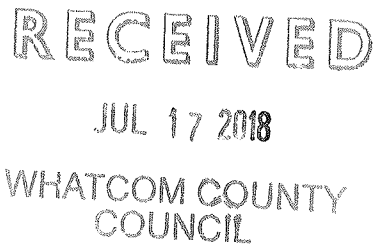


WHATCOM COUNTY COUNCIL AGENDA BILL

NO. 2018-216

<i>CLEARANCES</i>	<i>Initial</i>	<i>Date</i>	<i>Date Received in Council Office</i>	<i>Agenda Date</i>	<i>Assigned to:</i>
Originator:	GSS	7/12/18		7/24/18	Natural Resources
Division Head:	GSS	7/12/18			
Dept. Head:					
Prosecutor:					
Purchasing/Budget:					
Executive:	<i>[Signature]</i>	7.16.18			

TITLE OF DOCUMENT:

Briefing of Council on August 1, 2018 WRIA 1 Watershed Management Board meeting

ATTACHMENTS:

DRAFT WRIA 1 Watershed Management Board 2018-2023 Work Plan

SEPA review required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO	Should Clerk schedule a hearing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO Requested Date:
SEPA review completed? <input type="checkbox"/> Yes <input type="checkbox"/> NO	

SUMMARY STATEMENT OR LEGAL NOTICE LANGUAGE: *(If this item is an ordinance or requires a public hearing, you must provide the language for use in the required public notice. Be specific and cite RCW or WCC as appropriate. Be clear in explaining the intent of the action.)*

Staff will brief council on items to be placed on the agenda for the August 1, 2018 Watershed Management Board meeting including input to the administration on the draft WRIA 1 Watershed Management Board 2018-2023 Work Plan.

COMMITTEE ACTION:

COUNCIL ACTION:

Related County Contract #:

Related File Numbers:

Ordinance or Resolution Number:

Please Note: *Once adopted and signed, ordinances and resolutions are available for viewing and printing on the County's website at: www.co.whatcom.wa.us/council.*

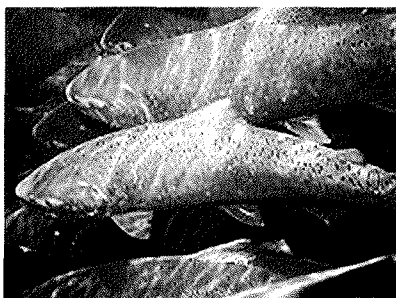


WRIA1 INTEGRATED PROGRAM MANAGEMENT

WRIA 1 Watershed Management Board

Bellingham • Blaine • Everson • Ferndale • Lynden • Nooksack • Sumas • Whatcom County • Public Utility District No. 1 of Whatcom County
Lummi Nation • Nooksack Indian Tribe • Washington Department of Fish and Wildlife

Draft Document – Version - 07/12/18



WRIA 1 Watershed Management Board 2018-2023 Work Plan

1 **Introduction**

2 The WRIA 1 Watershed Management Board¹ (WRIA 1 Board) directed its Management Team to propose an
3 integrated multi-year work plan, budget and funding strategy to advance WRIA 1 program and plan
4 strategies that are a function of the WRIA 1 Board. Under its 2016 Interlocal Agreement², the three
5 primary program functions of the WRIA 1 Board include:

- 6 1. facilitate implementation and adaptive management of the WRIA 1 Watershed Management Plan-
7 Phase 1 as currently constituted or subsequently amended;
- 8 2. Coordinate implementation and adaptive management of the *WRIA 1 Salmonid Recovery Plan* and
9 associated implementation document, serve as the Lead Entity for salmon recovery in WRIA 1,
10 coordinate participation in Puget Sound salmon recovery efforts, and coordinate development,
11 implementation, and adaptive management of WRIA 1 watershed chapters of recovery plans for
12 ESA listed salmonids and other salmonid species as warranted; and
- 13 3. Coordinate planning, implementation, monitoring and adaptive management of ecosystem
14 recovery actions in WRIA 1 and serve as the Whatcom Local Integrating Organization.

15 The proposed multi-year plan spans a five-year timeframe and integrates actions from the existing WRIA 1
16 programs described below and, consistent with the WRIA 1 Watershed Management Board December
17 2016 Interlocal Agreement, begins to integrate other natural resource management efforts that are
18 inextricably linked.

19 *WRIA 1 Watershed Management Project*

20 The WRIA 1 Watershed Management Project foundation is the 2005 WRIA 1 Watershed Management Plan
21 (WRIA 1 WMP). The WRIA 1 WMP includes the WRIA 1 Instream Flow Selection and Adoption Action Plan
22 (ISF Action Plan) and the over-arching WRIA 1 Long Term Monitoring Plan. Also associated with the WRIA 1
23 WMP are the WRIA 1 Detailed Implementation Plan and the Lower Nooksack Strategy, which is a subset of
24 implementation actions in the WRIA 1 WMP and Detailed Implementation Plan. The WRIA 1 Watershed
25 Management Project studies and documents are found at the project website, which is
26 wria1project.whatcomcounty.org/.

