Summary Outline of the July 2007 WRIA 1 Detailed Implementation Plan

January 25, 2017

This document is a tool to help the WRIA 1 Planning Unit understand the 2007 WRIA 1 Detailed Implementation Plan (2007 DIP).

This summary outline is presented in a format that follows the structure and numbering used in the 2007 DIP. The 2007 DIP can be obtained online at: [http://wria1project.whatcomcounty.org/Resource-Library/Guiding-Documents-And-Plans/64.aspx](http://wria1project.whatcomcounty.org/Resource-Library/Guiding-Documents-And-Plans/64.aspx) immediately under the heading “Plans.” Minor typographical corrections were made to some of the quoted materials.

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(full text contained in Attachment 1)

Chapter 1.0 Overview for Developing the WRIA 1 Detailed Implementation Plan

1.1 Overview

Description of requirements for DIP to qualify for Phase 4 Implementation Grants. Requirements defined in RCW 90.82.043 and 90.82.048 and include strategies that “address provision of sufficient water for a) production of agriculture, b) commercial, industrial, and residential uses, and c) instream flows” (second paragraph, page 1).

Identify timelines and methods to address planned and future use of inchoate municipal water rights for water supply purposes, including meeting projected future needs and how instream flows will affect these rights.

1.2 Approach for Developing the WRIA 1 Detailed Implementation Plan

(From middle of page 1):

“The WRIA 1 Detailed Implementation Plan is based on the actions and strategies in the approved June 2005 WRIA 1 Watershed Management Plan (WMP), which were developed with the involvement of the caucus-based WRIA 1 Planning Unit, the WRIA 1 Technical Teams (Water Quality, Water Quantity, Instream Flow, Fish Habitat, Public Involvement and Education, Watershed Plan Development, and Decision Support System), the WRIA 1 Staff Team/Technical Team Leads (tribal, state, and local governments and utility district staff), and the WRIA 1 Joint Board (policy board).”

Actions and strategies from 2005 WRIA 1 Watershed Management Plan – Phase 1 (2005 WMP) categorized into three tiers.

- Tier 1 actions are those most directly associated with addressing instream and out of stream uses, and/or strategies that relate to each other and important for addressing water use. These include.
  - Decision Support System (DSS) and underlying models
  - WRIA 1 Instream Flow Selection and Adoption Action Plan (WRIA 1 ISF Action Plan)
  - Compliance and Natural Resource Policy Integration Programs
  - WRIA 1 Long Term Monitoring Strategy
  - Adaptive management
“Tier 2 strategies include those actions that are likely to be included or have elements that are included in the Tier 1 strategies or that, as a stand-alone action, are not likely to significantly influence provision of water to a user.” (top of page 2). Tier 2 strategies include;

- Ground Water Augmentation
- Water Use Efficiency
- Public Involvement and Education

“Tier 3 strategies and actions address goals of the WRIA 1 Watershed Management Project that are not directly related to the provision of water for instream and out of stream uses.” (page 2). These include;

- Ground Water Model,
- South Fork Temperature and High Resolution Surface Water Quality Model,
- Socioeconomic Study,
- E. Hemmi,
- Pilot County Facility and/or Low Impact Design,
- and Low Impact Development Program.

Sequence is to complete and initiate Tier 1 actions, then use adaptive management to determine if intended objectives met. Governance and Administration task included in Tier 1 to ensure consistency of 2007 DIP with itself and the 2005 WMP.

2007 DIP does not change the actions in the 2005 WMP, considered an implementation and effectiveness evaluation tool for the 2005 WMP.

(from page 2 near bottom):

“This DIP has been prepared with the intent that it will be reviewed and updated in accordance with the adaptive management strategy outlined in the WRIA 1 WMP and in Table 3 of this WRIA 1 DIP.”

(from page 2 near bottom):

“Given the intended use of the WRIA 1 DIP as a tool for implementing actions in the WRIA 1 WMP, the format is primarily a series of implementation tables that chart the tasks, subtasks, milestones, timelines, leads, and other information relevant to Tier 1 strategies and actions.”

Chapter 2.0 Coordination of Activities with Other Planning Entities

(from top of page 3):

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

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

- Describes WRIA 1 Watershed Management Plan (WRIA 1 WMP) structure.
- Identifies the Natural Resource Policy Integration (NRPI) Program as a Tier 1 program to identify potential overlapping element, gaps, and inconsistencies.
• Linkage of WRIA 1 WMP and WRIA 1 Salmon Recovery Program acknowledged, both programs worked to develop options for coordination and integration that contains three phases (Appendix A). Evaluation of the feasibility of Phases 2 and 3 is a task in the 2007 WRIA 1 DIP.

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

Table 1 referenced which contains “Table 1 lists Tier 1 DIP Actions, other key programs with potentially similar actions, linkages to WRIA 1 Phase IV Implementation, and the approaches being used to reduce the potential for duplicative efforts.” (top of page 5, Table 1 is on pages 6 and 7 of the 2007 WRIA 1 DIP).

Brief descriptions of coordination between planning and other entities, future integrated governance, and the NRPI Program. The NRPI Program will be informed by a Comprehensive Water Resource Integration Project developed by Whatcom County, which has an estimated completion date of winter 2007.

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

(from top page 8):

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

3.1 Definitions of Municipal Water Supply and Inchoate Water Rights

(below heading on p8):

“RCW 90.03.015 as amended by SSHB 1338 defines municipal water supply as a beneficial use of water meeting any one of several criteria including: (a) supplying water to 15 or more residential connections or to a non-residential population of at least 25 people for at least 60 days a year, (b) government purposes by a city, town, public utility district, county, sewer district, or water district, or (c) delivery of treated or raw water to a public water system for the previously identified purposes.”


Description of inchoate water and challenges to SSHB 1338.

(bottom of page 8):

“A summary of the aspects challenged in the tribes’ suit includes: 1. The retroactive validation of water rights allegedly lost through relinquishment prior to the enactment of the statue; 2. The elimination of the beneficial use requirement for a greatly expanded group of private water users that are now defined as ‘municipal users’ (expansion of unused rights); 3. The elimination of previously required analysis of change of place of use requirements for entities classified as ‘municipal’; and 4. Changes in population served and maximum connection requirements for certain state water holders without adequate procedural safeguards. The suit alleges that these changes adversely and unconstitutionally impact instream flow rights that benefit the tribes’ treaty reserved fishing rights. The outcomes of these legal
challenges will need to be taken into consideration as DIP strategies affecting future water use are implemented, evaluated, and/or developed.”

“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).”

3.2 Water Rights in WRIA 1

In 2001 and 2002 work was completed to identify, catalogue and map existing water right certificates, permits, applications, select claims, and identification of current water right holders along with the amounts of water associated with each in WRIA 1.

[Ed note, the results of the above described work can be found at: http://wria1project.whatcomcounty.org/Resource-Library/Studies-And-Reports/Water-Rights/65.aspx]

3.3 Instream Flow and Water Supply Strategy

Instream flows are identified as perhaps the most significant challenge facing WRIA 1 in the June 2005 WMP. “Based on the challenges associated with meeting both instream and out-of-stream water use needs, it was agreed by WRIA 1 Watershed Management Project participants that the latest science would be used to reevaluate instream flows.” (mid first paragraph under Section 3.3 heading, p. 9).

