Area of Inquiry	Key Findings and Recommendations	What Works Well	Opportunities to Improve	Recommendations	WRRB Response
To determine whether the WRRB process	•The WRRB process has evolved over time to	•Informal mechanisms and activities support	Reducing the amount of written	•The Board should continue to use a mix of both formal and	•The Board will not provide recommendations in draft
(including the Reasons for Decision Reports)	be effective and efficient by strengthening	an effective and efficient review process.	communications.	informal mechanisms to lead an efficient and effective review	form to the Working Group prior to finalizing its Reasons
for review of management proposals is	collaborative working relationships among	•Information sharing by Parties on caribou	Considering a suitable overall timeline for all	process. Consider whether to communicate recommendations	for Decision report; however, they will commit to meeting
efficient, effective, and gives equal	Parties, including by adopting informal	research and monitoring.	the steps required to prepare high quality	in draft form to the Working Group prior to finalizing the Reasons	with the WG after report submission to ensure
consideration for science and	engagement mechanisms, such as the	•The Board considers available traditional	management proposals.	for Decision report to ensure understanding of the Board's	understanding of the Board's intent.
traditional/community knowledge.	Technical Working Group. The process has	knowledge and scientific evidence to inform	Increasing consultation and engagement	intent.	The Board will commit to tracking implementation of
	considered traditional/community knowledge	recommendations and determinations.	with other Indigenous groups on the	Establish and implement the adaptive co-management	determinations and recommendations and to support the
	as it has become available over time.		management proposal review process.	framework to track continuous improvement of accepted	assessment of the success or failure of management
	•There are opportunities for Parties to improve		Designing and facilitating public hearings to	recommended actions and to support the assessment of the	actions, though this will not be done through the adaptive
	the effectiveness and efficiency of the process		enable collaboration.	success or failure of management actions. Collectively track	co-management framework.
	by clarifying the roles of parties, increasing		Using a central mechanism to track the	actions and determine roles and responsibilities of Parties in	The Board will continue to ensure that Reasons for
	engagement with other Indigenous groups,		completion of accepted actions.	implementing the framework.	Decision reports clearly describe how different knowledge
	communicating how input is used, using a		Directly communicating outcomes of	Ensure that Reasons for Decision reports clearly describe how	informs recommendations, including who provided input,
	central mechanism to track the completion of		management proposal review processes to	different knowledge informs recommendations, particularly	the nature of their input, and how that was considered in
	actions, reviewing timelines in the process,		interested members of the public.	when there are multiple information sources. Summarize input	the Board's determinations and recommendations.
	and validating recommendations prior to their		Communicating the roles of Parties in	succinctly in one section of the Reasons for Decision report,	• The Board will work with Parties to develop a graphic that
	finalization.		caribou management to Indigenous	including: who provided input, the nature of their input and how	illustrates roles and responsibilities of different parties in
			communities and the public.	that was considered in the Board's determinations and	caribou management.
			There is an opportunity to strengthen	recommendations. Complement existing mechanisms for	
			documentation of how traditional knowledge	communicating this information with direct outreach to improve	
			informs the Board's recommendations and	information accessibility, maintain trust, and build relationships.	
			determinations.	Parties should develop a graphic that illustrates roles and	
				responsibilities of different parties in caribou management.	

Area of Inquiry	Key Findings and Recommendations	What Works Well	Opportunities to Improve	Recommendations	WRRB Response
To determine whether the WRRB's	Recommendations and determinations have	The Board is making decisions as best they	More information and communication from	Consider the whole system of caribou management and	The Board will commit to discussions about the broader
determinations and/or recommendations are	generally been appropriate for managing the	can given that many factors are out of their	the Board and governments implementing	monitoring to develop a suite of recommendations that would	management approach for caribou with the Working
appropriate for managing Kǫk'èetì Ekwǫ.	herd in an evolving context. Developing short-	control.	management actions.	support the short- and long-term objectives. Discuss the	Group to align on short and long-term recommendations.
	and long-term recommendations particularly	The Board identified communication with	More information about how the Board	broader management approach for caribou in the Working	The Board will commit to ensuring that
	on habitat could support meeting	communities as important, which is	considers different inputs to inform their	Group to align on short- and long-term recommendations.	recommendations build on ongoing work of Parties and
	management goals.	appropriate given how important caribou are	recommendations and determinations for	Ensure recommendations build on ongoing work of Parties and	other partners.
