

**Preliminary Project Proposals for Watershed Plan Implementation**  
**Guidance for Watershed Planning Units**  
**June 8, 2010**

Dear Lead Agency Representatives of Watershed Planning Units:

The Department of Ecology is preparing its 2011-13 biennium (July 1, 2011 to June 30, 2013) Operating and Capital budget proposals. Our proposals are due to the Governor's Office of Financial Management (OFM) by September 1, 2010. We need your help to ensure our proposals are based on reliable information from you and so that we can effectively represent your interests in preparation for the coming 2011 Legislative session.

Thanks to the wellspring of support from several watershed planning units, lead agencies, county boards of commissioners and many others with sincere interests in implementing or developing watershed plans who contacted the Governor and Legislators during the 2010 Legislative Session with messages to retain our 2009-11 biennial budget watershed program appropriation.

Given this outcome, we are planning for at least a 'carry-forward level' request of about \$7.5 million (includes provisos) for the watershed grants portion of our 2011-13 Operating Budget request. This does not mean we'll automatically get that level of appropriation, but it is the base number that we plan to put in our General Fund-State (GF-S) budget request for the Governor's and OFM's consideration. And, we could still receive instructions later this summer from OFM to alter our overall GF-S budget request depending on a variety of state economic and revenue factors.

For our Capital Budget funding budget item titled *Watershed Plan Implementation and Flow Achievement*, we don't know what yet our request will be pending further direction from OFM. Our 2009-11 appropriation was only \$4 million dollars, compared with \$8.8 million dollars in 2007-09. The Capital Budget's development has much to do with the state's bonding authority, which in turn depends on the state of the state's overall economy. As OFM collects more data on this topic, we'll get more direction on the parameters for our Capital Budget proposals.

As in past years, Operating Budget funding is used for certain types of project implementation and management, administrative support and on-the-ground projects called for in watershed plans that don't directly address stream flow achievement or augmentation. Capital Budget funding is used for projects that will directly enhance stream flows, conserve water (including water banks or exchanges, or aquifer recharge), improve water diversions, remove fish barriers or includes other infrastructure related type projects that benefit people, farms and fish. We aren't sure now about how we'll fund water metering and stream gaging type projects, but if these projects are needed and in your plans, please let us know.

For both our Operating and Capital Budget requests, the size and scope of watershed projects identified through this process will help us focus on the dollars needed, regardless of funding solutions.

Using the guidance and the format on the following pages, please provide a brief yet detailed description of each proposal you want us to consider in the budget planning process. Don't worry about whether a project would be funded by either the Operating or Capital Budgets; we'll look at your proposals and if we have any questions we'll contact you.

Please note this is not a formal application for a grant funding request. All we want to know at this time is what you reasonably think have the capacity to do with qualifying grant funding to implement adopted watershed plans between July 1, 2011 and June 30, 2013. When we're ready to request and rank your project proposals for grant funding, we'll send you clear guidance and a final list of applicable project proposal ranking criteria.

**Guidelines:**

**1. All Preliminary Project Proposals must:**

- ◆ Support Implementation of the Watershed Planning Act (Chapter 90.82 RCW)
- ◆ Be based on county board of commissioners approved and/or adopted Watershed Plans
- ◆ Support improved local or regional water management goals and objectives that accomplish one or more of the following:
  - ✓ Enhance or increase the reliability of water supplies
  - ✓ Protect and enhance stream flows
  - ✓ Achieve water conservation or water use efficiency improvements
  - ✓ Advance integration of water quantity, water quality or salmon recovery efforts
  - ✓ Link watershed plan implementation to efforts, goals or concepts of Regional Salmon or Fish Recovery Organizations, the Upper or Lower Columbia River Water and Fish Enhancement Projects, Puget Sound clean-up initiatives, or similar activities and initiatives in Washington's coastal watersheds and communities.

