<u>Undertaking #6</u> Avalon to identify how traditional knowledge was used and incorporated into the DAR and how TK was used in the design of the proposed project within the limits of existing confidentiality agreements. Avalon has been asked to identify how traditional knowledge was used and incorporated into the project design.

Avalon has had input into the project from our Aboriginal Partners through traditional knowledge studies, input from Aboriginal employees at site, and meetings with leadership and community members. This engagement will continue through the life of the project. Certain areas, like wildlife monitoring and closure planning will seek-out more local and traditional knowledge as those plans pass from the conceptual stage to operational plans, and as part of ongoing reviews.

Itemizing traditional and local knowledge reduces the context and holism of the knowledge. In order to respond to the request, however, we have listed instances where the project design has changed as a result of all Aboriginal forms of engagement and knowledge.

ТК	Incorporation into design / mitigations
Site	
The area immediately northeast of Thor Lake does not	Siting of the tailings management facility at Nechalacho
have much wildlife. It is very rocky and has been an	in an area where it was known to have less wildlife and
area to avoid hunting.	use to minimize impacts.
Destruction of the land at Nechalacho	Avalon's original scoping study for the Nechalacho site
	concerns expressed by our aboriginal partners
	recoarding denuding the land and adversely affecting
	wildlife Avalon began looking at alternative mining
	methods and eventually settled on underground mining
	while also reducing the surficial footprint by placing a
	large amount of infrastructure undergroundi.e.
	crusher station.
Concerns about fish habitat destruction	Avalon originally investigated the Cressy Lake site as an
	optimal location for tailings discharge that satisfied an
	earlier concern about discharging effluent directly into
	Great Slave Lake. Upon further consideration
	regarding potential fish destruction, Avalon
	investigated other areas and happened across the
	Ring/Buck Lake system which was later found to be
	non-tish bearing.
Concerns about past operations scarring the land	Avalon heard many concerns from our Aboriginal
(reference to the 1-zone exploration in the past)	of carbage and material waste left behind. During the
	summer of 2010. Avalon identified an opportunity to
	address this concern by progressively reclaiming all the
	T-zone waste stockpiles and utilizing these for the
	construction of the existing airstrip. In addition,
	Avalon removed several broken down trailers in the
	area and disposed of them in Yellowknife while
	repurposing others for future use. Avalon also utilized
	diesel fuels left in the tanks from past operations for
	use in existing fuel oil heaters.
The Pine Point site was negatively impacted by mining	Avalon changed the location of the tailings from the
in the area. It is important to help the land in this area	existing Teck tailings facility to a pit where progressive
heal if any activity is to occur there.	reclamation and revegetation could assist the area to
	heal.
Concerns that an increase in traffic on the road	Avalon changed where it will stage its resupply from
between Pine Point and Hay River could have negative	Pine Point to Hay River to reduce the amount of truck
effects on the environment	trattic travelling along highway #5 and #6.
I ne bay on the north side of the Hearne Channel is a	Confirmed that the location for the barge-loading is
Known sale-naven location for Doaters	IOWER-FISK than the surrounding area.
The water quality at Pine Point has suffered from the	Avaion originally planned to discharge tailings into the
past mining activities. Concerns surface water flowing	exiting Commico tamings which would have resulted in

directly into Great Slave Lake.	surface water discharges. This has changed to
	discharging into the L-37 open pit and diverting
	decanted water directly to the underground aquifer,
	avoiding direct discharges to Great Slave Lake and
	comingling with Cominco tailings.
Water in Great Slave Lake is a priority for the	The original plan at Nechalacho was to discharge water
environment and people	to Elbow Lake which flows directly to Great Slave
	Lake. In response to concerns about this, the an
	alternative tailings area was identified that allowed for
	the discharge point to enter Drizzle Lake and
	eventually discharge from Thor Lake which results in
	18 kilometers before reaching the Great Slave Lake.
Transportation	
Water levels in Great Slave Lake have declined	Designed all docking facilities to accommodate
significantly in the last number of years.	fluctuating water levels (i.e. no permanent docks)
Weather is more unpredictable now than in the past.	Avalon originally investigated the potential to develop a
Winters are shorter and warmer.	seasonal road from Yellowknife to the Nechalacho site.
	This feedback supported by actual weather data
	encouraged Avalon to look at alternative means of
	transport of its concentrate and resupply.
Emphasis on the severity of winds in the barging area,	Careful selection of barge routes to minimize wind
concern about wind storms on east arms, and how	exposure. Provide a sufficient amount of contingency
winds may affect anchored barges	in the number of barging days to allow for wind delays.
	Ensure appropriate anchoring systems in place to
	secure and stabilize barges and tugs during inclement
	weather events.
Other	
Details about the wildlife at site	Incorporated types of species and frequency of fish,
	mammals, birds, trees, and plants into baseline
	environmental assessment. These baselines were also
	the foundation for the wildlife effects and management
	plan.
Concerns about the social impacts of working at the	Avalon plans to work with our aboriginal communities
mines including money management, occupational	to develop sustainable solutions for the communities to
segregation, and increased use of drugs and alcohol	implement.
Concerns about the impacts of exiting land	Removal of garbage, recycling of old trailers, and waste
disturbances at Nechalacho site (litter, old trailers, piles	rock has been used for construction activities at site.
of waste rock) on wildlife and water	