovery Program participants to develop options for program coordination and
135 integration. A feasibility assessment associated with implementing the concepts proposed in Phases
136 2 and 3 of the draft *Governance Structure for Implementing WRIA 1 Programs* (Appendix A) is a task in this
137 WRIA 1 DIP.

138 **2.2 WRIA 1 Detailed Implementation Plan Action Linkages to Other Planning Efforts**

139 Efforts to avoid duplication or inconsistencies between WRIA 1 WMP actions and strategies and
140 other planning efforts continue into Phase IV – WMP Implementation. Table 1 lists Tier 1 DIP

141 Table 1. Coordination of Tier 1 Watershed Management Plan Actions with other Planning Activities

WRIA 1 WMP Action or Strategy	Programs with Potentially Similar Actions to a WRIA 1 WMP Action or Strategy	Linkage to WRIA 1 WMP	Comments	Agencies/Entities Involved in Programs with Similar Actions	Steps Taken to Ensure Coordination of Similar Actions
Tier 1					
Decision Support System (DSS)	<ul style="list-style-type: none"> TMDL Development 	<ul style="list-style-type: none"> Surface water quality modeling Lake-response modeling (Lake Whatcom) 	<ul style="list-style-type: none"> Modeling is conducted to determine TMDL targets for selected parameters 	<ul style="list-style-type: none"> Department. of Ecology (lead) Whatcom County Public Works (WCPW)/City of Bellingham (COB) are involved in process 	<ul style="list-style-type: none"> The Dept. of Ecology's (Ecology) Bellingham Field Office is represented on the WRIA 1 Staff Team and WRIA 1 Water Quality Technical Team. Staff from jurisdictions affected by established TMDLs participates in the WRIA 1 Watershed Management project.
	<ul style="list-style-type: none"> Lake Whatcom Management Program 	<ul style="list-style-type: none"> Lake response and watershed loading models 	<ul style="list-style-type: none"> The DSS includes a surface water quality model for Lake Whatcom designed to integrate with the TMDL model. 	<ul style="list-style-type: none"> COB, WCPW, and Lake Whatcom Water and Sewer District (LWWSO) 	<ul style="list-style-type: none"> The Lake Whatcom Management Program is recognized in the WRIA 1 WMP as having a management program in place. The City of Bellingham Mayor and the Whatcom County Executive are participants on the Lake Whatcom Management Team and are members of the WRIA 1 Joint Board. The Lake Whatcom Water and Sewer District General Manager is a member of the Lake Whatcom Management Team and is a member of the Water District Caucus, which is represented on the WRIA 1 Planning Unit.
	<ul style="list-style-type: none"> Comprehensive Plans 	<ul style="list-style-type: none"> Land use planning 	<ul style="list-style-type: none"> No comments. 	<ul style="list-style-type: none"> Each jurisdiction within Whatcom County 	<ul style="list-style-type: none"> The Natural Resource Policy Integration (NRPI) program is a Tier 1 Action in the WRIA 1 Detailed Implementation Plan (DIP). The DSS as a tool in the jurisdictions' planning efforts is anticipated to occur as part of NRPI implementation.
ISF Selection and Adoption Action Plan	<ul style="list-style-type: none"> WRIA 1 Salmon Recovery Plan 	<ul style="list-style-type: none"> Fish habitat protection and restoration Stream flow 	<ul style="list-style-type: none"> Policy-level Salmon Recovery Board has members-in-common with the policy-level WRIA 1 Joint Board 	<ul style="list-style-type: none"> Lummi Nation, Nooksack Tribe, and Washington Department of Fish and Wildlife (Co-Managers) and Whatcom County and City Mayors (Local Govt. Caucus) comprise the Salmon Recovery Board Lummi Natural Resources (LNR), Nooksack Natural Resources (NNR), COB, Small Cities, WDFW, and WCPW comprise Steering Committee and Technical Work Group 	<ul style="list-style-type: none"> Entities involved in the WRIA 1 Salmon Recovery Plan implementation are also involved in the WRIA 1 Watershed Management Project with representation on the WRIA 1 Joint Board, WRIA 1 Staff Team and Technical Teams, and WRIA 1 Planning Unit. The policy boards of the WRIA 1 Watershed Management Project and the WRIA 1 Salmon Recovery Program evaluated options for an integrated governance approach for implementation of the two plans (see Appendix A).
Compliance	<ul style="list-style-type: none"> TMDL Compliance 	<ul style="list-style-type: none"> Enforcement of BMPs or other mechanisms implemented for purposes of achieving target loads 	<ul style="list-style-type: none"> No comments. 	<ul style="list-style-type: none"> Ecology 	<ul style="list-style-type: none"> Ecology's Bellingham Field Office is represented on the WRIA 1 Staff Team and Technical Teams.
	<ul style="list-style-type: none"> Department of Ecology Water Resources Program/State Water Code 	<ul style="list-style-type: none"> Water right processing, enforcement of use, and instream flows 	<ul style="list-style-type: none"> No comments 	<ul style="list-style-type: none"> Ecology 	<ul style="list-style-type: none"> Ecology's Bellingham Field Office is represented on the WRIA 1 Staff Team and Technical Teams and is a key participant in the Bertrand ISF Pilot Negotiations.
Natural Resource Policy Integration	<ul style="list-style-type: none"> Comprehensive Water Resource Integration Project 	<ul style="list-style-type: none"> Intent is to identify areas of integration for Whatcom County programs and recommend prioritization process for funding of projects within water-related programs 	<ul style="list-style-type: none"> An RFP is being developed to conduct the work. The schedule for product delivery will likely not be available in time for the DIP. It will be considered in Adaptive Management. 	<ul style="list-style-type: none"> WCPW 	<ul style="list-style-type: none"> Whatcom County Public Works and Planning and Development Services are involved in the WRIA 1 Watershed Management Project. The Comprehensive Water Resource Integration Program is expected to support implementation of the NRIP.
	<ul style="list-style-type: none"> Shoreline Management Programs 	<ul style="list-style-type: none"> Land use and protection of instream uses 	<ul style="list-style-type: none"> No comments. 	<ul style="list-style-type: none"> Each jurisdiction within Whatcom County and WA Dept of Ecology 	<ul style="list-style-type: none"> Coordination/integration of activities for this program will be considered as part of the NRIP.
	<ul style="list-style-type: none"> Critical Areas Ordinance 	<ul style="list-style-type: none"> Land use and protection of wetlands and other critical areas 	<ul style="list-style-type: none"> No comments. 	<ul style="list-style-type: none"> Each jurisdiction within Whatcom County 	<ul style="list-style-type: none"> Coordination/integration of activities for this program will be considered as part of the NRIP.

WRIA 1 WMP Action or Strategy	Programs with Potentially Similar Actions to a WRIA 1 WMP Action or Strategy	Linkage to WRIA 1 WMP	Comments	Agencies/Entities Involved in Programs with Similar Actions	Steps Taken to Ensure Coordination of Similar Actions
Tier 1					
	<ul style="list-style-type: none"> Flood Hazard Management 	<ul style="list-style-type: none"> Comprehensive flood hazard management planning includes recommendations for addressing frequently flooded areas and projects 	<ul style="list-style-type: none"> No comments. 	<ul style="list-style-type: none"> WCPW Lummi Nation 	<ul style="list-style-type: none"> Coordination/integration of activities for this program will be considered as part of the NRIP.
WRIA 1 Long Term Monitoring Program Strategy	<ul style="list-style-type: none"> TMDL Implementation 	<ul style="list-style-type: none"> Monitoring may take place by entities, organizations, and/or agencies to determine whether target TMDLs are being met for selected parameters. 	<ul style="list-style-type: none"> Monitoring for Nooksack River TMDL compliance being done at select locations. 	<ul style="list-style-type: none"> Ecology, NWIC, WCD, Whatcom County 	<ul style="list-style-type: none"> A WRIA 1 Long Term Monitoring Plan (LTMP) is being developed as part of the WRIA 1 DIP. Coordinating with the TMDL monitoring is being considered as part of the WRIA 1 LTMP.
	<ul style="list-style-type: none"> WRIA 1 Salmon Recovery Plan 	<ul style="list-style-type: none"> Habitat assessments 	<ul style="list-style-type: none"> Areas of WRIA 1 have assessments completed while other areas do not Restoration projects have been undertaken with SRFB grants that will require long term monitoring A monitoring program for salmon recovery is being considered as part of the regional salmon recovery program A local monitoring program for salmon recovery is under discussion. 	<ul style="list-style-type: none"> Identified under ISF Selection and Adoption Action Plan 	<ul style="list-style-type: none"> A WRIA 1 Long Term Monitoring Plan (LTMP) is being developed as part of the WRIA 1 DIP. Coordinating with the WRIA 1 Salmon Recovery Program technical staff on the WRIA 1 LTMP is occurring. The policy boards of the WRIA 1 Watershed Management Project and the WRIA 1 Salmon Recovery Program are evaluating options for an integrated governance approach for implementation; this will include discussion of monitoring.
	<ul style="list-style-type: none"> Marine Resource Committee 	<ul style="list-style-type: none"> Organizes coastal surveys 	<ul style="list-style-type: none"> Focus is on coastal drainages, which have not been a primary focus of WRIA 1 WMP Phase 1. MRC has appears to have a more significant linkage to the WRIA 1 Salmon Recovery Plan implementation than to the WRIA 1 Plan implementation. 	<ul style="list-style-type: none"> WCPW supported 	<ul style="list-style-type: none"> Whatcom County Public Works is involved in developing the WRIA 1 LTMP and provides support to the MRC. The involvement in both activities will address coordination needs.
	<ul style="list-style-type: none"> Bertrand Watershed Improvement District 	<ul style="list-style-type: none"> Monitoring for project effectiveness Ambient monitoring 	<ul style="list-style-type: none"> Current monitoring is conducted on water quality by NWIC, Ecology, and WCD. A monitoring program for the Bertrand WID is under development as part of the ISF pilot negotiation process. 	<ul style="list-style-type: none"> Bertrand WID 	<ul style="list-style-type: none"> The WRIA 1 LTMP that is being developed involves WRIA 1 participants that are also key participants of the Bertrand ISF pilot negotiations. Therefore, the monitoring program of the Bertrand WID is being considered in the WRIA 1 LTMP.
	<ul style="list-style-type: none"> Whatcom County Flood Hazard Management 	<ul style="list-style-type: none"> Monitoring associated with flow and climate 	<ul style="list-style-type: none"> No comments 	<ul style="list-style-type: none"> WCPW 	<ul style="list-style-type: none"> Whatcom County Public Works is involved in developing the WRIA 1 LTMP. Their involvement will address coordination needs.
	<ul style="list-style-type: none"> Dept of Ecology Water Resources Programs 	<ul style="list-style-type: none"> Water usage 	<ul style="list-style-type: none"> Ecology is currently required to obtain annual use estimates on 80% of water use. They report the data is available but they would like feedback on the desired format for the data, primarily geographic delineation (i.e., sub-basin, watershed, section) 	<ul style="list-style-type: none"> Ecology 	<ul style="list-style-type: none"> Ecology's Bellingham Field Office is represented on the WRIA 1 Staff Team and Technical Teams and is involved, therefore, in developing the WRIA 1 LTMP. The format for reporting the usage data will be considered as part of the LTMP that is developed.
Adaptive Management	<ul style="list-style-type: none"> WRIA 1 Salmon Recovery Plan 	<ul style="list-style-type: none"> WRIA 1 Salmon Recovery Plan includes an Adaptive Management element 	<ul style="list-style-type: none"> The Adaptive Management element of the local salmon recovery plan is being developed as part of implementation 	<ul style="list-style-type: none"> Identified under ISF Selection and Adoption Action Plan 	<ul style="list-style-type: none"> It is anticipated that the policy boards of the WRIA 1 Watershed Management Project and the WRIA 1 Salmon Recovery Program will consider adaptive management are part of their evaluation and discussion of options for an integrated governance approach for implementation of the two plans.