**2. To keep our 2011-13 Operating and Capital Budget building and request process moving ahead please send us your Preliminary Project Proposals by July 16, 2010.**

**3. We will not rank your proposals after July 16. We are simply building a list of potential projects. However, to be competitive in the future, you can expect we'll give preference to proposals that:**

- ◆ Are identified in Detailed Implementation Plans and have broad local support and impact
- ◆ May be supported by other funds or partnerships (e.g. local, federal, private or in-kind match)
- ◆ Address multiple water resource management objectives
- ◆ Offer innovative and lasting water management solutions
- ◆ Have high potential to reap a positive return on the state's investment
- ◆ Will benefit the water supply and/or water quality needs of people, farms and fish
- ◆ Can show measurable near and long-term results

**Ecology's 2011-13 Biennial Budget Building Process and Timelines:**

- Jun 7, 2010: Watershed Planning Unit Lead Agencies receive Request Preliminary Project Proposals
- Jul 16: Preliminary Project Proposals due at Ecology
- Jul 19-23: Ecology reviews/sorts proposals, requests more info from watersheds if needed
- Jul 26-Aug 20: Organize projects into categories and conclude work on budget request development
- Sep 1: Deadline for Ecology submittal of 2011-13 Operating and Capital Budget requests to OFM

**Preliminary Project Proposals for Watershed Plan Implementation  
Proposals due July 16, 2010**

**Planning units may send in more than one preliminary project proposal.**

**If you propose two or more projects it will help us if you  
show us your first, second, third, etc. priorities.**

<b>Preliminary Project Proposal Name: WRIA 53 Phase 3 and 4 Watershed Planning</b>	
<b>Sponsor/Lead Agency Contact:</b> Project Manager Jim DeGraffenreid Jim DeGraffenreid Lincoln County 27234 SR. 25 N. Davenport, WA 99122 E-mail: jdegraff@co.lincoln.wa.us	<b>WRIA Name(s) and Number(s): Lower Lake Roosevelt Watershed – WRIA 53</b>
	<b>County(ies): Lincoln, Okanogan, Ferry, Grant</b>
<b>Phone:</b> (509) 725-7911 Fax: (509) 725-4467	<b>Optional: This is our _____ priority.</b> (1st, 2nd, 3rd, etc.)  Project priorities are listed below

*Note: The WRIA 53 Group plans to finish Phase 2 Level 2, start and finish Phase 3, and begin Phase 4 throughout the FY11-13 funding cycle. In addition, early action items and data collection will be conducted. Due to the progression of the Planning effort in this watershed, all items which the Planning Unit wishes to complete over the next two years are listed in this one proposed budget submittal.*

**Please note:** We currently expect a smaller than normal, and needed, Capital Budget appropriation (e.g. *Watershed Plan Implementation and Flow Achievement*) given the pace of economic recovery in our state. Therefore, our priorities may necessarily need to be focused solely on projects that directly help us meet short-term instream flow achievement priorities, such as new pipes and pumps, irrigation efficiency improvements, aquifer recharge projects, or development of water banks or exchanges. Consequently, we don't know at this time if we'll be able to fund new stream gaging projects proposals. However, if you have new stream gaging projects in mind please let us know using this document, so that we can use this kind of information in developing our future statewide stream gaging priorities and activities plan.

**Please check all that apply for your Preliminary Project Proposal:**

- Will be ready to proceed on/soon after July 1, 2011 and will be completed by June 30, 2013
- Supports an element from an approved watershed plan or a Detailed Implementation Plan
- (Or, if 'no' to above): Supports an immediate action item as provided for in RCW 90.82.110
- Supports one or more recommendations from other local, state or federal water related plans
- Improves the reliability of local water supplies
- Protects or improves instream flows
- Achieves water conservation or water use efficiency improvements
- Integrates actions with local, regional, state or federal water quality or fish recovery plans
- Is likely to garner financial support from local, state, federal or private partnerships (identify):

**When responding to Items 1 to 7 on the following pages, please be as brief and concise as you can be. Our goal is to develop an early and reliable list of Preliminary Project Proposals for our upcoming work with OFM and potentially key Legislative committees and their staff. We will ask for more detail from you when we request you to complete a formal grant application later in 2010. If your plans or proposals change between now and then, don't worry, there are no commitments on anyone's part being requested or made at this time.**

