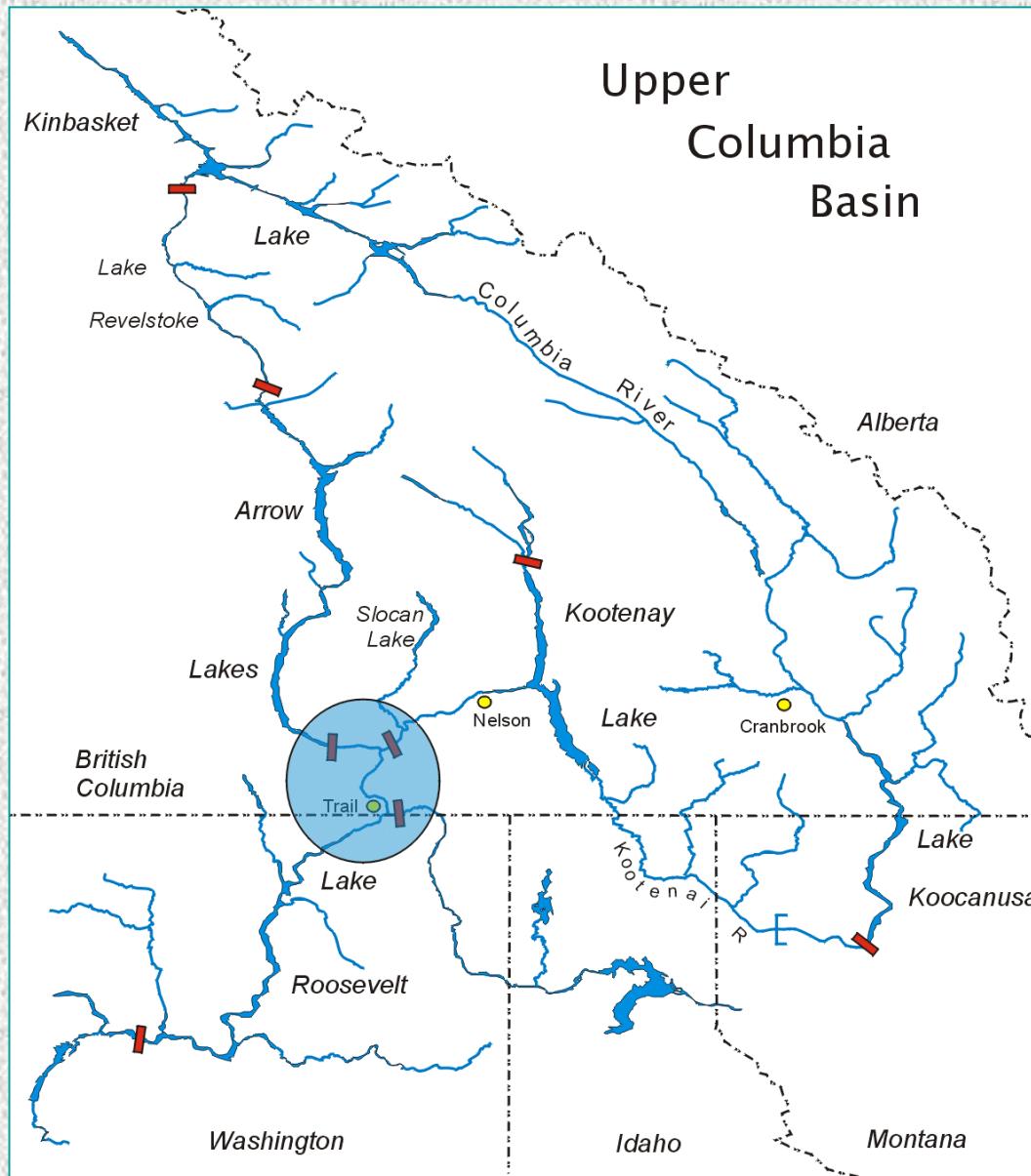


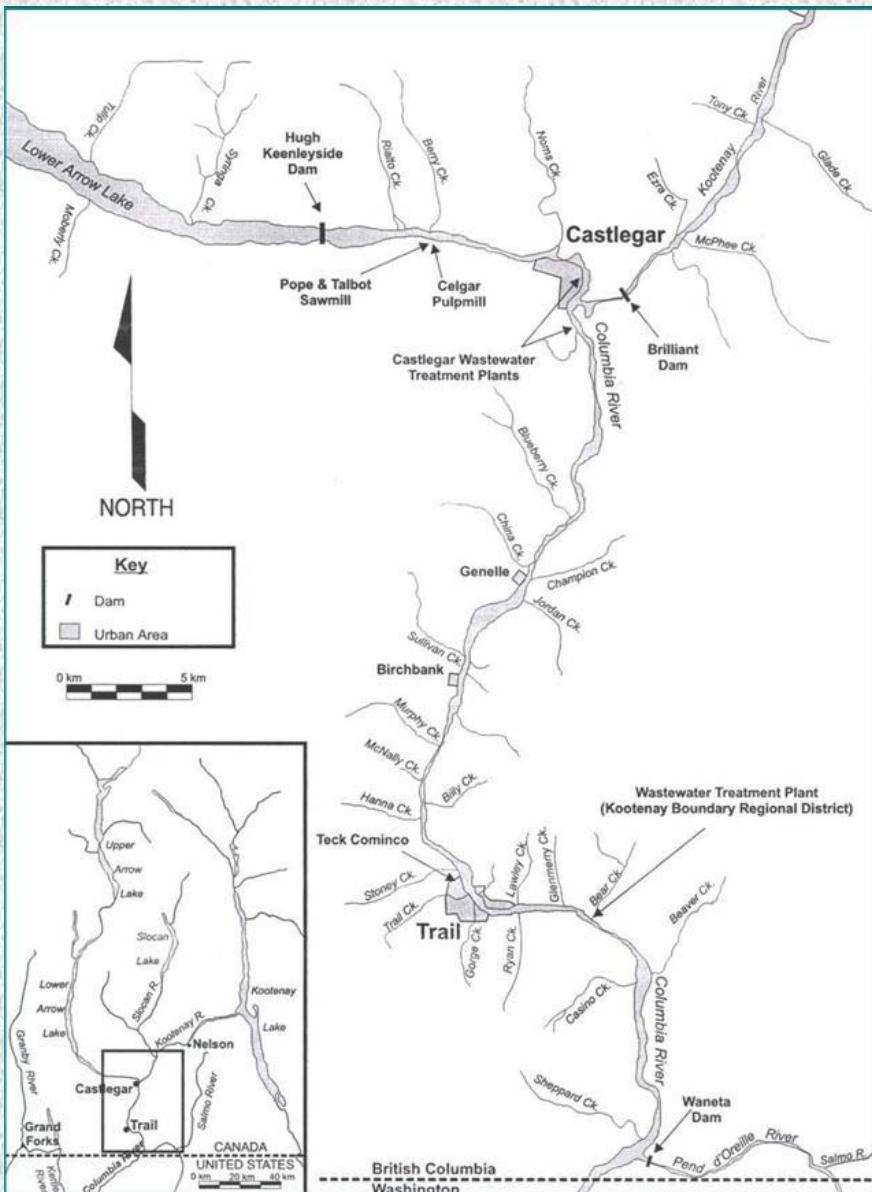
# CRIEMP II

## The Next Generation



Julia Beatty, R.P.Bio  
Environmental Quality Section Head  
Environmental Protection Division  
Kootenay Region  
Nelson BC





# Columbia River: Arrow Lakes to US Border



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# CRIEMP

*Columbia River Integrated Environmental Monitoring Program*

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# CRIEMP

*Columbia River Integrated Environmental Monitoring Program*

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## What is CRIEMP?

- Concept discussed in 1990
- Changes to environmental quality of river anticipated
- Needed to address multiple impacts
- Brought together industry, municipalities and regulators for a common purpose



## CRIEMP Members

- **Celgar Pulp Co**
- **Fisheries & Oceans**
- **City of Trail**
- **BC Water, Land and Air Protection**
- **UtiliCorp Canada**
- **Columbia Basin Trust**
- **City of Nelson**
- **Lake Roosevelt WQ Council**
- **Environment Canada**
- **TeckCominco**
- **BC Hydro**
- **Pope and Talbot**
- **City of Castlegar**
- **Columbia Power Corp**
- **Ktunaxa/Kinbasket Tribal Council**



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## First CRIEMP Initiative

- 1991-93 CRIEMP on Columbia River
- Data Report March 1993
- Biomonitoring Report June 1993
- Final Interpretive Report June 1995
- Public consultation on study



## Post 91-93 CRIEMP Study Activities

- Sharing data & co-ordinate monitoring
- DFO Fish Health Study 1992-96
- CRIEMP TGP Sub-Committee
- BC Hydro TGP Survey/Studies
- Cominco River Survey 1995-99



