Grande Baleine Complex Guide for Public Consultation

Inukjuaq Version finale

♦ Context

In early September 1992, Hydro-Québec received, from the federal and provincial administrators appointed by virtue of the James Bay and Northern Québec Agreement and the President of the Federal Environmental Assessment Review Panel, the Guidelines for the Environmental Impact Statement for the Proposed Great Whale River Hydroelectric Project.

As soon as it received the Guidelines, Hydro-Québec began analyzing the document to identify the paragraphs that required the gathering of additional information or consultation of the Native communities.

Concurrent to this analysis, Hydro-Québec contacted the representatives for the Cree, Inuit and Naskapi communities to determine how the consultation provided for by the Guidelines would be carried out.

Hydro-Québec prepared this guide in order to complete its information gathering and consult the Native communities. The results of this consultation process, which reflects the spirit of the Guidelines, will be made public.

Introduction of The Guide

Content

This guide is divided into six themes. The various paragraphs of the Guidelines that require the gathering of information or consultation have been grouped according to the following themes:

- 1 Knowledge and valorization of the environment
- 2 Current and future land use
- 3 Mitigative measures and environmental monitoring La Grande experience
- 4 Diet
- 5 Health
- 6 Opening of the territory, transportation infrastructures and collector system

Some of the themes are divided into sub-themes which are listed under the section heading.

Organization

Each theme or sub-theme consists of two elements: the subject (the paragraphs of the Guidelines) and information and questions.

Subject (paragraphs of the Guidelines)

The relevant paragraphs of the Guidelines have been transcribed in full to provide a context for the information gathering or the consultation process, the specific subject of which being the parts of the paragraphs that are **underlined and in bold**.

For example, on page 1 - 1, the part of paragraph 305 that is underlined and in bold reads as follows: "The Proponent must <u>define the valued ecosystem components recognized by each of the cultural groups concerned, as well as those components that they consider to be threatened by or vulnerable to the effects of the proposed project."</u>

Inukjuak 1

Information and Questions

The "information" part of the second element summarizes the nature of the available data used in preparing Hydro-Québec's impact study.

The "Question(s)" part can take various forms:

• Provide or complete a valorization. For example, on page 1 - 2, respondents are asked to determine the order of importance of the vegetation components (Table 1-A) and on page 1 - 3, to complete a list of components (Table 1-B), if applicable

• Answer a question.

For example, on page 1 - 9, respondents are asked to specify whether the existence of an ice cover on various waterways affects the conditions of movement of the communities concerned.

• Identify, correct or complete information on a geographical map (plate). For example, on page 2 - 3, respondents are asked to correct or complete the information on visits to the area.

Answering procedure

The space provided to answer the questions may be insufficient. If this is the case, you can insert additional pages indicating which question(s) they refer to.

Furthermore, if you have documents that answer any of the questions asked, you can use them to replace or supplement your answers.

Hydro-Québec appreciates your participation in this consultation and remains at your disposal for any information to facilitate its achievement and ensure its success.

This document is available in French, Inuttitut and Cree

Inukjuak 2

1 Knowledge and Valorization of the Environment

- 1.1 Valorization of the Components of the Environment
- 1.2 Vulnerable, Rare or Threatened Species
- 1.3 Temporal and Geographic Boundaries
- 1.4 Exceptional Sites

1.1 Valorization of the Components of the Environment

1.1.1 Subject (paragraphs of the Guidelines)

303. The Proponent shall provide a detailed description of the components of the environment which would be affected by the proposed project, based on the experience and knowledge of each concerned group. This chapter presents a framework based on generally accepted and scientific methods, which will be used as a minimum for describing the environment. As mentioned above, the Proponent shall ensure that this description is adequate in relation to Chapter 5.

305. In order to properly organize and target the description, the Proponent must <u>define the valued ecosystem components recognized by each of the cultural groups concerned, as well as those components that they consider to be threatened by or vulnerable to the effects of the proposed project.</u>

1.1.2 Information and Questions

Information

Certain environmental components are more important than others from both a social and scientific point of view. So that the impact study can concentrate on the most significant environmental components, certain components have special value and receive special attention.

Hydro-Québec would like your comments on the selected components and on the criteria it uses to evaluate them. These components are vegetation, wildlife, and the ice regime. The criteria used are the potential wildlife habitats, plant communities of restricted distribution and the winter habitat.

A. Vegetation

Table 1-A lists the valued vegetation components and valorization criteria used in Hydro-Québec's impact study.

Use the right-hand column ($Your\ Value$) to indicate what importance you give each component: 1 = highly valued; 5 = not valued. If several components hold the same value for you, give them the same number.