**1. Briefly describe the need, issue or problem your project proposal will address:**

The WRIA 53 Planning Unit initiated Phase 2 watershed planning in June 2008. In September 2009, the Phase 2 Level 1 review was completed, and the planning unit is collecting some Phase 2 Level 2 groundwater level data as recommended in the Level 1 review. The Planning Unit has developed the Phase 3 and Optional Water Storage Element grant applications and will be submitting them to Ecology in August, 2011. Phase 3 Planning is slated to begin in September-October 2010 and completed by October 2012. Initiation of Phase 4 Implementation is scheduled for October 2012. Phase 3 Planning will primarily focus on the following: developing local plans to sustain domestic, municipal, agricultural and commercial water supplies, enhance and maintain instream water resources, identify critical water resources, provide data and improve understanding of the surface and groundwater resources in the watershed, initiate monitoring for ongoing management of water resources, and collect and distribute information to local and state planners for land and water resource management. Local efforts will also be coordinated with the Columbia River Initiative in order to focus on water sustainability in the local and regional basalt aquifers which have been age dated to greater than 10,000 years old.

The issues, needs and problems were outlined in Section 7 of the Level 1 Technical Assessment as:

**7.3 STRATEGIES FOR INCREASING WATER SUPPLIES**

1. Collect essential data for understanding water resources in the watershed. Due to seasonal and annual variability in stream flows and groundwater tables, water availability for further appropriation is not certain. Existing data is inadequate to determine whether existing and future water supplies can continue to provide a sustainable water supply. Without adequate water supplies, WRIA 53 cannot continue on a path of economic viability and sustainability. Information on demand, supply, and water balance is not only absolutely essential for managing water in this watershed, but also for land use, economic development, and sustaining the existing core economy.
2. Develop water management plan
3. Develop strategies for increasing water supplies, such as large and small scale storage projects, on-site catchment systems, and groundwater recharge (including ASRs)
4. Conduct educational programs regarding existing water resources, water rights, water use efficiency, conservation, water quality, etc.
5. Implement projects to develop accurate, usable data and information (such as GIS datasets and hydrogeologic models)
6. Implement actions to improve water use efficiency

WRIA 53 will Identify and implement strategies to potentially protect surface water, local unconsolidated aquifers and/or protect the basalt aquifers, such as:.

1. Support activities to permit replacement and/or future groundwater wells that are in high density areas to deeper basalt interflows which are documented to be recharged from recent water, as determined from the age dating results throughout the watershed.
2. Support activities to case new wells and replacement wells across the Wanapum aquifer to avoid cross contamination and the potential of “dewatering” upper aquifers.
3. Support activities to abandon inactive wells. Inactive wells that are not constructed properly or that have lost the integrity of their seal may allow aquifer cross-contamination.
4. Establish flow gauging stations at selected streams and springs to better characterize water flowing into and out of the watershed
5. Use flow measurements to establish baseline conditions.
6. Conduct water quality measurements to better understand stream and spring health. Monitoring should be conducted at the locations where Ecology is conducting stream flow monitoring.
7. Develop a groundwater monitoring plan and strategy.
8. Establish some groundwater level monitoring areas having both high and low well density to better track pumping effects on the 3 aquifer systems and to better characterize potential aquifer recharge conditions.
9. Collect aquifer pumping test data, as it becomes available, to use to better characterize aquifer physical conditions for use in evaluating long term aquifer hydrologic trends.
10. Conduct a limited amount of groundwater geochemical sampling in order to better understand aquifer recharge conditions and evaluate surface water/groundwater continuity.
11. Conduct a more detailed GIS evaluation to inventory and map available data on ground and surface water resources and the relationship to current and future land use in WRIA 53. The goal of such an evaluation would be to collect information useful in identifying aquifer boundaries, recharge areas, high groundwater pumping areas, and potential sustainable aquifer pumping targets, and areas in which potential mining of groundwater is occurring.
12. Compile a GIS layer identifying where potential critical aquifer recharge areas are located.

For planning efforts, the WRIA should:

1. Implement the WRIA 53 Public Participation Plan.
2. Further evaluate the status of land management policies in the watershed.
3. Complete a CARA evaluation for the watershed to identify the susceptible aquifer recharge areas for unconfined systems in the aquifer.
4. Initiate an evaluation of domestic exempt wells to potentially develop a watershed policy of exempt wells, specifically in those areas in which water was documents as being greater than 10,000 years old in the GWMA study.
5. Petition Ecology for removal of the Hawk Creek adjudication from the open adjudication process.
6. Further define groundwater resources in WRIA 53 for the County to develop future code modifications and/or policy for minimum lot sizes and/or housing density.
7. Further discuss and/or evaluate the potential nitrate in groundwater.

