

# Kootenay System Workshop

## FortisBC Operations Overview

Marko Aaltomaa, P. Eng  
Manager, Network Services  
March 9, 2016  
CBRAC and CRT Local Governments' Committee

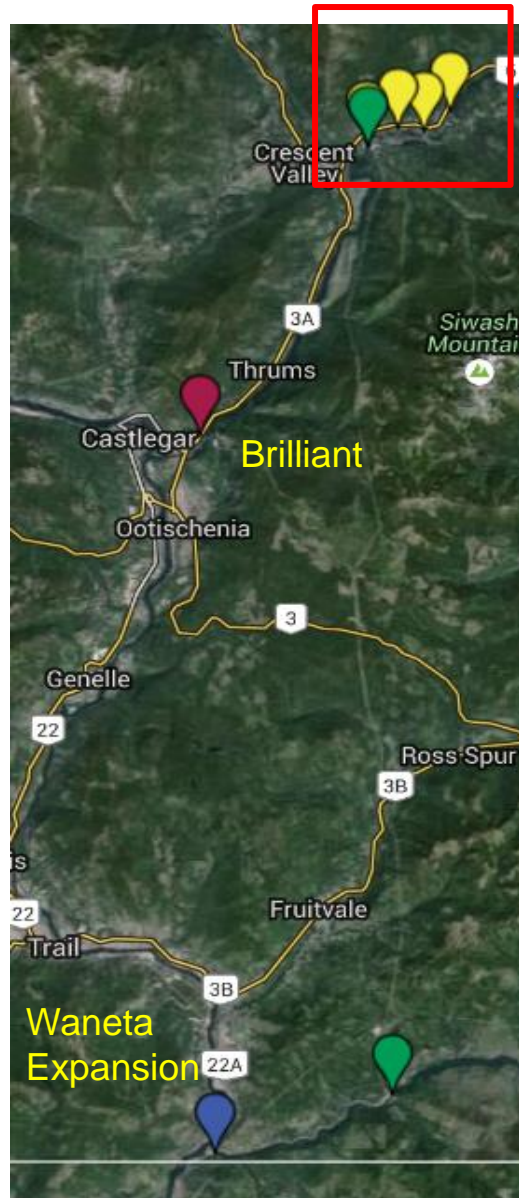
# FortisBC

## *Natural Gas, Electricity and Propane*

- Approximately 1.1 million customers
  - 160,000 electric customers
  - 950,000 gas customers
- Serve 135 communities
- More than 2,200 employees
- Own and operate 2 LNG facilities
- Own 4 generating facilities (225 MW capacity)
- Operate and maintain 5 third-party generating facilities (1,282 MW capacity)