142 Actions, other key programs with potentially similar actions, linkages to WRIA 1 Phase IV
143 Implementation, and the approaches being used to reduce the potential for duplicative efforts.

144 The following summary outlines the administrative and governance steps being taken to avoid
145 duplicative or inconsistent activities between WRIA 1 DIP and other entities' program activities:

- 146 ▪ Planning entities and other entities responsible for actions that affect or may be affected by
147 actions and strategies implemented during Phase 4 of watershed planning have been participating
148 in the WRIA 1 Watershed Management Project since Phase 1 of the WRIA 1 Watershed
149 Management Project. The result of early and continued involvement of the planning entities is
150 intended to reduce potential for duplicative or inconsistent programs being considered for
151 inclusion in the WRIA 1 WMP.
- 152 ▪ As noted in Section 2.1, the WRIA 1 Joint Board and WRIA 1 Salmon Recovery Board are
153 evaluating options for an integrated governance structure for the WRIA 1 Watershed
154 Management Project and the WRIA 1 Salmon Recovery Program. The WRIA 1 Staff Team
155 presented an option to the WRIA 1 Joint Board on April 12, 2007 that includes a three phased
156 approach that improves program coordination in the short-term and envisions comprehensive
157 natural resource program integration in the long-term (Appendix A). The structure presented is
158 similar to concepts previously developed by WRIA 1 Watershed Management Project
159 participants. At the April meeting, representatives of the policy boards of both programs – the
160 WRIA 1 Watershed Management Project and the WRIA 1 Salmon Recovery Program – signed
161 approval documents implementing the first phase of the proposed option and supporting further
162 analysis of the feasibility of the concepts presented in Phases 2 and 3. Timelines and milestones
163 associated with completing the feasibility analysis are included in this WRIA 1 DIP as a Tier 1
164 strategy under Governance and Administration.
- 165 ▪ Implementing the NRPI program included as a Tier 1 Action in the WRIA 1 DIP will address
166 potential duplications and inconsistencies within existing programs administered by planning
167 entities. The outcomes of the Comprehensive Water Resource Integration Project that
168 Whatcom County is pursuing will be considered in the implementation of the NRPI program.
169 The estimated schedule for completing the Water Resource Integration Project is winter 2007.
170 The outcomes of that project will be further considered as part of the timelines and milestones
171 identified for the NRPI and Adaptive Management tasks of this WRIA 1 DIP.

172 **3.0 Strategies for Provision of Water for Instream and Out of Stream Users**

173 This section of the WRIA 1 DIP addresses the requirements of RCW 90.82.043, which requires
174 strategies to provide sufficient water for a) production of agriculture; b) commercial, industrial, and
175 residential use; and c) instream flows; and RCW 90.82.048(1), which requires the DIP address
176 planned and future use of existing water rights for municipal water supply purposes including those
177 that are inchoate, how these rights will be used to meet projected future needs, and how these rights
178 will be addressed when implementing instream flow strategies.

179 **3.1 Definitions of Municipal Water Supply and Inchoate Water Rights**

180 RCW 90.03.015 as amended by SSHB 1338² defines municipal water supply as a beneficial use of
181 water meeting any one of several criteria including: (a) supplying water to 15 or more residential
182 connections or to a non-residential population of at least 25 people for at least 60 days a year, (b)
183 government purposes by a city, town, public utility district, county, sewer district, or water district, or
184 (c) delivery of treated or raw water to a public water system for the previously identified purposes.

185 Inchoate water is a term that is used to describe the portion of a water right that has never been used.
186 The 2003 Municipal Water Law, including amendments to RCW 90.03.015 definitions for municipal
187 water supplier and municipal water supply purposes, affects water rights including those retained as
188 inchoate. Provisions of SSHB 1338, the Municipal Water Law, are being challenged by a coalition of
189 environmental groups and a number of tribal governments. Four individuals and four environmental
190 groups, including Puget Sound Harvesters, Washington Environmental Council, Sierra Club, and The
191 Center for Environmental Law and Policy have filed a lawsuit in King County Superior Court
192 challenging various aspects of this statute. Seven western Washington Indian tribes, including the
193 Lummi Nation, have filed a similar law suit in King County Superior Court challenging various
194 aspects of this statute. A summary of the aspects challenged in the tribes' suit includes³: 1. The
195 retroactive validation of water rights allegedly lost through relinquishment prior to the enactment of
196 the statute; 2. The elimination of the beneficial use requirement for a greatly expanded group of
197 private water users that are now defined as "municipal users" (expansion of unused rights); 3. The
198 elimination of previously required analysis of change of place of use requirements for entities
199 classified as "municipal"; and 4. Changes in population served and maximum connection
200 requirements for certain state water holders without adequate procedural safeguards. The suit alleges
201 that these changes adversely and unconstitutionally impact instream flow rights that benefit the
202 tribes' treaty reserved fishing rights. The outcomes of these legal challenges will need to be taken
203 into consideration as DIP strategies affecting future water use are implemented, evaluated, and/or
204 developed.

205 **3.2 Water Rights in WRIA 1**

206 In 2001, the WRIA 1 Planning Unit approved work to further WRIA 1 participants' understanding
207 of the status of water rights in WRIA 1. The intent of the staged work was to address WRIA 1
208 Watershed Management Project Scope of Work item 3.1.4.5 (Appendix B of the June 2005, WRIA 1
209 WMP). According to the June 14, 2001 Water Rights Review Stage 1 Report, the purpose of Stage 1
210 was to total the amount of water allocated on "paper" for the existing water right documents.
211 Washington State Department of Ecology water right documents and database were the basis for the
212 work. The Stage 1 Report includes a detailed description of the methods used and tables totaling

² Second Engrossed Second Substitute House Bill 1338, Municipal Water Supply – Efficiency Requirements, approved June 20, 2003, AKA "Municipal Water Law".

³ The summary of points describing the provisions being challenged has been provided by the Lummi Nation. The *Complaint for Declaratory and Injunctive Relief* filed by the seven tribes can be downloaded at the Washington State Department of Ecology website along with other documents associated with the Municipal Water Law (www.ecy.wa.gov/programs/wr/rights/muni_wtr.html#docsdevelop).

213 ground and surface water instantaneous withdrawal and annual acre-feet allocations by document
214 type and by drainage. Stage 2 of the effort was completed in September 2002 and included the
215 mapping of water right certificates, permits, applications, and select claims, identification of current
216 water right holders, and field work to meet with and access their water rights.

217 Table 2 is a summary of the water allocations by subbasin in WRIA 1. The Access database
218 completed as part of the Stage 1 and Stage 2 effort provides the capability for querying the database
219 in a variety of ways that support the strategies identified in the WRIA 1 WMP and this WRIA 1 DIP
220 for addressing instream and out of stream water use.

221 **3.3 Instream Flow and Water Supply Strategy**

222 The June 2005 WRIA 1 WMP refers to instream flows as perhaps the most significant challenge
223 facing WRIA 1. While instream flows were established by Washington State in 1985 to ensure
224 protection of instream uses including a harvestable surplus of salmon, they also have major impacts
225 on subsequent out of stream uses, which includes production of agriculture and commercial,
226 residential, and industrial water supplies. Based on the challenges associated with meeting both
227 instream and out-of-stream water use needs, it was agreed by WRIA 1 Watershed Management
228 Project participants that the latest science would be used to reevaluate instream flows. Section
229 2.3.1.5 of the June 2005 WRIA 1 WMP discusses the technical work including the construction of a
230 Decision Support System with underlying models that will assist WRIA 1 Watershed Management
231 Project participants in evaluating instream flows. Also as part of the WRIA 1 Watershed
232 Management Project, a strategy has been developed that will use the technical tools being developed
233 to reevaluate the existing instream flows and defines a process for meeting challenges associated with
234 the instream and out of stream water needs. The strategy is the WRIA 1 Instream Flow Selection
235 and Adoption Action Plan (WRIA 1 ISF Action Plan) and is summarized in Section 3 of the June
236 2005 WRIA 1 WMP and included as Appendix C of that document. The WRIA 1 DIP includes
237 implementing the ISF Action Plan as a Tier 1 strategy after an evaluation of the ISF Pilot
238 Negotiation projects has been conducted.