In addition to the above outlined recommendations, the Planning Unit will submit the grant application for the optional Water Storage element and further evaluate the potential water storage options for increasing water supplies in the watershed. Integrating the planning effort with the Columbia River Water Management Program should also be conducted.

2. **Briefly describe how your project proposal will address the above need, issue or problem. Include how it will implement one or more strategies in your watershed plan. (Planning Units in Phase 3 with immediate actions from RCW 90.82.110 may also submit proposals):**

The WRIA 53 Planning Unit intends to continue Phase 2 watershed planning and develop its Phase 3 Watershed Plan in order to develop local planning and land use guidelines. Our Planning Unit consist primarily of County, City, Group A & B purveyors, and local residents who are focused on assuring there are sustainable water supplies in the watershed for all types of water users. Due to the limited data on aquifer sustainability, and the recent knowledge of dating the basalt aquifer waters at greater than 10,000 years old, the planning unit wishes to implement these proposed projects in order to assure the aquifer will not begin to decline.

In order protect the water resources in the watershed the Planning Unit has proposed to conduct the following activities through FY13.

- 1) Continue Phase 2 Aquifer Level Monitoring and GIS database development on Groundwater Wells;
- 2) Conduct the Water Storage Optional Element study Initiate and complete Phase 3 Watershed Plan Development;
- 3) Conduct studies to collect data needed for Plan development;
- 4) Prioritize and implement early action items;
- 5) Initiate Phase 4 Implementation.

Specific studies which the Planning Unit has identified are listed below in the order of **priority ranking**:

- 1) Develop Water Well Supply Inventory which will consist of GPS of wells throughout the County, identification of which aquifer the well is withdrawing from, and installing data loggers in some priority wells to monitor aquifer levels.
- 2) Spring /Seep identification and monitoring consisting of GPS location of seeps springs, identification of flows, water quality sampling, and age dating of some priority springs.
- 3) Stream Flow monitoring of Hawk and Welch Creek, consisting of installing continuous data loggers in streams to determine loosing and gaining reaches of creek, and determining where potential stream restorations and/or storage opportunities may exist.
- 4) Conduct Arsenic sampling on wells in northern part of watershed to potentially identify source of arsenic, and Conduct nitrate sampling in domestic wells to identify elevated areas of nitrate and BMP alternatives.
- 5) Complete hydrostratigraphic modeling in eastern extent of watershed to determine aquifer connection into WRIA 54 (and the West Plains area) and aquifer flow direction through the basement high areas.

**3. Briefly describe the benefits, results or expected outcomes of your proposal with respect to water resources for people, farms and fish. If you can provide any preliminary, estimated cost/benefit information we'd appreciate that level of detail as well:**

The benefit for the people in WRIA 53 is the development of a sound and defensible water resource plan to sustain surface and groundwater into the future. It appears that WRIA 53 aquifers are not connected to the Columbia River, and are at the headwaters of the Columbia Basin Regional Aquifer. The benefit will be to understand how the aquifers are being recharged, and develop appropriate local management alternatives to protect the sustainability of the aquifer.

**4. If not addressed above in #3, please briefly and clearly list your project's specific deliverables:**

- 1) Development of a Phase 3 Watershed Plan
- 2) Development of a GIS database that has the location and attributes of groundwater wells and springs throughout the watershed.

- 3) Development of a Water Storage report identifying for appropriate types of aquifer storage for prioritized areas.
  - 4) Groundwater model showing hydrologic conditions of groundwater between WRIA 53 and WRAs 43 and 54.
  - 5) Water Quality reports showing areas of elevated nitrate and arsenic (and/or other contaminants) and potential BMP options.
  - 6) Surface water/shallow groundwater hydrogeologic model.
  - 7) Stream flow monitoring database and report.
  - 8) Groundwater level database, maps, and report.
  - 9) Phase 4 Detailed Implementation Plan.
- 5. NEW FOR 2011-13: If you have one or more high priority projects that will likely require a substantial involvement of Ecology’s staff time and resources, BRIEFLY tell us here. In these cases, we may re-direct part of our Operating Budget that we’d normally provide in grants to Lead Agencies, to offset Ecology’s costs (the staff effort to implement the project).**

**For example, if one of your Planning Unit’s highest priority needs is something like a ‘Water Master for Water Diversion Monitoring’ or ‘Adopting an Instream Flow/Water Management Rule’ we may need to use some of our grant funds to pay for the internal resources to complete the project for you during the 2011-13 biennial period.**

The continued support of the Ecology watershed lead will be required. In addition, the planning unit requests additional Ecology support associated with planning and collection of surface water flow and groundwater level data, water quality, and water storage. This is not expected to be a significant workload.