Table 1-A - List of Vegetation Components Selected by Hydro-Québec

Components	Valorization Criteria	Your value
Aquatic and riparian vegetation	Potential habitat for fish, birds and land	
	animals	
Peat lands	Potential habitat for birds and for	
	caribou calving	
Coastal habitats	Potential habitat for birds	
Boreal poplar forests, white	Plant communities of restricted	
birch stands and aspen forests	distribution	
	Communities at the northern limit of their	
	distribution	
	Potential habitats for certain land mammals	
Willow forests on clay	Plant community of restricted	
	distribution	
Lichen-dominated spruce forests	Winter habitat of caribou	
and lichen ground cover		
Jack pine forest	Plant community of restricted	
	distribution	
	Plant community at the northern	
	limit of its distribution	

If you feel that the list of components is incomplete, or you wish to suggest other valorization criteria, fill out Table 1-B below. Assign a value to each component (1 to 5).

Table 1-B - List of Additional Vegetation Components

Components	Valorization Criteria	Your Value

B. Wildlife

Information

The **valorization criteria selected** for the wildlife components in Hydro-Québec's impact study are the following:

- 1. Species harvested by Native people or reserved for their exclusive use in accordance with Appendix 2, Chapter 24 of the JBNQA;
 These species are all mustelids (mink, ermine, weasel, marten, fisher, otter, skunk and wolverine); beaver; lynx; fox; polar bear; muskrat; porcupine; woodchuck; black bear (on the Cree traplines North of the 50th parallel); wolf (North of the 50th parallel); freshwater seals; whitefish (non-anadromous); sturgeon; suckers; burbot; hiodons (mooneye and goldeye).
- 2. Species of interest for educational and recreational activities.
- 3. Species recognized as rare or vulnerable by the Committee on the Status on Endangered Wildlife in Canada and the Comité pour la sauvegarde des espèces menacées du Québec (COSEMEQ) or likely to be designated as threatened or vulnerable (MLCP 1992) by virtue of the "Loi sur les espèces menacées ou vulnérables" (Act respecting threatened or vulnerable species).
- 4. Species located at their distribution limit or having a restricted distribution in the study area.

These criteria are listed in Table 1-C on the following page.

Table 1-C lists the wildlife resources and the valorization criteria used by Hydro-Québec.

Use the right-hand column ($Your\ Value$) to indicate what importance you give each component: 1 = highly valued; 5 = not valued. If several components hold the same value for you, give them the same number.

Table 1-C - List of Wildlife Resources

Wildlife Resources	Valoriz	Valorization Criteria Used by Hydro-Québec			Your Value
	1 Harvesting or Native exclusive use	2 Recreation Education	3 Rare or Threatened	4 Restricted Distribution	
Marine Invertebrates					
Sea cucumber	X				
Snow crab	X				
Sea urchin	X				
Blue mussel	X				
Freshwater and					
Estuarine Fish					
Lake herring	X				
Lake whitefish	X				
Round whitefish	X				
Northern pike	X	X		X	
Burbot	X				
Long-nosed sucker	X				
White sucker	X				
Brook trout	X	X			
Arctic char	X	X		X	
Landlocked salmon	X	X		X	
Lake trout	X	X			
Fourhorn sculpin	X				

	1 1	2	3	4	
	Harvesting	Recreation	Rare or	Restricted	Your
	or Native	Education	Threatened	Distribution	Value
	exclusive	Laucation	Tineatenea	Distribution	v aruc
	use				
Marine Fish	ase				
Arctic sculpin	X				
Fourhorn sculpin	X				
Shortspine sculpin	X				
Greenland cod	X				
Marine Mammals	11				
Beluga	Х		X		
Bearded seal	X				
Ringed seal	X				
Common seal	X			X	
Freshwater seal	X		X	X	
Land Mammals and Fur-					
Bearing Animals					
Caribou	X	X			
Musk ox				x(*)	
Moose	X	X		X	
Black bear	X				
Wolf	X				
Arctic fox	X				
Red fox	X				
Canada lynx	X		X		
River otter	X				
American marten	X				
Ermine	X				
American mink	X				
Beaver	X			X	
Muskrat	X	X			
Snowshoe hare	X	X	X		
Arctic hare	X	X	X		
Porcupine	X	X			
Avifauna					
Common loon	X				
Red-throated loon	X				
Snow goose	X	X			
Osprey		X			
Canada goose	X	X			
Brent goose	X	X			
Teals	X	X			
American black duck	X	X			
Mallard	X	X			

