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## Attachment 1: Roundtable Membership

<b>Organization</b>	<b>Name</b>	<b>Title</b>
American Rivers	Garrity, Michael	
Benton County Commissioners	Benitz, Max	County Commissioner
City of Yakima	Lover, Bill	City Councilperson
Kittitas County Commissioners	Bowen, David	County Commissioner
Kittitas Reclamation District	Eberhart, Urban	Director
National Marine Fisheries Service	Bambrick, Dale	Regional Director
Roza Irrigation District	Van Gundy, Ron	Consultant
Sunnyside Valley Irrigation District	Trull, James	Manager
Washington Department of Fish & Wildlife	Tayer, Jeff	South Central Regional Director
Yakama Nation	Rigdon, Phil	Deputy Director, Natural Resources Dept.
Yakima Basin Fish and Wildlife Recovery Board	Conley, Alex	Executive Director
City of Yakima	Brown, Dave	Water and Irrigation Division Manager
Yakima Basin Storage Alliance	Morrison, Sid	Chairman
Yakima Basin Water Resource Agency	Milton, Jim	Director
Yakima County Commissioners	Leita, Mike	County Commissioner

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## Attachment 2: Meeting 1 Agenda



Contact: John Petrovsky, JPA, 208-571-1069, [jp@jpaweb.com](mailto:jp@jpaweb.com)\*

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## Agenda

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### Yakima River Basin Water Storage Feasibility Study

#### *Feasibility Analysis & NEPA/SEPA EIS - Phase Initiation Checkpoint: Roundtable Meeting 1*

March 8, 2007, 1 to 4 PM, Yakima Arboretum, Yakima, WA

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#### 1. Introduction (Petrovsky—10 minutes)

- **Introductions: Reclamation/Ecology Team; Roundtable Participants**
- **Purpose of this meeting**
- **Agenda Review**

#### 2. Setting the Stage: Roundtable Purpose, Role, Process

- **Roundtable Formation** (Petrovsky—10 minutes)
  - Why the Roundtable?
  - Purpose, objectives and role
  - Group composition and participation
- **Roundtable Process** (Petrovsky—10 minutes)
  - Duration, number of meetings & schedule
  - Work plan
  - "Rules of engagement" (facilitator, members, technical staff, visitors)
- **Roundtable Perspectives: Q & A, Group formation, process & expectations** (All, facilitated by Petrovsky—15-20 minutes)

#### 3. Meeting 1 Technical Focus: The Storage Study Goals

- **Background** (Petrovsky, McCartney—20-30 minutes)
  - Storage Study authorization & development of water supply goals
  - The 3 Goals: Benchmarks for measuring achievement (to date)
    - Plan Formulation analysis
    - Comments, questions, criticisms
    - Changes since Plan Formulation analysis
  - Benefit/cost ratio: components & relative importance
- **Roundtable Discussion** (All, facilitated by Petrovsky—60-70 minutes)
  - Perspectives on/importance of "firm" water supply for fisheries, irrigation, municipal
  - Revisiting/refining benchmarks for goals achievement
    - Fisheries
    - Irrigation
    - Municipal
    - Role of non-goal-derived benefit factors

#### 4. Wrap-Up: Visitor Comments, Action Items, Next Meeting, Adjourn (Petrovsky, 15-30 minutes)

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**RECLAMATION**  
*Managing Water in the West*

**Yakima River Basin Water Storage  
Feasibility Study**

***Feasibility Analysis & NEPA/SEPA EIS  
(FA/EIS) Phase Initiation Checkpoint:***

**Roundtable Meeting 1  
March 8, 2007**

Prepared by: **JPA**  
John Petrovsky Associates

## **Purposes of this meeting**

- **Explain reasons for, objectives & role of this Roundtable**
- **Confirm rationale for Group composition & expectations of participation**
- **Lay out a process & work plan**
- **Work through objectives for Meeting 1: Storage Study goals & benefits—values, importance, benchmarks for success**