- 6. NEW FOR 2011-13: If you are able to reasonably show, estimate or predict how your Preliminary Project Proposal will either sustain one or more existing jobs or create one or more new jobs in the local economies of your watershed please BRIEFLY tell us here.**

The watershed grants have sustained a portion of staff time (approximately 0.6 FTE) at the Lincoln County Planning Department ((Planning Director and GIS Planner). In addition, field studies such as the water level data collection projects and instream flow measurements are being conducted by the Lincoln County Conservation District. Watershed grant funding provides support for several field technicians and the District Manager. Grants for technical studies and planning also support local contractors and consultants.

- 7. Fiscal Detail (no detailed budget needed) – Please provide an estimate of LOCAL project costs for each fiscal year. If applicable per #6 above, estimate Ecology total staff time in months for each fiscal year.**

<b>Base Grant Phase 2</b>	<b>FY12 (Jul 2011-Jun 2012)</b>	<b>FY 13 (Jun 2012-Jul 2013)</b>
Estimated Local Project Cost	\$30,000	
Estimated ECY FTEs in months		

<b>Optional Water Storage Grant</b>	<b>FY12 (Jul 2011-Jun 2012)</b>	<b>FY 13 (Jun 2012-Jul 2013)</b>
Estimated Local Project Cost	\$100,000	
Estimated ECY FTEs in months		

<b>Base Grant Phase 3</b>	<b>FY12 (Jul 2011-Jun 2012)</b>	<b>FY 13 (Jun 2012-Jul 2013)</b>
Estimated Local Project Cost	\$150,000	\$100,000
Estimated ECY FTEs in months		

<b>Base Grant Phase 4</b>	<b>FY12 (Jul 2011-Jun 2012)</b>	<b>FY 13 (Jun 2012-Jul 2013)</b>
Estimated Local Project Cost		\$100,000
Estimated ECY FTEs in months		

<b>Implementation-Early Action</b>	<b>FY12 (Jul 2011-Jun 2012)</b>	<b>FY 13 (Jun 2012-Jul 2013)</b>
Estimated Local Project Cost	\$75,000	\$50,000
Estimated ECY FTEs in months		

<b>Implementation</b>	<b>FY12 (Jul 2011-Jun 2012)</b>	<b>FY 13 (Jun 2012-Jul 2013)</b>
Estimated Local Project Cost	\$40,000	\$40,000
Estimated ECY FTEs in months		

*Note: Implementation projects consist of continuing GW Level monitoring and Flow Monitoring*

*Please limit each preliminary project proposal description to no more than 4 pages. Send your proposals electronically to Bill Zachmann, Watershed Planning and Policy Lead, at [bzac461@ecy.wa.gov](mailto:bzac461@ecy.wa.gov). Your Watershed Lead must also be copied at the same time to keep them abreast of your ideas. For questions call (360) 407-6548.*

For Ecology Internal Office Use Only:

Project Proposal appears to fit Operational Budget Funding criteria: Y/N
Project Proposal appears to fit Capital Budget Funding criteria: Y/N
More information or clarification needed?: Y/N

### **WRIA 53 – LOWER LAKE ROOSEVELT FY11-13 GENERALIZED SCOPE OF WORK**

**Task 1: Well Supply Inventory**

- Subtask 1.1: Administrative Management
- Subtask 1.2: Public Outreach to land owners with wells
- Subtask 1.3: Identify the Wells within the Project Area Available for Data Collection.
- Subtask 1.4: Field Collection of GPS Measurements of Wells and Match to Ecology Well Logs
- Subtask 1.5: Identify Priority Wells and Install Data Loggers (Collect Groundwater Levels)
- Subtask 1.6: Develop GIS Database (GPS and Well Log info)
- Subtask 1.7: Prepare Draft and Final Report (Report and GIS Database)