239 In summary, the WRIA 1 ISF Action Plan is a strategy that addresses water use and water need
240 challenges on a drainage level. It involves a negotiation process with stakeholders to achieve
241 recommended target flows identified using the technical tools described in Section 2 of the WRIA 1
242 WMP. As part of the negotiation process, management approaches will be identified for achieving
243 the flows. In drainages involving municipal water rights, the instream flow negotiation process will
244 include those stakeholders as described in the WRIA 1 ISF Action Plan. It is anticipated that the
245 unused rights and how they are considered in meeting projected water needs will be addressed at that
246 time. Table 3 of this WRIA 1 DIP includes the milestones and schedules for identifying the
247 geographic areas for implementing the ISF Action Plan. Also included in this DIP is a mechanism
248 under the Adaptive Management section for evaluating the outcomes of all of the DIP Tier 1
249 strategies to determine effectiveness in addressing their intended goals. If it is determined that the
250 ISF Action Plan and associated negotiation process is not sufficiently addressing water supply for
251 future uses including the role of unused rights, additional strategies will be identified. The schedule

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252 outlined in Table 3 for reviewing the outcomes of Tier 1 actions is quarterly beginning during the 1st
 253 Quarter of 2008.

254 **Table 2. Summary of water allocations by subbasin in WRIA 1**

Subbasin	Documents	Estimated			Document			Est. & Doc. Allocation		
		CFS	GPM	Acre-Feet	CFS	GPM	Acre-Feet	CFS	GPM	Acre-Feet
South Fork Nooksack										
Allocations (WRATS database)		0.0	250.0	148.9	77.8	4140.0	2796.7	77.8	4390.0	2945.6
Ground Water	14 certificates 11 claims									
Surface Water	42 certificates 9 claims									
South Fork Applications Pending	25-50									
North Fork Nooksack										
Allocations (WRATS database)		1.1	240.0	7975.2	364.9	20,514.0	266,020.0	366.0	20,754.0	273,995.2
Ground Water	26 certificates 7 claims									
Surface Water	49 certificates 15 claims									
North Fork Nooksack Applications Pending	25-50									
Middle Fork Nooksack										
Allocations (WRATS database)		0.0	0.0	90,510.0	129.1	65.0	23.5	129.1	65.0	90,533.5
Ground Water	2 certificates 2 claims									
Surface Water	6 certificates 5 claims 1 permits									
Middle Fork Nooksack Applications Pending	0-25									
Lower Nooksack										
Allocations (WRATS database)		0.0	3376.0	7,008.3	738.6	114,669.3	96,374.6	738.6	118,045.3	103,382.9
Ground Water	585 certificates 154 claims 1 permit									
Surface Water	274 certificates 37 claims									
Lower Nooksack Applications Pending:	250-300									
Birch Bay										
Allocations (WRATS database)		0.0	50.0	61.6	2.1	947.0	6603.5	2.1	997.0	6665.1
Ground Water	19 certificates 1 claims									
Surface Water	9 certificates 4 claims									
Birch Bay Applications Pending:	0-25									
Drayton Harbor										
Allocations (WRATS database)		0.0	550.0	562.4	122.9	23,079.8	13,422.2	122.9	23,629.8	13,984.6
Ground Water	106 certificates 39 claims 2 permit									
Surface Water	33 certificates 15 claims									
Drayton Harbor Applications Pending:	50-75									
Lummi Bay										
Allocations (WRATS database)		0.0	0.0	469	2.6	4792	4987.5	2.6	4987.5	5456.5
Ground Water	23 certificates 8 claims 3 permits									
Surface Water	8 certificates 3 claims									
Lummi Bay Applications Pending:	0-25									
Point Roberts										
Allocations (WRATS database)		0.0	0.0	0.0	0.2	513.0	502.9	0.2	513.0	502.9
Ground Water	7 certificates 4 claims 1 permit									
Surface Water	1 certificates 4 claims									
Point Roberts Applications Pending:	0									

255
 256 *Quantities were "Estimated" if water right documents were filled out incomplete.*

257 **4.0 Implementation Strategies, Milestones, and Schedule**

258 This section of the WRIA 1 DIP addresses the requirements of RCW 90.82.048 to identify timelines
259 and milestones for implementing actions and strategies addressing current and future water use and
260 requirements of RCW 90.82.043 to identify strategies for provision of water for instream and out of
261 stream water users including identifying milestones to measure progress.

262 **4.1 Implementation Strategies**

263 The actions and strategies in the WRIA 1 DIP are based on those described in the approved June
264 2005 WRIA 1 WMP. As described in Section 1.2 of this WRIA 1 DIP, actions and strategies from
265 the WMP have been categorized into three tiers with Tier 1 actions and strategies the current focus
266 for implementation. Previous sections of this document describe the approach for preparing the
267 WRIA 1 DIP, the approach for evaluating implementation actions, and the approach for modifying
268 and adjusting this WRIA 1 DIP.

269 Given that the intent of the WRIA 1 DIP is to have a tool that entities can use to identify and
270 prioritize implementation actions, all relevant information for implementing Tier 1 actions and
271 strategies is summarized in a table format. Table 3 is formatted to identify the Tier 1 Action,
272 subtasks for implementing the action, identified milestones and schedule. Also included in Table 3 is
273 a column labeled 'Related Information' that describes intent, process, and/or other information
274 considered relevant to implementing a subtask. Table 3 is placed at the end of Section 5.0 of this
275 document.

276 Since this WRIA 1 DIP is a living document, it will change as actions are implemented and technical
277 information is refined and updated. The DIP will be reviewed on a regular basis as described under
278 Adaptive Management in Table 3.

279 **4.2 Long Term Monitoring Strategy**

280 A recommendation of the June 2005 WRIA 1 WMP is to develop a comprehensive WRIA-wide long
281 term monitoring program. Given the importance of monitoring to achieving the overall goals and
282 objectives of the WRIA 1 Watershed Management Project, the strategy for a WRIA-wide long term
283 monitoring program was prepared concurrent with the development of this WRIA 1 DIP. The
284 rationale for developing the long term monitoring strategy in a parallel process to the development of
285 the WRIA 1 DIP is that elements of the monitoring strategy could then be incorporated into the DIP
286 with identified milestones and schedule for their implementation. This is intended to expedite the
287 timeframe for collecting information needed to further inform implementation and evaluation of
288 WMP actions.

289 There are three elements to the WRIA 1 Long Term Monitoring Strategy (Appendix B):

- 290 ▪ An over-arching WRIA 1-wide program that addresses WRIA 1 Watershed Management Project
291 goals and objectives;
- 292 ▪ A complementary monitoring element that supports existing monitoring programs designed and
293 implemented to meet an entity's specific program goals and objectives, that complement the over-

294 arching WRIA 1-wide monitoring program, and that are important to achieving the goals of the
295 WRIA 1 Watershed Management Project; and

296 ▪ A drainage-based monitoring element that incorporates monitoring elements associated with
297 individual drainages as the drainages implement organized management units.

298 Section 6 of the WRIA 1 Long Term Monitoring Strategy includes recommendations associated with
299 data collection, data management, and data analysis. Milestones and schedule for implementing the
300 recommendations have been incorporated into Table 3 of this WRIA 1 DIP.

301 **4.3 Milestones and Schedule**

302 Table 3 of the WRIA 1 DIP identifies interim milestones and a quarterly schedule for implementing
303 Tier 1 actions and strategies. The schedule in this version of the WRIA 1 DIP for the Tier 1 actions
304 spans Quarter 3 of 2007 (Q3/07) to Q4/09. However, the intent is to review actions and strategies
305 identified in the DIP on a regular basis as part of Adaptive Management, which may result in
306 adjustments to both schedule and milestones. It is also important to note that Section 5 of the June
307 2005 WRIA 1 WMP identified actions for implementation from 2005/2006. The status of those
308 activities was taken into consideration in developing this WRIA 1 DIP and is reflected in the
309 milestones and schedule identified in Table 3.

310 The availability of funding and continued commitments from WRIA 1 Watershed Management
311 Project participants is a critical component of implementation; changes in either may adversely affect
312 the implementation schedule. Conversely, securing dedicated project funding and/or staff will
313 provide additional opportunities for implementing actions. Changes affected by funding and staffing
314 will be reflected in adjustments made to the WRIA 1 DIP as part of Adaptive Management.

315 **5.0 Funding Options**

316 This section of the WRIA 1 DIP addresses the requirements of RCW 90.82.043 to identify funding
317 mechanisms for implementing actions.

318 Successful implementation of actions and strategies identified in the approved June 2005 WRIA 1
319 WMP and its associated WRIA 1 DIP requires a long term commitment to staffing and funding
320 resources. Tasks to address long term funding are identified in the “Related Information” column of
321 Table 3 of this DIP and include establishing a funding subcommittee to participate in identifying
322 funding options for consideration. The intent is to expand on the May 2005 effort of a WRIA 1
323 Planning Unit subcommittee that reviewed and identified funding options for presentation to the
324 legislative bodies. The funding subcommittee will also consider governance and integration topics
325 given their relationship to funding.

326 Interim funding to continue implementing actions and strategies as identified in this WRIA 1 DIP
327 will be pursued through Phase IV Watershed Planning Implementation funds provided by the
328 Washington State Legislature, commitments from participating governments for continued staff
329 involvement, and pursuing partnerships with other entities implementing similar or complementary
330 programs.

331 **5.1 Phase IV Watershed Planning Funds**

332 Phase IV Watershed Planning Implementation funds include:

- 333 • Up to \$100,000 per year for the first three years of implementation, with a 10% required match.
- 334 Second and third year funding is conditioned on the completion of an approved DIP.
- 335 • Up to \$50,000 for the fourth and fifth years of implementation, with a 10% required match.

