

Draft Agenda

**Lake Ozette Sockeye Steering Committee Meeting**

Tuesday August 15th, 2006

Sekiu Community Hall

10:00 a.m. – 2:00 p.m.

- 10:00 a.m.            Introductions and Review Agenda  
Updates and Announcements
- 10:10 a.m.            Update on Status of Puget Sound TRT's draft Lake Ozette Sockeye  
Viability Criteria and Development of a Life Cycle Model  
-Discussion of next steps
- 10:40 a.m.            Review Comments on Draft Lake Ozette Sockeye Broad Sense  
Recovery Goals  
(Rosemary Furfey, NOAA)  
-Discussion of proposed edits
- 11:10 a.m.            Review Comments on Draft Lake Ozette Sockeye Recovery Goals  
(Mike Haggerty, contractor)  
-Discussion
- 11:40 a.m.            Update on Status of Hypotheses for Limiting Factors  
(Rosemary Furfey and Mike Haggerty, contractor)  
-Discussion of comments
- 12 noon                Lunch Break
- 12:15 p.m.            Continue Discussion on Status of Hypotheses for Limiting Factors  
as needed (Rosemary Furfey and Mike Haggerty, contractor)  
-Discussion of comments continued
- 12:30 p.m.            Review Proposal for Developing Recovery Actions  
(Rosemary Furfey, NOAA Fisheries)
- 1:30 p.m.             Identify recovery planning tasks for next meetings  
Review follow-up actions

**Lake Ozette Sockeye Steering Committee Meeting**  
**Facilitator's Meeting Summary**  
Sekiu Community Hall  
August 15, 2006  
10:00 AM – 2:00 PM

**Participants for the Meeting**

See attached list of meeting participants.

**Summary of Recovery Planning Tasks/Actions**

- Notify Steering Committee members of TRT meetings related to Lake Ozette sockeye
- Provide more formal presentation of Life Cycle Model at September Steering Committee meeting (Mike Haggerty)
- Provide new language for Broad Sense Recovery Goals and Objectives related to “ecosystem” and “aquatic ecosystem” and Objective #6
- NOAA will continue fine-tuning the recovery goals
- For limiting factors, criteria and definition clarifications are needed and should include consideration of both the magnitude and persistence of the limiting factor. It was also agreed that Mike Haggerty would continue his work and fill in the rationales.
- Steering Committee members should begin listing potential recommended actions
- Pat Crain will report out on how the Park Plan affects the Sockeye Recovery Plan
- Pat Crain will see if the Steering Committee can communicate with the Park, but individuals should follow up on Olympic National Park Management Plan.
- Pat Crain will send the 2004 Technical Paper about the effect of anadromous fish on freshwater habitat via email

**Introductions and Review of Agenda**

Rosemary introduced the new facilitator for the Steering Committee, Bob Wheeler of Triangle Associates, Inc. Bob introduced himself and provided background on Triangle and himself.

Meeting participants then introduced themselves and reviewed the following agenda:

- Update on Status of Puget Sound TRT's Draft Lake Ozette Sockeye Viability Criteria and Development of a Life Cycle Model
- Review Comments on Draft Lake Ozette Sockeye Broad Sense Recovery Goals
- Review Comments on Draft Lake Ozette Sockeye Recovery Goals
- Update on Status of Hypotheses for Limiting Factors
- Review Proposal for Developing Recovery Actions
- Identify Recovery Planning Tasks for Next Meetings

**Updates and Announcements**

1. Pat Crain of the National Park Service reported on a snorkel survey he and others conducted on the entire Ozette River. The dominate species was northern pike/minnows from Lake Ozette downstream a few miles. They did not see many

salmon species but did see a few adult sockeye and some cutthroat and rainbow trout. It was noted that year-round catches are allowed for northern pike.

2. Pat Crain noted that the National Park Service General Management Plan Open House meetings will include a PowerPoint presentation with highlights of the Plan, along with posters of the alternatives. Staff experts will be available and both written and oral comments will be taken. Meetings take place over the next several weeks in Forks, Miranda Peak, Seiku, Port Angeles, Sequim, Silverdale, Shelton and at the Seattle REI. Most are scheduled from 5:00 -8:00 PM. There is also a second meeting scheduled in Port Angeles.

Harry Bell, Green Crow, asked a question about how the NPS Management Plan relates to the Lake Ozette Sockeye Recovery Plan. The response was that the hope is that the Management Plan will be flexible enough to include all of the actions that might be included in the Recovery Plan. The committee agreed that the Management Plan will be critical for a successful Recovery Plan and that members should be encouraged to individually attend hearings and make comments. Pat will check to see if the Steering Committee can respond as a group.

3. Caroline Peterschmidt, Makah Tribe, reported that the weir at Ozette is coming out today (August 15<sup>th</sup>) with the smolt trap.

### **Update on Status of Puget Sound TRT's Draft Lake Ozette Sockeye Viability Criteria and Development of a Life Cycle Model**

The Puget Sound Technical Recovery Team (TRT) met with the Steering Committee last July and has been working on revising the viability criteria. They will be at the September Steering Committee meeting to report out on their efforts and progress. The TRT is meeting monthly and working on other efforts in the Puget Sound area. Some Steering Committee members wanted to be made aware of when the TRT will discuss Lake Ozette issues.

Mike Haggerty, contractor, reviewed the goals and outputs of a Life Cycle Model he is developing for the Recovery Plan and he then presented the Life Cycle Model diagrams (*Beach Spawning Sockeye Life History and Limiting Factors; Tributary Spawning Sockeye Life History and Limiting Factors*). He introduced information about how the model will be used by the Puget Sound Technical Recovery Team (TRT). He described each box in the model schematic and identified each limiting factor at each life stage. Mike will present a power point of this at the September Steering Committee meeting.

In discussion the question arose as to how the information generated from the Life Cycle Model will be used. The following are two ways in which that information will be used: (1) assist in the development of the viability goals and (2) provide a means of asking the what-if questions (e.g., how it is under different scenarios).

A question arose as to how the model takes into consideration the ocean conditions. It was explained that random ocean conditions and random ocean survival values are used.

### **Review Comments on Draft Lake Ozette Sockeye Broad Sense Recovery Goals**

A review of the broad sense recovery goals (*Lake Ozette Sockeye Recovery Plan Broad Sense Recovery Goals and Objectives*, Edited August 11, 2006) brought forward suggested changes in wording and discussion of the written comments provided to this draft prior to the meeting.

Suggested changes from the discussion include:

- 1<sup>st</sup> paragraph, Broad-sense Recovery Goal (page 1): Change to “Protection and restoration *actions implemented in the Ozette watershed to recover sockeye...*”
- 1<sup>st</sup> paragraph, Broad-sense Recovery Goal: Several members thought that “aquatic” either should be dropped altogether or possibly defined and clarified. Some members felt that it was important to include “aquatic” ahead of “ecosystems”. One statement was that the focus is on fish, not the whole ecosystem.

Some of the discussion related to defining “aquatic” was intended to indicate what parts of the ecosystem affect the aquatic system and sockeye salmon while not being “all inclusive” of parts of the ecosystem that will not impact salmon. One suggestion was to change this one sentence to, “*Protection and restoration actions implemented in the Lake Ozette watershed to recover sockeye salmon have sustained processes necessary to maintain sockeye....*”

- 3<sup>rd</sup> paragraph, Broad-sense Recovery Goal (page 1, 1<sup>st</sup> sentence): Reference was made to paragraph #4, with a suggestion to delete the word “ecosystem”. It was mentioned that the original group agreement was that the group is working on an “ecosystem approach”.

It was agreed that NOAA would bring back new language for this section related to “ecosystem.”

It was noted that Ed Bowen’s ideas for a vision statement are included in the document.

Objective #6 needs clarification (*6. Out-of-basin limiting factors are addressed equitably and in concert with in-basin limiting factors*). There was discussion about the intent of the language for this objective:

- Recognize all the factors and not have any one sector carry a larger burden than the others
- Ensure that everybody has to pay their fair share
- Recognize that we are paying more here within the basin and that there is an economic impact because of that.

NOAA will clarify the language of this section.

### **Review Comments on Draft Lake Ozette Sockeye Recovery Goals**

The Draft Lake Ozette Sockeye Recovery Goals text was previously distributed by Mike Haggerty to Lake Ozette Sockeye co-managers on behalf of NOAA Fisheries. The purpose was to begin discussion of recovery goals for the Sockeye Recovery Plan. The text distributed had been updated based on edits and comments received up through July 6, 2006. No additional comments were received since that date.

During the discussion on recovery goals, a question was raised about the definition of “co-managers”. It was explained that the Washington Department of Fish and Wildlife (WDFW), Tribes, and National Park Service are co-managers; and that the NPS manages all species.

Pat Crain explained the unique role of the National Park Service as the manager. This watershed has a large National Park, and the NPS is the manager without a requirement for consultation with the state, though the Park does work with the State. In further describing the NPS management role he indicated: 1) The NPS has exclusive jurisdiction over Olympic National Park (over all park resources), and 2) Treaty rights supercede Park rights.

NOAA will continue its efforts on developing the recovery goals.

#### **Update on Status of Hypotheses for Limiting Factors**

During the discussion, several questions and issues were raised:

- How will we use the distinctions between limiting factors (“key” versus “contributing” limiting factors)?
- Prioritization of actions should include what we can actually do something about.
- Clarification is needed on how to delineate between the three categories of limiting factors:
  - “key” [suggested clarification is that the limiting factors are – *persistent and have a potential of high impact*]
  - “contributing” [suggested clarification is that the limiting factors are - *intermittent, less frequent, infrequent; do not affect the whole population, and have a moderate impact*]
  - “not likely” [suggested clarification is that the limiting factors – *have a low probability and when they do occur, only affect some of the population*]

Criteria should be used or developed to decide which category to select.

- Distinguish between activities that are occurring now or occurred in the past.
- The ratings are from the Limiting Factors diagram (*Limiting Factors Affecting All Population Segments; 7/27/2006*) in the limiting factors report (*LF Hypotheses RP Ver 1\_3\_djm review*)
- There is support for the clarification on how to delineate among three categories of limiting factors with the idea that others need to understand how the decisions were derived.
- A magnitude of the effect needs to be included, and it does not have to be long-lasting

- Mike Haggerty mentioned that he is using the diagram from the Limiting Factors Analysis report and will continue to expand the report.
- It was noted that limiting factors can also be cumulative.
- As Mike's report is updated, it was recommended that more attention be given to the rationale.
- It was suggested that Mike fill in the list of hypotheses. It was also suggested that descriptions are needed in the rationale to show how the distinctions/ratings were derived.

For future direction, the group agreed to include issues of magnitude and persistence. It was also agreed that Mike would continue his work and fill in the rationales.

### **Review Proposal for Developing Recovery Actions**

The group discussed the framework for developing recommended actions. The two documents referred to related to action development were (1) Mark Plummer's Recovery action cost estimation – further guidance, and (2) Programmatic and Site Specific Actions for Recovery of Lake Ozette Sockeye Salmon.

Specific discussion points were:

Actions are often misstated as Goals. We need to develop actions that can have scope and scale to them so Mark Plummer can provide the costs and schedule. Programmatic and specific actions need to be established so that Mark can help develop the most realistic process that can be implemented. The key idea is that the Steering Committee needs to be actively engaged in the process.

It was mentioned that the information for developing actions (e.g., costs, data) will be best if it comes from the Steering Committee members. There are general numbers that can be used, but the data from the Steering Committee is more specific and considers other factors, such as costs far out on the North Olympic Peninsula.

It was suggested that the Lake Ozette Recovery Plan should learn from other Recovery Planning efforts. For instance, some plans have not been specific enough so that actions have been too general. For Lake Ozette, the Steering Committee desires the recommended actions to be as specific as possible so that implementation can occur readily.

A process is needed to develop the Actions – who, what, how, when, where. A structure is needed to identify Actions:

- Strategy for actions
- Identify and prioritize recovery actions
- Prioritization framework

Types of Actions:

- Programmatic – broad table X on page 3
- Site specific

It was mentioned that Mark Plummer has developed some categorization of actions which can be seen in his document.

During further discussion, the following questions were raised:

- Are we developing opportunity costs or do we intend to develop them? In response it was noted that some recovery plans are discussing recovery costs and discussions of other economic considerations such as:
  - Opportunity and lost opportunity costs – An example was given of creating a wetland
  - Costs and Benefits

The Steering Committee does not want to preclude discussion of other economic considerations.

- Will RMAP costs be included? A statement was made that there is a RMAP cost and for forest practices so those should be included in the cost evaluation for those costs relevant to sockeye recovery

The Steering Committee felt the action development framework was an acceptable way to proceed. Further discussion led to the following Steering Committee desires:

- Invite Mark Plummer to a Steering Committee meeting to help the committee to better understand his points and desires for what type of information is needed.
- Clarify the role between Table X and Table Y.
- Distinguish costs from funding sources
- Factor in costs for the west end, which tend to be greater than areas nearer higher population centers
- Determine funding potentials – that might help determine what we recommend
- Consider pilot projects, for example: a specific road repair site that could reduce sediment loading into a creek.
- All recommended actions should specifically address sockeye recovery
- It was noted that there was a NEPA coarse economic analysis prepared for the forest and fish agreement (re: HCP EIS). The desire is to keep the Recovery Plan at the 30K foot level (not below the 10K foot level)

The Steering Committee was encouraged to begin thinking about possible actions for future discussions.

