

# Osoyoos Lake Water Science Forum

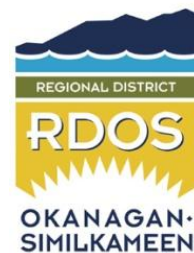


Photo by Dan Miller

**SHARED WATER, SHARED FUTURE: BRIDGES TO  
SUSTAINABILITY FOR OSOYOOS LAKE**

**SEPTEMBER 18 – 20, 2011  
OSOYOOS B.C., CANADA**

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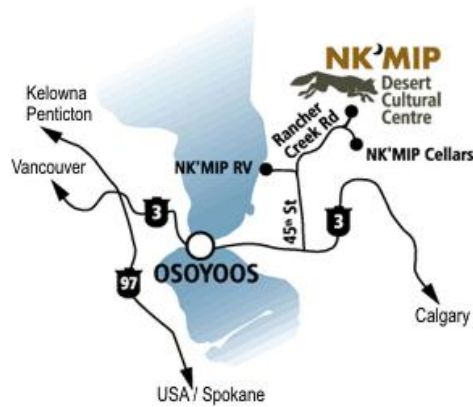
1000 23rd Ave  
Oroville, Washington  
98844  
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**Venues:**           **SUNDAY, SEPTEMBER 18**  
**WELCOMING RECEPTION:**  
**Nk'Mip Desert Cultural Centre**  
**1000 Rancher Creek Rd., Osoyoos B.C., Phone: (250) 495-7901**

**MONDAY, SEPTEMBER 19 AND TUESDAY, SEPTEMBER 20**  
**FORUM:**  
**Sonora Community Centre**  
**8505 68th Ave., Osoyoos B.C., Phone: (250) 495-6562**

***Nk'mip Desert Cultural Centre***



***Sonora Community Centre (arrow on inset map)***





# Agenda

## Sunday, September 18

### Welcome reception at Nk'mip Desert Cultural Centre

**4:00–7:30 pm**    **Welcome reception**

- **Registration**
- **Welcome**  
Stu Wells, Mayor Town of Osoyoos;  
Chief Clarence Louie, Osoyoos Indian Band;  
Walt Hart III Councilor Oroville WA.
- **Opening Prayer**  
Elder Modesta Osoyoos Indian Band
- **Overview of First Nations aspirations**  
Joe Peone, Confederated Tribes of the Colville Reservation  
Howie Wright, Okanagan Nation Alliance
- **Welcoming Political remarks**  
Senator Bob Morton,  
MLA John Slater,  
MP Alex Atamanenko
- **Wine and Cheese Social**

## Monday, September 19

### Sharing Water Science (at Sonora Community Centre)

**7:00-8:00 am**    **Registration and Coffee**

**8:00–8:20 am**    **Welcome to Osoyoos Lake Water Science Forum**

- **Welcomes and opening remarks**  
Anna Warwick Sears - Executive Director Okanagan Basin Water Board
- **Opening prayer**  
Elder Modesta - Osoyoos Indian Band
- **Town of Osoyoos Welcome**  
Stu Wells - Mayor Town of Osoyoos

**8:20–9:20 am**    **Setting the Stage. Moderator: Clint Alexander, ESSA Technologies**

- **The Challenge of Managing Water as a Vital Resource to Sustain Aquatic Ecosystems and Human Systems in the Okanagan Valley**  
Kim Hyatt - Research Scientist, Fisheries and Oceans Canada, Pacific Biological Station in Nanaimo B.C.; Brian Symonds - Director of Regional Operations with the Water Stewardship Division of the B.C. Ministry of Forest Land and Natural Resource Operations; and John Wagner - Environmental Anthropologist at UB.C. Okanagan
- **The International Joint Commission's Osoyoos Lake Board of Control; One Part of the Picture**

Cindi Barton - Chair, U.S. Section, International Osoyoos Lake Board of Control and Director, U.S. Geological Survey, Washington Water Science Center

- **2011 OLWSF overview/expectations.**

Clint Alexander - Team Leader / Technical Architect, ESSA Technologies Ltd., Kelowna, B.C.