WRIA 1 Instream Flow Selection and Adoption Plan (WRIA 1 ISF Action Plan) developed to utilize technical work and define a process at a level to meet the challenges of instream and out-of-stream water needs. “The WRIA 1 DIP includes implementing the ISF Action Plan as a Tier 1 strategy after an evaluation of the ISF Pilot Negotiation projects has been conducted.” (end of first paragraph under Section 3.3 heading, page 9).

(from bottom of page 9 and top of page 11):

“In summary, the WRIA 1 ISF Action Plan is a strategy that addresses water use and water need challenges on a drainage level. It involves a negotiation process with stakeholders to achieve recommended target flows identified using the technical tools described in Section 2 of the WRIA 1 WMP. As part of the negotiation process, management approaches will be identified for achieving the flows. In drainages involving municipal water rights, the instream flow negotiation process will include those stakeholders as described in the WRIA 1 ISF Action Plan. It is anticipated that the inchoate rights, and the way in which they will be considered in meeting projected water needs will be addressed at that time. Table 3 of this WRIA 1 DIP includes the milestones and schedules for identifying the geographic areas for implementing the ISF Action Plan. Also included in this DIP is a mechanism under the Adaptive Management section for evaluating the outcomes of all of the DIP Tier 1 strategies to determine effectiveness in addressing their intended goals. If it is determined that the ISF Action Plan and associated negotiation process is not sufficiently addressing water supply for future uses including the role of unused rights, additional strategies will be identified. The schedule outlined in Table 3 for reviewing the outcomes of Tier 1 actions is quarterly beginning during the 1st Quarter of 2008.”

Table 3 is contained in Attachment 2 of this outline.
4.0 Implementation Strategies, Milestones, and Schedule

Identifies timelines and milestones.

4.1 Implementation Strategies

2005 WRIA 1 WMP actions and strategies categorized into three tiers. Tier 1 actions and strategies identified as the current focus for implementation. Table 3 summarizes the Tier 1 actions and includes subtasks, milestones, schedules, and additional information related to implementation. The WRIA 1 DIP is a living document that will be reviewed regularly as described under Adaptive Management in Table 3 (see Attachment 2 of this outline for Table 3).

4.2 Long Term Monitoring Strategy

A strategy for a WRIA-wide Long Term Monitoring Program was prepared concurrent with the 2007 DIP. The intent of the parallel development was to allow for inclusion of elements of the monitoring strategy so that they could be included in the DIP with an identified schedule and milestones.

Appendix B contains the WRIA 1 Long Term Monitoring Strategy. There are three elements:

- An over-arching WRIA 1-wide program.
- A monitoring element that complements existing monitoring that is more limited in scope where those programs compliment the over-arching WRIA 1-wide monitoring as well as are important to achieving the goals of the WRIA 1 Watershed Management Project.
- Drainage-based monitoring.

4.3 Milestones and Schedule

Table 3 identifies interim milestones and a quarterly schedule for implementing Tier 1 actions from the third quarter of 2007 through the fourth quarter of 2009. The identified schedule may change based upon use of adaptive management, the availability of funding and continued commitments from WRIA 1 Watershed Management Project participants.

Actions identified in the June 2005 WRIA 1 WMP for implementation in 2005 and 2006 were taken into consideration in the development of the 2007 DIP.

5.0 Funding Options

Tasks to address long term funding are identified in the “Related Information” column of Table 3 of this DIP and include establishing a funding subcommittee to participate in identifying funding options for consideration. The intent is to expand on the May 2005 effort of a WRIA 1 Planning Unit subcommittee that reviewed and identified funding options for presentation to the legislative bodies. The funding subcommittee will also consider governance and integration topics given their relationship to funding.”
Legislature, commitments from participating governments for continued staff involvement, and pursuing partnerships with other entities implementing similar or complementary programs.”

**5.1 Phase IV Watershed Planning Funds**

Funding is described. $100,000/year with 10% match for first three years and an approved DIP after the first year, then up to $50,000/year for years 4 and 5, also with a 10% match. $30,000 to $60,000 available for “Watershed Councils” for administrative support in 2008 and 2009.

**5.2 Watershed Operating and Capital Budget**

Potential funding source. Statewide, the Watershed Operating Budget is approximately $4 million and the Capital Budget about $12 million for the biennium. Requests are being prepared for stream gaging and water quality monitoring.

**5.3 Watershed Protection and Restoration Grant**

$50,000 received by the Nooksack Indian Tribe to support integration and coordination of WRIA 1 Salmon Recovery Program efforts with other watershed planning efforts.

**5.4 Resource Commitments from Implementing Entities**

(from bottom page 13 and top page 14):

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

**5.5 Partnership Opportunities**

(from top of page 14):

“Opportunities to partner with other entities involved in activities or programs underway in WRIA 1 will be pursued during implementation of the WRIA 1 DIP. Table 3 identifies several subtasks where establishing partnerships may benefit or expedite implementation.”
Introduction

(portion of only paragraph in section, page 28):

“One of the fundamental premises of the WRIA 1 Watershed Management Project is the recognition that effective water resource management requires a commitment extending beyond the development of the Watershed Management Plan itself.”

“Consistent with the WRIA 1 Watershed Project Scope of Work, the June 2005 WRIA 1 Watershed Management Plan references a long-term strategy that envisions a single management approach for long-term water resource management. The structure envisioned in the June 2005 plan continues representation of a wide-range of interests; involves federal, tribal, state, and local governments; and provides community members with opportunities to become involved in managing water resources in WRIA 1.”

Approach for Developing Implementation Governance Structure

In December 2006 the need for integration elements of the WRIA 1 Watershed Management Project and WRIA 1 Salmon Recovery Program for the purposes of increasing coordination and maximizing resources. Through joint meetings of staff involved with both efforts that included review of other organizations, an option was identified that met the needs of both organizations.

Overview of Proposed Governance Structure

(bottom of page 28, beginning of first paragraph under section heading):

“The governance structure forwarded to the WRIA 1 Joint Board for consideration occurs in three phases. Achieving identified milestones mark the progression from one phase to the next. The one exception is progressing from the current WRIA 1 Watershed Management Project and WRIA 1 Salmon Recovery Program structures to the Phase 1 structure.”

(top of page 29, end of first paragraph):

“The changes reflected in the Phase 1 structure may be implemented by the WRIA 1 Joint Board and WRIA 1 Salmon Recovery Board at any time.”

(end of first full paragraph, page 29):

“The primary difference between the Phase 1 and Phase 2 structure is found in the Program Oversight/Coordination Team level, which combines the WRIA 1 Staff Team and an equivalent staff-level team from the Salmon Recovery Program into a single team responsible for coordinating the WRIA 1 Watershed Management Project and Salmon Recovery Program.”

(beginning of second full paragraph, page 29):

“Phase 3 is the final phase for an integrated natural resource program governance structure. The Phase 3 structure is consistent with the long-term structure envisioned by participants of the WRIA 1 Watershed Management Project. It includes a coordinating body labeled the Natural Resource Program Coordination Team on Figure 1, which is comprised of both dedicated staff independent of any one agency and agency staff. The vision for the Coordination Team is to eventually structure it as a 501(c)(3) organization, which will enable them to receive grants and other funding directly. The Coordination
Team’s primary responsibility is to ensure that WRIA 1 program activities are being coordinated on an agency and community level.” (Figure 1 is Attachment 3 of this Outline).

