

Nakusp and Arrow Lakes Area

The following are interests area residents identified in past public engagements.

Category	Sub-category	Objective	Notes
General	<ul style="list-style-type: none"> • Ecosystem integrity • Climate Change • Balance competing land use needs. 	<ul style="list-style-type: none"> • Support ecosystem resilience and productivity • Understand impact of climate change and glacial recession on water levels 	
Recreation	<ul style="list-style-type: none"> • Water and shoreline access for recreation • Water access for boating and fishing 	<ul style="list-style-type: none"> • Maximize quality and diversity of recreational activities • Sufficient beach area • Boating access for recreational and fish harvest – spring to fall • Boating/swimming safety 	<ul style="list-style-type: none"> • Preferred levels for recreation between 1435 ft and 1440 ft – offset with new boat ramps? • Arrow Recreation Management Plan – monitoring and physical works (ramps, debris management, dredging)
Quality of Life	<ul style="list-style-type: none"> • Aesthetic impacts for beach front properties • Water quality • Health and nuisance issues like dust storms and mosquitoes 	<ul style="list-style-type: none"> • More stable reservoir levels • Communication of changes in levels • Minimize periods of below 1435 ft • Increase re-vegetation program • Maximize quality of life 	Duncan Management Plan – mosquitoes
Flood and Erosion	<ul style="list-style-type: none"> • Property Damage 	<ul style="list-style-type: none"> • Minimize wave and wind impacts on scarp stability • Minimize surcharging of reservoir • Minimize full pool events and sudden draw downs • Avoid double peaks 	<ul style="list-style-type: none"> • Data collected for 3 of 5 years monitoring of wave and winds impacts on scarp stability (Berkey 2012) • Multi-year management protection plans and monitoring programs to be developed following inventory (Berkey 2012) • Protection of Argenta Slough
First Nations	<ul style="list-style-type: none"> • Representation of aboriginal interests • Understand and protect cultural sites 	<ul style="list-style-type: none"> • Increase understanding of sites and their locations 	<ul style="list-style-type: none"> • Separate First Nations consultation process under the Columbia River Treaty Review

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	and artefacts <ul style="list-style-type: none"> • Support and ensure First Nations’ ability to harvest for food, cultural and ceremonial purposes • First Nation involvement in research, monitoring and management • Sinixt 	<ul style="list-style-type: none"> • Minimize impact of destructive human behaviour • Access to archaeological sites by appropriate people (communicate when low water levels) • Abundance/ diversity of traditional plants, fish & wildlife • Reservoir levels high enough to access tributaries • Resolution of Sinixt claim 	<ul style="list-style-type: none"> • BC Hydro Reservoir Archaeology Program • Arrow site survey and inventory work has been initiated, an initial 2 year study completed (at least 50 sites identified) and continuing studies to be conducted. • Exploratory/conservation evacuations and monitoring at Arrow and Duncan • Duncan: 2 of 5 years of studies completed for monitoring cultural sites & traditional use information collection to be undertaken • Physical protection of known sites through re-vegetation, geo-textile material (exploring)
Wildlife and vegetation	<ul style="list-style-type: none"> • Migratory birds • Nesting Habitat • Wildlife habitat • Riparian Habitat • Littoral Productivity • Protected Areas • 	<ul style="list-style-type: none"> • Lower reservoir levels in the spring and summer to protect migrating birds • Minimize inundation of nesting habitat, particularly for early or late nesters • Maximize capacity of wetlands and other bird habitat to provide for spring nesting, shore birds and fall migratory birds. • Maximize abundance and diversity of wildlife populations • Maximize wildlife 	<ul style="list-style-type: none"> • Arrow Reservoir Wildlife Management Plan – 7 studies & physical works • Columbia Basin Amphibian Inventory • Arrow Re-vegetation Management Plan uses local species and traditional plants where possible. (BCH 2011) • FWCP – West Kootenay Enhancement program for ungulates • Soft constraint – Apr-Oct min water levels above 1424 ft (434m) • Optimal water levels at 435 m for shorebird habitat and below 438 m by Aug 7 for migratory

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		habitat <ul style="list-style-type: none"> Minimize inundation of vegetation during growing season Maintain vegetation at and above 1424 ft 	birds
Fish and Aquatic Resources	<ul style="list-style-type: none"> White Sturgeon Kokanee Bull Trout Cutthroat Trout Rainbow Trout Whitefish Salmon Nutrient restoration Water temperature 	<ul style="list-style-type: none"> Increase tributary access and minimize migration barriers during Kokanee and bulltrout spawning. Build self sustaining population of white sturgeon. Maximize juvenile recruitment of white sturgeon Maximize the abundance, diversity, condition, growth and fecundity of priority fish species. Minimize predation of key species. Minimize possible negative effects on fish and their habitats Minimize impacts to fish from rising water temperature Maximize pelagic and littoral productivity Maximize reservoir (Revelstoke) stability to maximize fish productivity Fish hatcheries on Arrow Lakes Fish ladders on dams Bring Salmon up the Columbia if 	<ul style="list-style-type: none"> Arrow – Mid-Columbia White Sturgeon Aquaculture program – alignment with CPC Kokanee survive better at 1430 ft, especially during the spawning period BCH negotiates for rainbow trout protection flows from Hugh Keenleyside Multi-year study of tributary fish migration under Arrow Lakes Reservoir Management Plan (late Aug – Nov) Burbot life history study under the Arrow Lakes Reservoir Operations Management Plan Duncan dam operated to allow bull trout in and out of the reservoir and prevent fish stranding Duncan fall flows have been developed for spawning and incubation of Kokanee and whitefish Duncan plan develops spawning side channels Aquatic Nutrient Restoration Program on Arrow Lakes Meadow Creek and Hill Creek spawning channels built for Kokanee Arrow outflows reduced

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		technically and economically feasible	for whitefish spawning (Whitefish Operating Agreement) <ul style="list-style-type: none"> • Re-introduction of salmon would have negative impact on Kokanee
Cross border collaboration	<ul style="list-style-type: none"> • Cross border engagement and collaboration 	<ul style="list-style-type: none"> • Cross border conference to understand issues and identify mutual interests 	<ul style="list-style-type: none"> • Provincial biologists working with U.S. on Kootenay River White Sturgeon program and on a bulltrout enhancement program
Commercial Interests/ Economic Development	<ul style="list-style-type: none"> • Tourism and other waterfront businesses • Navigation/Commercial transport • Agriculture • Aesthetic impacts for beach front commercial properties • Guide Outfitter and Angling Guide • Reduce barriers/ increase opportunities for economic diversification • Power generation 	<ul style="list-style-type: none"> • Maximize waterfront business activities • Boating access to reservoir • Support fruit growers • Maximize land for agriculture • Maximize wildlife viewing opportunities • Quantity and size of fish – angling tourism • Fluctuating water levels reduces quantity of fish impacts fishing tourism • Subdivide land fronting Revelstoke Reservoir • Maximize power generation, eg Whatshan Project 	<ul style="list-style-type: none"> • Dykes/Weirs between Revelstoke and ferry – technical and economic feasibility