### **Next Meeting Dates**

The following Steering Committee meeting dates were identified:

- Tuesday, September 12, 2006
- Tuesday, October 17, 2006

Lake Ozette Steering Committee Meeting  
 List of Meeting Participants  
 August 15, 2006

 = in attendance

SC *	Name	Organization	Phone Number	Email Address	
	Ann Shaffer	WA DFW	360.457.2634	<a href="mailto:shaffjas@dfw.wa.gov">shaffjas@dfw.wa.gov</a>	
	Caroline Peterschmidt	Makah Tribe	360-645-3175	<a href="mailto:cpeterschmidt@centurytel.net">cpeterschmidt@centurytel.net</a>	
	Cathy Lear	Clallam County	360.417.2361	<a href="mailto:clear@co.clallam.wa.us">clear@co.clallam.wa.us</a>	
	Cheryl Bauman	NOPL	360.417.2326	<a href="mailto:cbaumann@co.clallam.wa.us">cbaumann@co.clallam.wa.us</a>	
	Coleman Byrnes	Citizen and Property Owner	360-928-1032	<a href="mailto:swampdog@olympen.com">swampdog@olympen.com</a>	
	David Low	WA DFW	360.249.1216	<a href="mailto:lowdl@dfw.wa.gov">lowdl@dfw.wa.gov</a>	
	Derek Poon	EPA	206-553-4497	<a href="mailto:Poon.derek@epa.gov">Poon.derek@epa.gov</a>	
	Don Hamerquist	Citizen and Property Owner	360-963-2413	<a href="mailto:janeen@olympen.com">janeen@olympen.com</a>	
	Doug Martin	Consultant		<a href="mailto:doug@martinenv.com">doug@martinenv.com</a>	
	Ed Bowen	Ozette Landowner	360-452-8008	<a href="mailto:rockypt@olympen.com">rockypt@olympen.com</a>	
	Gwen Bridge	Makah Tribe	360-645-3173	<a href="mailto:gbridge@centurytel.net">gbridge@centurytel.net</a>	Has left Tribe
	Harry Bell	Green Crow	360-452-3325	<a href="mailto:harry@greencrow.com">harry@greencrow.com</a>	
	Janeen Porter	Citizen and Property Owner	360-963-2413	<a href="mailto:janeen@olympen.com">janeen@olympen.com</a>	
	Jeremy Gilman	Makah Tribe	360-645-3155	<a href="mailto:jeremygilman@olympen.com">jeremygilman@olympen.com</a>	
	Jim Rochelle	Rochelle Env. Consulting	360-491-3961	<a href="mailto:rochellej@olywa.net">rochellej@olywa.net</a>	
	Jim Springer	DNR	360-374-2818	<a href="mailto:James.springer@wdnr.gov">James.springer@wdnr.gov</a>	
	Joseph Murray	Merrill and Ring	360-963-2378	<a href="mailto:pysht@olympen.com">pysht@olympen.com</a>	

SC *	Name	Organization	Phone Number	Email Address	<input checked="" type="checkbox"/>
	Kris Northcut	Quileute Tribe		<a href="mailto:knqnr@centurytel.net">knqnr@centurytel.net</a>	
	Matt Longenbaugh	NOAA Fisheries	360-753-7761	<a href="mailto:Matthew.longenbaugh@noaa.gov">Matthew.longenbaugh@noaa.gov</a>	<input checked="" type="checkbox"/>
	Mike Haggerty	Contractor	360-928-0124	<a href="mailto:mhaggerty@olympen.com">mhaggerty@olympen.com</a>	<input checked="" type="checkbox"/>
	Norma Jean Sands	NOAA, TRT	206-860-5607	<a href="mailto:Norma.sands@noaa.gov">Norma.sands@noaa.gov</a>	
	Pat Crain	NPS	360-565-3075	<a href="mailto:Patrick_Crain@nps.gov">Patrick_Crain@nps.gov</a>	<input checked="" type="checkbox"/>
	Phil Miller	GSRO	360-902-2219	<a href="mailto:Phil.miller@esa.us.gov">Phil.miller@esa.us.gov</a>	<input checked="" type="checkbox"/>
	Rob Snyder	Lost Resort	360.963.2899	<a href="mailto:lostresort@hotmail.com">lostresort@hotmail.com</a>	
	Rosemary Furfey	NOAA Fisheries	503-231-2149	<a href="mailto:Rosemary.Furfey@noaa.gov">Rosemary.Furfey@noaa.gov</a>	<input checked="" type="checkbox"/>
	Seth Barnes	DNR	360-902-1396	<a href="mailto:Seth.barnes@wadnr.gov">Seth.barnes@wadnr.gov</a>	<input checked="" type="checkbox"/>
	Tim Tynan	NOAA Fisheries	360-753-9579	<a href="mailto:Tim.Tynan@noaa.gov">Tim.Tynan@noaa.gov</a>	<input checked="" type="checkbox"/>
	Bob Wheeler	Facilitator Triangle Associates	206-583-0655	<a href="mailto:rwheeler@triangleassociates.com">rwheeler@triangleassociates.com</a>	<input checked="" type="checkbox"/>

Draft Agenda  
**Lake Ozette Sockeye Steering Committee Meeting**  
Tuesday September 12th, 2006  
Seki Community Hall  
10:00 a.m. – 2:00 p.m.

- 10:00 a.m.           **Introductions and Review Agenda**  
Updates and Announcements
- 10:15 a.m.           **Review and Acceptance of August 15, 2006 Meeting Notes and  
Action Items from Meeting**
- 10:20 a.m.           **Puget Sound Technical Recovery Team - Draft Lake Ozette Sockeye  
Viability Criteria and Life Cycle Model**  
(TRT Representative and Mike Haggerty, contractor)
  - Update from TRT on the Viability Criteria
  - Life Cycle Model
    - How it will be used
    - Assumptions
    - TRT tie in
    - Next Steps
- 10:50 a.m.           **Steering Committee Opportunity Cost Questions for Mark Plummer**  
(Rosemary Furfey, NOAA)
  - Specific types of information needed
  - Opportunity costs
  - Major Land Owners in watershed providing cost information,  
like RMAP

-Steering Committee Questions and Discussion, Comments to NOAA,  
and Next Steps (Mark Plummer plans to attend the October 17 Steering  
Committee Meeting)
- 11:15 a.m.           **Follow up - Broad Sense Recovery - New language ideas**  
(Rosemary Furfey, NOAA and Mike Haggerty, contractor)
- 11:30 a.m.           **Update of Hypotheses on Limiting Factors**  
(Mike Haggerty, contractor)
  - Presentation of next version (Combined life stages and limiting factors)
  - Steering Committee questions and comments
  - Next Steps and schedule
- 12:15 p.m.           **Lunch Break**
- 12:30 p.m.           **Draft Steering Committee Purpose, Decision-Making, and  
Groundrules**  
(Bob Wheeler, Facilitator)
  - Steering Committee consideration of purpose and, decision-making, and  
groundrules

- 12:45 p.m.                    **Brainstorm Existing Recovery Strategies – Existing plans review –**  
Hatchery Plans, Forest and Fish, HCPs – State and Private Lands,  
County Road Plan, Critical Areas Codes, ONP Management Plan,  
Noxious Weed Programs, etc.  
(RF, MH)  
-Section of Plan  
-List of what should be included  
-SC help in developing these  
-Next Steps and Schedule
- 1:00 p.m.                    **Steering Committee Brainstorming on Recovery Actions**  
(Rosemary Furfey, NOAA Fisheries and Bob Wheeler, Facilitator)  
-Introduction  
-Potential Categories – Steering Committee Brainstorming  
-Programmatic and Site Specific Actions-Steering Committee  
Brainstorming  
Next Steps and Schedule – Steering Committee Assignments
- 1:55 p.m.                    **Next Steps and Meetings**
  - October 17<sup>th</sup>
  - November 14<sup>th</sup>
  - December 12<sup>th</sup>
- 2:00 p.m.                    **Adjourn**

**Attachments:**

- Draft August 15, 2006 Meeting Notes
- Draft Steering Committee Purpose, Decision-Making, and Groundrules
- Draft Broad Sense Recovery Goals and Objectives (revised; edited September 6, 2006)
- Draft Hypotheses for Limiting Factors will be sent to the Steering Committee on Friday, September 8, 2006 via separate email.

**Lake Ozette Sockeye Steering Committee Meeting  
Facilitator's Meeting Summary**

Sekiu Community Hall  
September 12, 2006  
10:00 AM – 2:00 PM

**Participants for the Meeting**

See attached list of meeting participants.

**Summary of Recovery Planning Tasks/Actions**

- Individuals should comment on the draft Olympic National Park Management Plan.
- The next Puget Sound Technical Recovery Team (PSTRT) meeting plans to discuss Lake Ozette viability criteria – Steering Committee members who want to track this should consider attending.
- Steering Committee members' comments on Draft #4, Hypotheses on Limiting Factors (LOS RP SEC 4 ver2\_1), are due to Mike Haggerty, Rosemary, and Triangle by October 2nd;
- Mike Haggerty will prepare a draft document that compiles and addresses the comments on limiting factors for distribution for the October 17 Steering Committee meeting.
- Steering Committee questions about costs and economic analysis outlined at the September 12 meeting will be forwarded to Mark Plummer for his October 17 Steering Committee presentation.
- Actions:
  - Steering Committee members will come prepared to discuss Processes, Strategies, Action Categories, and Actions at the October 17 meeting. NOAA Fisheries will prepare a template document that includes a few start or example ideas assist the Steering Committee in generating ideas for input.
  - DNR 2005 color ortho-photos for the Lake Ozette watershed (County) will be developed.
  - Triangle will update the Steering Committee attendance chart.
  - Rosemary Furfey will confirm meeting room reservations in Port Angeles at Olympic National Park (ONP) for the November and December meetings.
  - A brief explanation about the goal year 2050 will be given at the October 17 meeting.

**Updates and Announcements**

- Pat Crain, National Park Service (NPS), announced that the due date for comments on the *Olympic National Park Draft General Management Plan and EIS* has been extended through September 30, 2006. It was noted that if Steering Committee members provide comments on the NPS Draft Plan, it would be helpful if comments are in context of the recovery plan and actions. Individuals should provide comments through the public process.

**Review and Acceptance of August 15, 2006 Meeting Notes and Action Items from Meeting**  
The August 15, 2006 meeting notes were accepted as written.**Puget Sound Technical Recovery Team (PSTRT) – Draft Lake Ozette Sockeye Viability Criteria and Life Cycle Model**

The PSTRT update in the Viability Criteria was presented by Norma Jean Sands, PSTRT representative. The next PSTRT meeting is scheduled September 21 and will include discussion of Lake Ozette and viability criteria. New data will be discussed at this meeting. It was noted that historic data, such as Quinault Tribal data, is not being used. The Steering Committee discussed that there are 3 “legs” to the technical components of the recovery plan – Mike Haggerty’s model, the Quinault data, and capacity. With regard to other data sources, it was noted that the time series for those might not be long enough.

Mike Haggerty, contractor, gave a PowerPoint presentation on the basics of the Life Cycle Model – how it will be used, the assumptions, and the tie-in with the PSTRT as requested at the August meeting. Steering Committee members were reminded that the Life Cycle Model can serve two purposes, i.e., (1) to help establish viability goals and (2) to pose possible “what ifs.”

At last month’s meeting, a question arose as to how the model takes into consideration the ocean conditions. In discussion about ocean mortality rates, Mr. Haggerty noted that the marine environment is now a “contributing” limiting factor rather than a “key” limiting factor. Ocean survival may always be a high mortality factor, as has historically been the case. Phil Miller, Governor’s Salmon Recovery Office, noted that even a healthy stock will have high ocean mortality, and he suggested that the focus be on the actions and factors that cause the species to be threatened and for which actions can be taken. Another area where little is likely to be done relates to climate change issues.

During discussion about the Life Cycle Model, it was noted that food into the lake is not considered a limiting factor. It was confirmed that Lake Ozette is holding constant for both beach and tributary populations.

Mike emphasized that the goal is to test the sensitivity of the model to varying egg survival options. He noted that the model has different scenarios and six options. He presented information about each of the graphs and clarified that he varied the egg to fry survival based on the range contained in the literature.

Mike noted that based on the information presented, the question is whether or not the model is providing expected results. He noted that the model is sensitive to the aspect of egg to fry survival and noted that it is difficult for the model to distinguish between the two with certainty. In answer to a question about other life stages, Mike explained that he has tested other life stages, as well, and noted that he has done some work on marine survival.

Don Hamerquist noted that the population is sensitive to the egg to fry survival and that the model is sensitive to variability in survival. Survival at low density, therefore, is a critical factor.

Mike summarized the take home messages related to the Life Cycle Model – those being:

1. Model – Sensitivity testing is necessary
2. Results – The Model is really sensitive for egg to egg survival and that is very difficult to have much certainty in extinction probability

The Steering Committee asked about what the TRT will do with the Model. The TRT is looking at the Model now to evaluate how it can be used in their determination of viability criteria. The Steering Committee does believe that the Life Cycle Model is a key tool for the viability criteria.

### **Steering Committee Opportunity Cost Questions for Mark Plummer**

Rosemary Furfey, NOAA Fisheries Project Manager, started this session by indicating that although Mark Plummer was not able to attend this meeting, she had talked with him about the comments the Steering Committee had from their August meeting. Mark is planning on attending the October 17 Steering Committee meeting.

Rosemary talked to Mark about including opportunity costs in his cost evaluation of actions. Mark indicated that he had not seen that done on other Recovery Planning efforts and that most recommended actions are not at that level of specificity. Most plan actions are more at a 30,000 foot level, and opportunity costs are generally incorporated into base costs, especially for regulatory actions. Rosemary gave an example of the Clean Water Act (CWA) program when an entity is required to do a stormwater NPDES, e.g., that is a cost already included as a baseline program cost.

Rosemary requested that the Steering Committee develop specific questions for Mark so that he can come to the next Steering Committee meeting prepared to respond to the concerns of the group.

The Steering Committee developed the following list of questions for Mark:

1. What is included in baseline costs and what is not included?
2. How are costs split when some costs are part of the Recovery Plan and some are part of another program, like RMAP, NPDES permits, etc.?
3. How does Mark address costs when only regulatory actions are recommended in the plan but that further actions beyond the regulatory actions will be necessary, such as actual implementation of regulations?
4. What package of action categories and actions has Mark seen included in other plans and what does he anticipate in this plan?
5. How can Mark best address the fact that costs on the west end and Lake Ozette in particular have a very different reality than what is experienced nearer population centers?
6. Is it possible to obtain costs from private entities related to costs associated with activities such as RMAP (Road Maintenance and Abandonment Plans) and Habitat Conservation Plans, both for past, present, and future efforts?
7. If the actions recommend additions to existing programs such as RMAP, how will Mark incorporate those additional costs into his analyses?