(last paragraph in section, page 29):

“The phases summarized above are discussed in greater detail below. It is important to note that although identified milestones advance the progression from one phased structure to the next, the actual progression is not a discrete event. While the organizational structure may be at any one phase, there are activities and decisions being made by organizations and agencies that will incrementally move the process for coordinating natural resource activities toward the long-term vision of Phase 3.”

Phase 1

Phase 1 Overview

(bottom of page 29, top of page 30):

“The structure in Phase 1 primarily retains the current structure and function for the WRIA 1 Watershed Management Project and the WRIA 1 Salmon Recovery Program. There are two changes in Phase 1 over the existing structures and functions: consolidation of the policy boards of the two programs into a single meeting format and addition of a community/stakeholder advisory group to the Salmon Recovery Program. There are no milestones associated with implementing this phase of the organizational structure. Transitioning to Phase 1 from the two current processes of the WRIA 1 Watershed Management Project and the Salmon Recovery Program can occur at any time the WRIA 1 Joint Board and Salmon Recovery Board opt to pursue the transition.”

Elements of Phase 1

Structure and function of coordination described. Not much different than existing structure and function.

Organizational Functions

More detailed description of structure, function, and coordination than previous section.

Advantages/Challenges

This phase can be implemented anytime and retains government-to-government relations. There is not dedicated staff or funding.

(second and third bullets, page 32):

“Although Phase 1 addresses the interests of the Salmon Recovery Program by creating a community advisory group as part of the organizational structure it does not fully address the interest of some members, which is to use the existing WRIA 1 Planning Unit for the Salmon Recovery Program as the Planning Unit is currently structured. The challenge of using the WRIA 1 Planning Unit for the Salmon Recovery Program as the Planning Unit is currently structured is the level of responsibility associated with the Planning Unit.”

“Inviting members of the WRIA 1 Planning Unit or their represented caucuses to participate on the newly created Salmon Recovery Advisory Council increases efficiency and coordination between
programs. This cross-representation provides continuity in Phase 3 when merging of the caucus-based
groups occurs.”

Phase 2

Phase 2 Overview

(pages 32 and 33):
“Two milestones that move the organizational structure from Phase 1 to Phase 2 is acceptance of Utah
State University (USU) technical products including the WRIA 1 Decision Support System and underlying
models and completion of the technology transfer associated with the products. Transition to Phase 2
may be facilitated by outcomes of the Whatcom County Comprehensive Water Resource Integration
Project being pursued by Whatcom County Public Works that will provide guiding principles for
implementing actions in the various county planning documents. The outcomes of the County’s
integration project may be available before the first two milestones and may, at the Joint Board/Salmon
Recovery Board’s discretion, be incorporated at some level into the Phase 1 structure.”

“The structural change in Phase 2 over Phase 1 includes a change at the management/administrative
staff level. This change includes combining the Phase 1 (and current) WRIA 1 Staff Team and an
equivalent Salmon Recovery Program staff-level team identified in Phase 1. The intent of a combined
staff function at this organizational level is to further increase the program coordination that was
initiated in Phase 1 on the policy level and apply it at the administration level. The Administrative &
Policy-Related Decision-Maker organizational level remains unchanged from Phase 1. Although the
structure at the staff level changes, its operational function within the WRIA 1 Watershed Project and
the Salmon Recovery Program remains unchanged.”

Elements of Phase 2

(second bullet, page 33):
“The WRIA 1 Staff Team and an equivalent Salmon Recovery Program staff level team consolidate into a
single administrative staff organizational level that assures administration of the policies related to
WRIA 1 Watershed Management Project and Salmon Recovery Program at the implementation level.
The consolidation of the administrative staff also assures increased coordination between programs. “

Both the WRIA 1 Watershed Management Project and Salmon Recovery Program retain the capacity to
implement program elements independently. The role of Community stakeholder groups is unchanged
from Phase 1.

Organizational Functions

A more detailed description of structure and function than in the previous section, particularly in
regards to the combination of the WRIA 1 Staff Team and equivalent Salmon Recovery Program staff.

Advantages/Challenges

Transition from Phase 1 to 2 can be accomplished without disrupting individual programs or processes.
Increased coordination at the staff level. Government-to-government relations are maintained. There
is not dedicated staff or funding.
Phase 3

Phase 3 Overview

(near top of page 35):
“Phase 3 is envisioned as the final structure for coordinated implementation of the natural resource-based programs in WRIA 1. The milestone associated with moving from Phase 2 to Phase 3 is the adoption of instream flows negotiated under the WRIA 1 Instream Flow Selection and Adoption Action Plan and completion of the second phase of the WRIA 1 Watershed Management Plan. The Phase 3 structure integrates and supports established flood control management sub-zones and other drainage-based management structures (e.g., Bertrand Watershed Improvement District). There are a number of changes that occur with the transition from Phase 2 to Phase 3. Primary changes include adding a Natural Resource Program Coordination Team of dedicated staff and agency staff, redefining the role of the administrative staff, expanding the policy level representation to include state and federal elected representatives, and increasing coordination among and between programs.”

Elements of Phase 3

The combined WRIA 1 Staff Team and equivalent for the Salmon Recovery Program from Phase 2 are renamed from “Program Oversight/Coordination” to “Program Oversight & Administration.” Composition of the Program Oversight & Administration Team is independent of any one agency and will have the capacity to make administrative decisions necessary to implement Policy Board approved workplans and directives. The composition of this Team may be expanded to include representation from other resource-based programs and involvement of regional, state, and federal program representatives occurs at this level. This Team serves as a clearinghouse for other agencies and organizations, and may become a 501(c)(3) organization.

(fourth bullet, bottom page 35):
The Policy Board (formerly the Admin & Policy-Related Decision-Makers) from Phase 2 transitions to a broader policy level group by inviting participation of federal and state legislative representatives.

Organizational Functions

Detailed description of structure and function of various bodies.

Advantages/Challenges

(from middle of page 37):
- “The government-to-government relationship is retained.
- The coordinating body is comprised of dedicated staff that is not part of any one agency. This ensures the program coordination occurs at the level anticipated in approved work plans.
- A dedicated staff team requires dedicated funding. A source of funding for the coordination team will need to be identified and pursued.
- Expanding the Policy Board to include state and federal legislative representatives increases opportunities for obtaining and leveraging funds.
- Community members have multiple opportunities to participate in the process.”
Section 1 - Introduction

(The entire section from page 40):

“The June 2005 WRIA 1 Watershed Management Plan includes a recommended action of developing and implementing a WRIA 1 Long Term Monitoring Program (LTMP). This document outlines the strategy for implementing the recommended action.

“An effective long-term comprehensive monitoring program is essential to measuring progress and success of actions implemented as part of the WRIA 1 Watershed Management Project. It is also important to informing additional recommendations or adjustments to the WRIA 1 Watershed Management Project that may occur under Adaptive Management.

“As part of the WRIA 1 LTMP strategy, the WRIA 1 Instream Flow/Fish Habitat Technical Team and the WRIA 1 Salmonid Recovery Steering Committee are collaborating on a habitat monitoring methodology. Elements of the methodology will be incorporated into the WRIA 1 LTMP as part of Adaptive Management.