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## Agenda

### ➤ **Setting the Stage**

- **Roundtable Formation** (why? what for? who?)
- **Roundtable Process** (when? how?)
- **Roundtable Member Perspectives** (Q & A/discussion)

### ➤ **Meeting 1 Focus: Storage Study Goals**

- **Background**
  - Storage Study authorization, purposes & water supply goals
  - Benchmarks used to date for measuring success—pro's & con's, status
  - Benefits: categories & relative importance
- **Roundtable Discussion**
  - Value & importance of "firm" supply for each purpose/constituency
  - Refining goals & benchmarks for measuring success

### ➤ **Wrap-Up**

- **Visitor Comments, Action Items, Next Meeting, Adjourn**

## Roundtable Formation

### ➤ **Reasons For Assembling This Roundtable**

- **Stakeholder, public & Tribal commentary**
  - Plan Formulation document: Dec '06 Stakeholder meetings
  - NEPA/SEPA Scoping: Jan '07 meetings & written submissions
- **Concerns & questions regarding**
  - Changing views on water supply goals, needs & benefits
  - Benchmarks/criteria being used to measure goal achievement
  - Alternatives being considered
  - Tools & techniques being used to compare alternatives
  - Factors, approach & level of detail for feasibility analysis
- **Value of "all points of view" collaboration in responding to these concerns & questions**

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## Roundtable Formation

### ➤ Purpose

Help ensure the completeness, effectiveness, efficiency, and acceptability of the Storage Study

### ➤ Objectives

1. Review/revisit importance, values, measures of success in achieving Storage Study goals
2. Discuss role & treatment of primary & secondary benefits
3. Review alternatives being considered
4. Help refine criteria, tools & techniques for alternatives comparison
5. Comment on findings of alternatives comparison
6. Input to factors, methods & level of detail in upcoming analysis

## Roundtable Formation

### ➤ Role

- A forum for exchange of ideas & perspectives
- Input to decisionmaking, based on expertise, background & constituency interests
- Not a formal advisory committee
- Not a decision-making body

### ➤ Group Composition & Participation

- Key constituencies/interests
- Policy/management level, with assistance from technical staff
- Importance of continuity
- Value of collaboration, "cross-pollination"

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## Roundtable Process

### ➤ Duration, Number of Meetings & Schedule

- **Primary work effort: March through mid-April '07**
- **3 meetings at three-week intervals**
  - Meeting 1: March 8, 2007 (1 to 4 PM)  
*(Work prior to meeting 2)*
  - Meeting 2: March 29, 2007 (same time, same venue)  
*(Work prior to meeting 3)*
  - Meeting 3: April 12 or 19, 2007 (same time, same venue)
- **4<sup>th</sup> meeting—need and timing TBD** (may be needed to complete Roundtable work plan or as checkpoint during FA/EIS analysis)

## Roundtable Process

### ➤ Work Plan—Meeting 1

#### Meeting Content

- Setting the stage
- Work through objectives 1 & 2
  - Storage Study purposes & goals—relative importance, benchmarks
  - Secondary benefits—treatment in analysis

#### Work Prior to Meeting 2

- Reclamation: [1] Begin incorporating refined goal achievement benchmarks into operations models, [2] define range of alternatives for Roundtable comment
- Roundtable Members (e.g. technical staff): Assist with completing refined goal achievement benchmarks—criteria for comparing alternatives
- JPA: Document results of meeting 1, monitor technical work, prepare materials for meeting 2 (adjust process as needed)

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## Roundtable Process

### ➤ Work Plan—Meeting 2

#### Meeting Content

- Status/completion of benchmarks—criteria for comparing alt's
- Work through objectives 3 & 4
  - Alternatives (storage, nonstorage; structural, nonstructural; in-Basin, out-of-Basin; physical, operational)
  - Tools & techniques for comparing alternatives