^(*) Specie introduced by the MLCP between 1973 and 1983

	1	2	3	4	
	Harvesting	Recreation	Rare or	Restricted	Your
	or Native	Education	Threatened	Distribution	Value
	exclusive				
	use				
Northern pintail	X	X			
Northern shoveler	X	X			
Gadwall	X	X			
Scaups	X	X			
Harlequin duck			X	X	
Oldsquaw duck	X	X			
Eiders	X	X			
Scoters	X	X		X	
Goldeneye	X	X			
Ruddy duck	X	X			
Mergansers	X	X			
Sandpipers				X	
Gulls	X				
Terns	X				
Black-legged kittiwake	X				
Thick-billed murre	X				
Black guillemot	X				
Bald eagle		X	X		
Golden eagle		X	X		
Peregrine falcon		X	X		
Falcons	X				
Owls	X				
Boreal owl	X				
Snowy owl	X				
Spruce grouse	X	X			
Pintail grouse	X	X			
Willow ptarmigan	X	X			
Rock ptarmigan	X	X			
Buntings	X				

If you feel that the list of wildlife resources is incomplete, or you wish to suggest other valorization criteria, fill out Table 1-D below. Assign a value to each wildlife resource (1 to 5).

Table 1-D - List of Additional Wildlife Resources

Wildlife Resources	Valorization Criteria	Your Value

C. Ice Regime

Ice affects how Native people move about and use the land. It also affects how many species use the environment.

• In the case of your community, does the existence of an ice cover alter the conditions governing your movement in the territory?

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Yes No	
If so, in what way does the existence of an amovement? Specify locations, methods and	ice cover alter the conditions governing your d routes.
Watercourses	Changes in Conditions of Movement
Manitounuk Sound	
Grande rivière de la Baleine	
Petite rivière de la Baleine	

Watercourses	Changes in Conditions of Movement
Coats River	
Boutin River	
~	
Bienville Lake	
_	
• For your community, are the weevents (e.g: holidays, celebration	vinter freeze and spring thaw reference points for particular ons or other activities)?
Yes No	
If so, name the events and when	they occur (freeze or thaw).

1.2 Vulnerable, Rare or Threatened Species

1.2.1 Subject (paragraph of the Guidelines)

372. From the standpoint of ensuring the diversity of species in the study area, the Proponent shall discuss the preservation of vulnerable, rare or threatened species in the area concerned, as well as that of relevant plant communities and fragile ecosystems. This process will require input from various agencies, both provincial (ministère de l'Environnement du Québec [MENVIQ], ministère des Loisirs, de la Chasse et de la Pêche [MLCP]) and federal (Environment Canada), as well as from the Native communities. The Proponent shall consult with them concerning flora, plant communities, land and marine mammals, fish and birds. Current information shall then be discussed, and any inventories deemed necessary by government authorities in order to permit a decision on the proposed project shall be performed. The Proponent shall present the current and anticipated protection programs which are or will be in effect in this area.

1.2.2 Information and Questions

♦ Information

The impact study deals with the following threatened species: the beluga, freshwater seal, Canada lynx, Harlequin duck, Bald eagle, Golden eagle and Peregrine falcon. These species were identified by the committees of experts on threatened species and the "Loi sur les espèces menacées et vulnérables" (Act of respecting threatened or vulnerable species). No plant species was identified as being vulnerable, rare or threatened

♦ Questions In your opinion, are there other wildlife species that you feel are vulnerable, rare or threatened? Yes _____ No ____ If so, which ones? Are there some plant species that you consider vulnerable, rare or threatened? Yes _____ No ____ If so, which ones? Are there some plant species that are of interest to your community (ex: medicinal plants)? Yes _____ No ____ If so, which ones? Name the uses for these plants.

1.3 Temporal and Geographic Boundaries

1.3.1 Subject (paragraphs of the Guidelines)

308. Geographic boundaries. The boundaries of the area which may be affected by the proposed project vary, depending on the nature of the phenomenon considered. For example, given the migration of certain aquatic, terrestrial, and avian species, the range of biological concern could extend beyond the limits of the watersheds directly affected by the project. Hunting, fishing, trapping, and harvesting along the coastline and inland also mean that certain impacts on the activities of the relevant populations could also extend beyond these boundaries, notably to the residents of the Belcher Islands. The same could be said of the many activities related to the transportation of goods and services and to the traffic of people traveling to or from the area. Thus, while a number of impacts will be concentrated within a relatively restrictive study area, others will involve larger areas. **The Proponent shall therefore specify and justify the study area for each component of the environmental description, taking into account the boundaries of each component and those recognized by each cultural group**, and selecting the larger area if various boundaries of a given area are not the same.

309. Temporal boundaries. In addition to the geographic dimension, the Proponent shall also **consider the temporal dimension**, including multi-annual cycles and seasonal variations for each component of the environment and shall determine the appropriate temporal boundaries for each.

310. In order to properly assess the impacts of the proposed project, the Proponent <u>must</u> identify historical trends. For each component, the Proponent shall determine how far in the past the study should begin and how far into the future it should be carried. In order to select these temporal boundaries, the Proponent shall <u>take into account the limits generally recognized by each of the affected cultural groups.</u> If these limits differ for a single component, the Proponent shall select the longer period.