27 *WRIA 1 Salmon Recovery Program*

28 The WRIA 1 Salmon Recovery Program includes the 2005 *WRIA 1 Salmonid Recovery Plan* and associated
29 implementation documents (restoration strategy, SRFB/PSAR restoration priorities, 4-year work plan,
30 Nooksack Chinook monitoring and adaptive management framework). The *WRIA 1 Salmonid Recovery Plan*
31 identifies recovery goals for North/Middle Fork Nooksack early Chinook and South Fork Nooksack early
32 Chinook, both independent populations essential for recovery of the Endangered Species Act-listed Puget
33 Sound Chinook, limiting factors, and management actions; the *WRIA 1 Salmonid Recovery Plan* serves as
34 the Nooksack chapter of the Puget Sound Chinook Recovery Plan. Additional functions of the WRIA 1
35 Salmon Recovery Program include coordinating the local element of the annual salmon recovery funding
36 grant process and submitting an approved project list for state Salmon Recovery Funding Board

¹ WRIA 1 Watershed Management Board name was established with the execution of the December 2016 Interlocal Agreement that consolidated the WRIA 1 Salmon Recovery Board and WRIA 1 Watershed Joint Board and their associated programs, roles and responsibilities under a single Interlocal Agreement.

² wria1project.whatcomcounty.org/uploads/PDF/Guiding%20Documents%20and%20Plans/WRIA%201%20Watershed%20Management%20Board%20ILA%20-%20FINAL%20with%20signatures.pdf

37 consideration, updating annual habitat restoration strategy documents, and coordinating implementation
38 of key actions in the *WRIA 1 Salmonid Recovery Plan*. The WRIA 1 Salmon Recovery Program plans and
39 background information are found at the project website, which is salmonwria1.org/.

40 *Whatcom Local Integrating Organization*

41 The WRIA 1 Board serves as the Whatcom Local Integrating Organization (LIO), which is one of nine LIOs
42 recognized by the Puget Sound Partnership. The purpose of the Whatcom LIO is to coordinate local
43 recovery actions that will support Puget Sound recovery, maintain a point of contact for Puget Sound
44 Action Agenda implementation, and provide local feedback to Puget Sound recovery strategies. A
45 Whatcom LIO Ecosystem Recovery Plan was drafted under the framework provided by the Puget Sound
46 Partnership. The LIO plan builds from and integrates existing local plans and programs. The June 30, 2017,
47 Draft Whatcom LIO Ecosystem Recovery Plan³ will be adaptively managed and updated to reflect the WRIA
48 1 Watershed Management Board Five-Year Work Plan. Information related to the Whatcom Local
49 Integrating Organization is found at [WRIA1project.whatcomcounty.org/Get-Involved/Whatcom-Local-Integrating-Organization-\(LIO\)/109.aspx](http://WRIA1project.whatcomcounty.org/Get-Involved/Whatcom-Local-Integrating-Organization-(LIO)/109.aspx).

51 **Relationship of WRIA 1 Watershed Management Board 2018-2023 Work Plan to Other Programs**

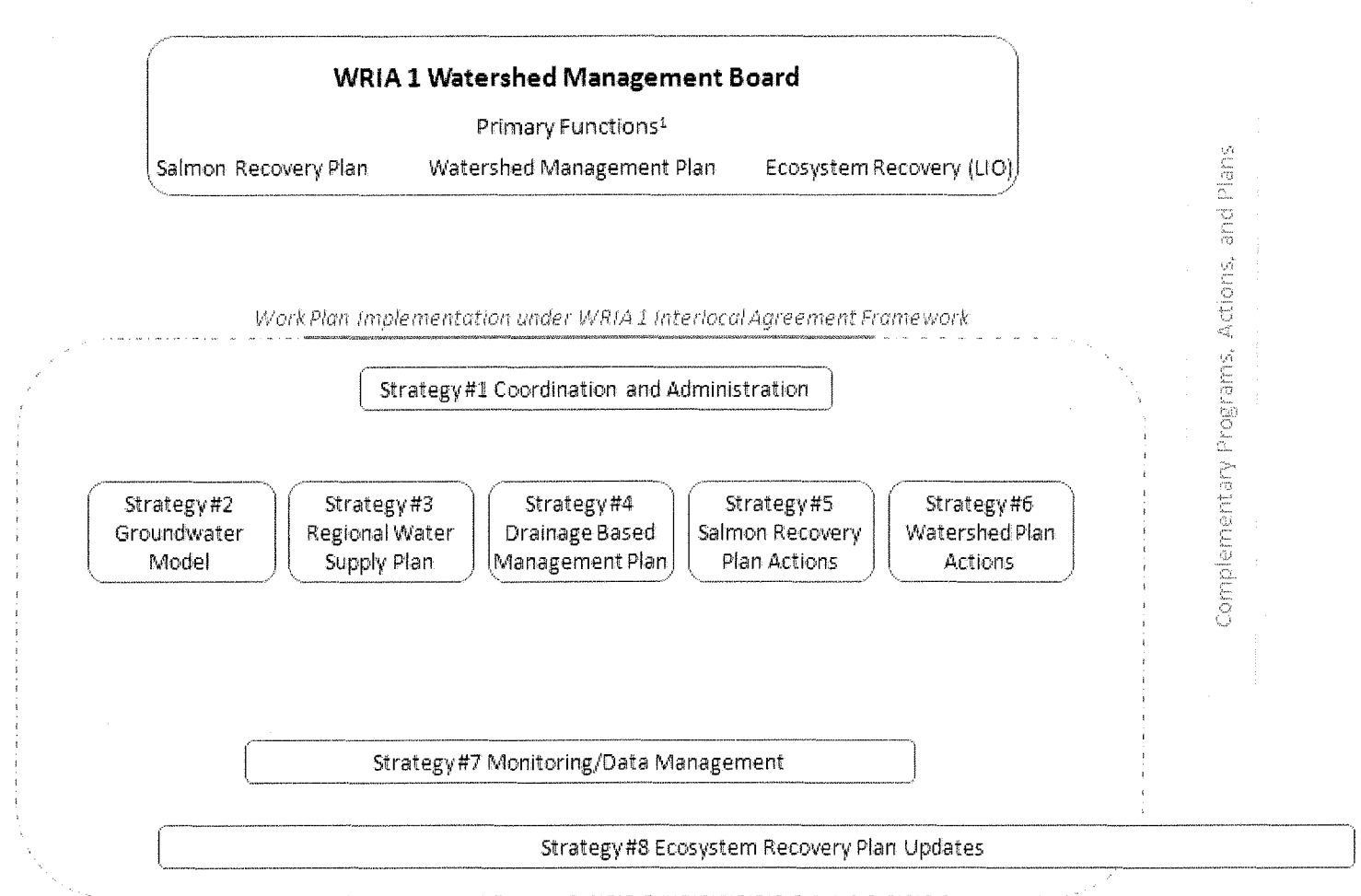
52 The WRIA 1 Watershed Management Board multi-year plan includes eight strategies that represent a
53 subset of actions from existing WRIA 1 programs and plans and are consistent with the WRIA 1 Board's
54 purpose outlined in the 2016 Interlocal Agreement to coordinate and integrate other natural resource
55 management actions implemented through other programs (Figure 1).