“A comprehensive and viable monitoring program requires long-term funding commitments. Generally, however, tribal, federal, state, and local government funding for monitoring activities is limited and of short duration. The WRIA 1 LTMP strategy recognizes that to maximize limited resources, monitoring activities need to be planned and conducted in partnership with other agencies and organizations. These partnerships also provide for coordination with other WRIA 1 programs such as the WRIA 1 Salmon Recovery and with other entities involved in monitoring activities in WRIA 1. The partnerships may take the form of funding contributions, staff for implementing monitoring activities, and/or agreeing to long-term commitments to implement specific monitoring activities.

“The WRIA 1 LTMP strategy purpose and approach is outlined in Section 2. Section 3 of this document identifies the goals and objectives upon which the WRIA 1 strategy is based. The elements of the WRIA 1 LTMP strategy, including approaches for integrating and coordinating with other agencies, are summarized in Section 4. Section 5 describes approaches for managing and reporting data collected under the WRIA 1 LTMP. Section 6 includes a summary of recommendations and milestones associated with implementing the WRIA 1 LTMP strategy as it is described in this document. Section 7 summarizes the Adaptive Management element of the WRIA 1 LTMP strategy.”

Section 2 – WRIA 1 Long Term Monitoring Program Purpose

(from page 41):

“The purpose of the WRIA 1 Long Term Monitoring Program (LTMP) is to establish and maintain an ambient monitoring program sufficient to assess current water quality, water quantity, and fish habitat conditions and trends and to protect beneficial uses in WRIA 1. The monitoring program will include data collection, quality assurance, data management, data analysis, and reporting. Data collected will inform policies and management actions necessary to meet the goals of the WRIA 1 Watershed Management Project by allowing for evaluation of the effectiveness of management actions and refinement of management tools.”
The WRIA 1 LTMP consists of a three tiered (element) strategy (as also listed in Section 4.2, lines 207-212 of this Outline):

- An over-arching WRIA 1-wide program.
- A monitoring element that complements existing monitoring that is more limited in scope where those programs compliment the over-arching WRIA 1-wide monitoring as well as are important to achieving the goals of the WRIA 1 Watershed Management Project.
- Drainage-based monitoring.

A dedicated funding source is needed. The LTMP will be reviewed on a regular basis pursuant to adaptive management measures described in this document. Sample stations, parameters measured, frequency of sampling, costs, and lead entity information is presented in the spreadsheet in Appendix A. That spreadsheet is a working document that will be completed and revised as needed. [Ed note, the Appendices A and B referenced within this version of the LTMP are not included in the 2007 DIP].

Section 3 – WRIA 1 Long Term Monitoring Goals and Objectives

The LTMP involves monitoring surface and ground water quality and quantity, meteorological conditions, water use, biological conditions necessary for salmon and shellfish, and monitoring of the implementation of management actions.

Numerous goals are listed for Water Quantity, Quality and Instream Flow/Fish Habitat, which are listed on pages 42 and 43. The goals quantify on-going conditions, identify trends; and compare them against various benchmarks such as historic and desired conditions.

Section 4 – WRIA 1 Long Term Monitoring Program Design

Section 4.1 Over-Arching WRIA-Wide Monitoring Element:
Continue to collect stream flow information. Currently there are 29 stream gages, three of which are located north of the US/Canada border (listed in Table 2). The number of gaging stations may be reduced based on funding availability and how well gages correlate with each other. Collect stream temperature data at gages with data recording or telemetry and collect dissolved oxygen measurements when personnel at the gage.

In addition to the stream gage sites, eight sites will be monitored for various water quality parameters including dissolved oxygen, air and water temperature, pH, suspended solids, nutrients, turbidity, and bacteria (listed in Table 3). Ongoing funding required.

Develop a Habitat Monitoring Methodology, which will be incorporated as part of Adaptive Management.

Support existing meteorological stations and establish a new station in the upper Middle Fork Watershed.

Section 4.2 Complimentary Monitoring Programs

Work with existing programs such as the Whatcom County Shellfish Protection and Marine Resources Programs, Ecology water use monitoring, the Lake Whatcom Management Program, and Bellingham’s Urban Stream Program as well as efforts underway by Ecology and the City of Bellingham in the Middle
Fork Nooksack. Local industries and the Northwest Clean Air Agency may provide additional meteorological information.

4.3 Individual Drainage Monitoring Programs

(from page 51 and 52):
“This last tier of the WRIA 1 LTMP involves future monitoring programs designed and implemented as drainage-based management units are established. The WRIA 1 LTMP strategy is to develop a framework for the management units to adopt as their monitoring program. This framework will be developed as part of the Adaptive Management element of the LTMP.”

Section 5 – WRIA 1 Long Term Monitoring Program Quality Assurance, Data Management, and Reporting

Rely on Quality Assurance Project Plans (QAPP) utilized by state and federal agencies currently conducting monitoring. Develop a template QAPP for drainage-based monitoring. Additional quality assurance and data management considerations will be developed as the Habitat Monitoring Methodology is developed.

Section 6 – WRIA 1 Long Term Monitoring Strategy Recommendations and Milestones

(from page 52):
“This section of the WRIA 1 LTMP provides a summary of tasks and recommendations associated with implementing the WRIA 1 LTMP strategy. Table 4 is a summary of the recommendations, schedule, and identified lead. The WRIA 1 Detailed Implementation Plan includes additional detail for implementing the WRIA 1 LTMP Strategy and recommendations.”

Table 4 referenced above is Attachment 4 in this Outline.

Section 7 – WRIA 1 Long Term Monitoring Program Adaptive Management

(from page 55 and 56):
“The WRIA 1 LTMP adaptive management approach is designed to incorporate monitoring results from programs identified in the LTMP strategy back into the decision-making process in a manner consistent with the overall adaptive management approach described in the June 2005 WRIA 1 Watershed Management Plan. Ensuring monitoring results are appropriately influencing or being incorporated into management programs requires consistent dedication of resources including staff and funding. The steps associated with the WRIA 1 LTMP adaptive management approach, which will run concurrent with the WRIA 1 LTMP strategy implementation, include:

1. Evaluate monitoring data associated with the over-arching monitoring element of the WRIA 1 LTMP strategy and assess extent to which the goals and objectives identified in Section 3.0 have been achieved;
2. Evaluate monitoring data associated with complementary programs;
3. Evaluate status of implementing WRIA 1 LTMP recommendations in Section 6.0;
4. Evaluate status of funding to support implementation of WRIA 1 LTMP strategy;
5. Assess outcome of evaluations identified in numbers 1-4 and determine appropriate adaptive management options;
6. Implement the appropriate adaptive management action consistent with the adaptive management approach described in the WRJA 1 Watershed Management Plan; and
7. Monitor the effects of the adaptive management actions.

“As part of the adaptive management process, a project team involved with coordinating implementation of the WRJA 1 Watershed Management Plan will initiate the process for implementing the steps outlined above. The process taken will be consistent with organizational procedures identified for the WRJA 1 Watershed Management Project.”

2007 DIP Appendix C  WRJA 1 Caucus Comments Reviewed by WRJA 1 Planning Unit
WRJA 1 Caucus comments received by June 18, 2007 and discussed at the July 20, 2007 Planning Unit meeting.