8. In the context of the recent HCP and comparing that to the Recovery Plan, who will use the cost information and what will use of the cost information do?
9. What Limiting Factors will be addressed and to what level of detail?
10. In the listing of Sockeye by NOAA Fisheries, an economic analysis indicated an impact of \$32 per person. How has this value changed since the listing and how do you generate more real numbers?
11. How do you factor in cumulative effects, such as the fact that certain governmental entities are not able to participate in the process now because of lack of resources even though they should be? Can costs be factored in that would include their participation in the process for the future?
12. How has the costing process matured since the shared strategy?
13. Can costs include secondary other costs, so if there is an estimate for a regulatory cost, that would result in other secondary efforts for which there would be costs?
14. Can costs be included for all participants, government, tribes, business, and private?
15. Can inflationary costs be included and what inflationary rate do you use?
16. Will costs beyond some set time, like 15 years, be used, i.e., what is the time period for costs?
17. Can costs for ongoing aspects of implementation of this Recovery Plan be included, such as research, monitoring, etc.?
18. Are costs of enforcement and tracking included as well as costs to private citizens and businesses as they have to monitor and track Recovery Plan implementation and its effects on them?
19. Can and should opportunity costs be included?

### **Broad Sense Recovery Goals – Follow-Up and New Language Ideas**

Rosemary initiated the follow-up discussion about terminology used in the Draft Lake Ozette Sockeye Recovery Plan Broad Sense Recovery Goals and Objectives document (draft, edited September 6, 2006). The task from the August meeting was to provide new language for the document related to “ecosystem” and “aquatic system” and Objective #6. The edited language within the September 6 draft document was presented.

Discussion focused on the following terms: ecosystem, wildlife species, and ecological integrity. There remained disagreements by the Steering Committee on what words and terms should be used in this document, and the Steering Committee members presented their individual perspectives. NOAA Fisheries will consider these comments and return at a future Steering Committee meeting with its final Broad Sense Recovery Goals document and language.

### **Draft Steering Committee Purpose, Decision-Making and Groundrules**

Bob Wheeler facilitated the discussion of the Steering Committee’s consideration of its purpose, decision-making process and operational groundrules. The following discussion items ensued:

- Is there a need for consensus in development of this plan? The response was that, no, consensus is not absolutely needed. NOAA Fisheries, however, prefers a consensus approach where that is possible because it will lend greater credence to the plan.
- There was some discussion about whether or not meetings should be recorded. While some felt this would be good, there was a concern about additional costs for the process; and, there was some concern about the need to allow free discussion in developing

detailed scientific topics, ideas, and recommendations without being held to comments made at a later time and/or without having comments taken out of context.

- There was some discussion of allowing opinions of committee members to be included in the Recovery Plan. NOAA Fisheries will consider this request.

Bob will bring a revised version of the document to the October 17 meeting for Steering Committee consideration.

### **Update of Hypotheses on Limiting Factors**

Mike Haggerty presented the latest version of the hypotheses on limiting factors (combined life stages and limiting factors). He outlined the Chapter goals and reviewed the definitions developed for “key”, “contributing” and “factors not likely limiting”. The limiting factor diagrams were presented in order to outline the factors that affect all salmon population segments.

Discussion yielded the following clarifications, questions and/or concerns:

- Key limiting factors are related to both human actions and predation factors.
- Predation by cutthroat and pikeminnow is a concern.
- Concern was expressed that the emphasis is on human impacts (e.g., not taking into account any naturally caused limiting factors)
- How are “unknown” factors distinguished from “low” or “negligible” factors?
- Dislike of the rating of limiting factors was expressed by Harry Bell, Green Crow, for the following reasons:
  - It doesn’t take into account the certainty of the factors;
  - It doesn’t take into account the temporal aspect of the factors;
  - There needs to be a way to evaluate why a factor should be rated a particular way; and,
  - The focus needs to be on those things we can “fix”.
- Concern was expressed that there are too many factors included in Hypothesis 2 (e.g., temperature, turbidity, etc.)
- The current draft document is much clearer.
- It was suggested that strategies be prioritized.
- It was recommended that there be from 2 to 5 strategies, with actions.

It was agreed that additional comments on Draft #4 (LOS RP SEC 4 ver2\_1) be sent no later than October 2. Comments will be compiled and addressed within a draft document to be forwarded to the group no later than October 11 for consideration at the October 17 Steering Committee meeting.

### **Brainstorm Existing Recovery Strategies and Actions**

Derek Poon stated that strategies and actions should follow a system developed by Roni focusing on limiting factors, strategy hierarchies, goals, recovery strategies, and actions. He stated it will be more important, given limited time, to develop the strategies over specific actions.

Don Hammerquist stated the importance of restoring natural processes and to do that could require the acceleration of such ongoing actions like RMAP.

The Steering Committee indicated that actions are needed that can have a scope and scale to them that allows for economic analysis (from Mark Plummer). The Steering Committee understood that to get to such detail will require input and information from Steering Committee members and a need to learn from other recovery plans. The group agreed that they prefer a plan that has some amount of specificity to it because that will make it easier later on.

The brainstorming discussion resulted in the following ideas, thoughts, and questions:

- Actions should be kept limited to a number from 2 to 5
- Strategy should include prioritization; individual, scientific
  1. Action Items – from what documents, plans, places, and locations should the Actions Start List be taken?
  2. What level and categories of Actions are we talking about?
    - 30,000 foot level? 10,000 foot level?
    - Programmatic, site specific, implementation
  3. Action Categories
  4. Actions
  5. Priorities – how to prioritize

#### **Next Steering Committee Agenda Topics (October 17):**

- Introductions and Outline of Agenda Items
- Approval of September 12, 2006 Meeting Notes
- Draft Steering Committee Purpose, Decision-Making and Groundrules
- Puget Sound Technical Recovery Team
  - Viability Criteria
  - Tie to Life Cycle Model
- Costs – Mark Plummer
- Strategy
- Actions
- Recovery Goals – for November meeting

#### **Future Meeting Dates**

The following Steering Committee meeting dates were identified:

- Tuesday, October 17, 2006, 10:00 AM to 3:00 PM, Sekiu Community Hall
- Tuesday, November 14, 2006, 10:00 AM to 5:00 PM, Olympic National Park Facility in Port Angeles
- Tuesday, December 12, 2006, 10:00 AM to 5:00 PM, Olympic National Park Facility in Port Angeles
- Tuesday, January 23, 2007, 10:00 AM to 5:00 PM, Olympic National Park Facility in Port Angeles

Lake Ozette Steering Committee Meeting  
List of Meeting Participants  
September 12, 2006

*	Name	Organization	Phone Number	Email Address
	Bill Freymond	WA Department of Fish and Wildlife	360.249.1225	
*	Caroline Peterschmidt	Makah Tribe	360-645-3175	cpeterschmidt@centurytel.net
*	David Low	WA Department of Fish and Wildlife	360.249.1216	lowdl@dfw.wa.gov
*	Derek Poon	EPA	206-553-4497	Poon.derek@epa.gov
*	Don Hamerquist	Citizen and Property Owner	360-963-2413	janeen@olyphen.com
*	Ed Bowen	Ozette Landowner	360-452-8008	rockypt@olyphen.com
*	Harry Bell	Green Crow	360-452-3325	harry@greencrow.com
*	Janeen Porter	Citizen and Property Owner	360-963-2413	janeen@olyphen.com
*	Jeremy Gilman	Makah Tribe	360-645-3155	jeremygilman@olyphen.com
*	Joseph Murray	Merrill and Ring	360-963-2378	pysht@olyphen.com
*	Matt Longenbaugh	NOAA Fisheries	360-753-7761	Matthew.longenbaugh@noaa.gov
*	Mike Haggerty	Contractor	360-928-0124	mhaggerty@olyphen.com
*	Norma Jean Sands	NOAA, PSTRT	206-860-5607	Norma.sands@noaa.gov
*	Pat Crain	National Park Service	360-565-3075	Patrick_Crain@nps.gov
*	Phil Miller	Governor's Salmon Recovery Office	360-902-2219	Phil.miller@esa.us.gov
*	Rosemary Furfey	NOAA Fisheries	503-231-2149	Rosemary.Furfey@noaa.gov
*	Tim Tynan	NOAA Fisheries	360-753-9579	Tim.Tynan@noaa.gov
*	Bob Wheeler	Facilitator Triangle Associates	206-583-0655	rwheeler@triangleassociates.com

*\*Note: If entry has an asterisk (\*) by the name, it means that the individual is included in the current Lake Ozette email distribution group.*

**Draft Agenda**  
**Lake Ozette Sockeye Steering Committee Meeting**  
Tuesday, October 17, 2006  
Sekiu Community Hall  
10:00 a.m. – 3:00 p.m.

- 10:00 a.m.           **Introductions and Review Agenda**  
Updates and Announcements
- 10:15 a.m.           **Review and Acceptance of September 12, 2006 Meeting Notes and Action Items from Meeting (Attachment 1)**
- 10:20 a.m.           **Revised Draft Steering Committee Purpose, Decision-Making, and Groundrules (Attachment 2)**  
(Bob Wheeler, Facilitator)  
Steering Committee consideration of revised purpose, decision-making, and groundrules
- 10:30 a.m.           **Review of Recovery Plan Requirements and Schedule (Attachment 3)**  
(Rosemary Furfey, NOAA)
- 10:45 a.m.           **Puget Sound Technical Recovery Team - Draft Lake Ozette Sockeye Viability Criteria and Life Cycle Model Use**  
(TRT Representative)
- Update from TRT on the Viability Criteria
  - Life Cycle Model Use
- 11:30 a.m.           **Steering Committee Cost Questions for Mark Plummer (Attachment 4)**  
(Mark Plummer and Rosemary Furfey, NOAA)
- Presentation
  - Response to Steering Committee Questions
- Steering Committee Further Questions and Discussion, Comments to NOAA Fisheries, and Next Steps
- 12:00 p.m.           **Lunch Break**
- 12:15 p.m.           **How Will We Restore the Processes for Sockeye Salmon Recovery in the Lake Ozette Watershed? (Materials will be Handed Out at Meeting)**  
--Ozette Watershed Sub-Basin Priorities (Mike Haggerty, contractor)  
--Background and Information for Strategy Hierarchy, Goals, Strategies, Actions (Mike Haggerty, contractor)  
--Steering Committee Questions, Ideas, Input on Strategy Hierarchy, Goals, Strategies, Actions  
--Assignments
- 2:30 p.m.           **Response to Steering Committee Comments on Hypotheses on Limiting Factors (Attachments 5 and 6)**  
(Mike Haggerty, contractor)  
--Response to Steering Committee questions  
--Further Steering Committee questions and comments  
--Next Steps and schedule

2:55 p.m.

**Next Steps and Meetings**

- Tuesday, November 14, 2006, 10:00 AM to 5:00 PM, Olympic National Park Facility in Port Angeles
- Tuesday, December 12, 2006, 10:00 AM to 5:00 PM, Olympic National Park Facility in Port Angeles
- Tuesday, January 23, 2007, 10:00 AM to 5:00 PM, Olympic National Park Facility in Port Angeles

3:00 p.m.

**Adjourn**

**Attachments:**

- 1) Draft September 12, 2006 Meeting Notes and Action Items
- 2) Revised Draft Steering Committee Purpose Statement, Decision-Making and General Groundrules
- 3) Draft Lake Ozette Sockeye Salmon Recovery Plan Schedule and Key Agenda Items
- 4) Initial Written Response to Steering Committee Questions Related to Cost Evaluations of Actions
- 5) Response to Steering Committee Comments on Hypothesis on Limiting Factors
- 6) LOSRP Section 4 Version 2\_2 (Limiting Factors)

**Lake Ozette Sockeye Steering Committee Meeting**  
**Facilitator's Meeting Summary**  
Sekiu Community Hall  
October 17, 2006  
10:00 AM – 3:00 PM

**Participants for the Meeting**

See attached list of meeting participants.

**Summary of Recovery Planning Tasks/Actions**

- Phil Miller will keep the Steering Committee informed of developments with a Coastal Salmon group that includes WRIAs 20-24.
- Rosemary Furfey will follow-up with representatives of the Olympic Coast Marine Sanctuary to identify potential interest and funding of nearshore actions that could benefit Ozette sockeye. Her contacts are Carol Bernthal, Sanctuary Superintendent, and Jim Woods, Sustainable Resource Coordinator.
- Mike Haggerty's PowerPoint slide presentation and a template for recovery strategies and actions will be sent to the Steering Committee so members can identify recovery strategies and actions in preparation for and during the November 14 meeting.
- The Executive Summary of the Limiting Factors Analysis will be sent to the Steering Committee members.
- Mike Haggerty will develop a matrix to show the criteria and how sub-basin priority areas were identified.
- Triangle will revise the schedule of meetings and list of topics to include "implementation approach" for the December and January meetings.

**Updates and Announcements**

- Phil Miller reported that the Salmon Recovery Funding Board (SRFB) awarded the Coast Region Lead Entities (WRIAs 20-24) a grant to define Lead Entities' functions and to determine their approach for process and structure based on those functions, including consideration of creating a regional approach. The grant award runs from October through June 2006. Grays Harbor County is the administrative agent for the grant.
  - Pat Crain noted that there may be a need for additional dollars to implement ESA sockeye recovery actions;
  - Phil Miller noted that we will want to identify future strategies and implementation and how we will fund recovery actions related to the Coast Region effort.
  - It was suggested that a Lake Ozette Steering Committee member be on the Coast Groups planning entity.
  - Phil Miller suggested that we track the Coast process closely and keep in mind that it will take time to develop.
- Pat Crain gave an update on the National Park System Draft Management Plan. He noted that the comment period is now closed (as of September 30, 2006). Every comment will be reviewed and a response given, all of which will be categorized and documented. It is unknown how long that process will take.
- Micah McCarty, Makah Tribal Council, expressed the Tribe's deep rooted connection to Lake Ozette sockeye. They are "the living breath of our ancestors." The Tribe is

interested in establishing a vibrant fishery and re-establishing and implementing a ceremonial connection. The Tribe feels it is important to see that perceptions and barriers are overcome.

- Ed Bowen mentioned the importance of connecting this process into the legislative budgetary process. Ideas are needed so we can tap into that funding source, as well as SRFB funding.
- The Steering Committee discussed the need to work with the Olympic Coast Marine Sanctuary (OCMS) to identify potential nearshore actions that could benefit Lake Ozette sockeye salmon. Rosemary indicated that she will contact OCMS representatives and report back at the next Steering Committee meeting. Her contacts are Carol Bernthal, Sanctuary Superintendent, and Jim Woods, Sustainable Resource Coordinator.