336 It is anticipated that Phase IV Implementation funds will be applied to projects in this WRIA 1 DIP
337 as outlined in Table 4 - Summary of Funding for 2007-2009.

338 **5.2 Watershed Operating and Capital Budget**

339 Washington State Watershed Operating and Capital Budget is a potential source for funding priority
340 projects in a watershed. The total amount state-wide for the 2007-2009 biennium is approximately \$4
341 million. The WRIA 1 Staff Team is preparing budget requests for funding consideration in this
342 biennium to implement portions of this WRIA 1 DIP including stream gages and water quality
343 monitoring. Table 4 identifies actions being considered for this funding source.

344 **5.3 Watershed Protection and Restoration Grant**

345 The Nooksack Indian Tribe was awarded a Washington State Department of Ecology Watershed
346 Protection and Restoration Grant to support integration and coordination of WRIA 1 Salmon
347 Recovery Program efforts with other watershed planning efforts. Table 3 of this WRIA 1 DIP
348 includes subtasks under Natural Resources Program Integration and Governance and Administration
349 that reference coordinating with the Nooksack Indian Tribe on efforts pursued under the Watershed
350 Protection and Restoration Grant.

351 **5.4 Resource Commitments from Implementing Entities**

352 Table 3 identifies leads responsible for implementing subtasks under each Tier 1 Action. In most
353 cases, the existing resources of the entity identified are used to support their participating staff. In
354 addition to the lead identified, other entities' staff may be involved in the implementation of
355 individual subtasks. For example, references to the WRIA 1 Staff Team as lead for overseeing the
356 implementation of a subtask actually involves staff representing the Joint Board entities and the
357 Washington State Department of Ecology. There has not been an effort in this DIP to quantify the
358 value of these commitments although the total value is significant.

359 **5.5 Partnership Opportunities**

360 Opportunities to partner with other entities involved in activities or programs underway in WRIA 1
361 will be pursued during implementation of the WRIA 1 DIP. Table 3 identifies several subtasks
362 where establishing partnerships may benefit or expedite implementation. The WRIA 1 Long Term
363 Monitoring Plan is an example of a Tier 1 program that has a number of opportunities for
364 establishing partnerships. In situations where implementation involves a partnership between
365 implementing entities, an Interlocal Agreement, Memorandum of Understanding, or other agreement
366 that formalizes the partnership will be developed as necessary.

367 Abbreviations:
 368 NE = Not Estimated
 369 TBD = To Be Determined

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
Complete Phase III Technical Scope of Work	<ul style="list-style-type: none"> USU Phase III Scope of Work Models Completed WRIA 1 review & comment process associated with each of the milestones. 	<ul style="list-style-type: none"> Pre-Peer Review Model/Reports for WRIA Technical Team Review Peer Review (Full Beta) Model/Reports Full Release Model/Reports Uncertainty/Sensitivity Memo Final approval of USU contract deliverables 	<ul style="list-style-type: none"> Q3/07 (pre-peer review version) Q4/07-Q1/08 (peer review version) Q2/08 (full release version & uncertainty/ sensitivity memo) Q2-Q3/08 (final approvals on contract deliverables) 	<ul style="list-style-type: none"> WRIA 1 Joint Board⁴ lead on USU contract (all milestones) WRIA 1 Staff Team/Tech Team Leads coordinate review & comment 	<ul style="list-style-type: none"> Existing- USU Phase III Contract Existing- MOA between WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Phase III technical work to complete the Decision Support System and related models (Surface water quality, surface water quantity, and instream flow/fish habitat) is described in the June 2005 WRIA 1 WMP. Each entity involved in the WRIA 1 process will need to consider staff allocation for participating in the review and comment process for the USU products listed under “milestones”.
	<ul style="list-style-type: none"> DSS Technology Transfer/ Training (includes SWQN, SWQL, ISF/FH models) 	<ul style="list-style-type: none"> DSS Server installation and configuration Technical workshop-Scenario Builder Training DSS final training 	<ul style="list-style-type: none"> Q3/07 (DSS install & Scenario Training) Q2/08 (final DSS training) 	<ul style="list-style-type: none"> WRIA 1 Joint Board administrator lead for coordinating with USU on DSS install and training workshop 	<ul style="list-style-type: none"> Existing- USU Phase III Contract Existing- MOA for WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Entities having the DSS installed on their servers and that are interested in participating in the DSS administration training will need to coordinate with Whatcom County/DSS Tech Team
	<ul style="list-style-type: none"> Peer Review of Models and Associated Support 	<ul style="list-style-type: none"> Establish Peer Review Panel Compilation of Tech Team and Peer Review Panel (PRP) comments on Full Beta release. Compilation of Tech Team and PRP comments on full release. 	<ul style="list-style-type: none"> Q4/07 (Establish Panel) Q4/07-Q2/08 (PRP and TT review/comment) 	<ul style="list-style-type: none"> WRIA 1 Joint Board administrator lead for Peer Review Panel WRIA 1 Staff Team/Tech Team Leads coordinate review & comment 	<ul style="list-style-type: none"> Existing- USU Phase III Contract Existing- MOA for WRIA 1 Initiating Governments New- Contracts with PRP members if needed 	
Complete WRIA 1 Instream Flow Pilot Negotiation Projects	<ul style="list-style-type: none"> Bertrand Drainage Instream Flow Pilot 	<ul style="list-style-type: none"> Negotiated agreements on recommended target flows. Target flows presented to Joint Board and Planning Unit for consideration. Joint Board and Planning Unit approval of target flows. 	<ul style="list-style-type: none"> Q3/07 (ISF participants agree on target flows) Q4/07 (Joint Board and Planning Unit consideration of target flows) Q2/08 (seek Joint Board and Planning Unit approval) 	<ul style="list-style-type: none"> Public Utility District No. 1 lead on administering task orders for contracted services to implement elements of Bertrand ISF negotiation pilot project. Department of Ecology is lead for legal mediation contract. 	<ul style="list-style-type: none"> Existing-Interlocal agreement between PUD & Whatcom County. Existing-Confidentiality agreements signed by ISF negotiation participants. New-MOA between affected parties. New- Negotiated agreements with Bertrand stakeholders 	<ul style="list-style-type: none"> The Bertrand Drainage Instream Flow Pilot project is an early implementation activity initiated in fall 2005 with funds from Whatcom County and Department of Ecology and supported with in-kind contributions from Initiating Governments. The pilot is using the ISF Selection and Adoption Action Plan described in Section 3 of the WRIA 1 WMP as guidance. The pilot negotiation process is nearing the final stages of the four step process for the Selection phase of the ISF Action Plan. The WRIA 1 Detailed Implementation Plan focuses on milestones, schedule, and resources associated with completing the Bertrand Drainage Instream Flow Pilot. Alternative approaches for formalizing flow process (e.g., less formal MOU and/or negotiated settlement approved by court) may be considered as part of the milestones listed.
	<ul style="list-style-type: none"> Middle Fork Instream Flow Pilot 	<ul style="list-style-type: none"> Negotiated agreements on recommended target flows. Target flows presented to Joint Board and Planning Unit for consideration. Joint Board and Planning Unit approval of 	<ul style="list-style-type: none"> Q3/07 (ISF participants agree on target flows) Q4/07 (Joint Board and Planning Unit consideration of target flows) 	<ul style="list-style-type: none"> City of Bellingham lead on Middle Fork ISF negotiation pilot project Department of Ecology is lead for legal mediation 	<ul style="list-style-type: none"> Existing- Interlocal agreement between PUD & Whatcom County. Existing- Confidentiality agreements signed by ISF 	<ul style="list-style-type: none"> The Middle Fork Instream Flow Pilot project is an early implementation activity initiated in fall 2005 with funds from City of Bellingham and Department of Ecology and supported with in-kind contributions from Initiating Governments. The pilot is using the ISF Selection and Adoption Action Plan described in Section 3 of the WRIA 1 WMP as guidance.

⁴ Whatcom County administers the USU contract on behalf of the WRIA 1 Joint Board.