1.3.2 Information and Questions

♦ Information

Table 1-E gives the geographic and temporal boundaries of the various components of the continental and marine environments. The geographic boundary means the territory covered by the Hydro-Québec studies, whereas the temporal boundary indicates the date from which scientific inventories have been made by Hydro-Québec or others.

Table 1-E - Geographic and temporal boundaries of the various components of the region of the Grande Baleine complex

Environment	Component	Geographic Boundary	Temporal
			Boundarya
Continental	Primary producers Benthic and entomological fauna	GRB and PRB basins GRB and PRB basins	1975 1975
	Ichtyofauna Vegetation Amphibians	Study area Study area Lakes Bienville, Elizabeth and Kakupis areas	1967 1950 1976
	Birds Waterfowl and loons	GRB, PRB and Nastapoka basins Nouveau-Québec (scoters only)	1975
	Harlequin ducks	GRB, PRB, Nastapoka, Eau Claire basins and La Grande complex	1975
	Shore birds	Lakes Elizabeth, Kakupis, Bienville, confluence of GRB and Coats	1976
	Birds of prey Land birds	Study area GRB, PRB basins and La Grande complex	1969 1975
	Mammals Large land mammals Caribou	Nouveau-Québec	1954
	Calving	GRB basin, lakes des Loups- Marin, Mollet, Lenormand, Saindon, Amichinatwayach and Guillaume-Delisle areas	1977
	Lichen biomass Grazing and trampling of lichen	Study area (west of 74° west)	1987 1990
	Grazing and trampling of lichen	Study area (east of 74° west) and La Grande complex	1990

 $\begin{tabular}{ll} Table 1-E-Geographic and temporal boundaries of the various components of the region of the Grande Baleine complex (continued) \\ \end{tabular}$

Environment	Component	Geographic	Temporal
	_	Boundary	Boundary ^a
Continental	Musk-Ox	Study Area	1985 (1st
			observation)
	Moose	GRB basin	1971
	Fur-bearing animals		
	and small mammals		
	Canada lynx	Study area	1975
	Snowshoe hare	Study area	1975
	Beaver	GRB, PRB and	1978
		Nastapoka basin	
	Other rodents	Region of confluence	1976
		of GRB and Coats	
	_ ,	River	
	Freshwater seal	Study area and	1978
		periphery	
Marine	Primary and	Hudson Bay	1975
	secondary production		1001
	Coastal vegetation	Pointe Louis XIV to	1981
	T. 1	Nastapoka River	1076
	Ichtyofauna	Manitounuk Sound,	1976
		large estuaries	
		Small estuaries of	
	A: 6	Hudson Bay	1075
	Avifauna	Pointe Louis XIV to	1975
	Marin a mammala	Nastapoka River	
	Marine mammals	Hudson Day and	4 = b
	Beluga	Hudson Bay and	1752 ^b
		Strait, James Bay	

a: Studies in which the inventories were taken using recognized scientific techniques
b: According to the Hudson Bay Company capture registers

Notes: • The project study area is illustrated by the boundary of the watersheds shown in Plate 2
• GRB: Grande rivière de la Baleine
• PRB: Petite rivière de la Baleine

♦ Questions
• Do the geographic and temporal boundaries seem adequate to you for each of the components?
Geographic boundaries: Yes No Temporal boundaries: Yes No
If the <u>geographic</u> boundaries do not :
Could you state in the table below the geographic boundaries that would seem adequate to you, the reasons for your choice and the components to which they would apply?

Components	Reasons	Geographic Boundaries

If the **temporal** boundaries **do not**:

To your knowledge, do data previous to the dates given in Table 1-E exist? Could you state in the table below the components, dates and their references?

Components	References	Dates	

1.4 Exceptional Sites

1.4.1 Subject (paragraphs of the Guidelines)

321. The Proponent shall provide an inventory of all sites particularly representative of the milieu or exhibiting unique physical or biological features in the region of the proposed project. The surficial geological map shall indicate the special sites or land forms that warrant protection because they are unique or remarkable, according to the residents of the region and others. The uniqueness of any sites which might be submerged or altered as a result of development shall be described. The stranded shorelines around Lac Fagnant and the terraces along the Great Whale River are examples of such features.

376. The Proponent shall describe the economy of each community. Notwithstanding the present activities and future opportunities for employment and for the production of goods and services by Natives for their specific needs, this profile shall deal specifically with the evolution since the 1950s of the hunting, fishing and gathering economy, as well as other traditional and commercial activities, taking into account the institutional structure introduced by the JBNQA. The Proponent shall draw a historic and current portrait of land use (1950-1975 and 1975-1990) in the area affected by the proposed project. Traditional and modern land use in the study area including Belcher Islands by Natives and non-Natives shall be clearly identified. Areas which are considered of particular interest to government bodies or other groups interested in the protection and development of the region (parks, reserves, conservation areas, sites or watercourses of interest for recreation or tourism, etc.) will be identified and justified with respect to the objectives of the Natives and non-Natives.