### **Review and Acceptance of September 12, 2006 Meeting Notes and Action Items from Meeting**

The September 12, 2006 meeting notes were accepted as written.

### **Revised Draft Steering Committee Purpose, Decision-Making and Groundrules**

The Revised Draft Steering Committee Purpose Statement, Decision-Making and Groundrules document was accepted by the Steering Committee.

### **Review of Recovery Plan Requirements and Schedule**

Bob Wheeler reminded everyone about the short time-frame for completing the Recovery Plan and noted that implementation will be key. Rosemary Furfey reviewed for feedback the draft schedule and topic outline titled *Lake Ozette Sockeye Recovery Plan, October 2006 to January 2007, Schedule and Key Agenda Items* (dated October 6, 2006). It was agreed to add “Implementation Approach” as topics for both the December and January meetings in order to discuss broad implementation ideas. The January Steering Committee meeting will focus on the Draft Recovery Plan. There will need to be a Federal Register Notice about the Draft Recovery Plan.

### **Puget Sound Technical Recovery Team – Draft Lake Ozette Sockeye Viability Criteria and Life Cycle Model Use**

Kit Rawson from the Puget Sound Technical Recovery Team gave an update on the Viability Criteria and referred the group to a document from the TRT entitled *Viability Criteria for Ozette Lake Sockeye*. Kit emphasized that the TRT wants input as soon as possible from the Steering Committee as to what the TRT needs to do.

Kit noted that the TRT did not have a good current sockeye data set for Lake Ozette and noted that, therefore, coast-wide sockeye data was reviewed. The TRT reviewed the Lake Quinault sockeye data and obtained the complete Quinault dataset with hatchery data. There are 96 years of data from 1910 to 2006, and numbers were computed for both a longer and shorter time period.

Kit reported that beginning in 1973 the harvest and escapement numbers for Quinault were separated. Because of this, the TRT used the shorter data set from 1973 to 2005 as a surrogate situation for Lake Ozette. It was noted that the TRT data is a range between 2 end points, i.e., low and high, and is therefore not precise. By way of example using another area and salmon, a 5% extinction probability and a persistence of 95% was used for Hood Canal summer chum.

In reference to Table 2 of the document, Mr. Rawson noted that a stable population was assumed. The chart gives an estimate of how much the population will vary over time. It is used to identify how many fish will be needed to overcome natural variability.

The flow chart of Figure 1 on page 6 was outlined for the group [note: Figure 1 is a flow chart that shows how demographic and habitat-based analyses were combined to derive planning ranges for equilibrium spawner abundance]. The chart provides several approaches to identify productivity and variability.

The chart boxes and acronyms were explained. The chart begins with the PVA analysis (which is the range of fish needed), the SpC (spawning capacity), the SmC (adult sockeye if the only limiting factor is the lake), and HPVA (habitat productivity – life cycle model, placeholder view).

The finding of the TRT analysis is that the minimum population necessary for keeping the run size at equilibrium abundance is 12,000. The maximum population needed, using the upper PVA, is 50,205. The habitat capacity numbers include beach spawners (12,000 current spawning level to 19,000 historic spawning level); and tributary spawners (80,000-100,000).

A question arose as to how the top range is considered (what is the viable population number?). Kit explained that for ESA purposes, 12,000 is the number to use. The question is then how we will use the 12,000: salmon populations fluctuate over time as the population will be viable between 12,000-50,000 fish. The TRT would like to see the population fluctuate between that range. They can't, however, be precise on the number.

Phil Miller agreed that we can't be precise and that we want to overshoot the minimum number, e.g., 4 times over may not be the plan.

Caroline Peterschmidt mentioned that 0.061 is the adjustment number for harvest which factors in variability. Harvest is then represented as X% or #/year. She stated that the number 12,000 doesn't sound viable for what the Makah Tribe needs for harvest. Instead, 12,000 represent more of a starting point.

Mr. Rawson clarified that these are not the final plan PVA numbers. Concern was expressed about using potentially flawed Quinault data (e.g., using low data numbers). Mr. Rawson noted that the TRT will state its assumptions and will note how the Quinault data relates to Lake Ozette Sockeye.

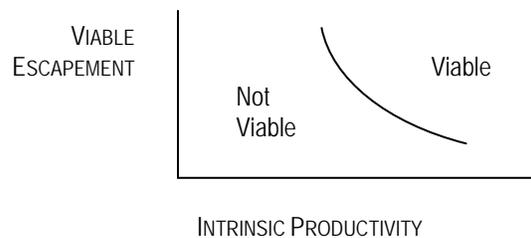
It was noted that the Steering Committee can set the viability count goal they want. Mr. Rawson mentioned a Snohomish system example (e.g., PVA and HPVA). Habitat was not being utilized, and they need to look at the habitat function that affects viability. The HPVA prevailed in Snohomish, and they had an ambitious target. The Tribe needed an abundant, harvestable fish population.

Mike Haggerty asked how the harvest of Quinault sockeye affected the population and asked if they used an exploitation rate. Mr. Rawson explained that the life cycle model was used that

includes some consideration of harvest. A question was raised about using local information for historic data (homesteaders, Makah Tribal elders). It was explained that historic data is the harvest data from the Washington Department of Fish and Wildlife. The WDFW data is nothing like the Quinault data. Mr. Rawson explained that the TRT uses the Lake Ozette life cycle and VRAP models.

Mr. Haggerty's Life Cycle Model is a projection of how sockeye will perform over 100 years with a quasi-extinction threshold (QET). The model helps in understanding viability. This model can project scenarios on what the tendency will be and what can affect the life cycle and viability criteria. Mike noted that the data can be entered into a spreadsheet.

Norma Jean Sands' VRAP model looks at escapement versus productivity (not viability or in viable range). Extinction is still possible:



Reference was then made to page 10 regarding the section on Spatial Structure and Diversity (page 11). For spatial distribution, it is the TRT recommendation that we need “eggs in more than one basket” for viability. Within its recommendation, the TRT is using the word “may” to include tributaries. As such, it doesn't change anything that we're doing now. Mr. Rawson noted that the TRT agreed that we need to include tributaries, especially in the near term.

Regarding diversity (page 11), it was noted that fish are desired in the tributaries in case something happens to the beach spawners. The diversity language is general now, and more specificity will be needed and intended.

For the immediate next steps and recommendations to the TRT on where they should go from here, the group outlined the following:

1. Look at the diversity of tributaries versus beach spawners (e.g., a percentage for each; is there a way to quantify the percent-tributaries to lake spawners that should exist?).
2. Run timing is key for chinook. There are age class differences for Lake Ozette sockeye.
3. Look at kokanee interaction.
4. What else might we look for (e.g., Lake Ozette sockeye is a single population versus subtle genetic diversity within the population, for instance, between lake and tributary populations)?
5. Entry timing needs to be preserved.
6. Tributary versus beach spawning.
7. It is important to express and preserve age distribution diversity.

Concern was expressed about down-playing tributary spawners since those spawners are key for recovery. Functioning tributaries are needed in order to maintain healthy, viable beach spawners.

A question arose as to what the TRT will look at in terms of historic variability for lake and tributary populations. The current population is not isolated and hasn't been for over 100 years. There is genetic variability and some potential for genetic variability. Timing has to be precise. Regarding the current population structure versus that of the future, Mike Haggerty asked a question about how long it would take for a second population to develop and how would the potential future development of multiple populations be considered.

With regard to genetic variability, Pat Crain noted that hatchery actions will continue. A question arose as to whether the hatchery program will alter genetics (e.g., making the fish more susceptible to disease, etc.). It was noted that the Elwha Plan included a genetic monitoring plan. A genetic monitoring component for the Lake Ozette Plan could be included as part of the research, monitoring and evaluation plan (RM&E Plan). It was noted that the Hatchery Genetic Management Plan (HGMP) includes genetic information (e.g., includes RM&E for genetic changes).

In summation, Kit thanked the group for its discussion and questions and noted that that the TRT will define a planning range and prepare a better statement on spatial structure. The next TRT regular meeting is October 19, Norton Building, Suite 1115, 802 Second Avenue, Seattle, WA. Lake Ozette will be on the agenda. There will be a report-out from the TRT at the November 14 Steering Committee meeting.

### **Steering Committee Cost Questions for Mark Plummer**

Mark Plummer referred the group to his document (*Initial Written Response to Steering Committee Questions Related to Cost Evaluations of Actions*) and presented the responses to the cost questions from the Steering Committee. He noted that costs are estimated in order to satisfy ESA requirements. The questions then become what and how – what costs are estimated and how the costs are estimated. The ESA does not specify what should be done with the cost information; there can, therefore, be a range of how a particular recovery plan might deal with the cost information. In essence, the costs don't have to affect the development of the recovery plan, though they certainly can be used in a more thorough manner.

There are practical/use and policy aspects to costs. Uses for cost estimates include:

1. Budget planning;
2. Policy – higher level policy decisions (e.g., cost effectiveness – where do you get the “biggest bang for the buck”).

Steps to identify costs (how costs are estimated):

- A detailed, comprehensive list of actions is needed.
- The list needs to be specific (how, where, how much, and how often)
- The type, scale and frequency of actions need to be identified.
- Every possible action should be identified.

Mark gave an example of how the information could be handled using the Snake River Recovery Plan (recovery action tables):

1. Strategy Categories – identify strategy
2. Suite of Actions – identify actions
3. Annual Schedule – identify the schedule

#### 4. Implementation Costs

- a. Need a transparent method for estimating costs
- b. Don't want numbers pulled "out of the air"
- c. Considerations for the Lake Ozette Plan:
  - i. Local knowledge and expertise is key;
  - ii. Identification of similar projects with similar scale
  - iii. NW Fisheries Science Center database of habitat restoration projects; identifies a wide array of projects
- d. Specific costs can be provided such as:
  - i. Building cost data
  - ii. Cost/acre/mile

Mark also mentioned that he has developed regional costs into a database. The database has over 14,000 observations, though most of those are from Oregon. He will use the database and more local information when he works on cost components of the Recovery Plan.

In response to whether or not a cost estimate must be provided for everything, Mark noted that on a practical level that doesn't happen. He noted that sometimes the cost is not known or doesn't need a high degree of specificity. In such cases, costs may be described qualitatively (e.g., high, medium, large).

In regard to the question of whether or not all costs are to be included, Mark noted that some actions are required anyway. There are two levels of costs, i.e., baseline costs (in the green font; identify actions in pre-existing actions) and incremental costs (in the red font, actions exclusively for Lake Ozette sockeye recovery).

Mark noted that there is no guidance for the time horizon (e.g., 1, 2, 3 years → 10 years → 50 years). He stated that the costs of HCP implementation represent a baseline cost. Actions identified in addition to the HCP represent incremental costs.

In answer to the question regarding what has changed from the critical habitat data, Mark noted that work is not relevant. To clarify, he stated that the actions are similar to other actions that are carried out in other areas.

Mark clarified that the cost to implement the HCP is unknown. His database relies on public funding sources. He stated that there is no cost estimate for loss of resources. Mark noted that he wants to use local information to identify costs.

Pat Crain asked about detail on projects. Details span from very specific to general, e.g., a specific culvert project identified to "culvert needed". Ranges are acceptable. The project should include the funding source. Generally, the order of magnitude difference doesn't help.

RMAP (Road Maintenance and Abandonment Plan) required a baseline and 10-year implementation period. If the implementation period is accelerated to just 5 years, for example, what shifts in addition to the baseline and the incremental cost (for example, \$117K for a 10-year period versus \$117K for a 5-year period)?

Other comments provided by the group included:

- Prioritize the actions. Actions that we don't do may also have an impact, i.e., is there a higher environmental cost if we can't do everything?
- Micah asked at what point a viable stock is recognized. He noted that the Makah Tribe wants a high recovery (goal=120,000 fish), and that will drive costs and actions. How does all of this tie together?
- Cost data for the Lake Ozette area is sparse.
- For this watershed, the economic impact of the actions needed to recover salmon could be large.
- The order of planning starts with strategies, then actions, and then costs. For costs, the order goes with the regional database and local knowledge in an iterative process.
- With a smaller ESU area, there should be some advantages in developing cost information
- It was mentioned that the Recovery Goals are at the 30,000 foot level, followed by more detailed Actions. Implementation involves the sequencing of actions with specific costs.

### **How Will We Restore the Processes for Sockeye Salmon Recovery in the Lake Ozette Watershed?**

Mike Haggerty presented the strategy to identify actions. He referred the group first to the sub-basin priorities on slides number 1-3 of the PowerPoint document. Pat Crain asked why Coal Creek is a priority 2. Mike explained that it involves overall significance or a limiting factor. Pat noted that the river is closely tied to Coal Creek.

Concern was expressed that the priority criteria are too general, and that an objective prioritization is needed. After general discussion, Mike Haggerty agreed to develop a matrix of criteria with water bodies so that priorities will be more transparent. The Steering Committee will then review the priorities at the next meeting.

Mike then reviewed the Limiting Factors, Strategy, and Action slides with the group. It was agreed that the PowerPoint document would be sent out to the Steering Committee members so the group would have the ability to review the presentation in more detail. Discussion items of Mike's work included:

- There is a relevance to not doing something. It is a high priority to keep good habitat in good shape.
- Page 4 – natural processes can be addressed.
- Page 6 – why not consider Crooked Creek and self-migrating sockeye; there are no sockeye in Coal Creek [note: Coal Creek/Crooked Creek would be located in the “all populations” section].
- It states that coastal processes are not impaired – how do we know that and how do we comment on this? We've said that nearshore habitat is impaired. What did we say in the LFA document?
- Notice of impaired or unimpaired – is this too subjective? Is the action doable or not?
- Issue of how impaired processes are affected?
- It was suggested that a process be defined as to what the Steering Committee members need to do to provide input for the next meeting. What do we want the group to do in preparation for the next meeting?
- Whatever is crafted for group, input should keep the following elements in mind:
  - Explain the prioritization – transparency is needed and is key.

- Simplify the process – do not overwhelm the Committee with too many lines to fill out.
- Steering Committee members will be given a defined “homework” assignment with templates in order to come prepared to the November 14 meeting.