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
		target flows.	<ul style="list-style-type: none"> Q2/08 (seek Joint Board and Planning Unit approval) 	contract.	negotiation participants. <ul style="list-style-type: none"> New-MOA between affected parties. New- Negotiated agreements with Middle Fork stakeholders 	The pilot negotiation process is nearing the final stages of the four step process for the Selection phase of the ISF Action Plan. <ul style="list-style-type: none"> The WRIA 1 Detailed Implementation Plan focuses on milestones, schedule, and resources associated with completing the Middle Fork Instream Flow Pilot. Alternative approaches for formalizing flow process (e.g., less formal MOU and/or negotiated settlement approved by court) may be considered as part of the milestones listed.
WRIA 1 Instream Flow Selection & Adoption Action Plan (ISF Action Plan)	<ul style="list-style-type: none"> Evaluate ISF Pilot Negotiation Process 	<ul style="list-style-type: none"> Compare implementation of ISF Pilot Negotiation process to documented WRIA 1 ISF Action Plan process to identify areas where implementation may have differed from the planned process. Review and evaluate ISF Pilot Negotiation process through interviews with participants of the ISF Pilots and public process or technical documents. Prepare summary report identifying outcomes of evaluation and recommendations for changes to the WRIA 1 ISF Selection and Adoption Action Plan. 	<ul style="list-style-type: none"> Q4/07 (initiate review and evaluation of documents from ISF Pilot projects) Q1/08 (interview pilot participants) Q1/08-Q2/08 (prepare summary report) 	<ul style="list-style-type: none"> WRIA 1 Staff Team/Tech Team coordinates task 	<ul style="list-style-type: none"> Existing- Interlocal agreement between PUD & Whatcom County. Existing- Confidentiality agreements signed by ISF negotiation participants. TBD 	<ul style="list-style-type: none"> The evaluation of the ISF Pilot Projects will be completed and recommendations considered prior to implementing the WRIA 1 ISF Selection and Adoption Action Plan Version 6C.
	<ul style="list-style-type: none"> Selection of geographic areas for initiating and implementing ISF Action Plan. 	<ul style="list-style-type: none"> ISFWG recommend next four drainages for initiating the ISF Action Plan process (2 upper watershed and 2 lower watershed) Present geographic area recommendations to Joint Board and Planning Unit for consideration. Joint Board and Planning Unit approval of geographic areas for ISF Action Plan implementation. 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> WRIA 1 Staff Team/ Tech Team Leads coordinate process for selecting geographic areas. Lead for the geographic areas selected will be considered as part of the Joint Board discussion of geographic areas to initiate ISF process. WCPDS lead for DIP developed under Phase 4 Implementation Grant 	<ul style="list-style-type: none"> Existing- MOA between WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Milestones and schedule for implementing the ISF Selection and Adoption Action Plan is dependent on the outcomes of the evaluation that will be conducted of the ISF Pilot Negotiation process described in the previous subtask. The existing MOA between the Initiating Governments (IG) supports continued participation of IG staff for purposes of implementing the ISF Action Plan. The ISFWG are considering Fishtrap and Tenmile as the 2 lower WRIA 1 drainages and North Fork and South Fork as the 2 upper WRIA 1 drainages. ISFWG recommends initiating concurrent processes for two drainages; one in the upper watershed and one in the lower watershed.
	<ul style="list-style-type: none"> Initiate process in two of the four selected areas. 	<ul style="list-style-type: none"> Prepare PIE plan Initiate public outreach in 2 of the 4 geographic areas selected ISFWG workshops with affected parties within the identified drainages to discuss flow recommendations. Initiate meetings between ISFWG and affected parties and enter into confidentiality agreements 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> New- Confidentiality agreements with participants of ISF negotiations 	<ul style="list-style-type: none"> Drainages in the lower watershed that are being considered by the ISFWG are expected to proceed sooner than drainages in the upper watershed with regard to public outreach efforts and creation of a drainage management unit given existing community awareness and involvement in local water issues. Initiating public outreach includes developing a PIE plan for outreach efforts through the negotiated flow stage. The Bertrand and Middle Fork ISF Pilot PIE efforts will be considered in the drafting of a PIE plan that can be used as a template for the remaining geographic areas. A template that can be modified or adapted to meet the needs of the individual

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
		<ul style="list-style-type: none"> Updates on process to WRIA 1 Watershed Management Project participants 				<p>drainage will maximize resources and expedite the process.</p> <ul style="list-style-type: none"> Public outreach should be a stepped process starting with general ISF process information targeting a general audience prior to the ISFWG organizing workshops in the drainage with affected parties to discuss initial target flows. It is anticipated that the combination of early outreach and initiation of ISFWG workshops will result in establishing a drainage-level management unit if one does not already exist. A single point of contact for implementing the ISF Action Plan public outreach is important to maintaining and ensuring consistency throughout the implementation process.
	<ul style="list-style-type: none"> Develop Initial Target Flows in first two areas 	<ul style="list-style-type: none"> ISFWG reviews IF/FH Tech Team preliminary flows for selected drainages; present to ISF process participants 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> TBD 		<ul style="list-style-type: none"> The ISF/FH Technical Team have identified preliminary flows for the basins that are being considered for ISF negotiations. The preliminary flows will be reviewed and evaluated by the ISFWG to identify any additional model output or data needed from USU as they calibrate the WRIA 1 models.
	<ul style="list-style-type: none"> Convert target flows to negotiated flows in first set of selected basins for Joint Board and Planning Unit approval 	<ul style="list-style-type: none"> Members of affected parties in two selected drainages meet with ISFWG to evaluate and refine instream and out of stream water use for current and future needs Identify management options and strategy for addressing water needs ISFWG and affected parties reach agreement on target flows and prepare recommendations to Joint Board and Planning Unit for approval. Target flows presented to Joint Board and Planning Unit for consideration. Joint Board and Planning Unit approval of target flows. 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> New-MOA between affected parties. New- Negotiated agreements with drainage area stakeholders 	<ul style="list-style-type: none"> Inchoate rights are considered in discussions of current and future water use estimates/ needs and management options/strategies to meet instream and out of stream water use. Experience of the ISF Pilot Negotiations indicates that the processes in the two basins may occur at slightly different rates depending on a number of factors including availability of technical information, water use information, number of stakeholders, and extent of community preparedness specific to forming a drainage-based management unit and/or entering discussion of instream flows. Alternative approaches for formalizing flow process (e.g., less formal MOU and/or negotiated settlement approved by court) may be considered as part of the milestones listed.
	<ul style="list-style-type: none"> Initiate process in next two geographic areas (second set of four areas selected in Q3/07) 	<ul style="list-style-type: none"> Initiate public outreach in next two geographic areas selected ISFWG workshops with affected parties within the identified drainages to discuss flow recommendations. Initiate meetings between ISFWG and affected and enter into confidentiality agreements Updates on process to WRIA 1 Watershed Management Project participants 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> Lead for the geographic areas selected will be considered as part of the Joint Board discussion of geographic areas to initiate ISF process⁵. 	<ul style="list-style-type: none"> New- Confidentiality agreements with participants of ISF negotiations 	<ul style="list-style-type: none"> PIE plan template created in Q3/07 will be modified, if necessary, and plan activities adapted to selected drainages for purposes of initiating outreach. Public outreach should be a stepped process starting with general ISF process information targeting a general audience prior to the ISFWG organizing workshops in the drainage with affected parties to discuss initial target flows. It is anticipated that the combination of early outreach and initiation of ISFWG workshops will result in establishing a drainage-level management unit if one does not already exist.

⁵ Lead for the geographic areas is assumed to be the lead for the remaining steps associated with implementing the ISF Action Plan within the geographic area identified.

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
	<ul style="list-style-type: none"> Develop Initial Target Flows in next two basins. 	<ul style="list-style-type: none"> ISFWG reviews IF/FH Tech Team preliminary flows for selected drainages; present to ISF process participants 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> TBD 		<ul style="list-style-type: none"> It is anticipated that the WRIA 1 DSS will expedite review of initial preliminary flows for presentation to the participants of the ISF negotiations.
	<ul style="list-style-type: none"> Convert target flows to negotiated flows in second set of selected basins for Joint Board and Planning Unit approval 	<ul style="list-style-type: none"> Members of affected parties in selected drainages meet with ISFWG to evaluate and refine instream and out of stream water use for current and future needs Identify management options and strategy for addressing water needs ISFWG and affected parties reach agreement on target flows and prepare recommendations to Joint Board and Planning Unit for approval. Target flows presented to Joint Board and Planning Unit for consideration Joint Board and Planning Unit approval of target flows. 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> New-MOA between affected parties. New- Negotiated agreements with drainage area stakeholders 	<ul style="list-style-type: none"> The schedule for the second set of the four drainage basins selected in Q3/07 is expected to be shorter than the negotiation process in previous basins for the following reasons: confidentiality agreements and MOAs from previously negotiated basins can be used as templates, water use estimating will be expedited by availability of WRIA 1 models, and discussion of management options/strategies can draw on experience and outcomes of previously negotiated basins. Alternative approaches for formalizing flow process (e.g., less formal MOU and/or negotiated settlement approved by court) may be considered as part of the milestones listed.
	<ul style="list-style-type: none"> Complete ISF negotiations in remaining WRIA 1 basins. 	<ul style="list-style-type: none"> Identify geographic areas, milestones, timelines, budget, and responsible lead for purposes of completing ISF negotiations in remaining WRIA 1 drainages. 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> New-MOA between affected parties will be developed as the processes are initiated in the remaining geographic areas. New- Negotiated agreements with drainage area stakeholders will be developed as part of the process. 	
	<ul style="list-style-type: none"> Final Flow Recommendations 	<ul style="list-style-type: none"> ISFWG compile and review recommended flows from each drainage system for inconsistencies and contradictions Present complete set of flow recommendations to Joint Board and Planning (includes holding public hearing on recommendations) Joint Board and Planning Unit approval of final recommended flows Incorporate approved final flows into next version of WRIA 1 WMP Planning Unit provides direction to Ecology to proceed with rule-making if change to current regulatory flows is required. Forward agreed to flows to 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> TBD 	