	•The Board should work with Parties to	to community members.	specific management approaches.	other partners.	The Board will work with Parties to improve
	monitor actions and validate	The Board addressed the issue of the	Consider providing a regular newsletter be	Strengthen engagement and communications on the current	communications on the current approach for the mobile
	recommendations in future Reasons for	Bathurst herd having overlap with the	provided to community members.	approach for the mobile zone, predator management, and	zone, predator management, and monitoring measures to
	Decision reports. Implementing the Adaptive	Bluenose-East and Beverly herds with the	Improve communication of WRRB mandate	monitoring measures to build understanding of these	build understanding of these approaches. The Board will
	Co-management Framework is a key next step.	mobile protection zones. While there are	and authority, i.e., there is a need to provide	approaches. Conduct regular bilateral engagement with	participate in engagement meetings with partners hosted
		differing views on the design of the zone, it is	more information on what the Board can and	partners to develop stronger relationships among wildlife	by GNWT and/or TG.
		considered an effective management action,	cannot do and why.	managers which will ultimately support a more efficient review	The Board will commit to prioritizing the feasibility of
		though there may be opportunities to	Track completion of and ensure	process.	implementation of recommendations to acknowledge the
		enhance its design and implementation with	accountability and/or follow-up of	Consider the feasibility of determinations and	capacity of Parties to implement them.
		input from more partners.	recommendations.	recommendations to support effective implementation. A	The Board will commit to tracking and enforcing actions
		The Board identified biology and policy	Improve clarity on the Board's intent with	validation session with Parties through the WG will provide the	to strengthen the Board's recommendations as this will
		research priorities to better understand the	recommendations, i.e. elaborate on	Board an opportunity to refine recommendations prior to	support identifying whether actions have been effective to
		herd decline, highlighting the need to collect	recommendations by providing more detail	finalizing, which may lead to less recommendations being	adjust future recommendations and determinations.
		traditional knowledge and science on	and how propose a Party could implement	rejected. The Board may consider developing a prioritization	
		research questions.	recommendations.	method that considers feasibility of implementation of	
			Ensure that Parties indicated for each	recommendations to acknowledge the capacity of Parties to	
			determination and recommendation are	implement them.	
			appropriate, as GNWT and TG specialize in the	Track and enforce actions to strengthen the Board's	
			roles they plan and in the activities they	recommendations in response to future management	
			conduct.	proposals. Tracking and enforcing actions will support the Board	
				in identifying whether actions have been effective to adjust	
				future recommendations and determinations.	

Key Findings and Recommendations	What Works Well	Opportunities to Improve	Recommendations	WRRB Response
Proposed management and monitoring	Management proposals have resulted in	Proposed monitoring actions are considered	• Leverage technology and artificial intelligence for surveys that	The Board will support research into determining
actions have been effective in responding to	some consistent monitoring activities which is	effective in gathering information needed to	require low level flight, which would support low disturbance	applicability of using technology and artificial intelligence
the state of the herd and are known to work for	important for caribou monitoring. The	support management of the herd, but the	monitoring.	for surveys that require low level flight, which would
other caribou and ungulate populations,	population and composition are conducted	cumulative effects of disturbance from	Incorporate caribou habitat quantity and quality in monitoring	support low disturbance monitoring.