# FortisBC Generation Resources

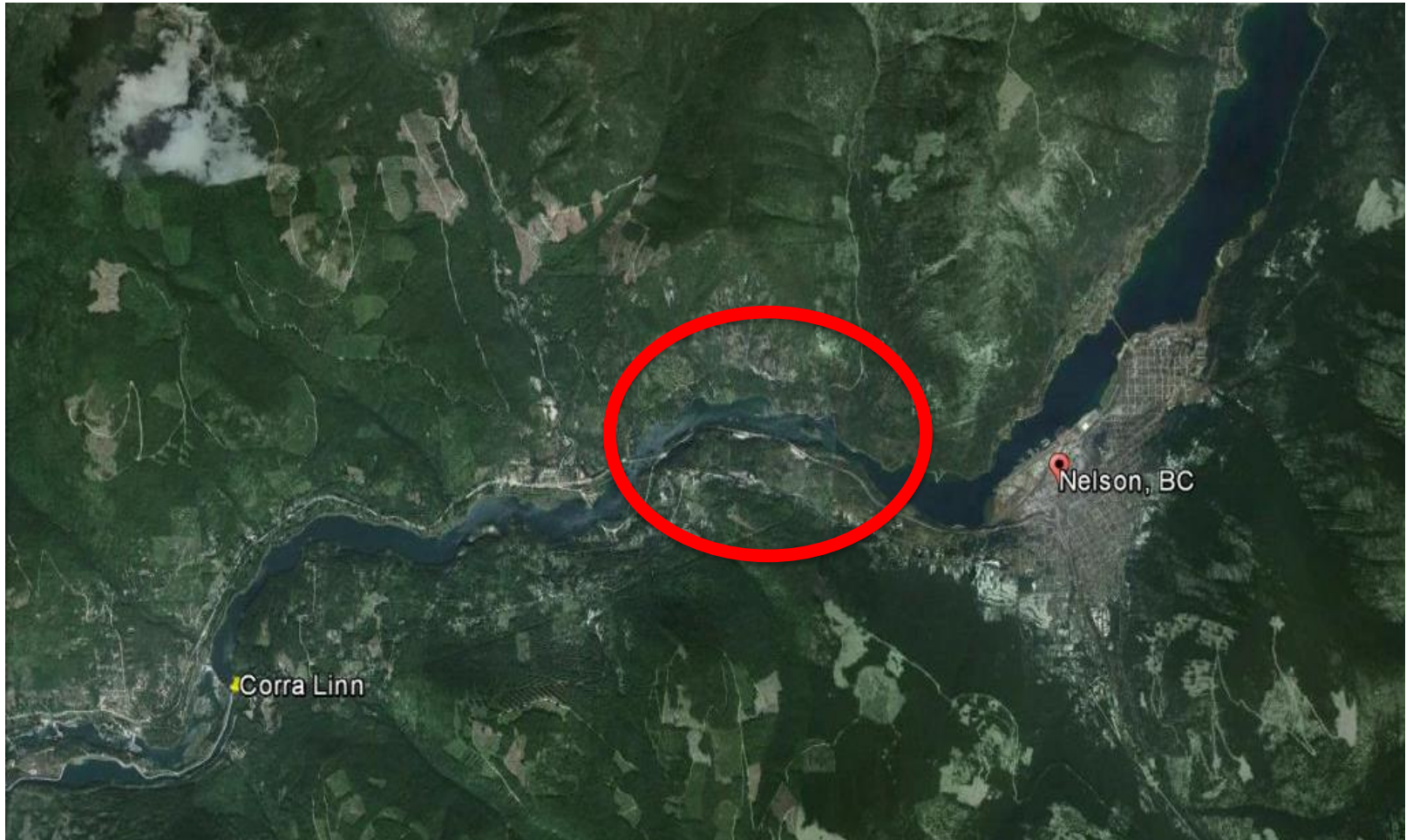


# History of the IJC Order of 1938

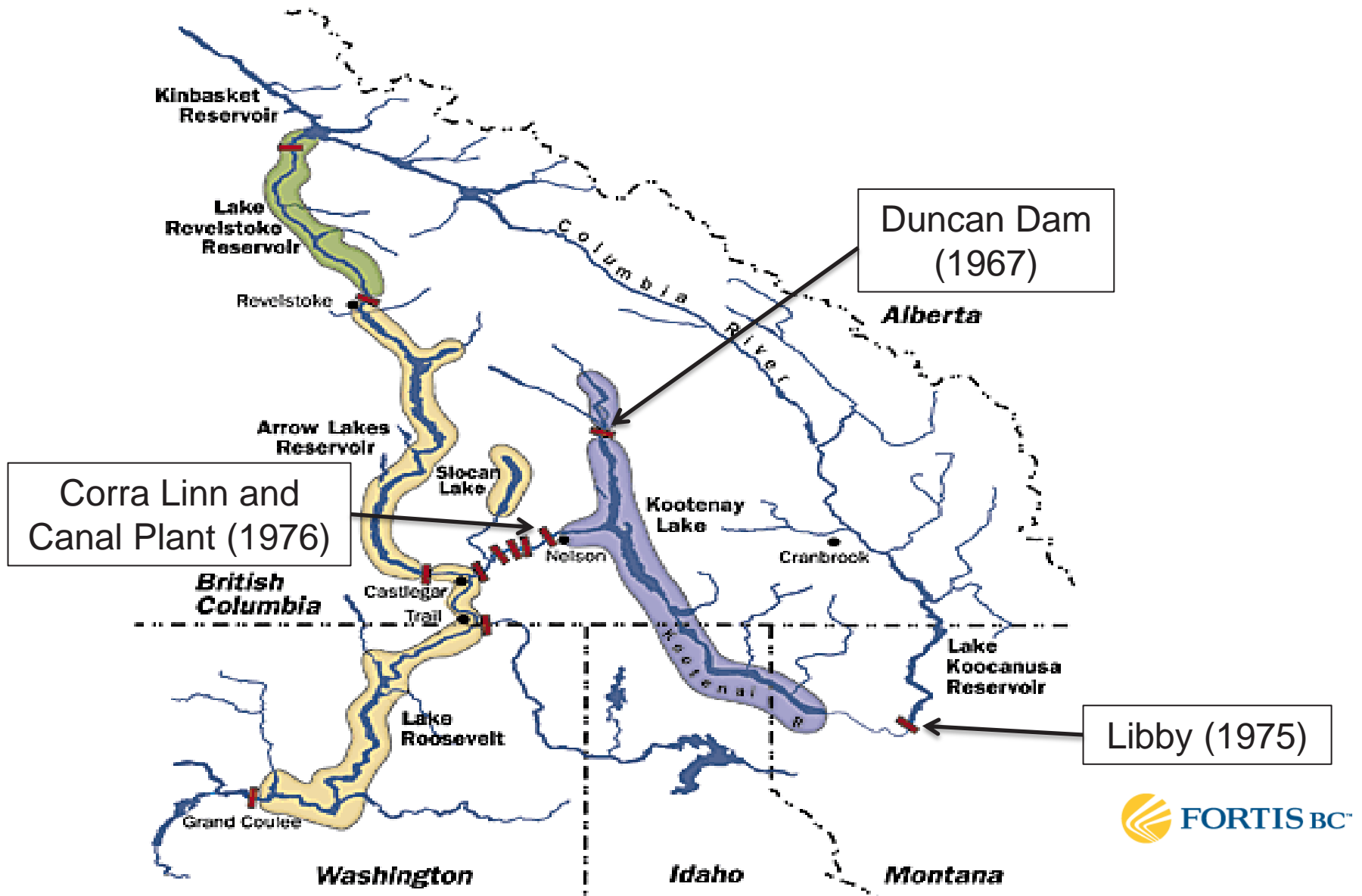
Corra Linn under construction in March 1931



# Grohman Narrows – Nature's Water Level Regulation



# Kootenay/Columbia River System



# BCH Kootenay Canal Plant and the CPA

## BC Hydro Kootenay Canal Plant

- Diverts water around FBC plants on Kootenay River
- Drives need for the Canal Plant Agreement