**9:20–10:00 am Climate Variation and Change. Moderator: Nelson Jatel, Okanagan Basin Water Board.**

- **Okanagan Basin Climate Studies**

Denise Neilsen - Research scientist with Agriculture and Agri-Food Canada at PARC, Summerland, B.C. and an adjunct professor at UBCO

- **An investigation of methods for including climate change information in Orders of Approval (IJC Task 6)**

Brian Guy, Ph.D. - Summit Environmental

**10:00–10:20 am Break - Posters session open**

**10:20 –12:00 pm Water Quantity. Moderator: Irene Brooks – International Joint Commission**

- **Water Supply and Demand Study**

Anna Warwick Sears, PhD. - Executive Director Okanagan Basin Water Board

- **Okanagan Basin hydrologic connectivity study**

Nelson Jatel - Water Stewardship Coordinator at Okanagan Basin Water Board

- **Factors that govern Osoyoos Lake levels during floods, and channel capacity monitoring on the Okanogan River**

Brian Guy, PhD - Summit Environmental

- **An assessment of water levels for Osoyoos Lake during drought years**

Michael Barber, B.Sc., M.S.C.E., Ph.D.- Professor at Washington State University and Director of the State of Washington Water Research Center.

- **Evaluating the declaration of drought and managing levels on Osoyoos Lake**

Don Dobson, PEng,- Senior Water Engineer, Urban Systems Ltd. Jim Mattison, Professional engineer with a Masters degree in Natural Resources Management and 30 years of experience in resource management primarily related to water resources.

**12:00 -1:00 pm Lunch**

**1:00–2:40 pm Water Quality. Moderator: Craig Nelson- Okanogan Conservation District.**

- **Groundwater Resources in Osoyoos**

Sean Fleming - Senior Hydrogeologist for the Pacific and Yukon with Environment Canada

- **Estrogen and Waste Water Treatment: Recent Findings & Next Steps**

Jeff Curtis, PhD. - Head of Chemistry & Earth and Environmental Sciences at UB.C. Okanagan

- **Effects of Zosel Dam Water Regulation on Osoyoos Lake Water Quality**  
Marc Beutel, - B.Sc., M.S., Ph.D. Associate Professor in the Civil and Environmental Engineering Department at Washington State University.
- **An update of the Osoyoos Lake water quality objectives: reference points for water resource management**  
Vic Jensen, B.Sc. M.Sc. - Ministry of Environment B.C.
- **Adapting the Fish-and-Water Management Tools (FWMT) Decision Support System to Balance Water Regulation Objectives for an Expanded Range of Sensitive Aquatic Biota**  
Kim D. Hyatt - Research Scientist, Fisheries and Oceans Canada, Pacific Biological Station in Nanaimo B.C.

**2:40–3:00 pm Break**

**3:00- 4:00 pm Fisheries and Species at Risk. Moderator: Chuck Brushwood – Colville Confederated Tribes**

- **Habitat Rehabilitation in the Okanogan River Sub-basin since 1997.**  
Chris Fisher, B.S., M.S. - Fisheries Biologist with the Colville Confederated Tribes
- **Salmon return efforts: Okanagan Nation Alliance**  
Karilyn Alex, MS.- Fisheries biologist at the Okanagan Nation Alliance Fisheries Department, Penticton, British Columbia, Canada
- **Investigating methods for including ecosystem requirements in Orders of Approval**  
Cailin Huyck Orr, Ph.D. Assistant Professor at the School of Earth and Environmental Sciences at the University of Washington.

**4:00–5:00 pm Sharing Water Science: Panel Synthesis and Questions from the floor. Moderator: Anna Warwick-Sears**

- **Michael Barber**, B.Sc., M.S.C.E., Ph.D.- Professor at Washington State University and Director of the State of Washington Water Research Center.
- **Cindi Barton** - Chair, U.S. Section, International Osoyoos Lake Board of Control and Director, U.S. Geological Survey, Washington Water Science Center.
- **Jeff Curtis**, PhD. - Head of Chemistry & Earth and Environmental Sciences at UBC Okanagan
- **Chris Fisher**, B.S., M.S.- Fisheries Biologist with the Colville Confederated Tribes
- **Brian Guy**, Ph.D. - Summit Environmental.
- **Denise Neilsen** - Research scientist with Agriculture and Agri-Food Canada at PARC, Summerland, B.C. and an adjunct professor at UB.C.O
- **Howie Wright**, M.Sc., R.P. Bio. - Senior Fisheries Biologist, Okanagan Nation Alliance Fisheries Department