Micah reminded everyone about the importance of this effort as it relates to the 1855 Neah Bay treaty. There is a treaty and trust responsibility. The importance relates to:

- The degraded Makah standard of living;
- A rekindled relationship with the resource; and,
- Access to research data and filling in research holes.

### **Response to Steering Committee Comments on Hypotheses on Limiting Factors**

The group did not have time to discuss this issue. Mike Haggerty will send out the Executive Summary of this document to the Steering Committee.

### **Next Steering Committee Agenda Topics (November 14)**

- Introductions and Outline of Agenda Items
- Updates and Announcements
- Approval of October 17, 2006 Meeting Notes
- TRT Report Out
- Recovery Goals
- How Will We Restore the Processes for Sockeye Salmon Recovery in the Lake Ozette Watershed – Identify:
  - Hierarchy Strategies and Priorities
  - Goals
  - Recovery Strategies
  - Limiting Factors Addressed
  - Actions (Programmatic and Site-Specific)
  - Assignments

### **Future Meeting Dates**

The following Steering Committee meeting dates were identified:

- Tuesday, November 14, 10:00 AM to 5:00 PM, Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA
- Tuesday, December 12, 2006, 10:00 AM to 5:00 PM, Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA
- Tuesday, January 23, 2007, 10:00 AM to 5:00 PM, Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA

The meeting adjourned at 3:15 PM.

Lake Ozette Steering Committee Meeting  
 List of Meeting Participants  
 October 17, 2006

* Name	Organization	Phone Number	Email Address
* Bill Riedel	Citizen	360-963-2567	joan_riedel@yahoo.com
* Caroline Peterschmidt	Makah Tribe	360-645-3175	cpeterschmidt@centurytel.net
* Coleman Byrnes	Citizen	360-928-1032	swampdog@olypen.com
* David Low	WA Department of Fish and Wildlife	360.249.1216	lowdl@dfw.wa.gov
* Derek Poon	EPA	206-553-4497	poon.derek@epa.gov
* Don Hamerquist	Citizen and Property Owner	360-963-2413	janeen@olypen.com
* Doug Martin	Martin Environmental	206-528-1696	doug@martinenv.com
* Ed Bowen	Ozette Landowner	360-452-8008	rockypt@olypen.com
* Harry Bell	Green Crow	360-452-3325	harry@greencrow.com
* Janeen Porter	Citizen and Property Owner	360-963-2413	janeen@olypen.com
* Jeff Shellberg	Citizen	n/a	jshellbe@centurytel.net
* Jeremy Gilman	Makah Tribe	360-645-3155	jeremygilman@olypen.com
* Jim Henring	WA Department of Natural Resources	360-374-2803	james.henring@wadnr.gov
* Jim Springer	WA Department of Natural Resources	360-374-2818	james.springer@wadnr.gov
* Kit Rawson	Puget Sound TRT	360-651-4478	krawson@tulaliptribes_nsn.gov
* Lyle Almond	Makah Fisheries	360-645-1371	lylealmond@centurytel.net
* Mark Plummer	NOAA Fisheries	206-860-3492	mark.plummer@noaa.gov
* Matt Longenbaugh	NOAA Fisheries	360-753-7761	matthew.longenbaugh@noaa.gov
* Micah McCarty	Makah Tribal Council	360-640-0273	micahmccarty@centurytel.net
* Mike Haggerty	Contractor	360-928-0124	mhaggerty@olypen.com
* Pat Crain	National Park Service	360-565-3075	patrick_crain@nps.gov

<b>*</b>	<b>Name</b>	<b>Organization</b>	<b>Phone Number</b>	<b>Email Address</b>
*	Phil Miller	Governor's Salmon Recovery Office	360-902-2219	phil.miller@esa.wa.gov
*	Rosemary Furfey	NOAA Fisheries	503-231-2149	rosemary.furfey@noaa.gov
*	Tim Tynan	NOAA Fisheries	360-753-9579	tim.tynan@noaa.gov
*	Bob Wheeler	Facilitator Triangle Associates	206-583-0655	rwheeler@triangleassociates.com

*\*Note: If entry has an asterisk (\*) by the name, it means that the individual is included or has been added to the current Lake Ozette email distribution group.*

**Draft Agenda**  
**Lake Ozette Sockeye Steering Committee Meeting**  
Tuesday, November 14, 2006  
Olympic National Park Headquarters Campus, Macy House Meeting Room  
[for location details and directions to facility, see pages 2 and 3]  
10:00 a.m. – 5:00 p.m.

- 10:00 a.m.           **Introductions and Review Agenda**  
Updates and Announcements  
-- Veterans Conservation Corps (Ed Bowen)  
-- Coastal Lead Entities Salmon Recovery Effort (Phil Miller)  
-- Planning Period to 2050 (Rosemary Furfey)  
-- TRT – Report Out on Oct. TRT Meeting (Norma Jean Sands)  
-- Others?
- 10:20 a.m.           **Review and Acceptance of October 17, 2006 Meeting Notes and Action Items from Meeting (Attachment 1)**
- 10:25 a.m.           **Review of Recovery Plan Requirements and Schedule (Attachment 2)**  
(Rosemary Furfey, NOAA)
- 10:30 a.m.           **How Will We Restore the Processes for Sockeye Salmon Recovery in the Lake Ozette Watershed? (Worksheets sent previously)**  
-- Review of Ozette Watershed Sub-Basin Priorities (Mike Haggerty, contractor)  
-- Review of Background and Information for Strategy Hierarchy, Goals, Strategies, Actions (Mike Haggerty, contractor)  
-- Strategies and Action Development Session – Framework (Bob Wheeler, Facilitator)  
-- Steering Committee Open Session – Development of Strategies and Actions
- 12:00 p.m.           **Lunch Break**
- 12:30 p.m.           **Strategies and Actions Refinement**
- 3:15 p.m.           **Break**
- 4:00 p.m.           **Response to Steering Committee Comments on Hypotheses on Limiting Factors (Executive Summary sent previously)**  
(Mike Haggerty, contractor)  
--Response to Steering Committee questions  
--Further Steering Committee questions and comments  
--Next Steps and schedule
- 4:55 p.m.           **Next Steps and Meetings**
  - Tuesday, December 12, 2006, 10:00 AM to 5:00 PM, Olympic National Park Facility in Port Angeles
  - Tuesday, January 23, 2007, 10:00 AM to 5:00 PM, Olympic National Park Facility in Port Angeles
- 5:00 p.m.           **Adjourn**

**Attachments:**

- 1) Draft October 17, 2006 Meeting Notes and Action Items
- 2) Draft Lake Ozette Sockeye Salmon Recovery Plan Schedule and Key Agenda Items

**List of Materials distributed in earlier email dated 10-27-06:**

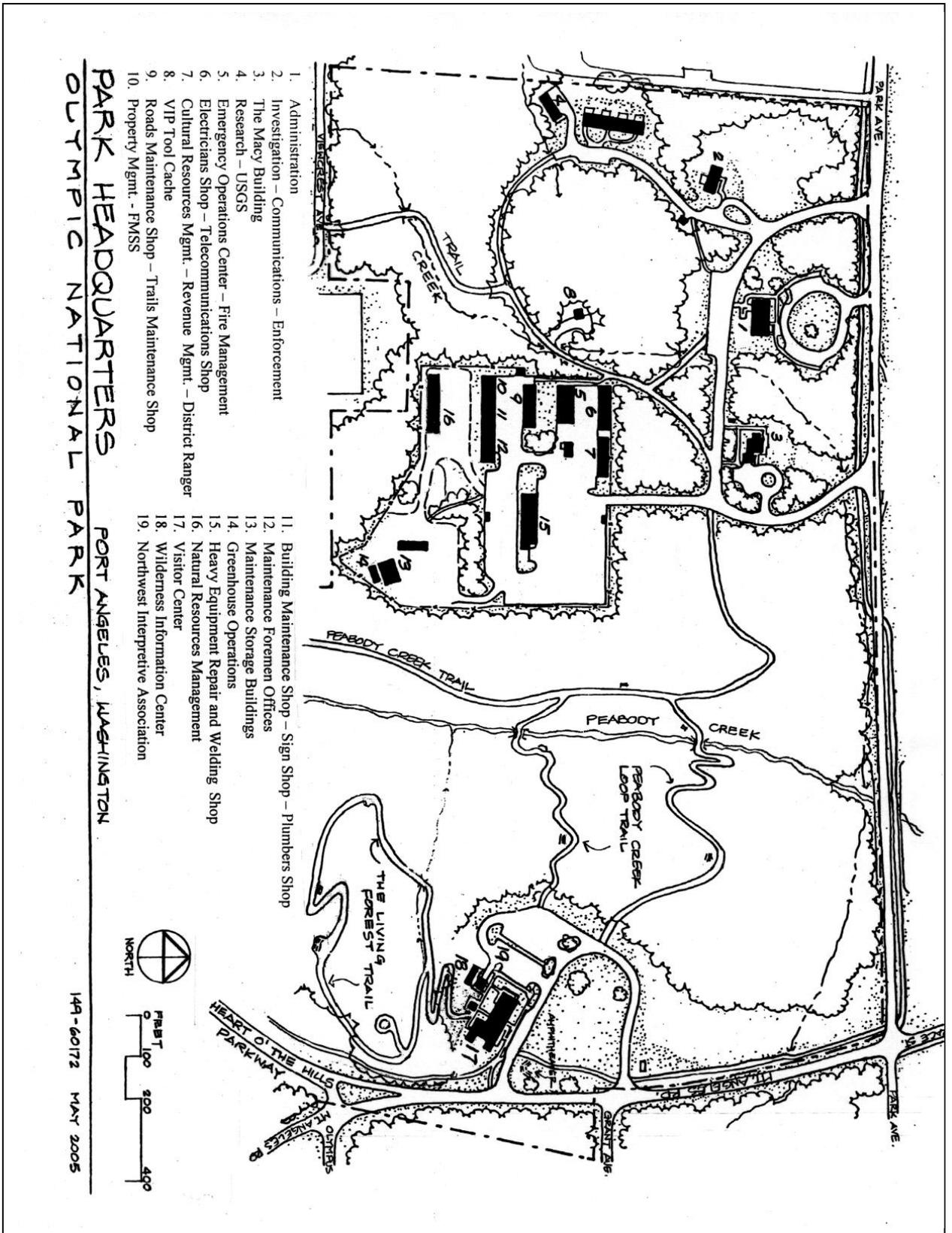
- 1) Executive Summary (LOS LFA EXECUTIVE SUMMARY V7\_5b, dated 10-27-06)
- 2) Lake Ozette Steering Committee Worksheets (Template (1) 10-27-06 draft.doc)
- 3) PowerPoint slide presentation by Mike Haggerty (Proposed Strategy and Structure for Identifying Actions Necessary for Recovery of Lake Ozette Sockeye Salmon)

**MEETING LOCATION AND DIRECTIONS:**

Olympic National Park, Macy House Meeting Room  
ONP Park Headquarters Map, Page 3 (*see #3, The Macy Building*)  
[http://www.stateparks.com/olympic\\_headquarters.html](http://www.stateparks.com/olympic_headquarters.html)

- To get to the headquarters campus, visitors should turn south on Race Street from Front/First Street (main one-way roads through Port Angeles, depending on direction).
- Signs will indicate that this is the route to Hurricane Ridge.
- Go one block past the stoplight on Lauridsen Blvd.
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- The entryway on the left will take you to the Macy House. The second entryway is the parking lot for the Headquarters Building.
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- Lost and need help? Please call Bob Wheeler's cell phone: 206.200.4792

# OLYMPIC NATIONAL PARK HEADQUARTERS MAP



1. Administration
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3. The Macy Building
4. Research - USGS
5. Emergency Operations Center - Fire Management
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7. Cultural Resources Mgmt. - Revenue Mgmt. - District Ranger
8. VIP Tool Cache
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10. Property Mgmt. - FMSS

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15. Natural Resources Management
16. Visitor Center
17. Wilderness Information Center
18. Northwest Interpretive Association

**PARK HEADQUARTERS**  
**OLYMPIC NATIONAL PARK**

**PORT ANGELES, WASHINGTON**

149-60172 MAY 2005

**Lake Ozette Sockeye Steering Committee Meeting  
Facilitator's Meeting Summary**

Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA  
November 14, 2006  
10:00 AM – 5:00 PM

**Participants for the Meeting**

See Attachment I for a list of meeting participants.

**Summary of Recovery Planning Tasks/Actions**

- Rosemary Furfey will obtain information about the marine section within the Washington Department of Natural Resources (WA DNR) Habitat Conservation Plan (HCP) and report back at the December meeting.
- The Lake Ozette project team will compile the information from today's strategies and action development session and develop a summary chart of strategies for each process.
- A report-out from the TRT will be made at the December 12 Steering Committee meeting.

**Updates and Announcements**

- Ed Bowen provided an update about the Veteran Conservation Corps (VCC). Ed is the VCC Field Coordinator for Clallam and Jefferson Counties. The VCC provides volunteer opportunities to veterans for projects that protect and restore Washington's lakes, marine waters, open lands, rivers and streams. He noted that Clallam County has the highest percentage of veterans of any Washington county. To utilize volunteer services, the following are needed: (1) locate veterans with identified skills; (2) match the skills with the needs on the peninsula; (3) training, plus identification of what programs are needed; and (4) identification of what organizations need. For example, the VCC could be used for potential hatchery maintenance activities. Mike Gregoire (Governor Chris Gregoire's husband) is working on funding for the program (it is now primarily volunteer). There is a tie-in with Tribal Veterans Administration representatives. In addition, the Veterans Administration has grant funds available (Patriots Pride) as stipend funds for hatchery maintenance volunteers. [note: for more information, refer to the VCC website at [http://www.dva.wa.gov/veterans\\_conservation\\_corps.htm](http://www.dva.wa.gov/veterans_conservation_corps.htm) ]
- Bob Wheeler gave an update on the Coastal Lead Entities project. He noted that it will be a 6-month study period. The Lead Entities are currently in the process of interviewing facilitation consultants.
- Rosemary Furfey provided an explanation about the Planning Period to 2050. The question is: what is the planning period or horizon to get Lake Ozette sockeye salmon off the endangered species list? She noted that NOAA Fisheries will try to identify an initial 10-year implementation along with long-term dates. The Broad Sense Recovery Goals objective refers to the planning template for Year 2050.
- Rosemary reported on her contact with representatives from the Olympic Coast National Marine Sanctuary (OCNMS) about the identification of potential interest and funding of nearshore actions that could benefit Ozette sockeye. Assistant Director George Galasso noted that he would review the OCNMS management plan with that in mind. He added that Lake Ozette Recovery Plan needs could be included in the management plan and noted that habitat monitoring is a possibility. Information could be shared (e.g., limiting factors analysis, information from their current research, etc.). Ed Bowen reported that he had attended the OCNMS advisory committee meeting and noted that monitoring the coastline is difficult. Rosemary will follow-up with a review of the

marine section within the Washington Department of Natural Resources (WDNR) Habitat Conservation Plan (HCP) on aquatic lands.