56 As shown in Figure 1, the Coordination and Implementation Strategy is the overall coordination under the
57 WRIA 1 Watershed Management Board. The coordination task outlined in Strategy 1 supports the
58 coordination tasks identified in Strategies 2-8 and provides the linkage to complementary programs,
59 actions. Complementary programs, actions, and plans include but are not limited to efforts such as the
60 Whatcom Clean Water Program, the Whatcom County River and Flood Division floodplain integrated
61 planning, and the Watershed Improvement Districts' planning. The complementary efforts are related to
62 the WRIA 1 Watershed Management Board's Work Plan because they play an important role in local
63 ecosystem recovery planning and Puget Sound recovery (Strategy 8). Strategies 2-6 are implementation
64 actions associated with the planning documents identified in the WRIA 1 Watershed Management Board's
65 functions outlined in the 2016 Interlocal Agreement and lead to adaptive management of those plans.
66 Many of the tasks in Strategies 2-6 are interdependent and linked. This is the area of the multi-year work
67 plan that is likely to see the most adjustments on an annual basis. Strategy 7, Integrated Monitoring and
68 Central Data Management, supports and informs the implementation actions (Strategies 2-6). Outcomes
69 from Strategies 1-7 including continued interaction with complementary programs inform adaptive
70 management of the Whatcom LIO Ecosystem Recovery Plan and future local actions that achieve Puget
71 Sound recovery for consideration in the next Puget Sound Action Agenda update (Strategy 8).

72

³ *The Draft Whatcom LIO Plan was prepared in accordance with planning grants to local integrating organizations around Puget Sound to develop local ecosystem recovery plans that will support Puget Sound recovery. It conforms to the framework developed to meet the interests of the Puget Sound Partnership*

Figure 1. 2018-2023 WRIA 1 Watershed Management Board Work Plan Strategies and Relationship to Complementary Programs, Actions, and Plans



¹The primary functions of the WRIA 1 Watershed Management Board are described in the December 2016 Interlocal Agreement.

74 **WRIA 1 2018-2023 Work Plan and Funding Strategy Format**

75 The 2018-2023 WRIA 1 Watershed Management Board’s multi-year plan is intended as a five-year
76 integrated strategy for implementing and sequencing actions that address water quality, water quantity,
77 floodplains, salmon recovery, and stormwater. It is anticipated that the actions implemented in the 2018-
78 2023 plan will also support negotiation of water rights among the affected parties.

79 While the 2018-2023 Plan identifies “administrative leads” for individual strategies, the intent is to
80 implement the strategies within the overall structure and decision-making process of the WRIA 1
81 Watershed Management Board and 2016 Interlocal Agreement (Figure 2).

82 The level of detail is greatest for the first two years of the work plan. Plan status will be reviewed annually,
83 and updated as needed. Following is a description of the plan sections:

84 **Section I: Narrative**

85 The first section of the work plan is a narrative that provides a description of each strategy. Under each
86 strategy is a list of the general tasks, anticipated milestones, and estimated budgets. Many of the tasks
87 listed under a strategy are interdependent with or support tasks in other strategies. These dependencies
88 are referenced in the narrative and are shown on the timeline that is in Section II of the work plan.

89 **Section II: Timeline**

90 Section II is an overall timeline for the full five-year work plan and funding strategy. The timeline shows the
91 administrative lead for the listed strategy, scheduled tasks and where there are tasks that are dependent
92 on or supporting other tasks. As with the overall 2018-2023 Plan, the level of detail in the timeline is
93 greatest for the first two years. The timeline will be reviewed annually and adjusted as needed.

