





***Feedback to Date
On Stable Mid-Arrow Investigation
Draft Report***

*CBRAC
October 13, 2016 Revelstoke*

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Source of comments

- CBRAC spring meeting
- Individual submissions
- ENGO
- Fauquier community meeting
- Official close of comment period October 31, 2016

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- However input will continue to be sought after public comment closing date



Aboriginal

- Need direct involvement by First Nations
- Need to incorporate Traditional Ecological Knowledge
- Disagreement that pot hunting should be a factor

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- Ministry of Energy and Mines and Global Affairs Canada will be consulting First Nations on the draft report during the course of the fall



Fish -1

- Impacts to aquatic nutrients complicated/unknown
- Effects on fish, fisheries uncertain
- Missing effects on sturgeon
- Salmon recovery not considered
- Effects of spilling on TGP not determined




Fish - 2

- Lack of understanding of impact of hypotheic zone by flooding
- Need better understanding of health of fish populations; comparison with other reservoirs
- Negative effect on kokanee spawning questioned
- Concern about invasive species




Fish - 3

- Effect on water temperature unknown
- Concern that productive back channels may dewater without annual reservoir fluctuations
- Suggest habitat restoration is a more productive solution



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Wildlife

- Effect on waterfowl flyway use unknown
- Concern that local wetland and riparian habitats need reservoir “recharge” to maintain productivity
- Concern that stabilizing reservoir will negatively impact insect population

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- Eg Airport wetlands would drain without reservoir fluctuation
- Revelstoke Reach productivity relies on annual flooding to provide habitat for fish, ospreys, herons, eagles, otter, songbirds, waterfowl.



Vegetation -1

- Concern about grass fires due to lack of inundation
- Impacts on Reed Canary grass and sedge communities
- Annual planting and natural revegetation in north-Columbia is achieving ecosystem outcomes of the scenarios and should be expanded throughout the reservoir



Vegetation -2

- Annual flooding of grasslands is an important component to the productivity of the Revelstoke Reach
- Concern about invasive species
- Unknown timeframe for revegetation
- Since 2013 cottonwood and willows are making a comeback – review recent operations



Climate

- Missing effects on microclimate
- Effects of climate change not considered

Recreation

- Concern for increase in motorized use, fires, down to stable elevation
- Greater opportunity for year round recreation
- Greater opportunity for shoreline recreation

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- E.e camping, hiking, beach walking, etc



Socio-economic -1

- Scenarios benefit increased tourism, economic development
- Increased predictability for agricultural expansion – need to quantify increased availability
- Need to prevent building in floodplain
- Increase in flood risk not discussed



Socio-economic -2

- Waterfront owners: support for more stable level but not for elevation – too low
- Concern about increase in mosquito population



General

- Need maps for context e.g. Revelstoke Reach
- Need to assess implications upstream and downstream of Arrow
- Relationship with Columbia River Treaty unclear
- Some suggest more modest “tweaking” of operations
- Need to take a cautionary approach – do no additional environmental harm



Next steps

- Further feedback from CBRAC, others
- Continued investigation, esp. on fisheries with government and First Nations scientific experts
- Further analysis on effects on Revelstoke Reach
- Determine upstream and downstream implications
- Then review and determine next steps