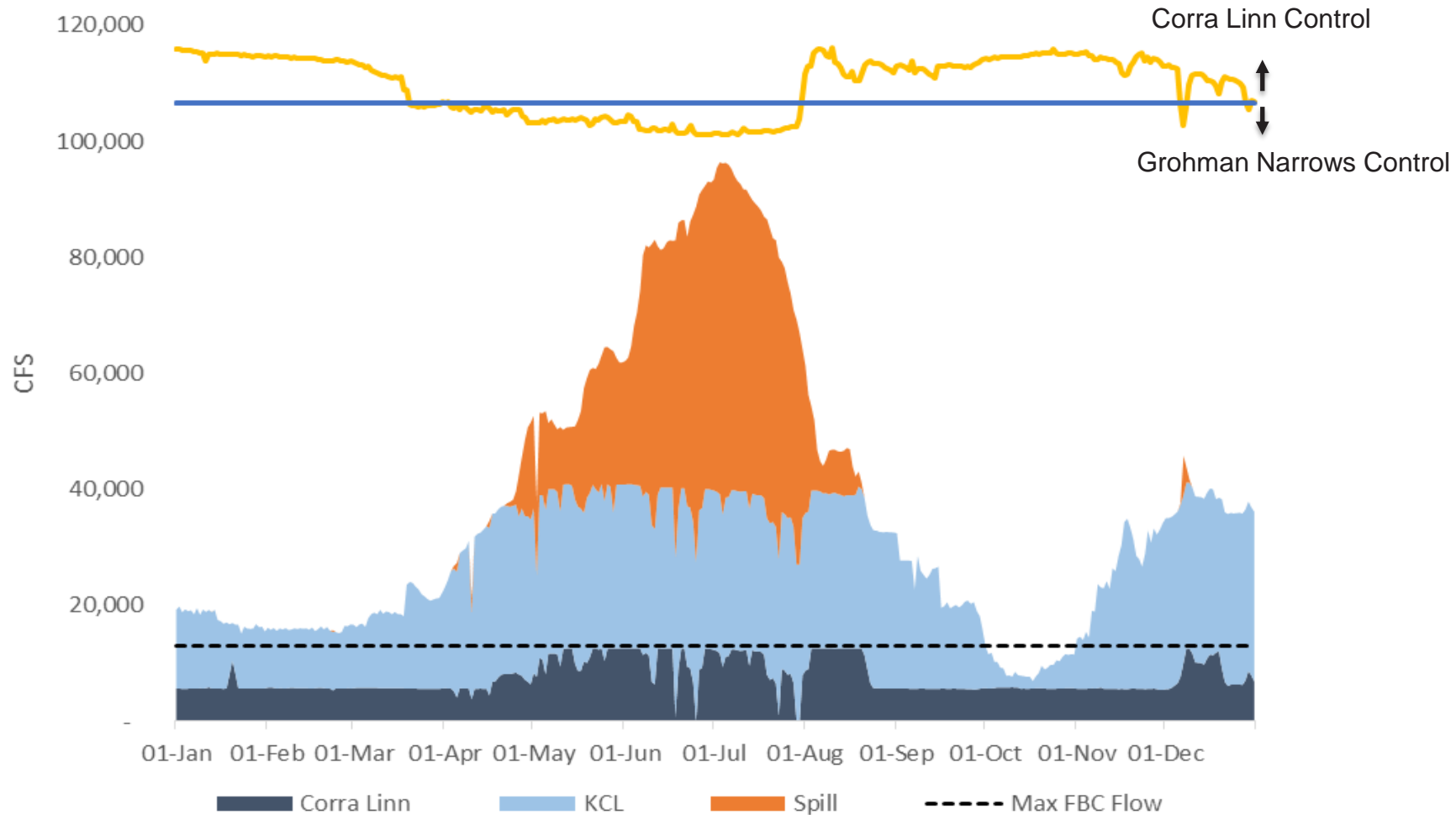
## Canal Plant Agreement

- BC Hydro has overall dispatch rights
- FBC Units need to be available to generate
- Many Operating Procedures dictating Operations



# Kootenay River Flow and Control

2012



# Operational Influences – Other Regulation



## Libby Dam Operations:

- US Regulatory Influences.

## Stakeholder Concerns:

- FortisBC, BC Hydro and Columbia Power Corporation
- Kootenay Flats farmers
- Public input on operations: recreation, landowners, etc.