**5:00 pm Adjourn**

## Tuesday, September 20

### Ensuring Sustainability (at Sonora Community Centre)

- 7:00–8:00 am Registration and Continental Breakfast.**
- 8:00–8:10 am Welcoming and Focusing comments**  
Stu Wells – Mayor Town of Osoyoos
- 8:10–9:50 am Local Actions. Moderator: Ford Waterstrat – Resident of Oroville**
- **Osoyoos Lake milfoil control by the Okanagan Basin Water Board**  
Dave Caswell - Okanagan Basin Water Board Milfoil Control Program.
  - **Aquatic Weed Control in Washington, an overview focusing on Eurasian Water milfoil**  
Jennifer Parsons, B.Sc., M.Sc.- Aquatic Plant Specialist at the Washington Department of Ecology
  - **Okanagan Watershed Plan – Purposefully Taking the Long Road in Water Management**  
Craig Nelson - Okanagan Conservation District, District Manager
  - **Town of Osoyoos: infrastructure work e.g. Osoyoos Lake Northwest Sewer Project**  
Phil Armstrong, B.A. - Planning Technician, Town of Osoyoos, Osoyoos B.C.
  - **City of Oroville: development, planning trends, water impacts; what's allowed in terms of foreshore alteration**  
Chris Branch B.Sc.- Community Development Director City of Oroville.
- 9:50–10:10 am Break - Posters Session Open**
- 10:10–11:50 am Conservation and Governance. Moderator: Anna Warwick Sears – Okanagan Basin Water Board**
- **The value and function of natural and constructed wetlands**  
Kurt Kerns - President Wetlands Pacific Corporation
  - **A stakeholder approach to lake planning**  
Phil Armstrong, B.A.- Planning Technician, Town of Osoyoos, Osoyoos B.C.
  - **Osoyoos Lake Foreshore Inventory Mapping project**  
Jason Schleppe, M.Sc., R.P.- Principal Ecoscape Ltd.
  - **Water Conservation: Attitudes and actions in the Okanagan**  
John Janmaat, Ph.D. - Associate Professor of Economics University of British Columbia Okanagan.
  - **The 'New' Columbia River Treaty: Should the Okanagan be included?**  
John Wagner Ph.D. - Environmental Anthropologist at UB.C. Okanagan.
- 11:50–1:00 pm Lunch**
- 1:00–2:00 pm Conservation and Governance (continuation). Moderator: Tom Siddon**
- **The International Joint Commission's Bi-national Hydrographic Data Harmonization Effort: International Columbia Basin Perspective**

Michael T. Laitta - Geographic Information Systems Coordinator at International Joint Commission.

- **The International Joint Commission and the Osoyoos Review of Orders**

Tom Mc Auley - Senior Engineering Advisor at the International Joint Commission.

Mark F. Colosimo, Ph.D.- Engineering Advisor, U.S. Section International Joint Commission, U.S. Department of State

- **Progress since the inaugural 2007 Osoyoos Lake Water Science Forum and the path forward.**

Clint Alexander - Team Leader / Technical Architect, ESSA Technologies Ltd., Kelowna, B.C.

**2:00–2:15 pm**      **Break**

**2:15–3:45 pm**      ***Panel 2: Ensuring Sustainability: Panel Synthesis and Questions from the floor. Moderator: Tom Siddon***

- **Chris Branch**, B.Sc.- Community Development Director City of Oroville.
- **Kim Hyatt** - Research Scientist, Fisheries and Oceans Canada, Pacific Biological Station in Nanaimo B.C.
- **Richard Moy** - International Joint Commission Commissioner
- **Craig Nelson** - Okanogan Conservation District, District Manager
- **Brian Symonds** - Director of Regional Operations with the Water Stewardship Division of the B.C. Ministry of Forest Land and Natural Resources Operations
- **Anna Warwick-Sears** - PhD. Executive Director Okanagan Basin Water Board.
- **Stu Wells** - Town of Osoyoos Mayor

**3:45-4:00 pm**      **Closing remarks and door prize draw**

Lana Pollack Chair of the U.S. Section International Joint Commission and Lyall Knott, International Joint Commission Commissioner

**4:00 pm**      **Adjourn**