1.4.2 Information and Questions

♦ Information

The areas of particular interest were selected based on the criteria identified in a report prepared in conjunction with Environment Canada and La Société de développement de la Baie James (*Sites intéressants du territoire de la Baie James*. Rapport E.T.B.J. #36, Octobre 1977). This report identifies 26 interesting sites, among which the following sites are considered exceptional in terms of their scenic or geomorphological attraction.

The exceptional sites are the following:

- the islands and peninsula in the Manitounuk Sound;
- the mouth of the Petite rivière de la Baleine;
- the waterfalls and terraces at kilometers 30 and 65 of the Grande rivière de la Baleine;
- the rapids, waterfalls and escarpments between kilometers 198 and 225 of the Grande rivière de la Baleine;
- the beaches and sandy shores of Kaychisakakamaw Lake and the Geoffroy River, immediately to the south;
- Kinglet Lake;
- the mountain and the scenic lookouts along the Petite rivière de la Baleine, northeast of the Saindon Lakes.
- the rocky escarpments along the Petite rivière de la Baleine northeast of the Saindon Lakes.

Among the areas classified as interesting are, among others, the mouth and certain other slow flowing sections of the Grande rivière de la Baleine, the Fagnant Lake outwash area, the Second River, the cuestas on Manitounuk Sound, the outwash and esker deposits in the middle of Bienville Lake and Roz Lake.

♦ Area considered for siting of national park

The territory including Lac Guillaume-Delisle and Lac à l'Eau Claire has been identified as a potential location for the creation of a national park by the Environment Canada Parks Service.

♦ Area considered for siting of provincial park

The Direction de l'aménagement of the ministère du Loisir, de la Chasse et de la Pêche has identified the Lake Burton and Roggan River area as a site for a proposed provincial park.

♦ Areas considered for siting of ecological reserves

The Direction de la conservation et du patrimoine écologique of the ministère de l'Environnement du Québec has identified two areas for proposed ecological reserves: Lacs des Loups-Marins and the lower course of the Petite rivière de la Baleine. The exact boundaries of these projects are still provisional, whereas the status of the Lacs des Loups-Marins could be changed.

Both projects are at the preliminary stage. They have not been included in the Direction de la conservation et du patrimoine's short-term schedule for implementation of ecological reserves.

♦ Areas of diverse wildlife resources or special interest

The richest areas in terms of wildlife are Bienville Lake and its periphery, the lower course of the Grande rivière de la Baleine, Laguerne River, the Denys, Marest, Kinglet and Mureau lakes area, the Elizabeth, Kakupis and Fressel lakes area, and the lower course of the Coats River. This category also covers areas favorable to wildlife species with restricted distribution, such as the Petite rivière de la Baleine estuary, the islands, estuary and lower course of the Nastapoka River, as well as the Lacs des Loups-Marins area.

Please examine *Plate 3* now (Special interest areas) at the end of the section and then answer the questions on the following page.

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From your knowledge of the territory, do the sites and areas inventoried on Plate 3 clearly indicate the most representative sites and the areas of particular interest of the territory being studied?
Yes No
If not , indicate on Plate 3 the other sites or areas that you feel are most representative or are oparticular interest. Briefly explain the reasons for your choice.

2 ♦ Current and Future Land Use

- 2.1 Current Land Use
- 2.2 Modes of Transportation 2.3 Future Land Use

2.1 Current Land Use

2.1.1 Subject (paragraphs of the Guidelines)

376. The Proponent shall describe the economy of each community. Notwithstanding the present activities and future opportunities for employment and for the production of goods and services by Natives for their specific needs, this profile shall deal specifically with the evolution since the 1950s of the hunting, fishing, and gathering economy, as well as other traditional and commercial activities, taking into account the institutional structure introduced by the JBNQA. The Proponent shall draw a historic and current portrait of land use (1950-1975 and 1975-1990) in the area affected by the proposed project. Traditional and modern land use in the study area including Belcher Islands by Natives and non-Natives shall be clearly identified. Areas which are considered of particular interest to government bodies or other groups interested in the protection and development of the region (parks, reserves, conservation areas, sites or watercourses of interest for recreation or tourism, etc.) will be identified and justified with respect to the objectives of the Natives and non-Natives.