2007 DIP Appendix D  Other WRJA 1 Caucus Comments
WRJA 1 Caucus comments received after June 18, 2007.
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ATTACHMENT 2

TABLE 3 from the 2007 DIP

(Note formatted for 11x17 paper). Table 3 spans pages 15 to 26 in the 2007 DIP, which can be downloaded from: http://wria1project.whatcomcounty.org/Resource-Library/Guiding-Documents-And-Plans/64.aspx immediately under the heading “Plans.”
<table>
<thead>
<tr>
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</table>
| Complete Phase III Technical Scope of Work | • USU Phase III Scope of Work Models Completed  
• WRIA 1 review & comment process associated with each of the milestones. | • 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 | • Q3-Q7 (pre-peer review version)  
• Q4-Q7-Q8 (peer review version)  
• Q2-Q8 (full release version & uncertainty/ sensitivity memo)  
• Q2-Q3-Q8 (final approvals on contract deliverables) | • WRIA 1 Joint Board lead on USU contract (all milestones)  
• WRIA 1 Staff Team-Tech Team leads coordinate review & comment | • Existing- MOA between WRIA 1 Initiating Governments  
• Phase III technical work to complete the Decision Support System and related models (Surface water quality, surface water quantity, and instream flow/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”. |
| DSS Technology Transfer: Training (includes SWQI, SWQL, ISF/FH models) | • DSS Server installation and configuration  
• Technical workshop-Scenario Builder Training  
• DSS final training | • Q3-Q7 (DSS install & Scenario Training)  
• Q2-Q8 (final DSS training) | • WRIA 1 Joint Board administrator lead for coordinating with USU on DSS install and training workshop | • Existing- USU Phase III Contract  
• Existing- MOA for WRIA 1 Initiating Governments  
• New- Contracts with PRP members if needed |
| Peer Review of Models and Associated Support | • 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. | • Q4-Q7- Establish Panel  
• Q4-Q7-Q8 (PRP and TT review/comment) | • WRIA 1 Joint Board administrator lead for Peer Review Panel  
• WRIA 1 Staff Team-Tech Team leads coordinate review & comment | • Existing- USU Phase III Contract  
• Existing- MOA for WRIA 1 Initiating Governments  
• New- Negotiated agreements with Bertrand stakeholders |
| Complete WRIA 1 Instream Flow Pilot Negotiation Projects | • Bertrand Drainage Instream Flow Pilot  
• 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. | • Q3-Q7 (ISF participants agree on target flows)  
• Q4-Q7 Joint Board and Planning Unit consideration of target flows  
• Q2-Q8 (seek Joint Board and Planning Unit approval) | • 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.  
• 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 | • 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 |
| Middle Fork Instream Flow Pilot | • 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. | • Q3-Q7 (ISF participants agree on target flows)  
• Q4-Q7 Joint Board and Planning Unit consideration of target flows  
• Q2-Q8 (seek Joint Board and Planning Unit approval) | • City of Bellingham lead on Middle Fork ISF negotiation pilot project  
• Department of Ecology is lead for legal mediation contract.  
• Existing- Interlocal agreement between PUD & Whatcom County.  
• Existing-Confidentiality agreements signed by ISF negotiation participants.  
• New-MOA between | • The Middle Fork 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 described in 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 negotiated settlement approved by court) may be considered as part of the milestones listed. |

* Whatcom County administers the USU contract on behalf of the WRIA 1 Joint Board.
<table>
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<tr>
<td>WRIA 1 Instream Flow Selection &amp; Adoption Action Plan (ISF Action Plan)</td>
<td>• Evaluate ISF Pilot Negotiation Process</td>
<td>• 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.</td>
<td>Q4/07 (initiate review and evaluation of documents from ISF Pilot project)</td>
<td>• WRIA 1 Staff Team Tech Team coordinates task</td>
<td>• Existing-Interlocal agreement between PUD &amp; Whatcom County.</td>
<td>• 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. • Consider climate change in assessing future water needs with projections of water availability, particularly in watersheds that contain snowpack and/or glaciers.</td>
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<tr>
<td></td>
<td>• Selection of geographic areas for initiating and implementing ISF Action Plan.</td>
<td>• ISFWG recommend next four drainages for initiating the ISF Action Plan process (2 upper watershed and 2 lower watershed)</td>
<td>TBD</td>
<td>• WRIA 1 Staff Team Tech Team leads coordinator process for selecting geographic areas.</td>
<td>• Existing-MOA between WRIA 1 Initiating Governments</td>
<td>• 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. • The pilot project evaluations will take into consideration WRIA 1 Planning Unit comments received during review of the Detailed Implementation Plan. Comments received included involving the Planning Unit in addressing the process and principles used in producing target flow recommendations and possibly reviewing management recommendations associated with the target flow proposals.</td>
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<td></td>
<td>• Initiate process in two of the four selected areas.</td>
<td>• Prepare PIE plan</td>
<td>TBD</td>
<td>• New-Confidentiality agreements with participants of ISF negotiations</td>
<td></td>
<td>• 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.</td>
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WRIA 1 Detailed Implementation Plan}

July 2007

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<table>
<thead>
<tr>
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<tr>
<td>agreements</td>
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<td>that can be modified or adapted to meet the needs of the individual drainage to maximize resources and expedite the process.</td>
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<tr>
<td>• Updates on process to WRIA 1 Watershed Management Project participants</td>
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<tr>
<td><strong>Develop Initial Target Flows in first two areas</strong></td>
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<td>TID</td>
<td>TID</td>
<td>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 USE to calibrate the WRIA 1 models.</td>
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<tr>
<td>• ISFWG reviews IF/FH Tech Team preliminary flows for selected drainages; present to ISF process participants</td>
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<tr>
<td><strong>Convert target flows to negotiated flows in first set of selected basins for Joint Board and Planning Unit approval</strong></td>
<td></td>
<td>TID</td>
<td>TID</td>
<td>New-MOA between affected parties.</td>
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<td>• 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</td>
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<td>New- Negotiated agreements with drainage area stakeholders</td>
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<td>• Identify management options and strategy for addressing water needs</td>
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<td>• ISFWG and affected parties reach agreement on target flows and prepare recommendations to Joint Board and Planning Unit for approval</td>
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<tr>
<td>• Target flows presented to Joint Board and Planning Unit for consideration</td>
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<td>• Joint Board and Planning Unit approval of target flows</td>
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<tr>
<td><strong>Initiate process in next two geographic areas (second set of four areas selected in Q3-07)</strong></td>
<td></td>
<td>TID</td>
<td>TID</td>
<td>Inchoate rights are considered in discussions of current and future water use estimates and management process/strategies to meet instream and out stream water use.</td>
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<tr>
<td>• Initiate public outreach in next two geographic areas selected</td>
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<td></td>
<td>Experience of the ISF Pilot Negotiations indicates that the processes in the two basins 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.</td>
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<tr>
<td>• ISFWG workshops with affected parties within the identified drainages to discuss flow recommendations</td>
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<td>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.</td>
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<tr>
<td>• Initiate meetings between ISFWG and affected and enter into confidentiality agreements</td>
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<tr>
<td>• Updates on process to WRIA 1 Watershed Management Project participants</td>
<td>October 2007</td>
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</table>