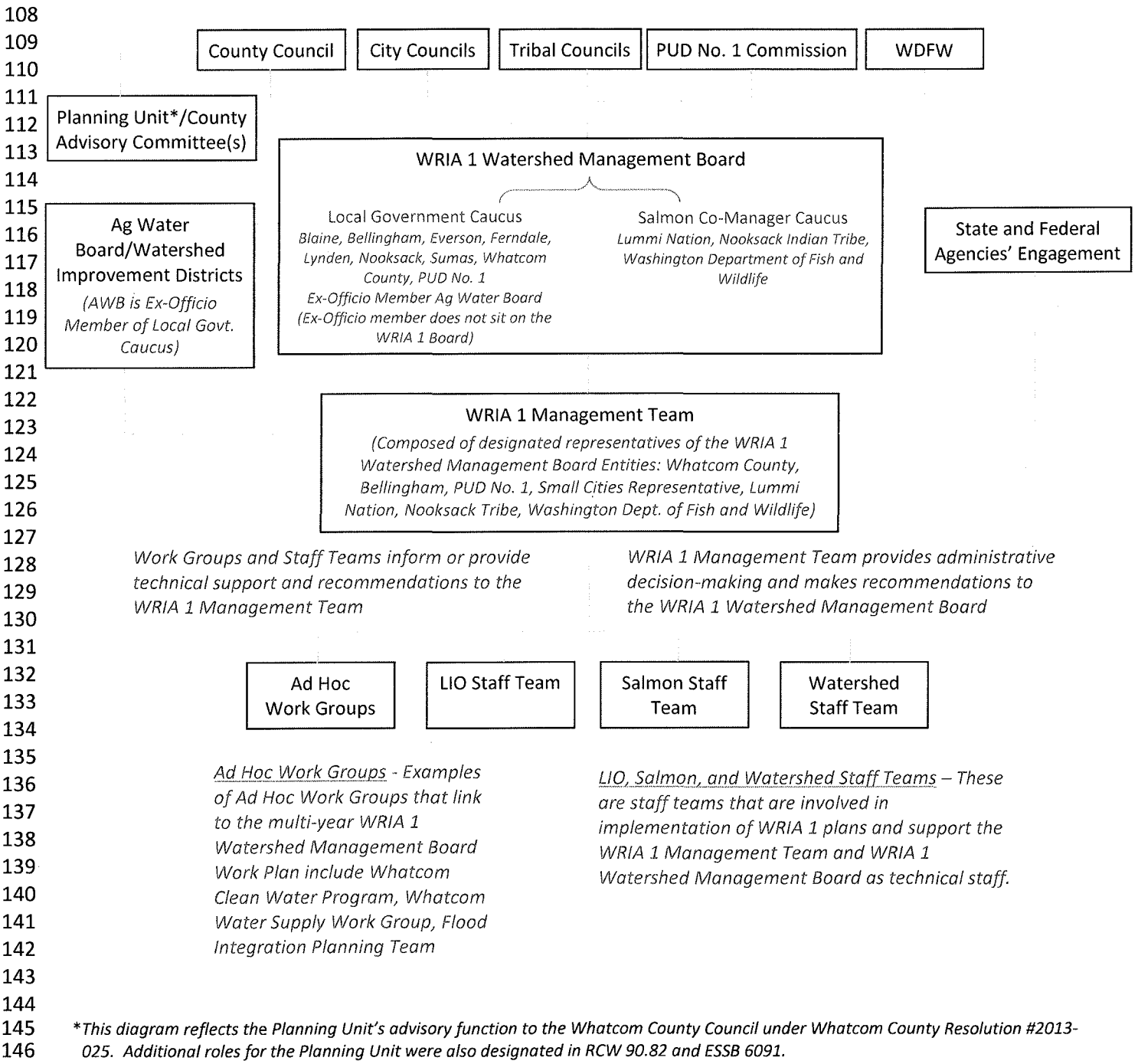
94 **Section III: Technical Appendices**

95 The technical appendices will include the highest level work plans available for actions that are
96 implemented under the WRIA 1 Watershed Management Board’s 2018-2023 Work Plan and Funding
97 Strategy. Not all strategies are represented in the technical appendices.

98 **Management**

99 The WRIA 1 Watershed Management Board intends to coordinate the work plan as it is adopted by the
100 Members, and will support efforts to obtain funding. The WRIA 1 Management Team will administer the
101 work on behalf of the WRIA 1 Watershed Management Board as described in Strategy 1 WRIA 1 Watershed
102 Management Board Work Plan Implementation and Administration. Administrative leads are identified for
103 each of the strategies to oversee implementation and individual entities or consultants may be contracted
104 with to implement tasks within strategies. Individual tasks/strategies may be implemented by individual
105 member entities

106 Figure 2. WRIA1 Watershed Management Board Structure (Source: 2016 WRIA 1 Interlocal Agreement clarified to reflect Ex-
 107 Officio representation)



147 **Summary of Strategies and Budget Estimates***

Strategy	Administrative Lead ⁴	Years 1-2	Years 3-5	Total for 5-Year Plan
Strategy 1: Implementation and Administration	WCPW ⁵	\$136,000	\$306,000	\$442,000
Strategy 2: Ground Water Model and Technical Support	WCPW ⁶	\$100,000	\$150,000	\$250,000
Strategy 3: Regional (WRIA-Wide) Water Supply Plan	PUD No. 1 ⁷	\$210,000	\$170,000	\$380,000
Strategy 4: Drainage Based Management Planning	WCPW ⁸	\$115,700	\$337,500	\$453,200
Strategy 5: Salmon Recovery Plan Implementation	Co-Managers ⁹	\$540,000	\$1,055,000	\$1,595,000
Strategy 6: WRIA 1 Watershed Management Plan Update	WCPW ¹⁰	\$208,500	\$60,000	\$268,500
Strategy 7: WRIA 1 Integrated Monitoring and Data Management	PUD No. 1 ¹¹	\$876,120	\$1,326,289	\$2,202,409
Strategy 8: Whatcom LIO Coordination and Adaptive Management	WCPW ¹²	\$33,000	\$49,500	\$82,500

148
149 *Estimates will be updated as they are refined; for many tasks the estimates are for planning purposes.