- 380. Special attention shall be paid to the use of land along Manitounuk Sound and the Great Whale, Little Whale and Nastapoka river estuaries in relation to the distribution of resources, and to their use by the inhabitants of Kuujjuarapik and Whapmagoostui and other populations. This review shall outline the current situation and future prospects, taking into account the social structures, spiritual values, harvesting levels, and the importance of traditional foods. The Proponent shall seek to learn about the possible solutions and alternatives under consideration by the Natives themselves, should access to the territory be substantially modified.
- **567.** The Proponent shall evaluate the effects of the proposed project on the cultures of the Cree, Inuit and, in certain cases, the Naskapis and the people of the rest of Quebec, as well as on the cultural identity of these groups, paying particular attention to the following elements:
- **567** (1). life-style, including dietary practices and consumption habits in general, methods of production and distribution of goods and services, artistic production, types of recreation, holidays and celebrations;
- **567 (2).** the Cree and Inuktitut languages and the teaching of other languages, particularly taking into account the increased presence of individuals who do not speak the Native Languages;
- **567** (3). the transmission of know-how and knowledge, given that the activities that encourage such teaching be modified;
- **567 (4).** spiritual ties any living creatures, and the spiritual dimension of the use of the territory in which they live (rites, ceremonies), including, in some cases, those of the Naskapi;
- **567** (5). burial sites and relations with ancestors (including for the Naskapi);
- **567 (6).** archeological heritage. In this regard, the Proponent shall ensure that archeological digs are carried out on the main development sites and areas proposed for the infrastructures (dams, dikes, reservoirs, roads, airports, etc.). The Proponent shall indicate the measures to be taken should archaeological remains be uncovered;
- **567** (7). sites and phenomena valued for historical, aesthetic, or other reasons (which the Proponent shall identify), such as portage trails, ancient meeting places, sites where specific events occurred, areas of interest rendered accessible by the project, the Native concept of the continual flow of rivers; and
- **567 (8).** the sense of identification and, more specifically, the notions of belonging related to the territory, language, and cultural values, as well as the sense of responsibility toward the ecosystems.

2.1.2 Information and Questions

Indicate whether the information shown on the plates placed at the end of this section accurately reflects the current land use **by your community in the project study area** with respect to the following aspects:

- Examine *Plate 4-I2* (Land occupation by Inukjuak Inuit);enter the information on campsites and travel routes (see legend on the plate).
- Secondly, examine *Plates 6-I2 to 9-12*; identify the parts of the **study area where your community** harvests resources, indicating with a number the resources that are harvested (see legend of plates).
- Spring harvesting by Inuit of Inukjuak community (*Plate 6-I2*).
- Summer harvesting by Inuit of Inukjuak community (*Plate 7-I2*).
- Fall harvesting by Inuit of Inukjuak community (*Plate 8-I2*).
- Winter harvesting by Inuit of Inukjuak community (*Plate 9-I2*).
- Next examine *Plate 10* (Burial sites known by Hydro-Québec); correct and, if necessary, complete the location of your community's burial sites.
- After you have examined and completed these plates, answer the following questions:

What are your community's different holidays and celebrations each year? Indicate whether they are family or community celebrations, the time of year they occur and where you celebrate them.
What other cultural elements could be affected by the construction of the Grande Baleine Complex and how, in your opinion, would they be affected?

2.2 Modes of Transportation

2.2.1 Subject (paragraphs of the Guidelines)

520. In order to evaluate the free movement of all species inhabiting the territory, the Proponent shall inventory and map the land and water routes (including streams, rivers, lakes, estuaries, shorelines and Hudson Bay) and the aerial routes that are currently used, or could potentially be used, and which could be affected by the proposed Great Whale River hydroelectric complex. The seasons during which different movement patterns occur, and the reasons why, shall be particularly taken into consideration. With respect to wildlife, particular attention shall be paid to the movement of beluga populations and the corridors used by caribou. With respect to the human population, the Proponent shall also identify the methods of transportation employed (snowmobiles, canoes, various types of boats, ATVs [all-terrain vehicles], automobiles, trucks, helicopters, airplanes) and their costs. In addition, the Proponent shall describe the existing conditions governing the movement between the territory and neighbouring regions. The Proponent shall also consider the opinions of the inhabitants with regard to conditions of movement, as well as any fears they may express concerning the new conditions that would result from the proposed project.

2.2.2 Information and Questions

♦ Information

Please refer to *Plate 4-I2*, placed at the end of this section, which shows your community's travel routes. Indicate the various methods of transportation used in the course of your movements, for each route and according to the season (snowmobiles, canoes, boats, all-terrain vehicles (ATVs), automobiles, trucks, helicopters, airplanes).

♦ Questions

• For each method of transportation, specify in the table below the existing traveling conditions according to the season.

