Protecting the Commons: Food Security, Public Policy and the Site C Dam



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"Site C is the largest cumulative violation of democracy in the colonial history of this country..."

> Julien Napoleon, Saulteau FN Treaty 8





THE IMPACT OF THE SITE C DAM

Total land impacted:	12,759 ha	31,528 ac
Less stability impacted land	<u>-6,290 ha</u>	<u>-15,542 ac</u>
Equals flooded land	6,469 ha	15,985 ac
minus "low utility" areas*		
Class 6 and 7	-2,653 ha	<u>-6,556 ac</u>
Class 1-5	<u>-2,150 ha</u>	<u>-5,313 ac</u>
LOSS VALUATION (13%)	1,666 ha	4,117 ac
* all class 6 and 7 land + 60% of class 1-5		





SMARTIES FOR DUMMIES BC HYDRO's "UTILITY RATINGS" 6,469 ha or 15,985 ac





SMARTIES FOR DUMMIES LESS "LOW UTILITY" = "FARM LAND LOST" (MODEL) 1,666 ha – 4,117 ac







DIMINISHED AND DISMISSED

Submission to CEAA/EAO Joint Review Panel BC Hydro Site C Clean Energy Project

Environmental Impact Statement (EIS) – Potential Project Impact on Agriculture January 14, 2014 Fort St John, B.C., Canada

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PEACE RIVER VALLEY IS UNIQUE - SOME OF BEST LAND IN CANADA

- combination of fertile alluvial soils in a west – east running valley with Class 1 climate for agriculture...
- range of crop options equivalent to the Fraser and Okanagan valleys, but with higher yields.







There are lots of energy sources, but only fruits and vegetables are fruits and vegetables....





NUTRITION AND FOOD SECURITY

The alluvial soils + Class 1 climate for agriculture of BC's Peace River Valley give it the capacity – if in full production – to meet the nutritional requirements of over 1 million people a year. FOREVER.











EARTH FILLED DAMS+EARTHQUAKES+FRACKING OH MY!

FRACKING (Andrew Nikiforuk. Damming the Peace):

- "industrial enema" gobbles up water from lakes, streams, industry-made dams produces enormous volumes of highly salty and radioactive waste water
- more than thousand earthquakes since 2006, turning previously quiet seismic zone into a highly active one...
- Some 12,000 fracking operations in BC and Alberta have triggered **nearly 40** earthquakes > magnitude 3 (all felt on the surface) in recent years
- 2015 4.6 magnitude earthquake in Ft St John sets **world record** as the largest tremor ever attributed to the technology of fracking
- SITE C DAM IS SMACK IN THE MIDDLE OF THIS







• 2/3 due to flow regulation Peace River dams

- + 75% in winter 20% in summer
- 1/3 due to climate change
- Bennett Dam ('68) and Peace Canyon dam ('80):
 - **Reduced ice-jam floods** in the PAD due to reduced spring flooding (drying)
 - Reduction in sediments that feed PAD (resulting in shrinkage)
 - Reduction in fish migrations
- Site C Dam will exacerbate; block passage of 25 fish species
 - **Including** mountain whitefish, greyling, bull trout, walleye, burbo, goldeye, long nose sucker, large nose sucker
 - Also result in swim bladder rupture and air embolisms as pass thru dam













END GAME? WATER



















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