⁴ Administrative lead oversees implementation within the framework of the WRIA 1 Watershed Management Board.

⁵ WCPW has historically been the lead for administering the WRIA 1 collaborative planning process on behalf of the WRIA 1 Joint Board and they are the owner of the 2018-2022 Near Term Action submitted for funding consideration as part of the Puget Sound Action Agenda process.

⁶ WCPW is currently the lead for the construction of the groundwater model.

⁷ The PUD No. 1 was lead for this task under the Lower Nooksack Strategy and is the owner of the 2018-2022 Near Term Action submitted for funding consideration as part of the Puget Sound Action Agenda process.

⁸ WCPW is the owner of the 2018-2022 Near Term Action submitted for funding consideration as part of the Puget Sound Action Agenda process.

⁹ The Lummi Nation has been the fiscal agent on behalf of the WRIA 1 Watershed Management Board for receiving and administering salmon recovery lead entity grant funds. The Co-Managers are also owners of several 2018-2022 Near Term Actions associated with salmon recovery monitoring and adaptive management.

¹⁰ WCPW is currently lead for updating the WRIA 1 Watershed Management Plan; Whatcom County is lead agency.

¹¹ PUD No. 1 is the owner of the 2018-2022 Near Term Action submitted for funding consideration as part of the Puget Sound Action Agenda process.

¹² WCPW is currently fiscal agent acting on behalf of the WRIA 1 Watershed Management Board for receiving and administering the LIO coordination grant.

150 **SECTION I - NARRATIVE**151 **Strategies, Tasks, and 2018-2020¹³ Budget Estimates (Years 1-2)**

152 The eight Strategies listed below are intended to be implemented simultaneously under the framework of the
 153 WRIA 1 Watershed Management Board. The Strategies are inextricably linked, and, in many cases, tasks
 154 between Strategies are interdependent. While there is not a stand-alone strategy for instream flow
 155 negotiations, implementing the Strategies and tasks as outlined in this document will support resolution of
 156 instream flows, habitat, and water quality issues in an integrated manner that will lead to and could support
 157 negotiated water right agreements among the affected parties and Lummi Nation and Nooksack Indian Tribes.

158 The approach for implementing each of the Strategies includes administrative leads that are responsible for
 159 overseeing the implementation of tasks, coordinating with task leads, and reporting back to the WRIA 1
 160 Management Team and WRIA 1 Watershed Management Board.

161 **Strategy 1: WRIA 1 Watershed Management Board Work Plan Implementation and Administration**

162 Description: Administer and implement Strategies 2-7 under the framework of the WRIA 1 Watershed
 163 Management Board.

164 **Total Strategy 1 Budget through 2020:**

165 Task 1: **Manage and oversee the 2018-2023 WRIA 1 Watershed Management Board Work Plan.** Each of
 166 the Strategies includes an administrative lead that is responsible for overseeing and managing the
 167 implementation of the strategy, which includes identifying and/or contracting with task leads as
 168 appropriate. Task 1 of this Strategy is to provide overall administration of the WRIA 1 Watershed
 169 Management Board and its work plan under a single administrator as approved by the WRIA 1
 170 Watershed Management Board and includes but is not limited to:

- 171 • Identifying and addressing barriers to implementation as they arise and, as needed, frame and
 172 schedule for discussion, resolution, and/or direction to the WRIA 1 Management Team and
 173 WRIA 1 Watershed Management Board.
- 174 • Providing annual review of the Work Plan and presenting its status to the WRIA 1 Management
 175 Team and WRIA 1 Watershed Management Board with recommendations for modifications,
 176 where applicable or desired.
- 177 • Supporting WRIA 1 Watershed Management Board function and operation including providing
 178 organizational support to the Local Government Caucus, and upon request, the Co-Manager
 179 Caucus.

180 Task 2: **Program coordination** associated with the WRIA 1 framework including providing meeting
 181 support to implement Strategies under the 2018-2023 WRIA 1 Watershed Management Board
 182 Work Plan.

183 Task 3: **Organize, collaborate, and/or conduct outreach** associated with the Strategies outlined in the
 184 2018-2023 WRIA 1 Watershed Management Board Work Plan. This includes:

- 185 • Maintain and update WRIA 1 website
- 186 • Develop integrated outreach strategy.

¹³ Budget estimates after 2020 will be identified as part of developing a long-term funding strategy for priority actions.

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- Coordinate and collaborate with Whatcom Watersheds Information Network to advance and disseminate WRIA 1 program information as appropriate including participating in planning for speakers, conferences, forums, mailings, and other events.
 - Coordinating and collaborating with WRIA 1 Watershed Management Board entities, LIO participants, and others as appropriate to support outreach consistent with topics in the *WRIA 1 Watershed Management Plan*, *WRIA 1 Salmonid Recovery Plan*, and draft *Whatcom LIO Ecosystem Recovery Plan*.
 - Implement outreach specific to the Strategies outlined in the 2018-2023 WRIA 1 Watershed Management Board Work Plan to inform the community of program status, obtain feedback and input, and to engage the community in implementation actions.