**Task 2: Eastern WRIA Hydrogeologic Model**

- Subtask 2.1: Administrative Management
- Subtask 2.2: Identify Project Area
- Subtask 2.3: Integrate Task A Data into Hydrostratigraphic Model
- Subtask 2.4: Develop Hydrostratigraphic Flow Analysis

**Task 3: Stream Flow Monitoring**

Subtask 3.1: Administrative Management

Subtask 3.2: Public Outreach to land owners

Subtask 3.3: Research and recommend appropriate data logging equipment for monitoring stream flow and temperature;

Subtask 3.4: Provide recommendations regarding final monitoring/transect locations;

Subtask 3.5: Surveying transects across selected stream monitoring locations;

Subtask 3.6: Install staff gages and data logging equipment at each selected stream monitoring locations;

Subtask 3.7: Collect stream measurements on a monthly basis for two years.

Subtask 3.8: Collect insitu water quality measurements (pH, temperature, dissolved oxygen, turbidity and conductivity).

Subtask 3.9: Create a database of flow data.

Subtask 3.10: Develop a rating curve for each stream monitoring location to the extent allowed by the collected data.

Subtask 3.11: Prepare a report summarizing the data collected, interpretations of the physical characteristics of the streams, influences of groundwater, and flow trends of during seasonal water uses.

**Task 4: Spring/Seep Identification and Flow**

Subtask 4.1: Administrative Management

Subtask 4.2: Public Outreach to land owners with seeps/springs on property

Subtask 4.3: Locate Springs in Priority Areas for Identifying Groundwater Discharge Area within WRIA 53

Subtask 4.4: Measure flows and water quality

Subtask 4.5: Select priority springs for Age Dating

Subtask 4.6: Develop GIS database

**Task 5: Develop Analytical Model of Geologic/Hydrologic Connection**

Subtask 5.1: Administrative Management

Subtask 5.2: Public Outreach and Coordination with WRIA 54 and WRIA 43

Subtask 5.3: Enter available data collected in this planning effort into GWMA model

Subtask 5.4: Identify areas of hydraulic connection through eastern extent of WRIA 53

Subtask 5.5: Select priority areas for Age Dating of groundwater

Subtask 5.6: Develop model of flow directions in aquifers through eastern extent of watershed, especially in areas which flow to/from the West Plains area.

Subtask 5.7: Develop hydrostratigraphic model

**Task 6: Nitrate/Arsenic Water Quality Sampling**

Subtask 6.1: Administrative Management

Subtask 6.2: Public Outreach to land owners and water purveyors to allow sampling of wells.

Subtask 6.3: Develop QAPP and Conduct Analytical testing of groundwater

Subtask 6.4: Identify areas of elevated arsenic and nitrate

Subtask 6.5: Identify source areas of nitrate and arsenic

Subtask 6.6: Develop BMP's for areas of elevated arsenic and nitrate

Subtask 6.7: Project Report

**Task 7: Conduct Water Storage Optional Element Assessment**

Subtask 7.1: Project Management and Administrative Support

Subtask 7.2: Conduct Water Storage Project Review

7.2.1 Develop a list of known water storage alternatives for the environment of the watershed (both surface and groundwater).

- 7.2.2 Research and compile previous water storage alternatives for watershed
  - Determine if any existing reports and proposals on Water Storage are present in watershed
  - Prioritize existing proposed projects, if present

Subtask 7.3: Conduct Water Storage Screening Review

- 7.3.1 Compile GIS database
- 7.3.2 Assess low flow streams that could benefit from water storage projects.
- 7.3.3 Assess out-of-stream needs that could benefit from water storage projects
- 7.3.4 Categorize potential small and large scale water storage alternative actions that may be feasible in the watershed (surface and groundwater).

Subtask 7.4: Compile and submit report to Planning Unit and Ecology

Subtask 7.5: Coordinate Watershed Planning activities with the Columbia River Initiative.