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS		Federal/Tribal/State settlement negotiations				
WRIA 1 Long Term Monitoring Plan Strategy	<ul style="list-style-type: none"> Identify ground water monitoring program to support Section 3.0 of WRIA 1 LTMP strategy. 	<ul style="list-style-type: none"> Compile existing WRIA 1 programs relative to ground water monitoring. Conduct review of existing WRIA 1 programs. Develop draft monitoring program, if needed, based on outcome of review. Identify lead, funding, and agreements needed to implement ground water program. Incorporate into WRIA 1 LTMP Strategy as part of adaptive management (Section 7.0, WRIA 1 LTMP Strategy). 	<ul style="list-style-type: none"> Q1/08 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinates implementing recommendation. WRIA 1 QnTT is lead for reviewing existing programs and, if needed, drafting program to fill gaps or draft new program. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Corresponds to Recommendation DC1 of the WRIA 1 Long Term Monitoring Plan Strategy, Section 6.0.
	<ul style="list-style-type: none"> Develop agreements for including stream temperature and periodic dissolved oxygen measurements at all gage stations equipped with recorders or telemetry systems. 	<ul style="list-style-type: none"> Identify approach(es) for obtaining agreements with USGS and/or EAP to install, operate, and maintain stream temperature recorders at gage stations. Identify approach(es) for obtaining periodic dissolved oxygen measurements at gage stations at part of station maintenance. Install stream temperature probes at gage stations that do not currently have probes Obtain agreements with USGS, EAP, and/or others for purposes of implementing recommendation. Obtain agreements with Environment Canada for three existing border stations relative to installation of stream temperature recorders and periodic dissolved oxygen measurements. 	<ul style="list-style-type: none"> Q3/07 (approaches for obtaining agreements) Q1/08 (install probes at gages) Q4/07 (obtain agreements for implementing data collection at USGS/EAP sites) Q1/08 (obtain agreements w/ Environment Canada for border sites) 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinates implementing recommendation with USGS and/or EAP 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments New- Agreement with USGS and/or EAP for new measurements at gage stations. New- Agreement with Environment Canada for adding new measurements at border gage stations. 	<ul style="list-style-type: none"> Corresponds to Recommendation DC2 of the WRIA 1 Long Term Monitoring Plan Strategy, Section 6.0. Annual costs identified in first bullet do not include installation of stream temperature probes. As of March 2007, WRIA 1 Staff Team members in conjunction with USGS have developed an action plan to install stream temperature probes at six of the USGS stations with potentially available funding through existing programs.
	<ul style="list-style-type: none"> Identify and secure agreements and/or funding for stream gage network. 	<ul style="list-style-type: none"> Develop matrix of gages and current sources of funding (short and long term) Develop matrix of funding options and leads for stream gage network (includes O&M costs for flow and temp and periodic DO measurements). Present options to decision-makers for discussion. Follow-up to outcomes of decision-makers' discussion incorporated into WRIA 1 LTMP strategy adaptive management. Secure agreements for funding options. 	<ul style="list-style-type: none"> Q3/07 (develop matrix of current funding) Q4/07 (develop matrix of long-term funding options) Q1/08 (present options to decision-makers) Q2/08 (Secure agreements) 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinates tasks associated with identifying funding options, presenting to decision-makers, and securing agreements. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments New- Long-term agreements developed with EAP and/or USGS for gage stations. 	<ul style="list-style-type: none"> Corresponds to Recommendation DC3 of the WRIA 1 Long Term Monitoring Plan Strategy, Section 6.0. The WRIA 1 stream gage network consists of 29 gages, 3 of which are located in British Columbia and are operated by Environment Canada. The remaining 26 gages are currently operated by EAP or USGS with funding support by different agencies. Estimated costs to maintain, operate, and publish results differ between USGS and EAP with the primary difference being in the publication. The minimum estimated annual cost associated with the 26 gages is \$330,200. This annual estimated cost does not include periodic dissolved oxygen measurements. Environment Canada's annual costs for operating and maintaining the three border stations will be discussed as part of the agreements discussed and obtained in previous task.

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
	<ul style="list-style-type: none"> Correlate existing gaging stations over a range of flow conditions. Conduct short-term (preferably one year duration) measurements at unaged drainages to establish correlations with existing stations. 	<ul style="list-style-type: none"> Develop draft scope of work and budget for two-year field effort to correlate existing gage stations. Develop draft scope of work and budget for one year data collection effort at unaged drainages for purposes of establishing correlation with existing stations. Present scopes of work and budgets to WRIA 1 Staff Team for discussion. Identify lead and funding for implementing scopes. Incorporate into WRIA 1 LTMP strategy adaptive management for implementation purposes. 	<ul style="list-style-type: none"> Q1/08 (draft scopes of work) 	<ul style="list-style-type: none"> WRIA 1 ISF/FH and SWQN Technical Team Members lead on initiating discussion and drafting scopes of work. WRIA 1 ST/TTL identifies potential lead and funding source for decision-makers consideration. WRIA 1 ST/TTL coordinates implementation of technical scope of work as part of WRIA 1 LTMP Strategy adaptive management. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments New- Contract for data collection and analysis. 	<ul style="list-style-type: none"> Corresponds to Recommendation DC4 of the WRIA 1 Long Term Monitoring Plan Strategy, Section 6.0.
	<ul style="list-style-type: none"> Establish agreements and/or funding for water quality monitoring stations identified in WRIA 1 LTMP Strategy. 	<ul style="list-style-type: none"> Identify short-term funding options for stations that may no longer be funded past 10/07. Develop long-term funding options for 6 stations for a range of water quality parameters. Present options to decision-makers for discussion. Follow-up to outcomes of decision-makers' discussion incorporated into WRIA 1 LTMP strategy adaptive management. Obtain agreements with USGS, EAP, and/or others for purposes of implementing recommendation. 	<ul style="list-style-type: none"> Q3/07 (short term funding) Q4/07 (long term funding options; coordinate with stream flow network) Q1/08 (present options; coordinate with stream flow network) Q2/08 (Secure agreements) 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinates tasks associated with identifying funding options, presenting to decision-makers, and securing agreements. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments New- Long-term agreements developed with EAP and/or others for water quality stations. 	<ul style="list-style-type: none"> Corresponds to Recommendation DC5 of the WRIA 1 Long Term Monitoring Plan Strategy, Section 6.0.
	<ul style="list-style-type: none"> Develop framework for a drainage-based monitoring program. 	<ul style="list-style-type: none"> Draft framework for program based on programs developed for pilot negotiation areas. Incorporate framework into WRIA 1 LTMP strategy adaptive management program for implementation. 	<ul style="list-style-type: none"> Q1/08 (develop program) Q2/08 (incorporate in LTMP strategy) 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinates completion of tasks. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Corresponds to Recommendation DC6 of the WRIA 1 Monitoring Plan Strategy, Section 6.0. The ISFWG has been working with the Bertrand WID to develop a monitoring program for the Bertrand drainage that addresses drainage management needs. The program being developed for the WID will serve as a basis for WRIA 1 ST/TTL discussions for a general framework that can be adopted by other drainage management units.
	<ul style="list-style-type: none"> Incorporate elements of Habitat Monitoring Methodology into the WRIA 1 LTMP Strategy. 	<ul style="list-style-type: none"> Review parameter monitoring methodologies developed as part of the overall Habitat Monitoring Methodology Incorporate relevant methodologies into WRIA 1 LTMP Strategy. 	<ul style="list-style-type: none"> Q4/07 (review monitoring methodologies) Q1/08 (incorporate into LTMP strategy) 	<ul style="list-style-type: none"> ISF/FH Tech Team lead for coordinating meetings with Salmon Recovery Work Group to review monitoring methodologies. WRIA 1 ST/TTL for coordinating incorporation of relevant methodologies 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Corresponds to Recommendation DC7 of the WRIA 1 LTMP Strategy, Section 6.0.

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
				into the WRIA 1 LTMP Strategy.		
	<ul style="list-style-type: none"> Coordinate with entities implementing complementary programs. 	<ul style="list-style-type: none"> Obtain complementary program information from implementing entities. Incorporate complementary program details into WRIA 1 LTMP Strategy. 	<ul style="list-style-type: none"> Q3/07 (initiate contact; gather program data) Q4/07 (incorporate details into WRIA 1 LTMP Strategy) 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinate task. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Corresponds to Recommendation DC8 of the WRIA 1 LTMP Strategy, Section 6.0.
	<ul style="list-style-type: none"> Identify centralized system for managing data at stations identified in the over-arching monitoring program. 	<ul style="list-style-type: none"> Evaluate WRIA 1 Decision Support System data management system and framework for purposes of using it as a centralized system for WRIA-Wide data management. 	<ul style="list-style-type: none"> Q4/07 (Evaluate DSS data management system) Q1/08 (Collaborate with entities collecting data to agree on approach) Q2/08 (develop agreements to implement centralized data management system) 	<ul style="list-style-type: none"> Whatcom County /WRIA 1 DSS Tech Team (conduct evaluation, collaborate with others, coordinate with ST/TTL, obtain agreements) 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments New- agreements with entities collecting data relative to approach and process for managing data 	<ul style="list-style-type: none"> Corresponds to Recommendation DM1 of the WRIA 1 LTMP Strategy, Section 6.0. The evaluation for a centralized data management system should consider interactive linkage to a GIS mapping system, provides a clear linkage to updating the WRIA 1 DSS and underlying models, and use of a web-based tool to communicate data coordination between agencies and that supports public outreach and education.
	<ul style="list-style-type: none"> Incorporate data from complementary programs into WRIA 1 Decision Support System. 	<ul style="list-style-type: none"> Coordinate with entities of complementary programs to identify format and process for DSS Data Manager to receive data. 	<ul style="list-style-type: none"> Q2/08 	<ul style="list-style-type: none"> Whatcom County/WRIA 1 DSS Tech Team for coordinating with entities of complementary programs. WRIA 1 ST/TTL for coordinating incorporation outcomes into the WRIA 1 LTMP Strategy. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Corresponds to Recommendation DM2 of the WRIA 1 LTMP Strategy, Section 6.0.
	<ul style="list-style-type: none"> Integrate water use information into WRIA 1 DSS. 	<ul style="list-style-type: none"> Provide feedback to Ecology on format for organizing data collected by Ecology on metered water users. 	<ul style="list-style-type: none"> Q3/07 	<ul style="list-style-type: none"> Department of Ecology - BFO 	<ul style="list-style-type: none"> TBD 	<ul style="list-style-type: none"> June 2005 WRIA 1 Watershed Management Plan recommends receiving annual updates from Ecology on water use information relative to their current requirements for obtaining use data on 80% of water use, integrating it into the DSS, and as appropriate, refining water use information in the ISF Pilot negotiations. Ecology will provide meter data from WRIA 1 to the Planning Unit upon request. At this time the data are WRIA-wide. Breakdown of the data into smaller geographic units could be provided depending upon available resources at Ecology's Bellingham Field Office (BFO). Corresponds to Recommendation DM3 of the WRIA 1 LTMP Strategy, Section 6.0.
	<ul style="list-style-type: none"> Establish process for analyzing data collected under WRIA 1 LTMP Strategy and evaluating if goals and objectives of Strategy are being met. 	<ul style="list-style-type: none"> Establish process for analyzing data. Evaluate data and assess extent to which goals and objectives are being met. Make recommendations for program modifications to be considered as part of 	<ul style="list-style-type: none"> Q4/07 (identify process) TBD (schedule for evaluating data and subsequent recommendations will be addressed as part of the process established. 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinate task. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments 	<ul style="list-style-type: none"> Corresponds to Recommendation DA1 of the WRIA 1 LTMP Strategy, Section 6.0.