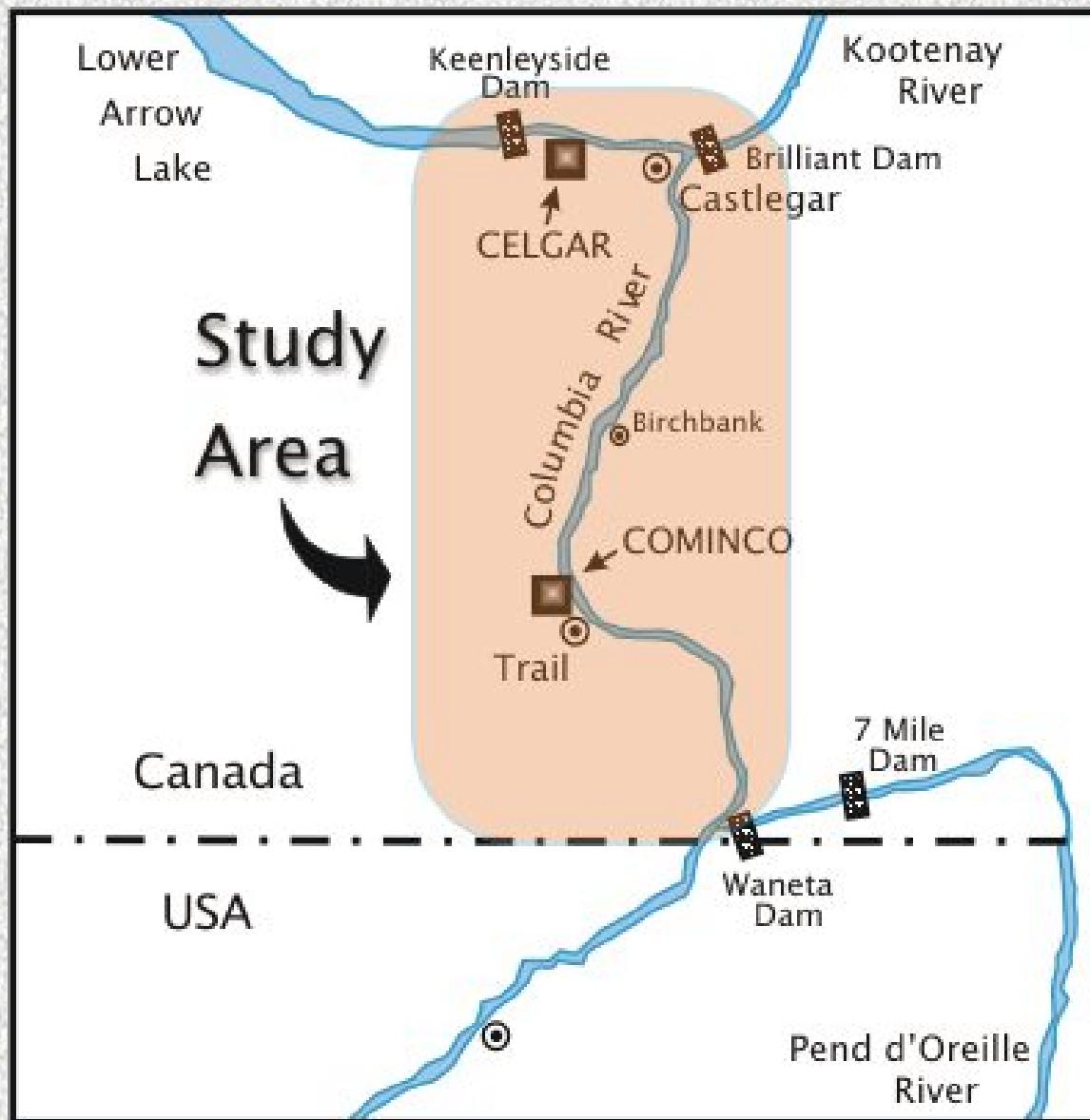
## 2001 CRIEMP Committee

- Committee expanded again
- Celgar Pulp Co. and Cominco have completed major upgrades and improvements
- Now need to conduct a CRIEMP II to compare conditions in 1992 with 2002



# CRIEMP

## *Columbia River Integrated Environmental Monitoring Program*



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## November 2001 G3 Consulting Ltd.

- review/assess existing environmental information from 1990 to present,
- identify data gaps & recommend study design to fill those gaps,
- address state of ecological health of the river,
- define cumulative impacts
- assign cause and effect relationships between effects & human activities on the river



## Status of CRIEMP II

Options for optimizing implementation of CRIEMP II study with others planned for 2002/03 by other agencies or entities.

- Celgar EEM Cycle 3
- WLAP Objectives monitoring
- TeckCominco EcolRA studies



## Status of CRIEMP II

CRIEMP Technical Review team has sent back comments for G3 to address

Study funding now being put together  
(WLAP has just contributed 75K to assist)

Hope to implement study by August 2002



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## Benefits of a CRIEMP Approach

- Cost effective monitoring
- Studies address multiple issues in integrative manner
- Studies benefit multiple parties
- Integrative studies provide management goals for industry and government