however, the herd has continued to decline.	consistently over time using the same	multiple aerial surveys is not effective.	and management actions proposed by the Tłıcho Government	The Board will commit to follow up with GNWT and TG to
<ul> <li>Parties should incorporate more habitat-</li> </ul>	methods for each survey, which is effective as	Consider strategies to combine surveys to	and GNWT. Actions that track cumulative effects on landscape	suggest incorporating caribou habitat quantity and quality
based measures and low disturbance	it allows for accurate monitoring of the herd.	reduce frequency and reduce variation will	change, climate change, predator behaviour, and harvest and	in proposed monitoring and management actions as well
monitoring and track the outcomes over time		increase effectiveness and have the potential	using other similar tools would support better understanding of	as tracking cumulative effects on landscape change,
to determine if actions are effective in meeting		to reduce stress caused by multiple surveys.	the herd to inform monitoring and management actions. Work	climate change, predator behaviour, and harvest, and
the short-term objective.		The proposed actions in 2010 and 2016 are	collaboratively with land use planners and habitat or landscape	using other similar tools would support better
		based on tested methodology but it is	managers to build alignment between regional landscape	understanding of the herd to inform monitoring and
		challenging to assess their effectiveness given	conservation approaches and caribou management in the	management actions.
		the continued decline of the herd. While the	Wek'èezhìı.	The Board will commit to improving communication
		Bathurst herd continued to decline from 2016	Communicate the outcomes of actions on an ongoing basis to	about the outcomes of actions on an ongoing basis to
		to 2022, more novel actions were presented in	improve effectiveness of future proposed actions.	improve effectiveness of future proposed actions,
		2022, which were considered to be more	Communicate the evaluation of the predator management	including using its quarterly newsletter to communicate
		effective such as adaptive co-management	program. Report on the mobile conservation zone publicly in an	results and next steps.
		strategies and coordinated survey efforts	accessible way to support better understanding of effectiveness	
		between jurisdictions and herds.	of actions and to inform more effective actions in the future.	
		Proposed actions do not address habitat	Consider a newsletter to communicate the results and next	
		protection, habitat quantity and quality, or	steps.	
		climate change, which are critical factors for		
		caribou management.		
	Proposed management and monitoring actions have been effective in responding to the state of the herd and are known to work for other caribou and ungulate populations, however, the herd has continued to decline. Parties should incorporate more habitatbased measures and low disturbance monitoring and track the outcomes over time to determine if actions are effective in meeting.	Proposed management and monitoring actions have been effective in responding to the state of the herd and are known to work for other caribou and ungulate populations, however, the herd has continued to decline. Parties should incorporate more habitatbased measures and low disturbance monitoring and track the outcomes over time to determine if actions are effective in meeting the short-term objective.  *Management proposals have resulted in some consistent monitoring activities which is important for caribou monitoring. The population and composition are conducted consistently over time using the same methods for each survey, which is effective as it allows for accurate monitoring of the herd.	Proposed management and monitoring actions have been effective in responding to the state of the herd and are known to work for other caribou and ungulate populations, however, the herd has continued to decline.  Parties should incorporate more habitatbased measures and low disturbance monitoring and track the outcomes over time to determine if actions are effective in meeting the short-term objective.  Proposed monitoring and track the outcomes over time to determine if actions are effective in meeting the short-term objective.  Proposed monitoring and track the outcomes over time to determine if actions are effective in meeting the short-term objective.  Proposed monitoring and track the outcomes over time to determine if actions are effective in meeting the short-term objective.  Proposed monitoring activities which is important for caribou monitoring. The population and composition are conducted consistently over time using the same methods for each survey, which is effective as it allows for accurate monitoring of the herd.  It allows for accurate monitoring of th	*Proposed management and monitoring actions have been effective in responding to the state of the herd and are known to work for other caribou and ungulate populations, however, the herd has continued to decline.  *Parties should incorporate more habitatbased measures and low disturbance monitoring and track the outcomes over time to determine if actions are effective in meeting the short-term objective.  *Parties and the first of the herd and are known to work for other caribou and ungulate populations, however, the herd has continued to decline.  *Parties should incorporate more habitatbased measures and low disturbance methods for each survey, which is effective as tallows for accurate monitoring of the herd.  **Incorporate caribou habitat quantity and quality in monitoring and management actions proposed by the Titche Government multiple aerial surveys is not effective.  **Consider strategies to combine surveys to considered to effective in subtractions are effective in meeting to determine if actions are effective in meeting to determine if actions are effective in meeting the short-term objective.  **Amagement proposals have resulted in some consistent monitoring activities which is important for caribou unditoring activities which is important for caribou unditoring and management of the herd, but the considered to support management of disturbance from multiple aerial surveys is not effective.  **Consider strategies to combine surveys to considered to the effective in strategies to combine surveys to consider effective.  **Leverage technology and artificial intelligence for surveys that require low level flight, which would support low disturbance monitoring.  **Leverage technology and artificial intelligence for surveys that require tow level flight, which would support low disturbance from multiple aerial surveys is not effective.  **Consider strategies to combine surveys to consider a fective in surveys in the fective.  **Leverage technology and artificial intelligence for surveys that require tow le

Area of Inquiry	Key Findings and Recommendations	What Works Well	Opportunities to Improve	Recommendations	WRRB Response
To determine whether traditional/community	As capacity of Indigenous governments and	Traditional knowledge on Bathurst caribou	While dialogue about traditional knowledge	Ensure management proposals consider and reflect all best	The Board will continue to request that management
knowledge has been adequately used in	organizations (namely Tłıcho Government) has	has been more accessible since 2009 to	among Parties has increased, the technical	available traditional knowledge from other Indigenous group (in	proposals consider and reflect all best available
Kǫk'èetì Ekwǫ management proposal	increased over time, so has the availability and	better inform management actions,	Working Group discussions and expertise are	addition to the Tłıçhǫ) and document how it informed Bathurst	traditional knowledge from all relevant Indigenous groups.
submissions.	consideration of traditional knowledge in	particularly given to the establishment of the	science-heavy. The GNWT is not seen to be	caribou management and monitoring. It is best practice to	The Board will commit to ensuring that they will
	management proposals, though dialogue in	Boots on the Ground program in 2016 and	effectively fulfilling its consultation and	consider all Indigenous knowledges in the context of Bathurst	document from whom traditional knowledge was shared
	the Technical Working Group is still science-	increased capacity to obtain traditional and	engagement responsibilities, which creates a	caribou management given their wide geographic range and	and how it was used to inform determinations and
	heavy.	community knowledge.	perception that traditional knowledge is not	interactions. The GNWT should also have an appropriate	recommendations to demonstrate it was adequately
	Parties should better document how they		adequately considered. It was felt that WRRB	approach to considering traditional knowledge beyond relying	considered. • The Board
	consider traditional knowledge from all		expertise is also science-heavy and that the	on the Tłıçhǫ Government.	will commit to supporting the increased dialogue of
	Indigenous groups and how traditional		Board could encourage more conversation	Parties could collaboratively evaluate the best way forward for	traditional knowledge at the technical working group table.
	knowledge informs Bathurst caribou		about traditional knowledge in the technical	increasing the incorporation of traditional and community	
	management and monitoring.		Working Group.	knowledge. Options Include: 1) The GNWT may want to consider	
			<ul> <li>Traditional knowledge from the Tłicho</li> </ul>	increasing their capacity to engage with traditional knowledge	
			Government seems to be most available and	alongside western science by connecting their learnings from	
			therefore most heavily relied upon in	other Indigenous groups about caribou to management	
			management proposals. Knowledge differs	proposals more directly, 2) Parties can document from whom	
			among Indigenous groups, and it is important	traditional knowledge was collected or shared and how it was	
			to ensure that the knowledge of all groups that	used to inform management actions to demonstrate it is	
			·	adequately considered, 3) The Technical Working Group has	
			9	supported increased dialogue on traditional knowledge. There is	
			proposals. Without this transparency on how	an opportunity to expand the scope of this WG that includes	
				traditional knowledge holders and western scientists and	
			Parties weigh certain knowledges differently	explores how to bring together traditional knowledge with	
			which may not be appropriate.	western science for caribou monitoring and management.	