#### Work Prior to Meeting 3

- Reclamation: [1] Finish operations models -- refined goal/benefit criteria, [2] Final range of alternatives, [3] Analyze alternatives.
- Roundtable Members (e.g. technical staff): Refine criteria, tools & techniques for alternatives comparison
- JPA: Document results of meeting 2, monitor technical work, prepare materials for meeting 3 (adjust process as needed)

## Roundtable Process

### ➤ Work Plan—Meeting 3

#### Meeting Content

- Results of alternatives analysis/comparison
- Work through objectives 5 & 6
  - Input to Reclamation/Ecology decision on FA/EIS alternatives
  - Input on factors, methods, levels of detail in FA/EIS analysis

#### Work Subsequent to Meeting 3

- Reclamation: Full-on press to complete FA/EIS work on schedule
- Roundtable Members (e.g. technical staff): Potential for continuing technical coordination/contribution
- JPA: Document results of meeting 3 and provide report on overall Roundtable process & results
- *(All: Consider value of/need for meeting 4 — purpose, timing)*

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## **Roundtable Process**

### ➤ **Rules of Engagement**

- **Role of facilitator**
  - Moderator
  - “On-time”
  - “On-topic”
  - Achieving meeting objectives
- **Roundtable members**
  - Mutual respect
  - Listening as well as talking
  - Value of others’ points of view
- **Technical staff**
  - Input/participation only as requested by Roundtable members
- **Visitors**
  - Welcome to observe
  - No participation in main meeting
  - Opportunity to comment at end of meeting

## **Roundtable Member Perspectives**

- **Q & A on Group Formation & Process**
- **Roundtable Members’ Expectations & Concerns**

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## Technical Focus: Storage Study Goals & Benefits

### ➤ Background

- Storage Study authorization/purposes
- Goals—measuring success in meeting the 3 purposes
  - Benchmarks used in Plan Formulation document (PFD)
  - Comments, questions, criticisms
  - Changes since PFD—current status
- Benefits: categories & relative importance

### ➤ Roundtable Discussion

- Importance of “firm” water supply—each purpose/constituency
- Refining goals—benchmarks/criteria for measuring success
  - Each in turn: Fisheries, Irrigation, Municipal
  - Concept of a range (e.g. minimum, moderate, optimal)
  - Treatment of secondary benefits
  - The “big picture” meeting all the goals & optimizing B/C ratio

## Storage Study Authorization/Purposes

### ➤ **Federal** (Reclamation, via PL 108-7 Sec. 214 - 2/20/03):

#### ***“...options for additional water storage...emphasis...”***

- *Potential Black Rock Reservoir and*
- *Benefit...to*
  - *endangered & threatened fish [aquatic habitat]*
  - *irrigated agriculture*
  - *municipal water supply”*

### ➤ **State** (Ecology, via 2003 Washington State Legislative session):

#### ***“...contract with Reclamation...water storage projects in the Yakima River Basin...”***

- *Consistent with the Yakima River Basin Water Enhancement project P.L. 103-434...*
- *Initial feasibility study...Black Rock reservoir”*

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## Goals—Measuring Success

### Aquatic Habitat

#### Benchmarks/Criteria in PFD:

- “...*Improve anadromous fish habitat by restoring the flow regimes of the Yakima and Naches Rivers to more closely resemble the natural (unregulated) hydrograph.*”
- Instream flow criteria
  - Parker gauge
  - Cle Elum River

## Goals—Measuring Success

### Aquatic Habitat

#### Stakeholder comments on PFD Benchmarks/Criteria:

- “...*more closely resemble the natural (unregulated) hydrograph*” is too vague
- Instream flow targets are:
  - Too few—need to define reach-by-reach
  - “Lowest common denominator” (potential for higher, more optimum performance by alternatives is not measured)
  - Inconsistent among alternatives
- Potential role of habitat restoration along with flow changes is not addressed/explored