# Operational Influences - Environmental

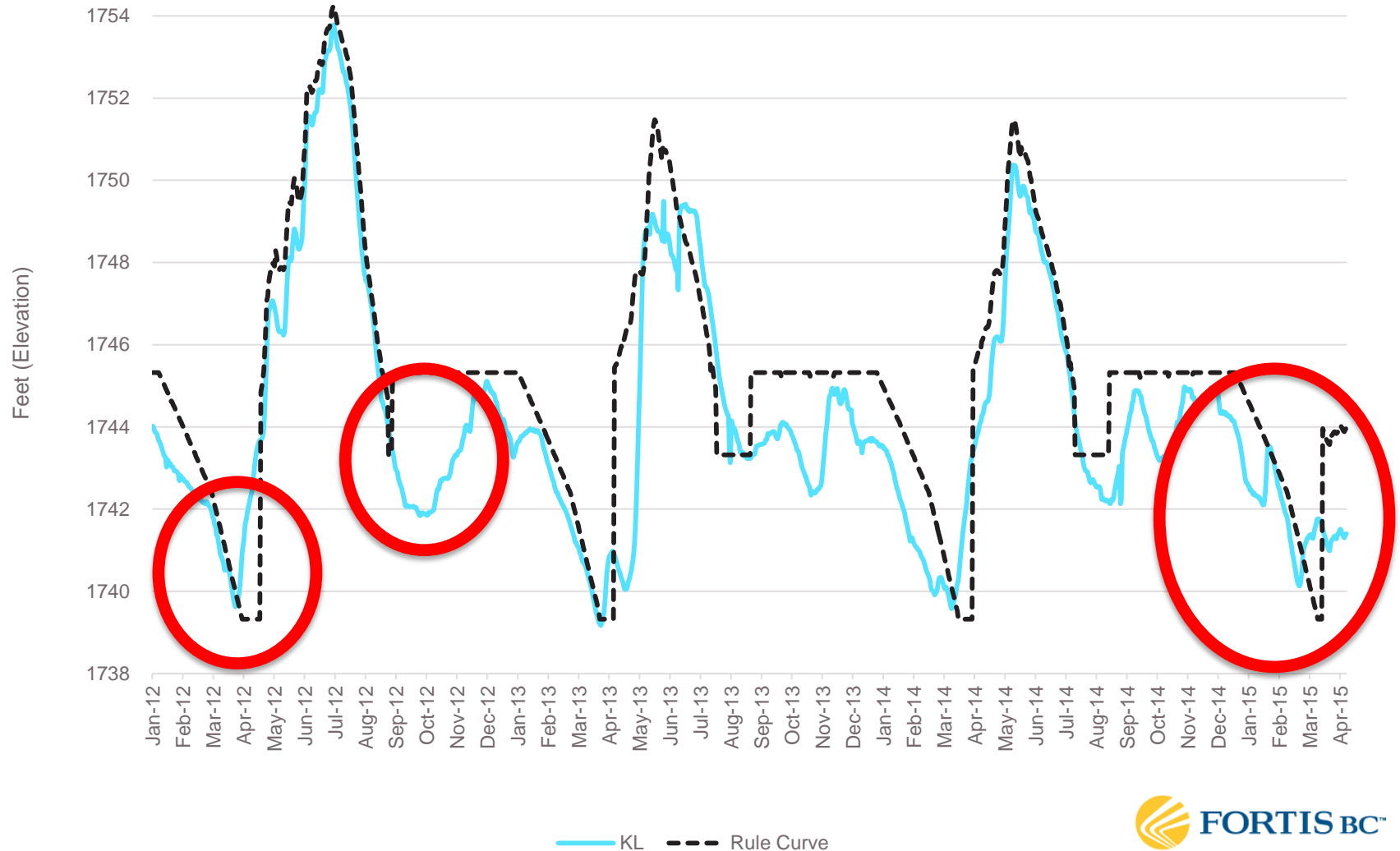
- Shore spawning Kokanee
- Listed species – sturgeon
- Reintroduction of Salmon
- Unpredictable weather patterns.