197 **Strategy 2: Ground Water Model(s) and Technical Support.**

198 Description: A coupled groundwater/surface water model that primarily covers the LENS study area was
199 initiated as a multi-phase implementation item in 2014 under the former WRIA 1 Watershed Joint Board.
200 The construction of the groundwater model, which is the final phase, will be completed late 2018. The
201 additional needs associated with the groundwater model include receiving and operating the model,
202 which are reflected in the tasks outlined below, and expanding it to other areas of WRIA 1 such as the
203 South Fork Nooksack Watershed where a groundwater model has been proposed by Nooksack Tribe in
204 partnership with USGS.

205 **Total Strategy 2 Budget through 2020: \$**

206 **Work Products:** Operation of WRIA 1 groundwater model; Options for expanding groundwater model

207 Task 1: **Coordinate technical review of groundwater model** within the WRIA 1 framework and identify
208 additional groundwater monitoring needs for long term model resolution, if any.

209 Timeline: December 2018-January 2019

210 Task 2: **Identify options and select preferred option** for managing the coupled surface/groundwater
211 model including operation of the model and updating data sets as information becomes available
212 that will result in an increase in the resolution of the model output, and after identifying how the
213 model will be used and key management questions for operating the model.

214 Timeline: August 2018-December 2018

215 Task 3: **Identify needs and long term funding** for managing the coupled surface/groundwater model.
216 Costs should include but is not limited to staffing, updating data as needed, making information
217 available to the public and other entities, and calibrating the model when appropriate.

218 Timeline: August 2018-January 2019

219 Task 4: **Implement recommendation** for managing the coupled model. This task is dependent on Tasks 2
220 and 3 of this Strategy.

221 Timeline: Initiate implementation February 2019

222 Task 5: **Expand groundwater modeling to other areas of WRIA 1** starting with the South Fork Nooksack
223 Watershed model proposed by Nooksack Tribe in partnership with USGS.

224 Timeline: 2019-2022

225 **Strategy 3: Regional (WRIA-Wide) Water Supply Plan**

226 Description: This Strategy was originally identified in the 2010 Lower Nooksack Strategy but not
227 implemented due to lack of funding support. Nonetheless, there remains a need for a WRIA 1-wide water
228 supply plan that establishes a framework to address water supply needs beyond the WADOH regulatory
229 framework of the Whatcom County Coordinated Water System Plan (CWSP) and that is consistent with
230 the geographic extent of proposed approaches to settle water rights. Under this Strategy, the regional
231 water supply plan will integrate the 2017 updated CWSP with other out-of-stream and instream water
232 needs, in context with land use, economic viability, and ecosystem recovery.

233 **Total Strategy 3 Budget through 2020: \$**

234 **Work Product:** Regional Water Supply Plan

235 Task 1: **Coordinate technical work groups and staff teams** for drafting and providing feedback and review
236 of water supply plan components. Review of plan components will be coordinated through the
237 WRIA 1 framework.

238 Timeline: 2018-2020

239 Task 2: **Consolidate and quantify water availability, water use, and water supply needs for out of**
240 **stream needs** (current and projected) including evaluating water right data base for opportunities.
241 This task is anticipated to focus initially in pilot areas for Strategy 4 (Drainage Based Management
242 Planning).

243 Timeline:

244 Task 3: **Compile existing information on instream water needs and identify monitoring priorities** to
245 incorporate in Strategy 7. This task is anticipated to initially focus in pilot areas for Strategy 4
246 (Drainage Based Management Planning).

247 Timeline:

248 Task 4: **Identify and support water supply and management research, facilitate data collection, and**
249 **close data gaps.** This includes identifying priority needs for monitoring effectiveness of water
250 supply management approaches and solutions. This task will be done in conjunction with
251 Strategies 7 and 4, and related information from the ESSB 6091 update (Strategy 6), as applicable.

252 Timeline: December 2018

253 Task 5: **Identify, evaluate, and support solutions for meeting water supply needs.** This will be a
254 collaborative and coordinated approach with other efforts evaluating solutions in/for related
255 plans and studies (e.g., Drought Plan, grants addressing water supply, etc.), and in conjunction
256 with Strategies 4 and 6 Drainage Based Management Planning and WRIA 1 Watershed
257 Management Plan (ESSB 6091 update), respectively. Gaps in solutions will be identified, where
258 applicable.

259 Timeline:

260 Task 6: **Provide water supply information for connecting water availability to land use and habitat.** The
261 outcomes of Tasks 2-5 will be used to improve connections between where water is available and
262 existing land use. Information will be coordinated with Strategies 4 through 6, and will be used to

263 integrate water supply needs into other planning efforts (e.g., Comprehensive Plans, Integrated
264 Floodplain Planning, and other watershed-scale plans).

265 Timeline:

266 Task 7: **Draft and Final WRIA 1 Water Supply Plan** that consolidates information from Tasks 2-6 into a
267 WRIA 1 Water Supply Plan that includes instream and out of stream water needs and identifies
268 ranges of solutions. Review and feedback on the draft plan will be coordinated with technical
269 staff, work groups, WRIA 1 Planning Unit, WRIA 1 Management Team, and other interested
270 parties prior to a final plan. Partnerships with WWIN, WSU, WCD and others will be used for
271 sharing information and to support outreach related to water supply planning.