Area of Inquiry	Key Findings and Recommendations	What Works Well	Opportunities to Improve	Recommendations	WRRB Response
To determine whether there are any	The GNWT is following a standard approach	•The GNWT is following a standard approach	•There are some redundancies in conducting	Consider whether population survey frequency needs to be	The Board commits to discussions with the technical WG
redundancies in current Kok'èetì Ekwo	for aerial survey techniques as they are similar	for aerial survey techniques as they are	photo censuses with multiple aircraft and	changed using scientific and traditional knowledge lenses.	about population survey frequency needs, aircraft needs,
monitoring actions, and if there are any	across jurisdictions, with most following the	similar across jurisdictions, with most	multiple composition counts. The GNWT use	Survey frequency is a balance between the need for data and	and annual monitoring needs using the adaptive
alternatives or improvements to current	same six steps that the GNWT uses.	following the same six steps that the GNWT	two aircraft for photo census on the Bathurst	the costs and disturbances to the animals. • Reduce the	management framework.
monitoring actions that could be made.	•There is a balance between collecting data	uses: 1) Identify calving ground from collars,	calving ground, which may be redundant. In	number of aircraft. Using one fixed wing aircraft would result in	• The Board commits to discussions with the technical WG
	more frequently and disturbance to the herd.	2) Conduct an aerial reconnaissance to	addition, visual surveys with rear-seat	less disturbance to caribou and costs to GNWT while	to consider a review of statistical analysis approaches for
	There are some redundancies in conducting	stratify the survey area, 3) Aerial photo	observers in fixed-wing aircraft are frequently	maintaining similar data quality.	estimating populations.
	photo censuses and composition counts	surveys, 4) Aerial visual surveys, 5)	employed, particularly in lower density survey	Consider eliminating composition counts. Composition	
	through using two fixed wing and helicopters	Composition counts, 6) Statistical	blocks or environments.	counts offer a good way to estimate if the population is growing	
	on the calving ground.	estimations.	There are redundancies in conducting	or declining without having to do a full population count. Values	
	The WRRB may wish to discuss with the		composition counts. There may be trade-offs	of calves:100 cows do not vary considerably from year to year,	
	GNWT whether a reduced frequency of		to consider when selecting a methodology.	so this is a survey that may not be required every year.	
	monitoring (e.g., every 3 years) would provide		For example, the availability of data and the	Consider a review of statistical analysis approaches for	
	enough data for herd management, and		cost and disturbance to animals for	estimating populations. The WRRB or GNWT may wish to	
	whether using fewer aircraft over a longer		composition counts. There are some	consider a separate statistical review of current statistical	
	period would result in less disturbance to		redundancies in conducting photo censuses	methods.	
	caribou and cost for similar data quality.		with multiple aircraft and multiple composition counts.		
			•The GNWT uses a series of semi-custom		
			statistical analyses which may be redundant		
			but further review is needed. The GNWT's		
			statistical methods are advancements on		
			traditional methods to estimate and control		
			various sources of variation – from observer		
			bias to error in composition data and error		
			due to emigration.		
			-		
Area of Inquiry	Key Findings and Recommendations	What Works Well	Opportunities to Improve	Recommendations	WRRB Response
To determine whether the potential impacts of	•Emigration is not directly reported by the	•Emigration is not directly reported by the		•ERM determines that the potential impacts of emigration have	The Board commits to supporting research that builds
emigration have been accurately described	GNWT to inform management and monitoring	GNWT to inform management and monitoring		been accurately described and used to inform management	on previous work conducted with GNWT collaring data,
and used to inform management and	actions but is accounted for in population	actions but is accounted for in population		and monitoring actions and does not have any	and addresses key concerns previously identified by the
monitoring actions.	counts.	counts. Where studies have been conducted,		recommendations at this time.	Board, including uncertainty around ekwoʻ (caribou) winter
	•The potential impacts of emigration have	herd switching appears to be a relatively			distribution and the complexity of managing overlapping
	been accurately described and used to inform	common			herds.
	management and monitoring actions and ERM	occurrence between adjacent herds, perhaps			
	does not have any recommendations at this	particularly those with a high level of seasonal			
	time.	range overlap, and particularly between small			
		herds or from small herds to large herds. The			
		statistical tools to define switching also			
		appear to be well developed. The GNWT does			
		not appear to report separately the rate of			
		emigration but accounts for emigration and			
		herd switching in their population counts.			
			l .	<u> </u>	