1 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.
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<tr>
<td>• Develop Initial Target Flows in next two basins.</td>
<td></td>
<td>TBD</td>
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<tr>
<td>• ISFWG reviews IFH Tech Team preliminary flows for selected drainages; present to ISF process participants</td>
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<tr>
<td>• Convert target flows to negotiated flows in second set of selected basins for Joint Board and Planning Unit approval</td>
<td>• TBD</td>
<td>• TBD</td>
<td></td>
<td>It is anticipated that the WRIA 1 DSS will expedite review of initial preliminary flows for presentation to the participants of the ISF negotiations.</td>
</tr>
<tr>
<td>• 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</td>
<td>• TBD</td>
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<tr>
<td>• Identify management options and strategy for addressing water needs</td>
<td>• TBD</td>
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<td>• ISFWG and affected parties reach agreement on target flows and prepare recommendations to Joint Board and Planning Unit for approval.</td>
<td>• TBD</td>
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<tr>
<td>• Target flows presented to Joint Board and Planning Unit for consideration</td>
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<td>• Joint Board and Planning Unit approval of target flows.</td>
<td>• TBD</td>
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<tr>
<td>• Complete ISF negotiations in remaining WRIA 1 basins.</td>
<td>• TBD</td>
<td>• TBD</td>
<td></td>
<td>New-MOA between affected parties. New-Negotiated agreements with drainage area stakeholders. 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.</td>
</tr>
<tr>
<td>• Identify geographic areas, milestones, timelines, budget, and responsible lead for purposes of completing ISF negotiations in remaining WRIA 1 drainages.</td>
<td>• TBD</td>
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<td>• Final Flow Recommendations</td>
<td>• TBD</td>
<td>• TBD</td>
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<td>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.</td>
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<tr>
<td>• ISFWG compile and review recommended flows from each drainage system for inconsistencies and contradictions</td>
<td>• TBD</td>
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<tr>
<td>• Present complete set of flow recommendations to Joint Board and Planning (includes holding public hearing on recommendations)</td>
<td>• TBD</td>
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<tr>
<td>• Joint Board and Planning Unit approval of final recommended flows</td>
<td>• TBD</td>
<td>• TBD</td>
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<tr>
<td>• Incorporate approved final flows into next version of WRIA 1 WMP</td>
<td>• TBD</td>
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<td>• Planning Unit provides direction to Ecology to proceed with rule-making if change to current regulatory flows is required</td>
<td>• TBD</td>
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<td>• Forward agreed to flows to</td>
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<tr>
<td>Tier 1 Actions</td>
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<tr>
<td>WRJA 1 Long Term Monitoring Plan Strategy</td>
<td>Identify ground water monitoring program to support Section 3.0 of WRJA 1 LTMP strategy.</td>
<td>Compile existing WRJA 1 programs relative to ground water monitoring.</td>
<td>Q1:08</td>
<td>WRJA 1 ST/TTL coordinates implementing recommendation.</td>
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<td></td>
<td>Develop draft monitoring program, if needed, based on outcome of review.</td>
<td>Identify lead, funding, and agreements needed to implement ground water program.</td>
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<td></td>
<td>Incorporate into WRJA 1 LTMP Strategy as part of adaptive management (Section 7.0, WRJA 1 LTMP Strategy).</td>
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<td>Develop agreements for including stream temperature and periodic dissolved oxygen measurements at all gage stations equipped with recorders or telemetry systems.</td>
<td>Identify approaches for obtaining agreements with USGS and/or EAP to install, operate, and maintain stream temperature recorders at gage stations.</td>
<td>Q3:07 (approaches for obtaining agreements)</td>
<td>WRJA 1 ST/TTL coordinates implementing recommendation with USGS and/or EAP</td>
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<td>Identify approaches for obtaining periodic dissolved oxygen measurements at gage stations at point of station maintenance.</td>
<td>Q1:08 (install probes at gages)</td>
<td>WRJA 1 ST/TTL coordinates implementing recommendation with USGS and/or EAP</td>
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<td></td>
<td>Install stream temperature probes at gage stations that do not currently have probes.</td>
<td>Q4:07 (obtain agreements for implementing data collection at USGS/EAP sites)</td>
<td>WRJA 1 Initiating Governments</td>
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<tr>
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<td></td>
<td>Obtain agreements with USGS, EAP, and/or others for purposes of implementing recommendation.</td>
<td>Q1:08 (obtain agreements w/ Environment Canada for border sites)</td>
<td>New Agreement with USGS and/or EAP for new measurements at gage stations.</td>
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<tr>
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<td></td>
<td>Obtain agreements with Environment Canada for three existing border stations relative to installation of stream temperature recorders and periodic dissolved oxygen measurements.</td>
<td></td>
<td>New Agreement with Environment Canada for adding new measurements at border gage stations.</td>
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<tr>
<td></td>
<td>Identify and secure agreements and/or funding for stream gage network.</td>
<td>Develop matrix of gages and current sources of funding (short and long term)</td>
<td>Q3:07 (develop matrix of current funding)</td>
<td>WRJA 1 ST/TTL coordinates tasks associated with identifying funding options, presenting to decision-makers, and securing agreements.</td>
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<td>Develop matrix of funding options and leads for stream gage network (includes O&amp;M costs for flow and temped periodic DO measurements).</td>
<td>Q4:07 (develop matrix of long-term funding options)</td>
<td>New Long-term agreements developed with EAP and/or USGS for gage stations.</td>
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<td>Present options to decision-makers for discussion.</td>
<td>Q1:08 (present options to decision-makers)</td>
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<td>Follow-up to outcomes of decision-makers’ discussion incorporated into WRJA 1 LTMP strategy adaptive management.</td>
<td>Q2:08 (Secure agreements)</td>
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<td></td>
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<td>Secure agreements for funding options.</td>
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<td><strong>TIER 1 ACTIONS</strong></td>
<td>Correlate existing gaging stations over a range of flow conditions. Conduct short-term (preferably one year duration) measurements at ungaged drainages to establish correlations with existing stations.</td>
<td></td>
<td>Q1-08 (draft scopes of work)</td>
<td>WR1A 1 ISF/FH and SWQIN Technical Team Members lead on initiating discussions and drafting scopes of work. WR1A 1 ST/TTL identifies potential lead and funding source for decision-makers consideration. WR1A 1 ST/TTL coordinates implementation of technical scope of work as part of WR1A 1 LTMP Strategy adaptive management.</td>
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<td></td>
<td>Establish agreements and/or funding for water quality monitoring stations identified in WR1A 1 LTMP Strategy.</td>
<td>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 WR1A 1 LTMP strategy adaptive management. Obtain agreements with USGS, EAP, and/or others for purposes of implementing recommendation.</td>
<td>Q4-07 (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)</td>
<td>WR1A 1 ST/TTL coordinates tasks associated with identifying funding options, presenting to decision-makers, and securing agreements. WR1A 1 ST/TTL coordinates completion of tasks. Existing MOA for WR1A 1 Initiating Governments New Long-term agreements developed with EAP and/or others for water quality stations.</td>
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<td>Develop framework for a drainage-based monitoring program.</td>
<td>Draft framework for program based on programs developed for pilot negotiation areas. Incorporate framework into WR1A 1 LTMP strategy adaptive management program for implementation.</td>
<td>Q1-08 (develop program) Q2-08 (incorporate in LTMP strategy)</td>
<td>WR1A 1 ST/TTL coordinates completion of tasks. Existing MOA for WR1A 1 Initiating Governments</td>
</tr>
<tr>
<td></td>
<td>Incorporate elements of Habitat Monitoring Methodology into the WR1A 1 LTMP Strategy.</td>
<td>Review parameter monitoring methodologies developed as part of the overall Habitat Monitoring Methodology Incorporate relevant methodologies into WR1A 1 LTMP Strategy.</td>
<td>Q4-07 (review monitoring methodologies) Q1-08 (incorporate into LTMP strategy)</td>
<td>ISF/FH Tech Team lead for coordinating meetings with Salmon Recovery Work Group to review monitoring methodologies. WR1A 1 ST/TTL for coordinating incorporation of relevant methodologies</td>
</tr>
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<td>• Coordinate with entities implementing complementary programs.</td>
<td>• Obtain complementary program information from implementing entities.</td>
<td>• Incorporate complementary program details into WRIA 1 LTMP Strategy.</td>
<td>• Q3/07 (initiate contact gather program data)</td>
<td>• Q3/07 (incorporate details into WRIA 1 LTMP Strategy)</td>
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<td>• Identify centralized system for managing data at stations identified in the overarching monitoring program.</td>
<td>• 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.</td>
<td>• Q4/07 (Evaluate DSS data management system)</td>
<td>• Q1/08 (Collaborate with entities collecting data to agree on approach)</td>
</tr>
<tr>
<td></td>
<td>• Incorporate data from complementary programs into WRIA 1 Decision Support System.</td>
<td>• Coordinate with entities of complementary programs to identify format and process for DSS Data Manager to receive data.</td>
<td>• Q2/08</td>
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<td>• Integrate water use information into WRIA 1 DSS.</td>
<td>• Provide feedback to Ecology on format for organizing data collected by Ecology on metered water users.</td>
<td>• Q3/07</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Establish process for analyzing data collected under WRIA 1 LTMP Strategy and evaluating if goals and objectives of Strategy are being met.</td>
<td>• Establish process for analyzing data.</td>
<td>• Q4/07 (identify process)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Evaluate data and assess extent to which goals and objectives are being met.</td>
<td>• TBD (schedule for evaluating data and subsequent recommendations will be addressed as part of the process established).</td>
<td></td>
</tr>
<tr>
<td>Task</td>
<td>Subtasks</td>
<td>Schedule</td>
<td>Activity Leads</td>
<td>Agreements</td>
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</tbody>
</table>
| Compliance Program<sup>6</sup> | • Water right education efforts and technical assistance  
• Continue water right education in the ISF pilot negotiation drainages (Bertrand and Middle Fork)  
• Continue providing technical assistance to the Bertrand WDF 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.  
• Identify approaches for implementing WRIA 1 Watershed Management Plan, Compliance Program goals 3-6.  
• 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.  
• Public education and technical assistance related to existing regulations addressing water supply, instream flow, water quality, and fish habitat issues  
• 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. | • Q3.07 through Q3.08 (continue water right education in ISF pilot areas)  
• Q4.07 (technical assistance to Bertrand WDF)  
• Q4.07 (evaluate code compliance and outcomes of complaint investigations)  
• Q1.08 (identify drainages for focusing education and or technical assistance)  
• Q1.08 (establish committee)  
• Q3.08 (strategy drafted)  
• Q4.08 (consider elements to incorporate into adaptive management process)  
• Q3.08 | • Ecology lead with updates to coordination with WRIA 1 ST TTL  
• Existing MOA for WRIA 1 Initiating Governments  
• New Bertrand WDF agreement with Ecology for water management strategy that addresses water use.  
• WRIA 1 ST TTL coordinate task.  
• Existing MOA for WRIA 1 Initiating Governments  
• WRIA 1 ST TTL coordinate task with WRIA 1 PIE Tech Team  
• Existing MOA for WRIA 1 Initiating Governments | • 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 2000 - April 2007 Ecology’s Bellingham Field Office (BFO) responded to 32 water code complaints  
• 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.  
• Whatcom County PDS has developed a Natural Resource Management topic of broad 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. |