### **Task 8: Develop the WRIA 53 Watershed Plan**

Subtask 8.1: Promote Public Participation and Involvement

- a. Develop and maintain a database of contact information for water user interests in WRIA 53
- b. Hold planning unit meetings in various locations throughout the watershed
- c. Distribute planning unit meeting minutes to water user interests in WRIA 53 through mail or email
- d. Announce when deliverables are available to water user interests in WRIA 53
- e. Brief each county's board of commissioners on the draft watershed plan
- f. Present primary conclusions on planning unit approved watershed plan at each county legislative authority's public hearing.
- g. Conduct at least two public meetings to receive comments at two different locations on the draft watershed plan
- h. Conduct a presentation at each initiating governments open public meeting to achieve feedback and comments on the Plan.

Subtask 8.2: Develop planning parameters

- a. Confirm the scope of the plan
  - i. Spatial and temporal aspect
- b. Finalize planning unit's mission, goals, and objectives
- c. Identify previous and on-going natural resource based programs and plans

Subtask 8.3: Identify, characterize, and prioritize the issues

- a. Identify comprehensive list of issues from the planning unit and the Phase II technical assessment
- b. Facilitate planning unit prioritization and selection of key issues
- c. Compare selected key issues with the requirements of Chapter 90.82.070(2) RCW
  - i. Add required issues as needed
- d. Identify potential cause(s) of problems
- e. Determine scale and geographic extent
- f. Identify entities involved or affected
- g. Determine short-term/long-term aspects
- h. Determine trends affecting problems
- i. Determine key upcoming decisions or expected actions

Subtask 8.4: Identify, evaluate, and recommend solutions

- a. Identify alternative solutions
  - i. Scale of solutions to be considered
  - ii. Short-term or long-term
- b. Evaluate identified alternative solutions against limitations in Chapter 90.82.120 RCW
- c. Establish criteria to evaluate the feasibility of solutions including the following:
  - i. Legal authority

- ii. Approvals/permits
- iii. Cost/funding sources
- iv. Administration/staffing
- v. Integration with related programs
- vi. Acceptability to participants and key outside players
- d. Establish criteria to evaluate the effectiveness of solutions including the following:
  - i. Overall effectiveness in solving problem(s)
  - ii. Cost-effectiveness
  - iii. Flexibility over time
  - iv. Potential side-effects
  - v. Effects on different groups and economic activities
  - vi. Effectiveness in protecting resources
- e. Select solutions to identified issues
- f. Evaluate selected solutions to ensure compliance with the requirements of 90.82.070(2)
- g. Identify selected solutions as a recommendation or obligation
- h. Confirm agreement with entity being obligated, if needed

Subtask 8.5: Design an implementation program

- a. Designate implementing organizations
- b. Identify needed rules or ordinances
- c. Identify and develop, if time allows, formal agreements
- d. Identify existing/needed funding programs
- e. Determine schedule and priority for activities to be implemented
  - i. Identify and attain planning unit approval of Early Action Items
- f. Describe integration with related existing local, state, and federal programs
- g. Determine when plan needs to be revised

Subtask 8.6: Prepare the WRIA 53 Watershed Plan

- a. Develop an outline for planning unit approval
- b. Present an approach to SEPA for planning unit approval
- c. Prepare any SEPA related documentation needed by county legislative authorities
- d. Prepare a draft watershed plan for comment
  - i. Include requirements of Chapter 90.82.070(2), 90.82.090, and 90.82.100 RCW
  - ii. Include SEPA compliance
  - iii. Include Early Action Items
- e. Prepare a response to comments approved by the planning unit
- f. Prepare a final watershed plan that incorporates accepted comments for planning unit approval
- g. Submit planning unit approved watershed plan to applicable county legislative authorities
- h. Prepare revisions to planning unit approved plan, if needed.

**Task 9: Develop Detailed Implementation Plan (DIP)**

Subtask 9.1: Project Management and Administrative Support

Subtask 9.2: Facilitation of Phase 4 Grant and Public Outreach

Subtask 9.3: Develop the WRIA 43 Implementation Plan

- 9.3.1 Public Involvement:
- 9.3.2 Develop Framework, Strategies and Milestones for Implementation Plan
- 9.3.3 Prepare Draft Implementation Plan
- 9.3.4 Prepare Final Implementation Plan

Subtask 9.4: Prepare Draft Memorandum of Agreements/Understanding.