Method of Transportation Snowmobile	Season	Traveling Conditions (Easy = E) (Difficult = D)
Snowmobile		
Canoe		
All-terrain vehicle (ATV)		
Automobile		
Truck		
Helicopter		
Airplane		
Other		
• Comments		

2.3 Future Land Use

2.3.1 Subject (paragraphs of the Guidelines)

- **380.** Special attention shall be paid to the use of land along Manitounuk Sound and the Great Whale, Little Whale and Nastapoka river estuaries in relation to the distribution of resources, and to their use by the inhabitants of Kuujjuarapik and Whapmagoostui and other populations. This review shall outline the current situation and **future prospects**, taking into account the social structures, spiritual values, harvesting levels, and the importance of traditional foods. The Proponent shall seek to learn about the possible solutions and alternatives under consideration by the Natives themselves, should access to the territory be substantially modified.
- **384.** The Proponent shall pay particular attention to social organization and symbol systems. These include such aspects as relationship to the land, social cohesion and dynamics (as opposed to the breakdown of the social organization), ties to other Native and non-Native communities, social identity, self-esteem, systems for explaining and accepting changes, **common visions of the future**, etc.
- **385.** The Proponent shall analyze perceptions of the proposed project in the communities, in relation to their own **visions of the future.**
- **530.** In addition, the Proponent shall estimate the future use of other resources in the territory (water, minerals, appeal of nature in general), by local communities and by the inhabitants of other regions for cultural purposes and for recreation, tourism, energy production and other purposes. The Proponent shall also consider the economic contribution of these resources, that is, the creation of revenues and especially of jobs (in outfitting, tourism, mining operations, etc.).
- 552. The Proponent shall discuss in what way the proposed project is compatible with Native or non-Native plans for future development of the territory. For example, the Proponent shall examine the effects that would result from economic stimulation in the region (investment, employment structure, income, etc.). The Proponent shall in particular consider the future use of new products, the introduction of new technologies to process raw materials already in use, and the development of new markets. In short, the Proponent shall study the effects of the proposed project (including the construction of roads and airports) on regional development (outfitting, mines, etc.). The Proponent shall also examine the consequences of the proposed project on the availability of government services, the quality of air transport services, and the cost and availability of consumer products (the absence of competition shall be emphasized, when appropriate).

2.3.2 Information and Questions

. Questions

pirations, shared visions of the future, your own visions of the future)?
can enclose any background or policy document that may clarify or complete your answer.
ow please refer to <i>Plate 3</i> (see end of this section) which illustrates some of the development ects planned in the territory. To your knowledge, are there any other recreation and tourism: outfitters), mining or other development projects that can be added to this plate?
Yes No
o, indicate their location on the plate and provide the following information: ne of the organization responsible, description and scope of the project(s) and the expected or of implementation.

3♦ Mitigative Measures and Environmental Monitoring — La Grande Experience

3.1 Mitigative Measures3.2 Environmental Monitoring

3.1 Mitigative Measures

3.1.1 Subject (paragraphs of the Guidelines)

603. A detailed description of the Proponent's policy concerning mitigation and compensation shall be presented, including its rationale and an analysis of <u>mitigation</u> and compensatory measures <u>undertaken with respect to the La Grande projects</u>. In particular, if funds have been set aside (whether as capital or as operating costs) for mitigation and compensation, the Proponent shall distinguish between funds which were destined for mitigation and for compensation, and shall explain how these figures were arrived at. The Proponent shall evaluate the effectiveness and efficiency of the mitigative and compensatory measures for the La Grande projects and shall report on the level of satisfaction of the affected populations with regard to those measures. The Proponent shall also refer to other projects in northern environments (Churchill, Churchill-Nelson, etc.), as well as to relevant literature available, in order to demonstrate that the mitigative and compensatory measures proposed reflect the state of the art in the field.

605. In keeping with the requirements outlined in paragraph 128, the Proponent shall consult with the Native populations and ascertain their <u>needs with regard to developing mitigative</u> and compensatory <u>measures</u> for the proposed project. A concrete mitigation and compensation program should reflect these consultations.

608. The Proponent shall also report on the experience concerning the organization of remedial work activities and propose an institutional framework appropriate to the proposed project. The proposed institutional framework shall take into account the central role of Native peoples who will be affected by the proposed project.

3.1.2 Information and Questions

♦ Information

In a territory that had experienced little development, construction of the La Grande Rivière hydroelectric complex was of a nature to bring about physical and biological changes in the environment, just as it could affect the lifestyle of the Native population. A series of remedial work activities therefore needed to be considered to reduce or limit the impacts of the project.

Thus, from the outset, the James Bay and Northern Quebec Agreement provided for the introduction of a series of mitigative measures in favor of the local populations: a land regime was in fact instituted, as well as a hunting, fishing and trapping regime subject to the principle of wildlife conservation.

Moreover, many species of mammals, fish and birds were reserved for the exclusive use of Natives. In addition, the Agreement made it possible to guarantee levels of harvesting for food purposes, in case of negative fluctuations in the animal population.