- Rosemary reported that she received an email from Cathy Lear noting the Clallam County Commissioners would adopt a resolution to support sockeye recovery today (November 14, 2006). Rosemary noted that she would add county actions to today's strategies and actions sheets.
- Norma J. Sands gave the report from the October TRT meeting. She reported that Kit Rawson worked with Mike Haggerty on the Life Cycle Model to incorporate the Habitat Productivity Viability Analysis (HPVA). She noted that there is a difference between viability and broad sense recovery (e.g., what population of fish is needed to allow survival versus what population is needed to support harvesting). She indicated that the TRT is considering the question of tributary versus beach spawners. Its consideration includes the thought that as viability is reached, tributary spawners may or may not be needed; however, tributary spawners are needed to achieve genetic diversity. Rosemary reported that a NOAA 5-year status review will evaluate the status of the Evolutionary Significant Unit (ESU) to determine if the viability goals have been reached. This could include a re-evaluation of tributary and beach spawners. Discussion of Norma's report included:
  - Caroline Peterschmidt noted that tributary and beach spawners will stay together in a confined space. Straying is needed to keep populations the same, and there is not a lot of straying now.
  - Coleman Byrnes asked about kokanee and whether or not the genetics of streams and tributary/beach spawners had been studied. Pat Crain noted that kokanee are very different from sockeye beach spawners, and stated that Lake Ozette kokanee are genetically different from sockeye.
  - Pat Crain noted that Quinault sockeye data has been used for the Lake Ozette modeling by the TRT. He reported that this year there is a historic low number of returning adults in Lake Quinault. He suggested that the TRT check the new Quinault data and check the final Quinault escapement numbers to see if the numbers are within the TRT's variability estimates. He offered this as a caution because the numbers are "disastrously" low and noted that Quinault may not be viable. He is concerned what relationship impact might be seen in relation to Lake Ozette sockeye.
  - The next TRT meeting is scheduled for Thursday, November 16 at the Seattle Aquarium. Lake Ozette is on the agenda for 11:00 AM.

### **Review and Acceptance of October 17, 2006 Meeting Notes and Action Items from Meeting**

Ed Bowen asked about the purpose of the meeting notes. Bob Wheeler explained that the facilitator's meeting summary is a general record of what is discussed at the meeting. Each month the prior meeting summary is reviewed. The options for group action on this agenda item are (1) to accept the meeting notes as written or (2) bring forward any corrections or revisions for consideration. The review of the meeting notes provides the mechanism to revise or correct the summary, as needed. Because it is a summary document, the narrative typically includes broad themes rather than specifically detailed or recorded comments. Following the discussion, the October 17, 2006 meeting notes were accepted as written, without specific comments.

### **Review of Recovery Plan Requirements and Schedule**

Rosemary Furfey referred the group to the current meeting schedule and emphasized that today's meeting is key in the overall Recovery Plan process. She noted that the goal after this meeting is to write the Recovery Plan chapters in parallel with the Limiting Factors Analysis. The writing of the Recovery Plan

chapters is currently underway. The only change to the current edition of the meeting schedule is the change in hours for the December meeting (changed to 10:00 AM to 3:00 PM).

### **How Will We Restore the Processes for Sockeye Salmon Recovery in the Lake Ozette Watershed?**

Mike Haggerty provided an introduction to his PowerPoint slides (*Proposed Strategy and Structure for Identifying Actions Necessary for Recovery of Lake Ozette Sockeye Salmon*) and a review of the Ozette Watershed Sub-Basin Priorities. Refer to Attachment II for the Recovery Strategy Hierarchy with chart notes and discussion items regarding the PowerPoint slides. Refer to Attachment III for the Ozette Watershed Sub-Basin Priorities map and discussion items.

Bob Wheeler facilitated the Strategies and Action Development Session. The group utilized the lunch hour to complete the wall templates for strategies and actions. Participants entered their comments on the template worksheet charts throughout the meeting room and discussion items were entered onto the worksheets, as well. Attachment IV is the compilation of all comments from the session [note: given file size, Attachment IV will be sent as a separate document].

### **Response to Steering Committee Comments on Hypotheses on Limiting Factors**

Given time constraints, it was determined that the Executive Summary of the Limiting Factors Analysis will be sent again to the Steering Committee members with a request for comments. Rather than include this again as an agenda item for December, the comments will be compiled from the responses received, and the document will be considered by the Steering Committee as part of the whole report.

### **Next Steering Committee Agenda Topics (December 12)**

- Meeting time is changed to 10:00 AM to 3:00 PM.
  - How Will We Restore the Processes for Sockeye Salmon Recovery in the Lake Ozette Watershed (Second Round of Strategies and Actions) – Review and add to Strategies and Actions and provide more detail.

### **Future Meeting Dates**

The following Steering Committee meeting dates were identified:

- Tuesday, December 12, 2006, 10:00 AM to 3:00 PM, Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA
- Tuesday, January 23, 2007, 10:00 AM to 5:00 PM, Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA

The meeting adjourned at 5:00 PM.

**ATTACHMENT I: Lake Ozette Steering Committee Meeting, List of Meeting Participants  
November 14, 2006**

<b>*</b>	<b>Name</b>	<b>Organization</b>	<b>Phone Number</b>	<b>Email Address</b>
*	Aaron Brooks	University of Washington Grad Student	n/a	acbrooks@u.washington.edu
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*	Caroline Peterschmidt	Makah Tribe	360-645-3175	cpeterschmidt@centurytel.net
*	Coleman Byrnes	Citizen	360-928-1032	swampdog@olympen.com
*	Doug Martin	Martin Environmental	206-528-1696	doug@martinenv.com
*	Ed Bowen	Citizen	360-452-8008	rockypt@olympen.com
*	Frank Geyer	Quileute Tribe, Fisheries Biologist	360-374-2027	frank.geyer@quileutenation.com
*	Ian MacIver	Rayonier	360-374-7226	ian.maciver@rayonier.com
*	Jeremy Gilman	Makah Tribe	360-645-3155	jeremygilman@centurytel.net
*	Jim Springer	WA Department of Natural Resources	360-374-2818	james.springer@wadnr.gov
*	Joseph Murray	Merrill & Ring	360-452-2367	pysht@olympen.com
*	Lyle Almond	Makah Fisheries	360-645-3173	lylealmond@centurytel.net
*	Mike Haggerty	Contractor	360-928-0124	mhaggerty@olympen.com
*	Norm Schaaf	Merrill & Ring		nschaaf@merrillring.com
*	Norma Jean Sands	NOAA	206-860-5607	Norma.sands@noaa.gov
*	Pat Crain	National Park Service	360-565-3075	patrick_crain@nps.gov
*	Sam Brenkman	National Park Service	360-656-3081	sam_brenkman@nps.gov
*	Rosemary Furfey	NOAA Fisheries	503-231-2149	rosemary.furfey@noaa.gov
*	Bob Wheeler	Facilitator Triangle Associates	206-583-0655	rwheeler@triangleassociates.com

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## **ATTACHMENT II**

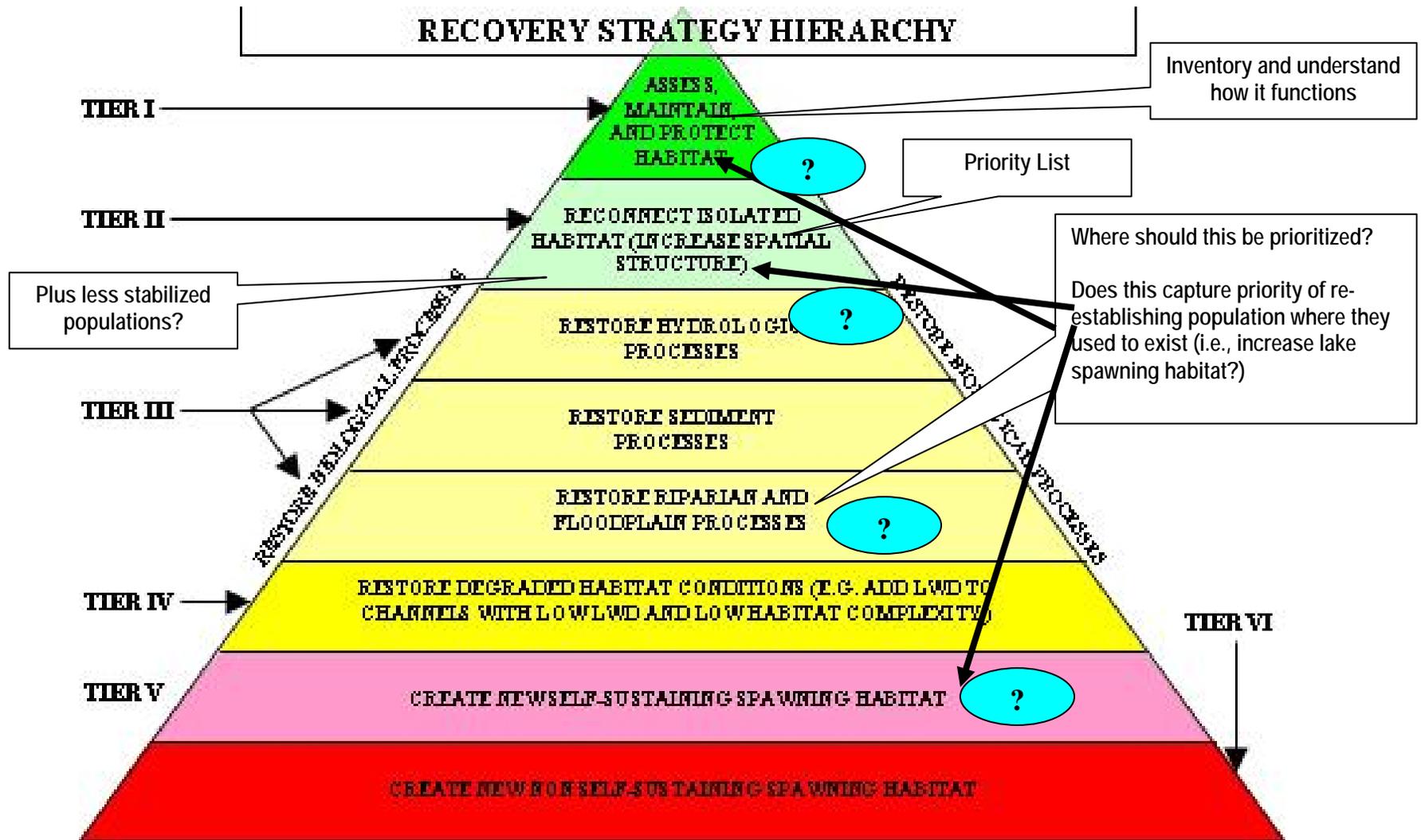
### **PowerPoint Discussion Items and Recovery Strategy Hierarchy with Chart Notes**

#### **PowerPoint Discussion Items:**

1. Map of Critical Habitat:
  - a. Confirm coverage by NOAA
  - b. Check to see why nearshore marine did not get included
  - c. Should Coal Creek segment be included?
  - d. Ozette River should be included; most of Ozette River was not part of Critical Habitat
  - e. What defines Critical Habitat – in ESA, plus lands to support all spawning and life cycles
  
2. Criteria Table/Chart (to identify sub-basin priorities):
  - a. Provide information on how sub-basins are identified.
  - b. Mike reviewed the flow chart used to identify sub-basins.
  - c. Mike reviewed the flow chart for Umbrella Creek as an example.
  - d. Coal Creek is potentially important (sediment deposits at the head of the Ozette River). Does this influence the ranking? What is the rating of Coal Creek?
  - e. High priority research to identify value of Coal Creek to influence critical habitat
  - f. Critical habitat seems to be driving the determination of sub-basin priorities
  
3. Roni Model Flow Chart
  - a. Mike reported on how the tier levels are identified.
  - b. Tiers 5 and 6 were added to provide an opportunity to add new spawning habitat
  - c. New versus historic spawning habitat: create new spawning habitat where streams feed the lake and create new spawning habitat
  
4. Landscape Controls Slide
  - a. Identify relative mortality at each life stage
  
5. Recovery Strategy Hierarchy Slide (refer to chart at end of Attachment II)
  - a. The approach doesn't help capture the idea of re-establishing the population where we know they did exist (i.e., Umbrella Creek delta population). This should not be a low priority.
  - b. We do want to re-establish populations where they used to be
  - c. Maybe Lake Ozette needs to have lake areas to identify key spawning beaches
  - d. Assess different habitat potential for lakes and tributaries
  - e. Key priority: look for suitable spawning habitat where there is no fish currently
  
6. All-Population Segments Slide
  - a. Clarification: the arrows (limiting factors) are not cumulative
  - b. Importance of nearshore marine survival: how are fish using the nearshore? Is it limiting? If so, how?
  