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
		LTMP Strategy adaptive management.				
Compliance Program ⁶	• Water right education efforts and technical assistance	<ul style="list-style-type: none"> • Continue water right education in the ISF pilot negotiation drainages (Bertrand and Middle Fork) • Continue providing technical assistance to the Bertrand WID as part of the ISF Pilot Negotiations to develop a cooperative water management strategy that addresses water use for permitted and non-permitted users. • Evaluate 2005/2006 water code compliance efforts and outcomes of investigation of complaints. • Based on evaluation, identify drainages that may benefit from a prioritized focus on education and/or technical assistance. 	<ul style="list-style-type: none"> • Q3/07 through Q2/08 (continue water right education in ISF pilot areas) • Q4/07 (technical assistance to Bertrand WID) • Q4/07 (evaluate code compliance and outcomes of complaint investigations) • Q1/08 (identify drainages for focusing education and/or technical assistance) 	• Ecology lead with updates to/coordination with WRIA 1 ST/TTL	<ul style="list-style-type: none"> • Existing- MOA for WRIA 1 Initiating Governments • New- Bertrand WID agreement with Ecology for water management strategy that addresses water use. 	<ul style="list-style-type: none"> • Ecology hired two new Water Resources staff in June 2006. Their duties include water code compliance/enforcement activities and reviewing and evaluating water right claims in WRIA 1. • From June 2006 - April 2007 Ecology's Bellingham Field Office (BFO) responded to 32 water code complaints
	• Identify approach(es) for implementing WRIA 1 Watershed Management Plan, Compliance Program goals 3-6.	<ul style="list-style-type: none"> • Establish committee composed of representatives of regulatory agencies to develop implementation strategy that addresses Compliance Program goals. • Consider strategy elements for implementation as part of adaptive management. 	<ul style="list-style-type: none"> • Q1/08 (establish committee) • Q3/08 (strategy drafted) • Q4/08 (consider elements to incorporate into adaptive management process) 	• WRIA 1 ST/TTL coordinate task.	• Existing- MOA for WRIA 1 Initiating Governments	• Suggested composition of the committee is outlined in the WRIA 1 Watershed Management Plan, Section 3. This suggestion presents one approach for establishing the committee.
	• Public education and technical assistance related to existing regulations addressing water supply, instream flow, water quality, and fish habitat issues	<ul style="list-style-type: none"> • Identify approaches for broadening exposure and scope of the County's Natural Resource Management website and education efforts. • Develop additional education approaches and technical assistance needs to meet specific issues that may be identified through the committee process of addressing goals 3-6 of the compliance program (above subtask). • Develop scope, budget, and lead for implementing additional education/technical assistance needs. 	• Q3/08	• Whatcom County/WRIA 1 ST/TTL coordinate task with WRIA 1 PIE Tech Team	• Existing- MOA for WRIA 1 Initiating Governments	<ul style="list-style-type: none"> • Whatcom County PDS has developed a Natural Resource Management website to broaden public education of the CAO and SMP ordinances and natural resources associated with the ordinance. • Whatcom County PDS developed informational brochures related to critical areas management and regulations for the public and other government entities within WRIA 1. • Whatcom County PDS and Whatcom Conservation District developed an education and assistance document for small farm owners related to land management under the County CAO. Funding to continue educational opportunities and technical assistance to farm owners/operators has been dedicated through the 2007-2008 Whatcom County budget process.

⁶ Six goals are identified for the Compliance Program as described in the June 2005 WRIA 1 Watershed Management Plan. Briefly, the goals include: 1) public education of existing regulations that address water supply, instream flow, water quality, and fish habitat issues; 2) technical assistance to those regulated; 3) developing an understanding of where and why compliance is not adequate; 4) conducting prioritized enforcement as necessary to achieve WRIA 1 Watershed Management Project goals; 5) evaluate effectiveness of existing regulations; and 6) recommending changes to regulations that are found to be ineffective.

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
Natural Resource Policy Integration Program (NRPI) ⁷	<ul style="list-style-type: none"> Improve efficiency and effectiveness between existing natural resource programs. 	<ul style="list-style-type: none"> Implement outcomes of WRIA 1 Joint Board discussions associated with program coordination. Present outcomes of the Whatcom County Comprehensive Water Resource Integration Project. Present outcomes of Nooksack Tribe grant deliverable identifying approaches to improve integration and coordination between WRIA 1 watershed planning and salmon recovery planning. Identify additional areas, if necessary, for improving coordination and/or integration of elements within existing County programs. Identify opportunities for improving efficiencies and effectiveness among WRIA 1 jurisdictions implementing natural resource programs. Develop strategy for implementing opportunities and needs identified in previous milestones. Evaluate Whatcom County PDS website developed for the SMP and CAO for purposes of expanding scope of the website to include other Whatcom County natural resource programs and links to other jurisdictions natural resource programs. 	<ul style="list-style-type: none"> Q4/07 (implement outcomes of Joint Board discussions) Q1/08 (present outcomes of Comprehensive Water Resource Integration Project and Nooksack Tribe coordination grant) Q2/08 (identify additional coordination/integration needs) Q2/08 (develop strategy) Q4/07 (evaluate opportunities to expand Whatcom County PDS website) 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinates outcomes of Joint Board discussions. WRIA 1 ST/TTL & WRIA 1 Salmon Recovery Steering Committee or its designated representatives coordinate reviews and developing strategy. Whatcom County evaluates opportunities to expand website. Whatcom County present outcomes of County Comprehensive Water Resource Integration project Nooksack Tribe present outcomes of watershed project/salmon recovery integration grant recommendations. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments Existing MOU between State of Washington Department of Health and Department of Ecology related to coordination between Planning, Engineer, Public Health and Safety Processes, and Water Resources. TBD 	<ul style="list-style-type: none"> Whatcom County PDS has recently updated the SMP and the CAO. Consistent with the WRIA 1 Watershed Management Plan NRPI Program task to evaluate potentially inconsistent goals and policies among County natural resource programs, the County assessed program goals and policies and addressed them as part of the CAO and SMP updates. The WRIA 1 Joint Board is considering options for improving program coordination of natural resource programs at a policy level. Whatcom County’s Comprehensive Water Resource Integration Project is intended to identify the relationships among their programs and projects (consistencies/inconsistencies), identify guiding principles, and identify where the County should prioritize their resources to effectively implement the County adopted programs and projects. Phase 1 of the proposed project is planned for 2007. The Nooksack Tribe has been awarded a grant from the Department of Ecology that is intended to further integration and coordination of watershed planning and salmon recovery planning in WRIA 1. The State Department of Health (DOH) and Ecology have signed an MOU that will facilitate coordination between the two agencies for planning, engineering, public health and safety, and water resources issues. The MOU describes responsibilities related to the review of water system plans for consistency with watershed plans and instream flows, changes in water system place of use and number of connections, water system plan compliance water rights compliance and enforcement, water use efficiency, and other water system plan concerns. Staff coordinating activities of the WRIA 1 Watershed Management Project and/or the WRIA 1 Salmon Recovery Program should consider opportunities for enhancing coordination between program participants by distributing work products created in one or the other program to participants of the other program.

⁷ Three goals are identified for the Natural Resource Policy Integration Program as described in the June 2005 WRIA 1 Watershed Management Plan. Briefly, the goals include: 1) improve efficiency and effectiveness of water related natural resource planning and policy development, evaluation, and implementation among WRIA 1 jurisdictions; 2) utilize the WRIA 1 Watershed Management Project as a central clearinghouse for “best available science”; and 3) continuously improve the NRPI program.

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
	<ul style="list-style-type: none"> Maintain Whatcom County's resource library and electronic database of reports and plans and enhance it to serve as an online, searchable database that integrates studies and plans of other entities. 	<ul style="list-style-type: none"> Identify options for maintaining and enhancing library and searchable electronic database for WRIA 1 technical reports and plans. Evaluate feasibility of establishing a workstation with the WRIA 1 DSS installed for public use. Discuss options with likely WRIA 1 users of and contributors to a clearinghouse such as local governments, tribes, and non-profits. Based on discussions, develop strategy and scope for creating a clearinghouse/library and database. Implement strategy to provide web access to database. 	<ul style="list-style-type: none"> Q3/08 (identify options, evaluate feasibility of DSS workstation) Q3/08 (discuss options, develop strategy and scope) Q4/08 (implement integrated, web accessible database) 	<ul style="list-style-type: none"> WRIA 1 ST/TTL coordinate task. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments TBD 	<ul style="list-style-type: none"> The WRIA 1 Watershed Management Project website is currently hosted by WSU Extension, Whatcom County (www.wria1project.wsu.edu). Changes, if any, that occur to the WRIA 1 Watershed Management Project website as a result of implementing milestones identified in the NRPI program will be clearly communicated on the WRIA 1 Watershed Management Project website, Whatcom County website (www.co.whatcom.wa.us), and other related websites.
Governance and Administration	<ul style="list-style-type: none"> Implement Phase 1 of the March 2007 draft of the Governance Structure for Implementing WRIA 1 Programs⁸ 	<ul style="list-style-type: none"> Conduct consolidated policy board meetings for WRIA 1 Watershed Management Project and WRIA 1 Salmon Recovery Program. Prepare feasibility report for implementing concepts described in Phase 2 and Phase 3 of the Governance Structure for Implementing WRIA 1 Programs. Present feasibility report to Planning Unit for discussion, feedback/comments, and next steps. Present feasibility report to Joint Board and Salmon Recovery Board for discussion and next steps. 	<ul style="list-style-type: none"> Q3/07 (consolidated policy meetings) Q4/07 (feasibility report) 	<ul style="list-style-type: none"> WRIA 1 Staff Team/Designated representative for the WRIA 1 Salmon Recovery Board WRIA 1 Staff Team coordinate feasibility report with designated representative for Salmon Recovery Steering Committee 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments Existing- ILA between Co-Managers and Local Governments creating the Salmon Recovery Board as Lead Entity Existing- ILA between Initiating Governments creation the WRIA 1 Joint Board Existing- Approval documents for consolidating meetings of the WRIA 1 Joint Board and WRIA 1 Salmon Recovery Board. 	<ul style="list-style-type: none"> Approval to consolidate meetings of the WRIA 1 Watershed Management Project and the WRIA 1 Salmon Recovery Program policy boards- WRIA 1 Joint Board and WRIA 1 Salmon Recovery Board, respectively- was received April 2007. Staff of the two programs will need to identify a process for organizing, setting agendas, and conducting the consolidated meetings. Phase 1 of the Governance Structure for Implementing WRIA 1 Programs recognizes that the Salmon Recovery Program participants will be establishing a community/stakeholder advisory group as part of their process that provides feedback to the Salmon Recovery Steering Committee. With the exception of the consolidated policy meetings, the Salmon Recovery Program and WRIA 1 Watershed Management Project will continue functioning as independent processes. Phases 2 and 3 of the March 2007 draft Governance Structure for Implementing WRIA 1 Programs presents a conceptual framework proposed for enhancing program coordination and integration; this conceptual framework is merely a proposal at this time. It is expected that the governance and funding subcommittee will consider ways of integrating Salmon Recovery and Watershed Planning, including this proposal. Consolidating policy board meetings will increase WRIA 1 Management Project and WRIA 1 Salmon Recovery Program coordination at the policy level.