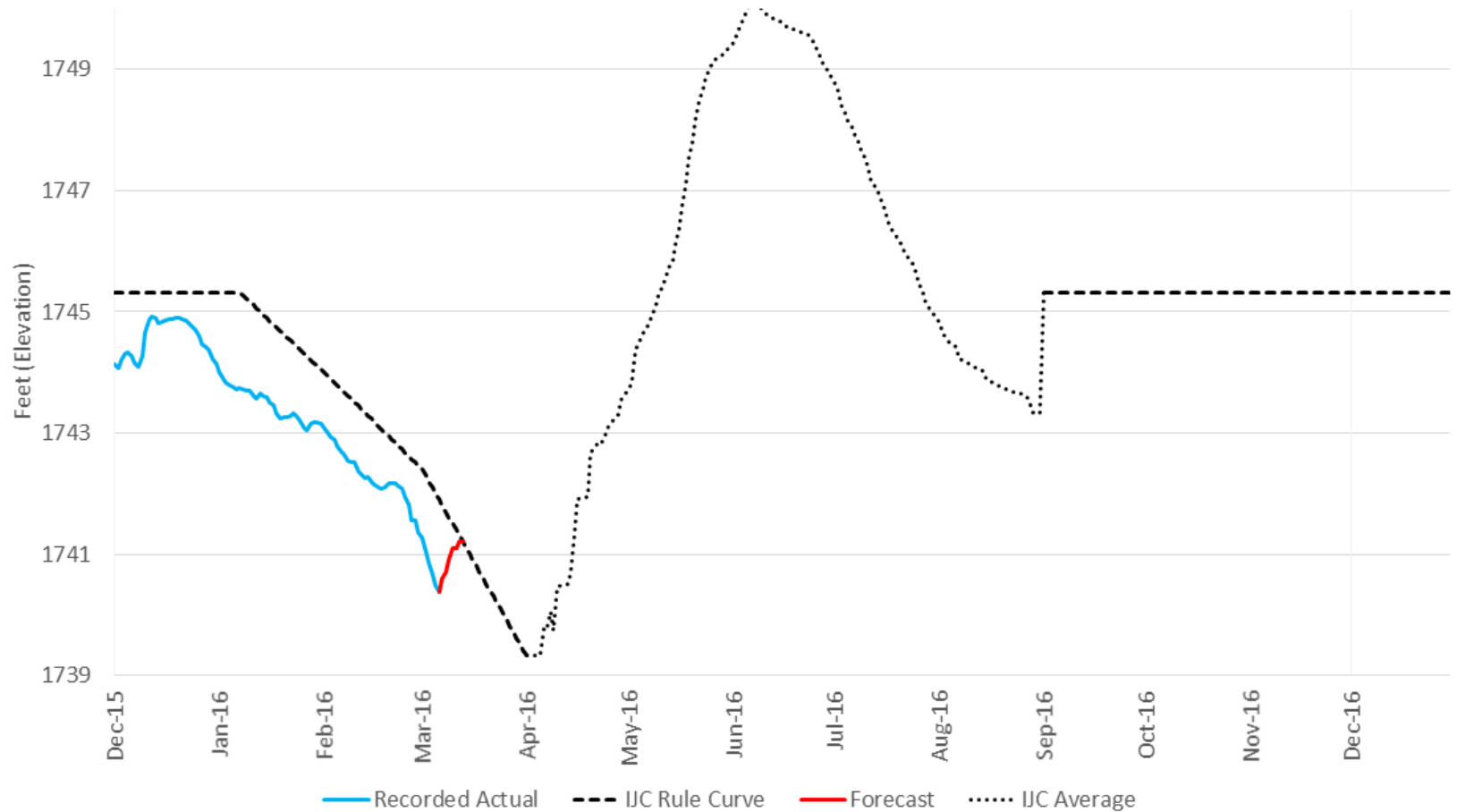
Photo: Slocan Valley Net. New Denver Glacier

# Impacts on Kootenay Lake Operations

Kootenay Lake Elevation (2012 to 2015)



# 2016 Kootenay Lake Forecast Level



# Emerging Issues for FortisBC

- Meeting the Operational Requirements of the IJC Order
- Communications and Information to the Public
- Importance of Generation Resources to FortisBC Customers
- Increasing interest and awareness



**Friends of  
Kootenay Lake**  
Stewardship Society



**Community Values Study**



# Friends of Kootenay Lake Stewardship Society

- Friends of Kootenay Lake Stewardship Society (FOLKSS) provides a platform for broad array of stakeholders to collaboratively learn about the lake and its many values, identify potential threats to the lake's social and ecological values, conduct scientific inquiry into the issues, and propose solutions.
- FOKL also helps residents to participate in planning initiatives to improve lake management.
- In the long term, FOKLSS will work with the KLP and lake-side communities to develop a lake management plan to harmonize regulation, coordinate enforcement, and improve protection of the lake.
- FOKLSS has received funding and support for the Kootenay Lake Community Values Study for 2016.