7. General
  - a. Clarification: actions can be done simultaneously (i.e., actions do not have to be done sequentially); processes should be worked on at the same time
  - b. Need to acknowledge how processes relate to each other
  - c. Add a template box for Lake Level Management

- d. Identification of a strategy for “increase sockeye abundance”
- e. Decision tree:
  - i. Predation and marine survival are key
  - ii. Everything seems to be given the same weight? Should that be the case?
  - iii. The big issue is the biological process
  - iv. Don’t want to skew the importance of certain elements
- f. Habitat conditions do affect predation levels
- g. Roni Model: the biological processes are dependent on the physical process; need to focus on the source of the issues

(Recovery Strategy Hierarchy and Notes continue on next page)



**ATTACHMENT III: OZETTE WATERSHED SUB-BASIN PRIORITIES MAP AND DISCUSSION ITEMS**  
**SUB-BASIN PRIORITIZATION**



- PRIORITY I**
- **Lake Ozette**
  - **Ozette River**
  - Umbrella Creek
  - Big River

- PRIORITY II**
- **Coal Creek**
  - Crooked Creek
  - Siwash Creek
  - Elk Creek
  - Unnamed West- and East-side Tributaries

- PRIORITY III**
- Palmquist Creek
  - **Quinn Creek**
  - South Creek
  - **Allen Slough**
  - 20.0079
  - All other Unnamed Tributaries

**COMMENTS:**

1. Water quality factors should be considered as a prioritization criterion.
2. More emphasis should be considered for actual biological potential if rivers and creeks.
3. Should priorities reflect the quality of water contributed to Lake Ozette by specific tributaries?
4. The location of Coal Creek is unique.
5. Consider how to re-prioritize if new information indicates a change in the importance of a river or creek.
6. Consider the possibility of creating sub-priorities for the larger water bodies, e.g., Lake Ozette, Ozette River.
7. Also look at key areas of tributaries for sub-priorities.
8. These priorities are OK as long as they can be re-evaluated later when more information is available

*DISCUSSION NOTES:*

1. The Priority IV rating of Quinn Creek and Allen Slough was questioned. It was recommended that water quality as well as quantity be considered. Question: should water quality be a factor?
2. There is too much emphasis on critical habitat and presence of sockeye and not enough emphasis on the biological potential of the habitat. Question: should biological potential be a factor?
3. Coal Creek is unique among Priority II areas.

**ATTACHMENT IV  
DRAFT STRATEGIES AND ACTIONS TEMPLATES**

**Note: Because of the size of the file, the templates that comprise Attachment IV will be sent as a separate document. For the December 12 meeting, it is identified and distributed as Attachment III as noted on the December meeting Agenda.**

(file name: Draft Strategies and Actions Templates for Input 11-14-06\_rev03)

**Draft Agenda**  
**Lake Ozette Sockeye Steering Committee Meeting**  
Tuesday, December 12, 2006  
Olympic National Park Headquarters Campus, Macy House Meeting Room  
[for location details and directions to facility, see pages 2 and 3]  
10:00 a.m. – 3:00 p.m.

- 10:00 a.m.            **Introductions and Review Agenda**  
Updates and Announcements
- Report-out about NOAA Critical Habitat Coverage (Rosemary Furfey, Tim Tynan)
  - Update on Olympic Coast National Marine Sanctuary (Rosemary Furfey)
  - Update on Clallam County Resolution (Rosemary Furfey)
  - Announcement of NOPEL Posting of Limiting Factors Analysis (Rosemary Furfey) and Update on Executive Summary
- 10:15 a.m.            **Review and Acceptance of November 14, 2006 Meeting Notes and Action Items from Meeting (Attachment 1)**
- 10:20 a.m.            **Review of Recovery Plan Requirements and Schedule (Attachment 2)**  
(Rosemary Furfey, NOAA)
- 10:25 a.m.            **TRT Update and Latest Viability Criteria Document** (Rosemary Furfey)
- 10:45 a.m.            **Recovery Plan Strategies and Actions, 2<sup>nd</sup> Round (Attachment 3)**  
--- Refine Recovery Strategies and Actions worksheets to provide details and specifics
- 12:00 p.m.            **Lunch Break**
- 12:30 p.m.            **Recovery Plan Strategies and Actions, 2<sup>nd</sup> Round (continued)**  
--- Refine Recovery Strategies and Actions worksheets to provide details and specifics
- 2:50 p.m.            **Next Steps and Meetings**
- Update on next meeting date (possibly February 2007 instead of January)
- 3:00 p.m.            **Adjourn**

**Attachments:**

- 1) Draft November 14, 2006 Meeting Notes and Action Items
- 2) Draft Lake Ozette Sockeye Salmon Recovery Plan Schedule and Key Agenda Items
- 3) Recovery Plan Strategies and Actions Worksheets

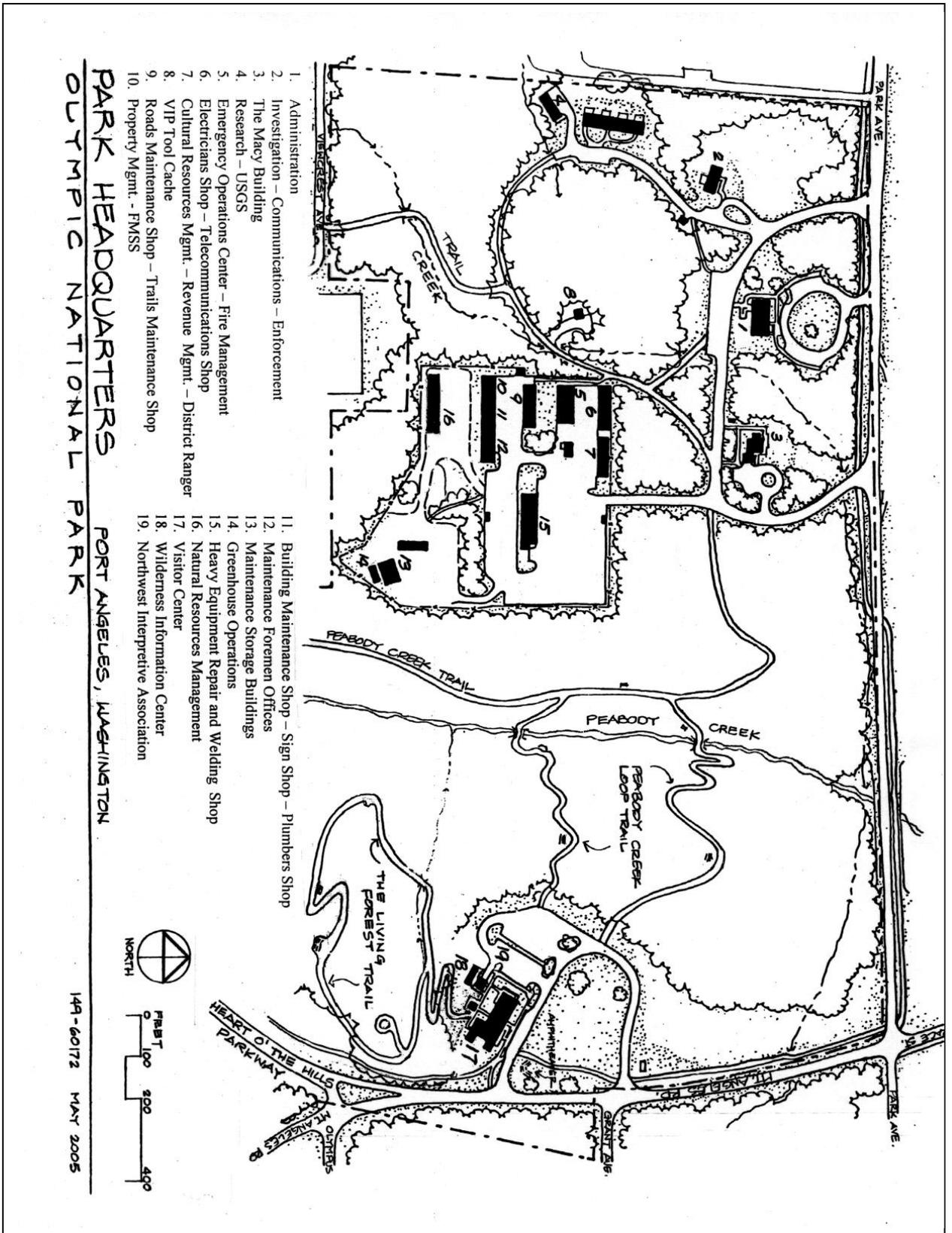
**LAKE OZETTE STEERING COMMITTEE MEETING  
MEETING LOCATION AND DIRECTIONS:**

Olympic National Park, Macy House Meeting Room  
ONP Park Headquarters Map, Page 3 (*see #3, The Macy Building*)  
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(see map on the next page)

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**PARK HEADQUARTERS**  
**OLYMPIC NATIONAL PARK**      **PORT ANGELES, WASHINGTON**

149-60172    MAY 2005

**Lake Ozette Sockeye Steering Committee Meeting  
Facilitator's Meeting Summary**

Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA  
December 12, 2006  
10:00 AM – 3:00 PM

**Participants for the Meeting**

See Attachment I for a list of meeting participants.

**Summary of Recovery Planning Tasks/Actions**

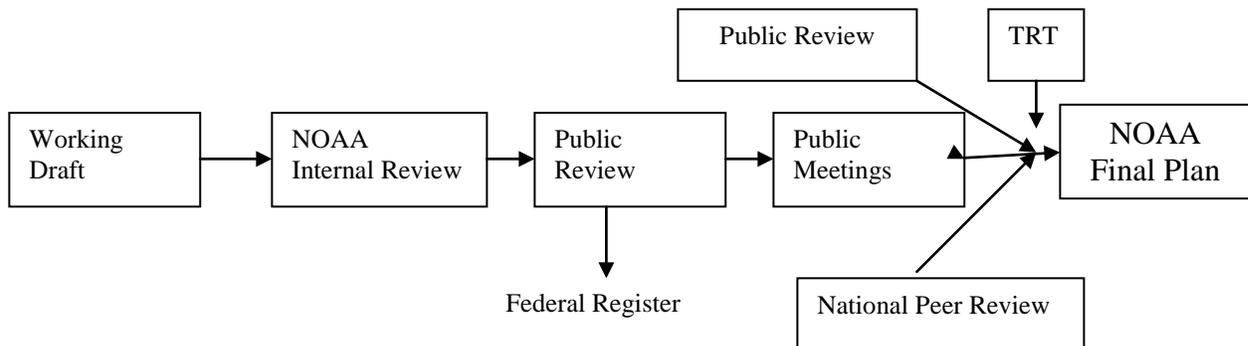
- The December TRT meeting announcement and agenda will be sent to the Steering Committee.
- A draft public information and involvement plan will be developed.
- A revised goals/strategies/actions document that contains additional specificity about goals will be sent to the Steering Committee by December 15 for its review by January 5. The focus of the additional review is more specificity about actions [note: the review deadline was changed to January 12 due to a December 22 distribution.]
- How can actions addressed by the HCP be improved and/or accelerated?
- There will be no Steering Committee meeting in January. Rosemary will schedule the next meeting either in early March (March 6 or 13) or late February (February 27).
- The initial Draft Recovery Plan will be distributed for Steering Committee review and comment at least two weeks before the next scheduled Steering Committee meeting.

**Updates and Announcements**

- **NOAA Critical Habitat:** Rosemary Furfey and Tim Tynan gave a report about NOAA Critical Habitat coverage. There was a question about the lack of nearshore ocean habitat within the Critical Habitat slide (of Mike Haggerty's PowerPoint document). It was noted in discussion that available actions in the nearshore critical habitat are limited. Coal Creek was added through public comment, and the lower 2.5 miles is now designated as critical habitat. Ed Bowen expressed concern about the critical habitat designation process. He considers the process flawed because in his opinion it is not transparent to the public. NOAA Fisheries indicated that for Lake Ozette sockeye, the critical areas appear to be correct, and the information is on the NOAA website.
- **Olympic Coast National Marine Sanctuary Update:** Rosemary Furfey provided an update on the Olympic Coast National Marine Sanctuary. She shared information about the Lake Ozette Recovery Plan with representatives from the Sanctuary, i.e., Carol Bernthal, George Galasso and Liam Antrim. The Sanctuary is updating its Management Plan in 2007. There is an opportunity to add identified monitoring and research needs for the nearshore and ocean environments to the Sanctuary's new management plan. Opportunities also exist to identify future partnerships and funding in order to collect data to meet the needs of the Lake Ozette effort.
- **Clallam County Resolution:** Rosemary Furfey provided an update about the Clallam County Resolution of November 14. She confirmed that the resolution was passed on November 14 and was supportive of the Lake Ozette recovery effort. Rosemary noted that she will update the Clallam County Commissioners as needed once the Draft Recovery Plan is completed. She noted that the Commissioners were very supportive of the effort.
- **NOPE Website and Document Posting:** Rosemary Furfey provided an update about the NOPE website and posting of the Limiting Factors Analysis. She noted that the website is a way for NOPE and NOAA to share information. Posting will be by chapters so the public can easily download the information. This will apply to both the Draft Limiting Factors and Draft Recovery

Plan. As part of the public involvement effort, copies of the document should also be made available in libraries, Peninsula College, etc. The website should also outline clearly where the public can find the materials. Concern was expressed about having posted an earlier version of the LFA if there are revisions within the current version to be posted. Rosemary clarified that the document would be identified as an “internal working draft LFA.”

- It was suggested that a flow chart be prepared that outlines the schedule/plan for the LFA and Recovery Plan.



Process:

1. Internal working draft LFA
2. NOAA writes the Draft Recovery Plan
3. Resource constraints – produce Draft Plan
4. Meet with the Lake Ozette Steering Committee in early March
5. Review Draft: Co-Managers and Steering Committee
6. Post on the website
7. Take comments and response by NOAA
8. New (revised) draft for NOAA internal review (legal, headquarters)
9. New (revised) draft for public, peer review: publish notice in Federal Register; note: peer review beyond that of TRT – national scientists.
10. Comment period – public meetings, workshop(s)
11. Response to comments
12. Final Recovery Plan

It was noted in discussion that responses to comments are provided and that the Final Recovery Plan includes formal responses to the comments. It was further noted that scientists familiar with Lake Ozette will be sought for the Scientist Peer Review. It was suggested that a public review plan be prepared that outlines the dates and includes assurances of ample opportunity for public review and comment.

- **Update on WRIA 20:** Phil Miller reported that WRIA 20 has embarked on a process of negotiation to become a Lead Entity. There is a need to identify the conveners for the Lead Entity. He noted that Cheryl Baumann is currently the Lead Entity Coordinator for WRIA 20 and that there is a tie-in with the Lake Ozette Recovery Plan. This would be the fourth Lead Entity on the coast. Lead Entity possibilities are Clallam County, Forks, Jefferson County, Makah Tribe, Quileute Tribe or the Hoh Tribe. The Governor's Office may hire a consultant-facilitator to assist in this process.
- **Coast Lead Entity Project Update:** An update was provided about the Coast Lead Entity process. It was reported that the group is moving forward, has hired a facilitator and is working to finalize its Work Plan and to identify stakeholders who want to be involved in the process. It was noted that this effort is similar to the Upper Columbia where there is regional coordination and individual lead entities.