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## Goals—Measuring Success

### Aquatic Habitat

#### Changes since PFD—current status:

- Work ongoing to define more specific instream flow targets (details later in this meeting)
  - Technical team at present: Reclamation, WDFW, Yakama Nation
- Issues & Sideboards:
  - Level of detail appropriate to the decisions at hand
  - The main focus: timing, volume & location of flows
  - If desirable, encompass future potential for habitat manipulation in setting target flows
  - Question of setting minimum, preferred & optimum flows—each reach, each season

## Goals—Measuring Success

### Irrigated Agriculture

#### Benchmarks/Criteria in PFD:

- “... water supply for proratable irrigation water rights in dry years ... not less than 70-percent ... at diversions subject to proration”

#### Stakeholder comments on PFD Benchmarks/Criteria:

- Benefit only to a limited number of irrigators
- Ability & willingness to pay may not support this goal
- 70% may be too aggressive; something less may be workable.

#### Changes since PFD—current status:

- Work ongoing to define more specific proratable irrigation water needs

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## Goals—Measuring Success

### Municipal Demands

#### Benchmarks/Criteria in PFD:

- “Meet future municipal water supply *additional surface water supply for population growth to the year 2050*”
  - 10,000 acre foot (af) need used in PFD analysis
  - 82,000 af potential need (if mitigation for future groundwater withdrawals is required).

#### Stakeholder comments on PFD Benchmarks/Criteria:

- Inadequate definition of need...
- If it's 10,000 af, smaller “yield” alternatives might achieve the goal
- If it's 82,000 af, smaller projects/actions may not...

## Goals—Measuring Success

### Municipal Demands

#### Changes since PFD—current status:

- 10,000-acre-foot need still set in operations models
- Outstanding questions:
  - Is 10,000 acre feet still the correct minimum benchmark?
  - Is requirement for mitigation of future groundwater withdrawals likely (should it be assumed as a “worst case” scenario for testing water storage/supply alternatives)?
  - Is there a performance range (minimum to optimum) appropriate for this purpose/goal?

## Benefit Perspectives

### Indications from PFD analysis (using upper end estimates)

Benefit Category	% of Benefits by Category		Storage Study Purpose?
	Black Rock	Wymer +	
Fishery (use & nonuse)	<b>51%</b>	<b>68%</b>	<b>Yes</b>
Recreation (NED)	31%	15%	No
Hydropower	10%	not calculated	No
Irrigation	<b>5%</b>	<b>9%</b>	<b>Yes</b>
Municipal	<b>3%</b>	<b>8%</b>	<b>Yes</b>

## Roundtable Discussion

**1. Relative importance of “firm” water supply for fisheries, irrigation, municipal** (general perspectives)

**2. Refined goal-achievement benchmarks/ criteria** (getting specific)

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Fisheries</li> <li>• Irrigation</li> <li>• Municipal</li> </ul> |  | <p>Including perspectives on using</p> <ul style="list-style-type: none"> <li>• minimums only</li> <li>• optimums only</li> <li>• a performance range (e.g. minimum, moderate, optimum)</li> </ul> |
|--|--|--|
- Role of secondary benefits

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***Note: Following are Reclamation's slides setting the stage for Roundtable discussion of Fisheries, Agriculture & Municipal water supply benchmarks/criteria...***

## **Fisheries Goal**

### **Phase 1—In-Stream Flow Needs**

**The fundamental question is...**

**Approximately how much water do we need for in-stream flows?**

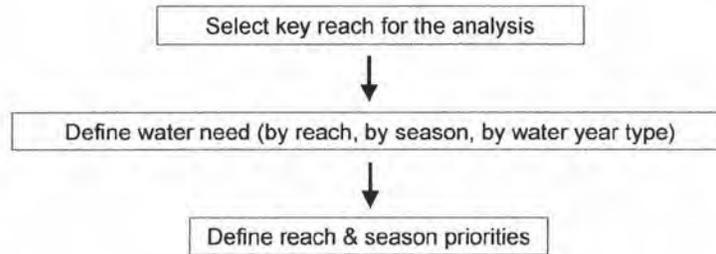
**Is it a small, medium or large bucket?**