# Kootenay Lake Community Values Study

- The study will engage Kootenay Lake residents (as well as those who feel significantly impacted by the lake and its hydrological basin) in expressing their values of the lake and their visions for its future.
- The campaign will include educational and celebratory elements, as well as an array of engagement mechanisms to facilitate diverse input across Kootenay Lake's communities.
- In order to provide a robust and accurate contribution toward the development of a Lake Management Plan, emphasis will be placed on maximizing participation and gathering reliable data that produces statistically significant results.

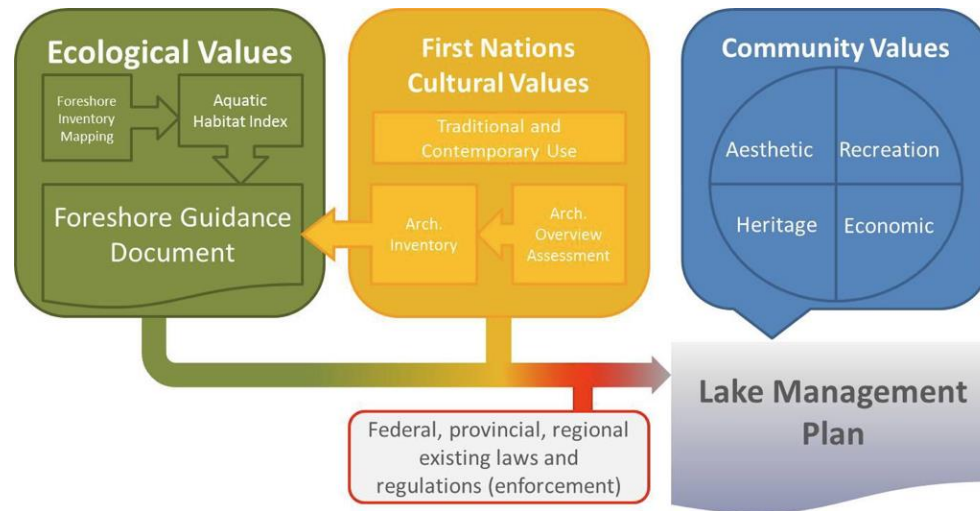


## Groups involved

- **Friends of Kootenay Lake Stewardship Society Board of Directors,**
- **The Lake Advisory Council:** 24 individuals who represent a diverse group of stakeholders on Kootenay Lake including industry, recreation, business, economic development, First Nations, municipal and provincial government, conservation, technical advisers and community representatives).
- **Kootenay Lake Partnership:** Since 2010, the Kootenay Lake Partnership (a collaboration among all levels of government including First Nations) has been working towards improving governance on Kootenay Lake.

## Kootenay Lake Partnership


Are working to complete two of the three elements of the Lake Management Plan (see image below) including scientific surveys assessing both ecological values and First Nations cultural values.





# Community Values Study Rationale

- Community values must also be considered in developing the plan in order to ensure that the plan meets the needs and interests of the community that will ultimately live with and support the Lake Management Plan. The Kootenay Lake Community Values study will help to strengthen social, economic, and environmental well-being in the Kootenay Lake area.
- The Kootenay Lake Community Values Study will provide the third and final element needed to develop a comprehensive Kootenay Lake Management Plan. The plan will allow community members and regulatory agencies to be better informed on the ecological, First Nations, and community values across federal, provincial, regional, and municipal jurisdictions.



We look forward to your participation  
and support of the the CVS in the  
coming months.

- Thank you!

# Questions?

Marko Aaltomaa, P. Eng  
Manager, Network Services