



Canada

**Parks Canada's presentation to the Mackenzie
Valley Environmental Impact Review Board
regarding EA1415-01
Prairie Creek All-season Road Project;
Canadian Zinc Corporation**

- Day 2 Presentation -

MVEIRB Final Hearings
Fort Simpson, NT
April 26 - 28, 2017



Outline

1. Fish and Aquatic Habitat
2. Water Quality and Quantity
3. Sundog Creek Realignment
4. Vegetation



FISH AND AQUATIC HABITAT



- Potential resident population of Arctic Grayling (km 25-32)
- Potential impacts from rock fall, sedimentation, erosion
- Recommend that mitigations be included

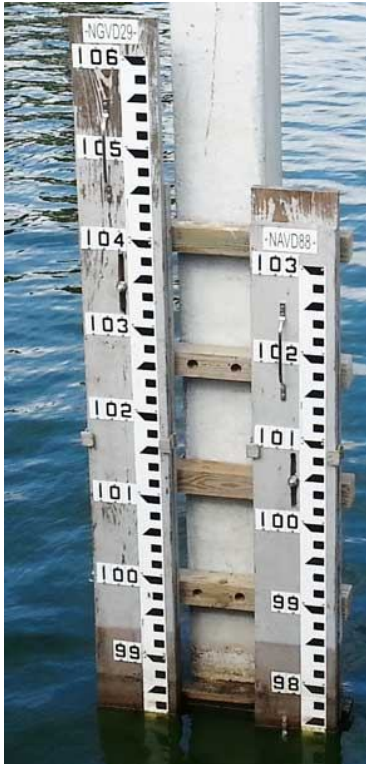




WATER QUALITY AND QUANTITY



- Current hydraulic model based on a single set of calculations
- Risk that realigned channel may not be capable of withstanding 100 year floods, potential significant impact to the aquatic ecosystem and road infrastructure
- Recommend at least one supplementary hydrotechnical calculation for Sundog Creek



- Water withdrawal for dust control
- CZN will track withdrawal volumes but not recharge rates
- Need to ensure no cumulative effects
- Recommend installing water gauges and initiating a monitoring program



- Potential reductions in water quality
- CZN committed to revising the Sediment and Erosion Control Plan
- Recommend baseline information collection, short and long term monitoring program, adaptive management





- Management of grey water and sewage has potential to affect surface water and shallow ground water through release of nutrients, pathogens, heavy metals, and pharmaceutical compounds
- Recommend grey water managed through a septic system and prefer off-site treatment of sewage



SUNDOG CREEK REALIGNMENT



- Habitat composition and abundance will be affected
- Recovery may take multiple years
- Recommend monitoring and adaptive management





VEGETATION



- Rare, valued and protected plants and assemblages
- Recommend thorough surveys and updated effects assessment