# Aquatic Ecosystem Habitat

## Determining In-Stream Flow Needs/Benchmarks & Defining Operational Scenario(s)

Proposed Approach: Phase 1- Estimating "Water Blocks"



### Phase 1—Reach & Season Breakdown



#### 5 Key Reaches

- Cle Elum River
- Easton
- Upper Yakima R.
- Lower Naches
- Wapato

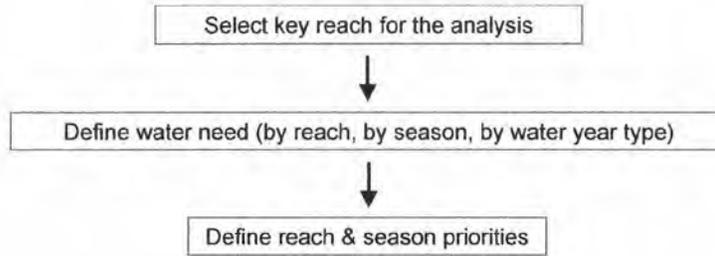
#### 3 Seasons

- Spring (Mar-Jun)
- Summer (Jul-Oct)
- Winter (Nov-Feb)

# Aquatic Ecosystem Habitat

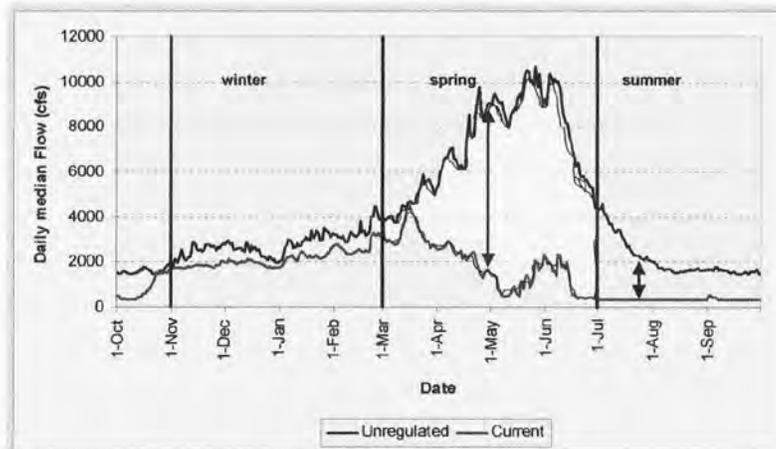
## Determining In-Stream Flow Needs/Benchmarks & Defining Operational Scenario(s)

Proposed Approach: Phase 1- Estimating "Water Blocks"