- Derek Poon announced that Shared Strategy is in the process of determining how to provide funding. A Recovery Plan that is science based, such as that for Lake Ozette, should become more straightforward to fund.
- DNR is getting ESA coverage in the HCP because of the state-owned aquatic lands in Lake Ozette (they own bottom lands of lake).

### **Review and Acceptance of November 14, 2006 Meeting Notes and Action Items from Meeting**

The following corrections to the November 14 meeting notes were provided:

- Page 1, Updates and Announcements, Olympic Coast National Marine Sanctuary (OCNMS): delete the prior Ed Bowen sentence and replace with the following: Ed Bowen reported that he had attended the OCNMS advisory committee meeting in November and requested the council to consider participating in a nearshore assessment for the purpose of sockeye recovery and in filling data gaps for all salmonid species that may populate the coastline. Steve Franklin, from Olympic National Park and an attending member of the council, responded that monitoring the coastline is difficult; and, that this challenge should be considered by the Recovery Plan in making recommendations in support of an assessment.
- Correct the phone numbers in the attendance chart for Joseph Murray (360-963-2379) and Norm Schaaf (360-452-2367); and correct Ed Bowen's affiliation to read "Ozette Citizen."

The November meeting summary will be revised for the record accordingly.

It was also noted that the CMER acronym was incorrectly extended in the recent Draft Strategies and Actions Templates for Input document. The document will be updated with the correct extension, i.e., Cooperative Monitoring, Evaluation and Research (CMER).

### **Review of Recovery Plan Requirements and Schedule**

Rosemary Furfey reported that NOAA Fisheries is targeting the end of February for the Draft Recovery Plan. She noted that an initial Draft Plan would be distributed to the Steering Committee at least two weeks ahead of its scheduled meeting.

The Draft Limiting Factors Analysis (DLFA) will be posted on the NOPL website as a "working draft". It was noted that the revised DLFA document will have blanks filled in and GIS information.

Rosemary reported that NOAA Fisheries has begun working on the Recovery Plan Executive Summary document.

The ingredients used for the Recovery Plan are:

- Limiting Factors Analysis, TRT,
- Goals/Strategies/Actions,
- Broad Sense Recovery Goals, and
- Vision statement.

The updated Limiting Factors Analysis is needed as soon as possible. Mike Haggerty noted that he has completed segments of it.

The February schedule for the Draft Plan represents a potential time crunch. The possibility exists to simultaneously work on different segments of the documents in order to efficiently produce the sections

of the Plan. It was suggested that the production schedule be practical, especially given the upcoming holidays. Phil Miller recommended that the Draft Plan volume be concise.

### **TRT Update and Latest Viability Criteria Document**

Rosemary noted that Norma Jean could not attend today's meeting. Rosemary reported that she had talked with Mary Ruckelshaus about the viability criteria evaluation they are doing. At this point, the TRT has not made any substantial changes to the original draft, and that they plan to meet to talk about the interaction with Mike Haggerty's Life Cycle Model. The TRT is scheduling a December 21<sup>st</sup> meeting (Seattle Aquarium) to talk about the Life Cycle Model (note: the previously scheduled meeting was canceled due to weather). The TRT meeting announcement and agenda will be sent via email to the Steering Committee members.

Phil Miller asked if the TRT viability criteria could be translated into the Recovery Plan from the TRT report so that it is easily understood. It was indicated that this indeed could be done.

A question was raised about the number of completed Recovery Plans. Derek Poon noted that there are currently three completed Plans with formal NOAA response, i.e., Puget Sound, Lower Columbia and Upper Columbia. Of those three, the first two did not meet the 4F section requirements.

Concern was expressed about how Recovery Plans impact existing laws and requirements. This was responded to with the statement that a Recovery Plan cannot create an obligation or a requirement, but it does provide recommendations and actions that can be implemented by governmental authorities.

Concern was then raised about not requiring changes within the Recovery Plan (i.e., then why bother with producing a Plan?). The FFR meets the rules of the ESA (e.g., recover endangered stock). The response to this question is that the Recovery Plan reinforces what is already required and provides help with funding.

It was noted in discussion that there is language within the ESA about not allowing a "taking" unless there is a HCP which specifies when and under what conditions a "taking" can occur. This led to further discussion on who monitors HCP's. It was stated that NMFS is the enforcement agency, but that they rely a lot on observations and complaints by stakeholders.

Discussion ensued about what an ESA Plan allows and how the ESA recovery plan relates to the Forest and Fish HCP. Derek Poon noted that there is a check and balance between the HCP and the FFR. The listed species is the check. If the species is declining, Section 7 of the ESA is reopened and re-evaluated.

### **Recovery Plan Strategies and Actions, 2<sup>nd</sup> Round**

For the 2<sup>nd</sup> round of activity and input to the Plan strategies and actions, it was noted that the Plan Goals needed more specificity. Essentially, the Steering Committee needs to concentrate on the aspects of "what, where, when, why, how and how much." It was explained that rather than being open-ended, Goals should instead be specific about what one is working toward. A sample Goal statement would be: Restore hydrologic process "to achieve recovery" and "prevent sediment deposits." The idea is to define what the end points for the Goals are. Goal statements are typically fairly general, yet more detail is needed. A suggestion was made to perhaps include "Objectives" as the more detailed component of the goals. A more detailed Goal helps guide the specificity of the corresponding Action.

### **Comments:**

1. All data needs to be shared; citizens should be able to see data. Any data that directly or indirectly relates to the sockeye population/ESU should be made available at-large in implementing the recovery plan. The purpose of making this data available is to support and refine limiting factors analysis, to support isolating additional limiting factors, and to act as a cornerstone in adaptive management. Unpublished and non-peer reviewed reports that are used in development of limiting factors have data that needs to be included in a central database, for use by any and all involved in recovery implementation. The purpose is for cross-checking the relevancy of such data and how it is applied in the report, identifying any fallacies in the use of the data, in identifying further refinement and the need for follow-on investigation into the hypothesis generated from the use of such data. Data that is collected from any form of US/State/County government involvement or funding, and cannot be substantiated to be proprietary in nature, should be made available for public access/scrutiny.
2. Small scale local actions should be added. A mechanism needs to be implemented to solicit and investigate potential actions and strategies that exist at the grass-roots, community-within-the-basin level. A long term understanding and common sense approach to issues that exist within the basin are difficult to capture in the current process; it is essential to the success of the plan to not let the opportunities that may develop from identifying these actions and strategies remain outside of the activities from implementing the recovery plan. At best, actions that are captured in such a process would be small scale and mesh within a specific standard designed and developed for this particular watershed. Small scale should be supported by a simple and speedy concept of identifying the particular project, acquiring funds that aren't limited because of being such small scale, cross line communication with other larger scale/scientific efforts being implemented to support complementing each other, and instituting a quick evaluation process to determine success potential or need for refinement. One additional goal of developing such a mechanism should be to implement the actions and strategies developed from this particular process; besides the probability of having a good understanding of what needs to take place, the responsibility would promote the long term stewardship by having "ownership of the process," a motivational factor that is key in any long term success of recovery.
3. Federal funding: Federal government needs to increase funding for recovery activities. This Plan recognizes a larger percentage of the ESU is under exclusive Federal jurisdiction than other ESA listed salmonids. This plan supports the need for the equivalent to that percentage of funding responsibility originates from a Federal source. This includes basin specific funding that is not co-dependent on the Washington State salmon recovery program (i.e., SRFB). The emphasis is placed on the amount of financial recovery burden on the State and the community at large in comparison to the percentage of ESU that is under the exclusive jurisdiction of the Federal government, regardless of whether such a source is one of a Federal legislative nature (through direct support in competing for established Federal programs, e.g., Department of Interior and Commerce grants), or some other Federal mechanism. Federal funding will require:
  - federal legislation
  - DOI and DOE grant program linkage
  - Direct federal funding
4. For implementation, we want/need a data clearinghouse for implementers to review/use the data.
5. Recovery actions: WDFW – wetland areas; suggest an action to develop a way to identify small scale actions.
6. General Points

- Major impacts are singularly related to forestry activities.
- Actions are too vague; who would implement?
- Industrial forestry is causing impacts; actions to deal with sediment
- Want to strengthen the DNR rules and implementation oversight
- Want independent oversight

It was noted in discussion that there are major impacts that are singularly related to forestry activities. As currently written, the actions are too vague, and it is unknown who would implement them. Of particular concern are actions that deal with sediment. It was suggested that the Washington DNR rules and implementation oversight be strengthened, and that an independent oversight mechanism be initiated. One comment was mentioned that from one forest company perspective, they will not support any action that undermines the forest practices.

7. Anchor Habitat Concept: Consider focusing on specific areas such as:

- Umbrella Creek
- Olsen Beach

It was noted that the document actually gets at the issue of anchor habitats in the sub-basin prioritization.

8. Implementing the HCP: One comment was in support of seeing a reference to implementing the HCP and embracing the HCP as part of the Recovery Plan. An additional action was mentioned of accelerating HCP activities with increased funding.
9. General Topic: There should be involvement and follow-up on how the HCP practices are being monitored and implemented. One member wants evidence that the HCP rules are working or that the regulations are effective. There was a suggestion for a need for an independent group.
10. One desire is to prioritize RMAP forestry actions in key areas.
11. One individual wants to support the HCP and mentioned that the HCP supports the state's Clean Water Act.
12. One thought is that the timber industry should accelerate its activities in the high priority areas.
13. It was suggested that the Shoreline Management Program recommendations be moved to the Riparian Processes.
14. RMAP Actions: The following was suggested:
- Study success or failure of RMAP
  - Provide funding to accelerate RMAP actions
15. One comment is that the goals need to be more specific – what is the “why”
16. For hydrologic processes, one suggestion is to address low flow for smolts in Ozette River
17. Sediment Actions: Some suggested focusing on sediment actions. One comment included meeting Makah water quality standards.

18. It was mentioned that there is a need to be able to answer the question of which actions address the top priorities; link actions to priorities for recovery (link goals to the Limiting Factors).
19. Questions to the Steering Committee regarding the Plan and Plan implementation:
  - Can you support the Plan?
  - Can you support the Plan with qualifications?
  - Are you willing, as a Steering Committee member, to be involved in Plan implementation?
20. Actions and Guidance: It was asked if the actions are prioritized, especially in terms of the sockeye populations. It is critical that the action contributes to meeting the goal.
21. A question was raised as to how we get to clearer goals.
22. It was also suggested that public outreach be added.

#### **Next Steering Committee Agenda Topics (date TBD)**

- Review Comments on the latest version of the Goals/Strategies/Actions document (re: version number 3).
- Recovery Plan Review, Discussions, Comments, and Finalization
- Draft Public Information and Involvement Plan and Schedule
- Implementation

#### **Future Meeting Dates**

The following Steering Committee meeting dates were identified:

- **CANCELED:** ~~Tuesday, January 23, 2007, 10:00 AM to 5:00 PM, Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA~~
- Possibilities for the next Steering Committee meeting (10:00 AM to 3:00 PM) include:
  - Preferred - Tuesday, March 6, 2007; Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA
  - Option - Tuesday, March 13, 2007, Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA; or
  - Option - Tuesday, February 27, 2007, Olympic National Park Headquarters Campus, Macy House Meeting Room, Port Angeles, WA.

The Steering Committee will be notified when the date/time/location information has been confirmed.

The meeting adjourned at 3:00 PM.

**ATTACHMENT I: Lake Ozette Steering Committee Meeting, List of Meeting Participants  
December 12, 2006**

<b>*</b>	<b>Name</b>	<b>Organization</b>	<b>Phone Number</b>	<b>Email Address</b>
*	Caroline Peterschmidt	Makah Tribe	360-645-3175	cpeterschmidt@centurytel.net
*	Coleman Byrnes	Citizen	360-928-1032	swampdog@olyphen.com
*	Dave Christiansen	WA Department of Natural Resources	360-580-0220	david.christiansen@wadnr.gov
*	David Low	WA Department of Fish and Wildlife	360-249-1216	lowdl@dfw.wa.gov
*	Derek Poon	EPA	206-553-4497	poon.derek@epa.gov
*	Don Hamerquist	Citizen	360-963-2413	janeen@olyphen.com
*	Doug Martin	Martin Environmental	206-528-1696	doug@martinenv.com
*	Ed Bowen	Ozette Citizen	360-452-8008	rockypt@olyphen.com
*	Harry Bell	Green Crow	360-452-3325	harry@greencrow.com
*	Ian MacIver	Rayonier	360-374-7226	ian.maciver@rayonier.com
*	Janeen Porter	Citizen	360-963-2413	janeen@olyphen.com
*	Jim Springer	WA Department of Natural Resources	360-374-2818	james.springer@wadnr.gov
*	Joseph Murray	Merrill & Ring	360-963-2378	pysht@olyphen.com
*	J. W. "Bill" Riedel	Citizen	360-963-2567	joan_riedel@yahoo.com
*	Mary McBride	Aide to U.S. Senator Patty Murray	253-572-3636	mary_mcbride@murray.senate.gov
*	Mike Haggerty	Contractor	360-928-0124	mhaggerty@olyphen.com
*	Phil Miller	Governor's Salmon Recovery Office	360-902-2219	phil.miller@esa.wa.gov
*	Seth Barnes	WA Department of Natural Resources	360-902-1396	seth.barnes@wadnr.gov
*	Rosemary Furfey	NOAA Fisheries	503-231-2149	rosemary.furfey@noaa.gov
*	Thom Hooper	NOAA Fisheries	360-753-9453	thomas.hooper@noaa.gov
*	Tim Tynan	NOAA Fisheries, Salmon Recovery Division	360-753-9579	tim.tynan@noaa.gov
*	Bob Wheeler	Facilitator Triangle Associates	206-583-0655	rwheeler@triangleassociates.com

*\*Note: If entry has an asterisk (\*) by the name, it means that the individual is included or has been added to the current Lake Ozette email distribution group.*