⁸ Implementing Phase 1 of the March 2007 draft document *Governance Structure for Implementing WRIA 1 Programs* affects the policy board level of the WRIA 1 Structure and Function Document described in the June 2005 WRIA 1 Watershed Management Plan. The policy level change will consolidate meetings of the WRIA 1 Joint Board and the WRIA 1 Salmon Recovery Boards while retaining the decision-making process currently in place for the respective boards. Other elements of the organizational structure for the WRIA 1 Watershed Management Project remain unchanged from the interim implementation strategy as outlined in Section 4.2.2 of the WRIA 1 Watershed Management Plan.

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
	<ul style="list-style-type: none"> Identify long term funding options. 	<ul style="list-style-type: none"> Establish funding subcommittee to participate in identifying funding options. Prepare and present funding options to WRIA 1 Staff Team and WRIA 1 Salmon Recovery Steering Committee for discussion and feedback. Incorporate feedback and work with subcommittee to prepare funding presentation to WRIA 1 Joint Board/WRIA 1 Salmon Recovery Board and Planning Unit for discussion. Policy Boards and Planning Unit approval of preferred option for submitting to legislative bodies for consideration. 	<ul style="list-style-type: none"> Q4/07 (establish subcommittee) Q1/08 (prepare funding options; present to Staff Team/Steering Committee) Q2/08 (incorporate feedback; prepare presentation to policy boards and Planning Unit) Q3/08 (present to legislative bodies for consideration) 	<ul style="list-style-type: none"> WRIA 1 Staff Team and support staff lead for coordinating task. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments Existing- ILA between Co-Managers and Local Governments creating the Salmon Recovery Board as Lead Entity New -TBD 	<ul style="list-style-type: none"> In May 2005 members of the WRIA 1 Planning Unit created a subcommittee to review and identify long-term funding options for implementing the WRIA 1 Watershed Management Plan. The options were presented to the legislative bodies for consideration and discussion. A funding subcommittee that includes WRIA 1 Watershed Management Project participants and WRIA 1 Salmon Recovery Program participants will result in a broader representation of funding needs to present to the policy boards and legislative bodies for consideration. Governance structure and integration and coordination of programs should be considered as part of the funding subcommittee discussions. Funding options for dedicated long term funding will require additional processes at the legislative level.
	<ul style="list-style-type: none"> WRIA 1 Watershed Management Project Support 	<ul style="list-style-type: none"> Organize and conduct Planning Unit meetings as described in the June 2005 WRIA 1 Watershed Management Plan. Organize and conduct up WRIA 1 Staff Team meetings. Organize/coordinate Joint Board meetings. Prepare quarterly reports on implementation tasks for 2007/2008. Communication/coordination support for WRIA 1 Watershed Management Project. 	<ul style="list-style-type: none"> Q1/08 and Q3/08 (tentative schedule for conducting Planning Unit meetings assuming continued process of 1st meeting to review and 2nd meeting to approve) Monthly and as needed (Staff Team meetings) Quarterly and as needed (Joint Board meetings) Q4/07 through Q4/09 (quarterly reports for 2-year implementation schedule) Q4/07 through Q4/09 (ongoing project support) 	<ul style="list-style-type: none"> WRIA 1 Staff Team and support staff lead for coordinating tasks. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments Existing- ILA between Co-Managers and Local Governments creating the Salmon Recovery Board as Lead Entity 	<ul style="list-style-type: none"> The June 2005 WRIA 1 Watershed Management Plan includes an interim strategy for implementation of the WRIA 1 Watershed Management Plan for 2005/2006. This interim strategy is expected to continue through 2007/2008 while actions associated with this Detailed Implementation Plan are being implemented including options for a long-term funding source. The interim strategy for WRIA 1 Planning Unit meetings identifies up to four meetings per year for the primary purpose of considering recommendations relative to instream flows or to the Federal/Tribal settlement negotiations, legislative changes, and formal WRIA 1 Watershed Management Plan updates. The WRIA 1 Joint Board meetings will be organized and conducted as outlined in Phase 1 of the March 2007 draft <i>Governance Structure for Implementing WRIA 1 Programs</i>.
Adaptive Management	<ul style="list-style-type: none"> Develop Implementation Schedule for Tier 2 and Tier 3 Category WMP Actions 	<ul style="list-style-type: none"> Review status of Tier 1 actions and effectiveness in meeting program/project goals. Assess Tier 2 and Tier 3 WMP actions based on outcome of Tier 1 review and recommend changes/modifications to the Tier 2 and Tier 3 actions. Develop an implementation schedule for Tier 2 and Tier 3 actions. Incorporate modifications to Tier 1 actions recommended as part of the effectiveness review. 	<ul style="list-style-type: none"> Q1/08; Q3/08; Q1/09; Q3/09 (review status) Q4/08; Q4/09 (recommend modifications and develop new work plan/implementation schedule) 	<ul style="list-style-type: none"> WRIA 1 Staff Team and support staff lead for coordinating tasks. 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments TBD 	<ul style="list-style-type: none"> The March 2000 Scope of Work for the WRIA 1 Watershed Management Project includes a strategy for adaptive management in Section 2.7. The review of the Tier 1 actions' effectiveness in addressing goals and objectives of the WRIA 1 Watershed Management Plan and modifications or changes that may need to be made to Tier 2 and Tier 3 actions based on the outcome of the review will be done consistent with the adaptive management process identified in the March 2000 Scope of Work. Tier 1 actions include implementing the ISF Action Plan, which is intended to address water availability for instream and out of stream uses as part of the negotiation process. If after reviewing the Tier 1 actions, it is determined that the negotiation process is not sufficiently addressing water supply for future uses and the role of inchoate rights in meeting future supplies, additional strategies will be identified using the Adaptive Management strategy outlined in Section 2.7 of the March 2000 WRIA 1

Implementation Actions			Schedule	Activity Leads	Agreements	Related Information
Task	Subtasks	Milestones	Quarter/Yr			
TIER 1 ACTIONS						
	<ul style="list-style-type: none"> Implement Section 7, Adaptive Management of the WRIA 1 Long Term Monitoring Program Strategy 	<ul style="list-style-type: none"> Establish coordinating/technical team to implement adaptive management steps identified in the WRIA 1 LTMP strategy. 	<ul style="list-style-type: none"> Q1/08; Q3/08; Q1/09; Q3/09 (coordinating/technical team meets to review steps) 	<ul style="list-style-type: none"> WRIA 1 Staff Team and support staff lead for coordinating tasks 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments New – TBD 	<ul style="list-style-type: none"> The WRIA 1 Long Term Monitoring Program Strategy that includes Section 7, Adaptive Management, is included as an Appendix to the WRIA 1 Detailed Implementation Plan.
	<ul style="list-style-type: none"> Modifications/additions to strategies included in the June 2005 WRIA 1 Watershed Management Plan for addressing water quantity, water quality, instream flow, and fish habitat goals and objectives 	<ul style="list-style-type: none"> Prepare annual status report of implementation actions identified in the Detailed Implementation Plan. Based on report, evaluate implementation actions to identify need for modifications and/or additions to strategies for purposes of addressing WRIA 1 Watershed Management Project goals and objectives. Present list of changes, if any, to Planning Unit and Joint Board for consideration. 	<ul style="list-style-type: none"> Q1/08; Q1/09 (annual status report) Q2/08; Q2/09 (evaluate strategies) 	<ul style="list-style-type: none"> WRIA 1 Staff Team and support staff lead for coordinating tasks 	<ul style="list-style-type: none"> Existing- MOA for WRIA 1 Initiating Governments Existing- Section 2.7 of the March 2000 WRIA 1 Watershed Management Project. 	<ul style="list-style-type: none"> Strategies and programs identified in the June 2005 WRIA 1 Watershed Management Plan were developed to address the goals and objectives identified in the March 2000 WRIA 1 Watershed Management Project Scope of Work. Section 2.7 identifies an adaptive management process for evaluating effectiveness of the implementation strategies included in the WRIA 1 Watershed Management Plan. A report on status of WRIA 1 Watershed Management Plan actions identified for implementation in 2005/2006 was prepared December 2006. This format will be considered for annual reporting of implementation actions through 2009.

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Appendix A

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Governance Structure for Implementing WRIA 1 Programs

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Appendix B
WRIA 1 Long Term Monitoring Program Strategy