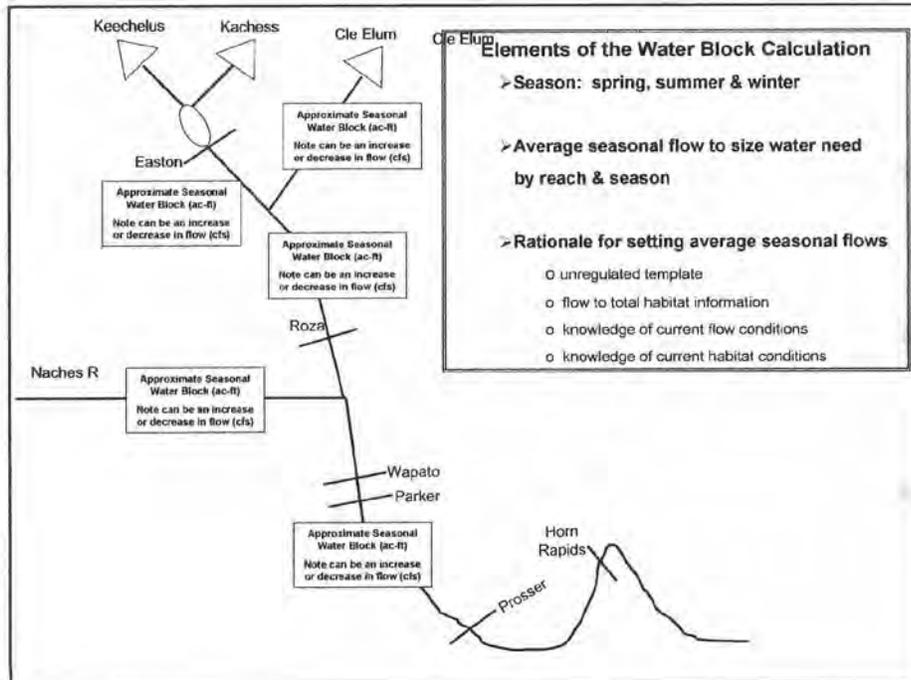
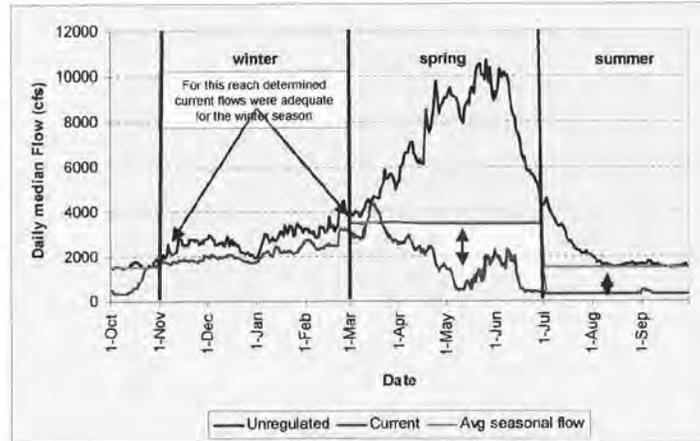
### 1<sup>st</sup> Round

Looked at the daily differential (+/-) in flow between current and unregulated flows.



## 2<sup>nd</sup> Round

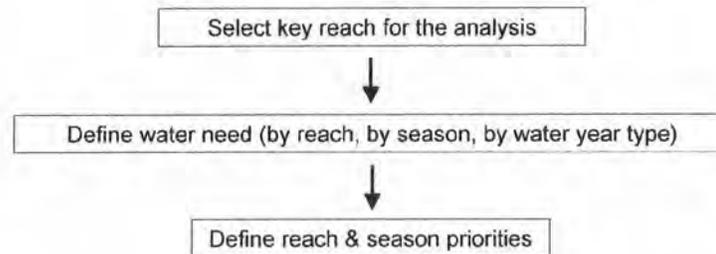
Looked at the daily differential (+/-) in flow between current and average seasonal flows.



## Ecosystem Aquatic Habitat

### Determining In-Stream Flow Needs/Benchmarks & Defining Operational Scenario(s)

#### Proposed Approach: Phase 1- Estimating "Water Blocks"



#### Phase 1: Define Reach Priorities

- The Goal Is To:

- Prioritize the key reaches in order of importance by water year type.