272 Timeline:

273 **Strategy 4: Drainage Based Management Planning**

274 Description: Drainage-based management planning (DBMP) is a recommendation in the WRIA 1
275 Watershed Management Plan. The concept is a planning approach scaled to the drainage level and that
276 will consider five elements – water quality, water supply, instream flow, fish habitat, and accountability.
277 Under this approach, targets for each of the elements will be developed and agreed to among the affected
278 parties. A pilot area will be identified for implementing the DBMP approach. Based on effectiveness of
279 the approach in the pilot area, additional sub-basins will be identified to continue the DBMP. This
280 Strategy is inextricably linked to all of the Strategies in this 2018-2023 work plan and is expected to
281 involve identifying and coordinating with a sub-lead for each sub-basin. The approach is similar to an
282 approach introduced and presented to stakeholders by Lummi Nation and is envisioned as a mechanism
283 to help facilitate the resolution of state and federal/tribal water rights in WRIA 1 .

284 **Total Strategy 4 Budget through 2020: \$**

285 **Work Products:** Data synthesis and analysis technical memo; subbasin goals for water supply, water
286 quality, instream flows, and habitat; Implementation Plan and Agreements for Drainage-Scale
287 Water Management

288 Task 1: **Select pilot sub-basin and establish planning team for drainage-based management planning** in
289 coordination with technical staff and other affected parties. Subbasin selection should take into
290 consideration- among other factors- sub-basin level data availability, efforts underway to address
291 water quality, water use, and habitat issues, and a mechanism in place at the sub-basin level for
292 purposes of coordinating this Strategy.

293 Timeline: September – December 2018

294 Task 2: **Coordinate synthesis and analysis of available data, identify data gaps, collect data, establish**
295 **sub-basin goals and identify management Strategies and actions** for water supply, water quality,
296 instream flows, and habitat using information collected, synthesized, and coordinated under
297 Strategies 3 and 5-7. Actions identified will include early implementation actions. To the extent
298 available, information generated should use the completed groundwater model (Strategy 2).

299 Timeline:

300 Task 3: **Implement and monitor early actions** while the full implementation schedule is developed, and
301 the sub-basin goals and solutions are finalized and approved as a sub-basin plan and appended to
302 the WRIA 1 Regional Water Supply Plan and WRIA 1 Watershed Management Plan.

303 Timeline:

304 Task 4: **Finalize pilot sub-basin plan and agreements.** The final sub-basin plan implementation schedule
305 and agreements will be appended to the WRIA 1 Water Supply Plan and WRIA 1 Watershed
306 Management Plan.

307 Timeline:

308 Task 5: **Repeat Tasks 1-4 in other sub-basins,** adaptively managing the process or approach based on
309 lessons learned from the pilots.

310 Timeline:

311 **Strategy 5: Salmon Recovery Plan Implementation**

312 Description: This Strategy reflects the function of the WRIA 1 Watershed Management Board under the
313 December 2016 Interlocal Agreement, which is to facilitate implementation and adaptive management of
314 the *WRIA 1 Salmonid Recovery Plan* and associated implementation documents, serve as the Salmon
315 Recovery Lead Entity for WRIA 1, coordinate participation in Puget Sound salmon recovery efforts, and
316 coordinate the development, implementation and adaptive management of WRIA 1 watershed chapters
317 of recovery plans for ESA listed salmonids and other salmonid species as warranted.

318 **Total Strategy 5 Budget through 2020: \$**

319 **Work Products:** Annual Update of *WRIA 1 Salmonid Recovery Plan* Implementation Status; *WRIA 1*
320 *Chinook Monitoring and Adaptive Management Plan* update; *WRIA 1 Salmonid Recovery Plan*
321 update; annual grant round and associated habitat project list

322 Task 1: **Update the *WRIA 1 Salmonid Recovery Plan* and implement associated monitoring and adaptive**
323 **management tasks.** This includes evaluating and updating status of trends of Chinook and other
324 populations, evaluating and updating limiting factors, reviewing status of salmon recovery plan
325 early actions, working with co-managers on hatchery needs and to review status of hatchery
326 contributions to stock recovery (i.e., Skookum Hatchery Chinook captive brood program),
327 coordinating and implementing effectiveness monitoring, facilitating data review, collection and
328 closing data gaps, and preparing an addendum/update to the 2005 *WRIA 1 Salmonid Recovery*
329 *Plan*. This task is strongly linked to Strategy 7.

330 Timeline: July 2018-2021

331 Task 2: **Coordinate, support and implement** salmon recovery actions in WRIA 1. This includes
332 coordinating implementation of Chinook restoration and protection projects in priority geographic
333 areas identified in the Salmon Recovery Program restoration Strategies and the regionally
334 required 4 year project list, supporting implementation of restoration and protection projects in
335 the lower Mainstem tributaries and coastal streams and nearshore and estuarine areas,
336 coordinating and supporting WRIA 1-wide fish passage prioritization and implementation, and

337 coordinating and supporting other priority salmon recovery actions, as well as addressing barriers
338 to implementation.

339 Timeline: July 2018-June2020

340 Task 3: **Coordinate, support, and implement WRIA 1 Salmon Recovery Program** including coordinating
341 completion of grant deliverables associated with the salmon recovery lead entity operating grant
342 such as preparing/updating 4 year project list, updating projects in the Washington State Habitat
343 Work Schedule, coordinating Salmon Recovery Funding Board (SRFB) and Puget Sound Acquisition
344 and Restoration (PSAR) annual grant processes. Additional coordination under this task includes
345 outreach associated with the WRIA 1 Salmon Recovery Program. This task also includes technical
346 staff support related to salmon and habitat information needs for Strategies 2-4 and 6-8.