<sup>6</sup>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.
<table>
<thead>
<tr>
<th>Implementation Actions</th>
<th>Schedule</th>
<th>Agreement</th>
<th>Related Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Natural Resource Policy Integration Program (NRPI)</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td><strong>Subtasks</strong></td>
<td><strong>Milestones</strong></td>
<td><strong>Quarter/Yr</strong></td>
</tr>
<tr>
<td>• Improve efficiency and effectiveness between existing natural resource programs.</td>
<td>• Implement outcomes of WRIA 1 Joint Board discussions associated with program coordination.</td>
<td>• Present outcomes of the Whatcom County Comprehensive Water Resource Integration Project.</td>
<td>• WRIA 1 ST/TTL coordinates outcomes of Joint Board discussions.</td>
</tr>
<tr>
<td></td>
<td>• Present outcomes of the Whatcom County Comprehensive Water Resource Integration Project.</td>
<td>• Present outcomes of Neooksac Tribe grant deliverable identifying approaches to improve integration and coordination between WRIA 1 watershed planning and salmon recovery planning.</td>
<td>• WRRA 1 ST/TTL &amp; WRIA 1 Salmon Recovery Steering Committee or its designated representatives coordinate reviews and developing strategy.</td>
</tr>
<tr>
<td></td>
<td>• Identify additional areas, if necessary, for improving coordination and/or integration of elements within existing County programs.</td>
<td>• Identify opportunities for improving efficiencies and effectiveness among WRIA 1 jurisdictions implementing natural resource programs.</td>
<td>• Whatcom County evaluates opportunities to expand Whatcom County PDS website.</td>
</tr>
<tr>
<td></td>
<td>• Develop strategy for implementing opportunities and needs identified in previous milestones.</td>
<td>• Develop strategy for implementing opportunities and needs identified in previous milestones.</td>
<td>• Whatcom County present outcomes of County Comprehensive Water Resource Integration project</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
<td></td>
<td>• Neooksack Tribe present outcomes of watershed project/salmon recovery integration grant recommendations.</td>
</tr>
</tbody>
</table>

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<sup>1</sup> 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.
<table>
<thead>
<tr>
<th>Task</th>
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<th>Schedule</th>
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<th>Related Information</th>
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</thead>
<tbody>
<tr>
<td>TIER 1 ACTIONS</td>
<td>• 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.</td>
<td></td>
<td>• Q3:08 identify options, evaluate feasibility of DSS workstation. • Q3:08 discuss options, develop strategy and scope. • Q3:08 implement integrated, web accessible database.</td>
<td>• WRIA 1 ST/TTL coordinate task.</td>
<td>• Existing MOA for WRIA 1 Initiating Governments • TBD</td>
<td>• The WRIA 1 Watershed Management Project website is currently hosted by WSU Extension, Whatcom County (<a href="http://www.wria1project.wsu.edu">www.wria1project.wsu.edu</a>). Changes, if any, that occur to the WRIA 1 Watershed Management Project website as a result of implementing milestones identified in the NRIP program will be clearly documented on the WRIA 1 Watershed Management Project website, Whatcom County website (<a href="http://www.co.whatcom.wa.us">www.co.whatcom.wa.us</a>), and other related websites.</td>
</tr>
<tr>
<td>Governance and Administration</td>
<td>• Implement Phase 1 of the March 2007 draft of the Governance Structure for Implementing WRIA 1 Programs.</td>
<td></td>
<td>• Q3:07 (consolidated policy meetings) • Q4:07 (feasibility report)</td>
<td>• WRIA 1 Staff Team-Designed representative for the WRIA 1 Salmon Recovery Board • WRIA 1 Staff Team coordinate feasibility report with designated representative for Salmon Recovery Steering Committee</td>
<td>• 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 creating the WRIA 1 Joint Board • Existing Approval documents for consolidating meetings of the WRIA 1 Joint Board and WRIA 1 Salmon Recovery Board.</td>
<td>• 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.</td>
</tr>
</tbody>
</table>

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1 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.