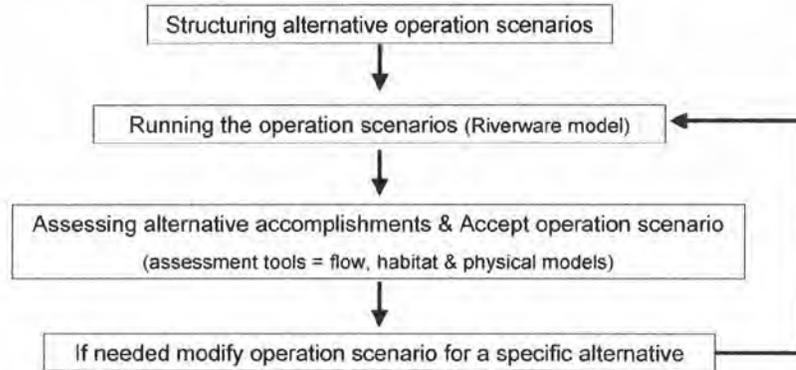
- Addressing Issues such as:

- How to allocate resources for an average vs. wet vs. dry water year,?
  - Which reach and/or season has 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> priority?
- What is the biological or ecological objective?

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## Aquatic Ecosystem Habitat Determining In-Stream Flow Needs/Benchmarks & Defining Operational Scenario(s)

Proposed Approach: Phase 2- Assessing Alternative Accomplishments



### Action Item

The Storage Study Technical Work Group needs to meet soon.

➤ Objectives-

1. Clarify the purpose of estimating the in-stream flow need.
2. Reclamation describe the methodology used to estimate the water need for instream flows.
3. Modify methodology as needed and revise water need estimate.

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## Irrigated Agriculture Goal

- **Proratable irrigation water rights holders - 70% water supply**
  - *Watershed Management Plan*, early 2000's
  - Used as the goal in Storage Study operations studies
- **Discussions with largest proratable water right holders**
  - Sunnyside Division – do not require 70% for their proratable water rights
  - Roza Division – could use up to 100 KAF in dry years
  - Wapato Irrigation Project – would require 70%
  - Kittitas Reclamation District – would require 70%
- **Reduce dry year water needs from 422KAF to about 370KAF**

## Municipal Goal

- **Surface (17%) and Groundwater (83%)**
  - *Watershed Management Plan*, early 2000's
    - 82,000 acre feet future need (2050) estimated for Yakima Basin
    - Assumed mitigation for groundwater/surface water connectivity
  - *Yakima River Basin Storage Alternatives Appraisal Assessment*, May 2006
    - 10,000 acre feet for current surface water users (Yakima & Cle Elum)
  - *Technical Information and Hydrologic Analysis for Plan Formulation*, November 2006
    - Potential need for 82,000 if mitigation is required by State
- **Mitigation – purchase water rights, use new surface water supplies**

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## **Wrap UP**

- **Visitor Comments** (if needed)
- **Action Items**
  - Reclamation/Ecology
  - Roundtable members
  - JPA
- **Next Meeting**

**Adjourn**

**Yakima River Basin Water Storage Feasibility Study: Feasibility Analysis & NEPA/SEPA EIS Phase Initiation Checkpoint**

**Roundtable Meeting 1**

March 8, 2007 - Yakima Arboretum, Yakima, WA

Attachment 4: Meeting 1 Attendance List (Sign-In Sheets)

NAME	ORGANIZATION	STREET ADDRESS	CITY/STATE/ZIP	TELEPHONE	EMAIL
Tom Carpenter	YBSA	400 W Carpenter Rd	Conroy 98932	945-1303	TomC@best.com
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John Easterbrooks	"	130 N. Cottonwood Rd.	" 98908	457-9330	eastejoe@dfw.wa.gov
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M. Mayer	WEC	615 Second Ave	Seattle WA	206-622-5125	michael@wecprojects.org
Dale Bambrick					
Max Benitz					
PHIL BEWELL	Yakima NDFON	Transton P.O. Box 151			

**Yakima River Basin Water Storage Feasibility Study: Feasibility Analysis & NEPA/SEPA EIS Phase Initiation Checkpoint**

**Roundtable Meeting 1**

March 8, 2007 - Yakima Arboretum, Yakima, WA

NAME	ORGANIZATION	STREET ADDRESS	CITY/STATE/ZIP	TELEPHONE	EMAIL
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