347 Timeline:

348 **Strategy 6: WRIA 1 Watershed Management Plan Update**

349 Description: This Strategy reflects the function of the WRIA 1 Watershed Management Board under the
350 December 2016 Interlocal Agreement, which is to facilitate implementation and adaptive management of
351 the *WRIA 1 Watershed Management Plan- Phase 1*.

352 **Total Strategy 6 Budget through 2020: \$**

353 **Work Product:** Streamflow Restoration Act (ESSB 6091) Update of the *WRIA 1 Watershed Management*
354 *Plan-Phase 1*

355 Task 1: **Update the WRIA 1 Watershed Management Plan-Phase 1 to address the 2018 Streamflow**
356 **Restoration Act (ESSB 6091)** The update will be prepared and approved in accordance with the
357 approved process for *Developing and Approving Streamflow Restoration Act (ESSB 6091) Update*
358 *of WRIA 1 Watershed Management Plan* diagram.

359 Timeline: February 2019

360 Task 2: Adaptively manage updates to the WRIA 1 Watershed Management Plan-Phase 1 as applicable
361 and/or as recommended or identified in the 2018 Streamflow Restoration Action Act (ESSB 6091)
362 update to the *WRIA 1 Watershed Management Plan- Phase 1*.

363 **Strategy 7: Develop and Implement a WRIA 1 Integrated Monitoring Program with Centralized Data** 364 **Management.**

365 Description: The WRIA 1 Watershed Management Plan includes a draft WRIA 1 Long Term Monitoring Plan
366 (LTMP) that has not been fully implemented. Further, salmon recovery monitoring needs were not
367 included because they were still in development. The Nooksack Chinook Monitoring and Adaptive
368 Management framework was developed in 2014 and 2015 and needs to be integrated into the LTMP. The
369 original intent of the WRIA 1 LTMP was to have a comprehensive monitoring approach with a central
370 location for data management. This Strategy is to update and implement the WRIA 1 LTMP in a manner
371 that integrates priority monitoring elements of WRIA 1 programs, with quality assurance/quality control
372 to ensure data quality and centralized data storage so that it is easily accessible to all entities.

373 **Total Strategy 1 Budget through 2020: \$**

374 **Work Products:** Updated WRIA 1 Long Term Monitoring Plan; Centralized Data Management; Funding
375 Strategy; Cooperative Monitoring Agreements

376 Task 1: **Coordinate with WRIA 1 Staff Teams** and entities involved in monitoring to identify and update
377 monitoring needs across WRIA 1 programs including water quality, water quantity including
378 instream flow and water use, habitat, land use, and program and project effectiveness.
379 Identification of monitoring needs should incorporate broad scoping of indicators, data products,
380 protocols, and analysis steps. Coordinate Staff Teams through Tasks 2-4 for purposes of
381 completing an update to the 2007 version of the WRIA 1 Long Term Monitoring Program.

382 Timeline: September 2018 - February 2019

383 Task 2: **Identify key management questions and establish priorities for WRIA 1 Integrated Monitoring**
384 **Program** based on review and discussion of the updated monitoring needs and in consideration of
385 Strategies 2-6.

386 Timeline: September – December 2018

387 Task 3: **Identify options for and implement a preferred option for a centralized data management**
388 **approach** that provides an easily accessible data storage mechanism so entities working on plans,
389 tools, and/or management solutions know what data exists and have direct access to it.
390 Implementing a centralized data management approach will also include identifying options and
391 selecting a preferred option for long-term management of data. The preferred option will be
392 presented to the WRIA 1 Watershed Management Board for approval to implement.

393 Timeline: September 2018 – December 2020

394 Task 4: **Identify funding needs for long-term integrated monitoring and data management.** This task
395 needs to be done in conjunction with other Strategies requiring long-term funding.

396 Timeline: August 2018 – March 2019

397 Task 5: **Update the WRIA 1 Long Term Monitoring Plan** with outcomes of Tasks 1-4. The updated plan
398 will include implementation schedule and process for integrating outcomes into adaptive
399 management or WRIA 1 programs and plans.

400 Timeline: April 2019

401 Task 6: **Cooperative Monitoring Agreements.** Facilitate and enter into agreements with leads for
402 monitoring elements and protocols identified.

403 Timeline: August 2018– December 2019

404 **Strategy 8: Whatcom Local Integrating Organization Coordination and Adaptive Management**

405 Description: This strategy reflects the WRIA 1 Watershed Management Board function under the
406 December 2016 Interlocal Agreement to coordinate planning, implementation, monitoring and adaptive
407 management of ecosystem recovery actions, and to function as the Local Integrating Organization and a
408 partner in the Puget Sound Partnership in representing WRIA 1 goals and priorities.

409 **Total Strategy 8 Budget through 2020: \$**

410 **Work Products:** Update Whatcom LIO Ecosystem Recovery Plan to reflect outcomes, priorities, and other
411 actions associated with implementing Strategies 1-7; grant deliverables associated with
412 coordinating Whatcom LIO

413 **Task 1: Coordinate and support functions of the Whatcom Local Integrating Organization** including tasks
414 and deliverables associated with the scope of work that is developed in association with the
415 annual coordination grant administered by the Puget Sound Partnership.

416 Timeline:

417 **Task 2: Update and adaptively manage the *Whatcom LIO Ecosystem Recovery Plan*** to reflect the local
418 priorities and actions identified through Strategies 1-7.

419 Timeline:

420

421