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<table>
<thead>
<tr>
<th>Task</th>
<th>Subtasks</th>
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<tbody>
<tr>
<td><strong>TIER 1 ACTIONS</strong></td>
<td></td>
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</tr>
<tr>
<td>652</td>
<td>Identify long term funding options.</td>
<td>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)</td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
<td>WRIA 1 Staff Team and support staff lead for coordinating task.</td>
</tr>
<tr>
<td>653</td>
<td>WRIA 1 Watershed Management Project Support</td>
<td>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)</td>
</tr>
<tr>
<td></td>
<td>• Organize and conduct Planning Unit meetings as described in the June 2005 WRIA 1 Watershed Management Plan. • Organize and conduct 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.</td>
<td>WRIA 1 Staff Team and support staff lead for coordinating tasks.</td>
</tr>
<tr>
<td></td>
<td><strong>Adaptive Management</strong></td>
<td>Q1-08: Q3-08: Q1-09: Q3-09 (review status) Q4-08: Q4-09 (recommend modifications and develop new work plan/implementation schedule)</td>
</tr>
<tr>
<td>654</td>
<td>Develop Implementation Schedule for Tier 2 and Tier 3 Category WMP Actions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 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.</td>
<td><strong>Existing MOA for WRIA 1 Initiating Governments</strong> <strong>Existing: ILA between Co-Managers and Local Governments creating the Salmon Recovery Board as Lead Entity</strong> New - TBD</td>
</tr>
<tr>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
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<td>Funding options for dedicated long term funding will require additional processes at the legislative level.</td>
</tr>
</tbody>
</table>

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<tr>
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<th>Activity Leads</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>TIER 1 ACTIONS</strong></td>
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<td></td>
</tr>
<tr>
<td>Implement Section 7, Adaptive Management of the WRIA 1 Long Term Monitoring Program Strategy</td>
<td>• Establish coordinating/technical team to implement adaptive management steps identified in the WRIA 1 LTMP strategy.</td>
<td>• Q1:08; Q3:08; Q1:09; Q3:09 (coordinating/technical team meets to review steps)</td>
<td>• WRIA 1 Staff Team and support staff lead for coordinating tasks</td>
<td>• Existing MOA for WRIA 1 Initiating Governments • New – TBD</td>
</tr>
<tr>
<td>Modification/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</td>
<td>• 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.</td>
<td>• Q1:08; Q1:09 (annual status report) • Q2:08; Q2:09 (evaluate strategies)</td>
<td>• WRIA 1 Staff Team and support staff lead for coordinating tasks</td>
<td>• Existing MOA for WRIA 1 Initiating Governments • Existing Section 2.7 of the March 2000 WRIA 1 Watershed Management Project.</td>
</tr>
</tbody>
</table>
Figure 1. Proposed organizational structures for increased coordination and integration of WRIA 1 Watershed Project and WRIA 1 Salmon Recovery Program

Legend:
- **Re**: government-to-government
- **Orange**: legislative (councils/commissions)
- **Green**: decision-makers (policy level)
- **Turquoise**: management/admin staff level
- **Purple**: technical staff
- **Brown**: community/stakeholder
- **Grey**: relationship to federal, state, regional agency or program
- **Blue**: independent, dedicated program staff
- **Double border**: change from existing or previous phase

**PHASE 1**
- Legislative Bodies
  - Admin & Policy-Related Decision-Makers (Joint Board/Salmon Recovery Board)
  - WRIA 1 Staff Team
  - Technical Teams
  - Salmon Recovery Steering Committee

**PHASE 2**
- Legislative Bodies
  - Federal, State, Regional Involvement Programs
  - Program Oversight/Coordination Team
  - WRIA 1 Watershed Project
  - Salmon Recovery Program

**PHASE 3**
- Legislative Bodies
  - Policy Decision-Makers (Joint Board/Salmon Recovery Board/Others)
  - Program Oversight & Administration (watershed council concept: includes WRIA 1 Staff Team/Salmon Steering Committee/Others; federal, state, regional involvement programs)
  - Natural Resource Program Coordination Team (Dedicated staff including existing agency staff; possible 701(c)(3) formation)
  - Caucus-Based Advisory Group (merging of Planning Unit and Salmon Recovery Advisory Group from P2)

As drainage based groups are established and plans prepared, the groups interact with the Coordination Team.

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<table>
<thead>
<tr>
<th>ID</th>
<th>Recommendation</th>
<th>Schedule</th>
<th>Lead</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC1</td>
<td>Identify groundwater monitoring program that addresses over-arching goals and objectives identified in Section 3.0.</td>
<td>Q1/08</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DC2</td>
<td>Establish agreements and/or funding for stream temperature and periodic dissolved oxygen measurements at flow stations.</td>
<td>Q4/07- Establish agreements with USGS and/or EAP</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DC3</td>
<td>Secure agreements and/or funding for the stream gaging network identified in Table 1.</td>
<td>Q2/08</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DC4</td>
<td>Correlate the 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.</td>
<td>Q1/08- Initiate two-year effort to correlate gage stations. Q1/08- Initiate one-year data collection effort at unaged drainages.</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DC5</td>
<td>Establish agreements and/or funding for water quality monitoring stations.</td>
<td>Q4/07- Establish agreement with EAP, Ecology-NFO, Tribes, and/or other</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DC6</td>
<td>Develop general framework for drainage-based monitoring programs.</td>
<td>Q1/08</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DC7</td>
<td>Incorporate elements of Habitat Monitoring Methodology into the WRLA 1 LTMP strategy.</td>
<td>Q4/07 – Review parameter monitoring methodologies developed as part of the overall Habitat Monitoring Methodology Q1/08 – Incorporate relevant methodologies into WRLA 1 LTMP strategy</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DC8</td>
<td>Coordinate with entities implementing complementary programs to obtain program information for incorporation into the WRLA 1 LTMP strategy including maps with station location and program goals and objectives.</td>
<td>Q3/07- Initiate contact with leads of complementary programs; incorporate relevant detail into WRLA 1 LTMP strategy</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DM1</td>
<td>Identify centralized system for managing data at stations identified in the over-arching monitoring program.</td>
<td>Q4/07- evaluate DSS data management system and framework for purposes of a centralized system for data management Q1/08- collaborate with entities involved with data collection to agree on system Q2/08- develop necessary agreements to implement centralized data management system</td>
<td>Whatcom County-Public Works (Data Manager)</td>
</tr>
<tr>
<td>DM2</td>
<td>Collaborate with entities implementing complementary programs for purposes of incorporating data into the WRLA 1 data management system.</td>
<td>Q2/08- identify format and process</td>
<td>WRLA 1 Staff Team</td>
</tr>
<tr>
<td>DM3</td>
<td>Identify format for Ecology’s metered water use reporting.</td>
<td>Q3/07- identify format</td>
<td>Dept. of Ecology-NFO</td>
</tr>
<tr>
<td>DA1</td>
<td>Establish process for analyzing data collected under WRLA 1 LTMP to evaluate extent to which the goals and objectives in Section 3 are being addressed and, based on analysis, making recommendations for program modifications to be considered as part of Adaptive Management.</td>
<td>Q4/07- Identify process for analyzing data and evaluating effectiveness in meeting goals/objectives</td>
<td>WRLA 1 Staff Team</td>
</tr>
</tbody>
</table>