Finally, various programs were chosen for the different Cree and Inuit communities: an *income* security program that provides an annual income to Crees who pursue the traditional lifestyle on a regular basis; an *Inuit assistance program* that is aimed at guaranteeing the supply of goods and facilitates the practice of traditional activities; and a *hunting*, *fishing and trapping assistance* program designed to provide an income, benefits and other incentive measures for the Naskapis of Québec who wish to practice traditional activities. With regard to the Naskapi community, the Northeastern Québec Agreement provides for the same programs as for the Cree and Inuit communities.

In addition, to **facilitate access to the territory by the Natives**, improve the navigation conditions on the reservoirs or in the diversion areas, and provide for better exploitation of the resources, several complimentary measures were adopted. Namely:

- access ramps to the reservoirs and roads to the access ramps. Generally located in areas that can be accessed from the main road system and providing access to navigable portions of the reservoir along major transportation axes;
- landing areas for hydroplanes in order to serve remote portions of the reservoirs that are inaccessible by road but which are of interest to the local population for hunting, fishing and trapping;
- **navigation corridors** along the James Bay coastline to ensure the safe movement of craft used in the pursuit of traditional activities;
- cleared **multipurpose areas** near the main hydroelectric structures that are most easily accessed by road;
- **net fishing sites** in areas favorable to the concentration of certain fish species and where, consequently, the trees have been cut, and the water surface cleared of cut debris and other materials that could damage fishing equipment;
- **goose-hunting ponds** to encourage waterfowl to stop over during migration periods and to raise broods:
- snowmobile trails;
- the construction of **base camps and cabins** to improve living conditions during the practice of traditional activities:
- **barges** for the transportation of goods.

A series of remedial works were also selected to **improve the biological productivity of certain habitats**, such as:

- **clearing the mouth of tributaries** to facilitate access of the fish in the reservoirs to the tributaries most suited to spawning;
- **the creation of spawning grounds on banks** by improving the physical features of portions of the reservoir banks that may be suitable for spawning;
- the **reconstitution of riparian habitats** by introducing shrubs sought by small game on certain sections bordering on or near the reservoirs;
- **renewal cuts** along the reservoirs to stimulate maximum growth of stump shoots on which moose and small game can feed because they are now accessible;
- **protective dikes** in diversion areas to maintain the biological quality of the most productive environments and counter the major erosion phenomena that can detract from the biophysical quality of the milieu:
- **construction of weirs** in reduced-flow rivers to restore a body of water to its pre-cutoff area and volume, halt erosion and improve navigation;
- sowing seeds and planting young shrubs on exposed banks of reduced-flow rivers to halt erosion caused by surface runoff and encourage the establishment of wildlife resources that are of particular interest to the local population with regard to hunting and trapping;
- **planting over borrow pits** to restore the environment.

Finally, a certain number of measures were aimed at **enhancing the environment** and new hydroelectric developments.

- This is the case of **archaeological digs** which were carried out, following systematic inventories and studies of the area potential, in the areas likely to be affected by the construction of the hydroelectric developments.
- Similarly, **landscaping** was done along the tourist routes offering, among other things, **scenic lookouts** built at strategic points, as well as a series of environmental **information** and road sign panels.

These activities, for the most part, were performed as part of a set of structures put in place by the various agreements signed with the Native communities after the JBNQA:

- 1. Comité des experts de l'environnement [Environmental Experts Committee] (JBNQA 1975)
- 2. La Société des travaux de correction du Complexe La Grande SOTRAC [The La Grande Complex Remedial Works Corporation] (JBNQA 1975)
- 3. Le Groupe d'étude conjoint Caniapiscau-Koksoak GECCK [The Caniapiscau-Koksoak Joint Study Group CKJSG] (JBNQA 1975)
- 4. Le Comité conjoint Chasse, pêche et trappage [Hunting, Fishing and Trapping Coordinating Committee] (JBNQA 1975)
- 5. La Société Eeyou [The Eeyou Corporation] (La Grande (1986) Agreement)
- 6. Le Comité Mercure [The Mercury Committee] (Mercury Agreement 1986)
- 7. Kuujjuamiut inc. (Kuujjuaq Agreement)
- 8. Comités de liaison (liaison committees)

The role of the Société des travaux de correction du complexe La Grande (SOTRAC), defined by the James Bay and Northern Quebec Agreement, was especially important in correcting or mitigating the repercussions on the traditional activities of the Crees, as construction of the hydroelectric complex progressed. Some of the work became linked with the preservation of wildlife in the affected areas and with the improvement of wildlife habitats in unaffected areas (such as the inventory of beaver lodges and their intensive trapping in the reservoirs, the construction of breeding farms, or the remote sensing studies with caribou and beaver). The object of other work was mainly to improve access to the territory (such as the creation of snowmobile trails) and wildlife harvesting conditions. Moreover, SOTRAC favored an open participation structure, with a board of directors made up of an equal number of voting members from the SEBJ and the Cree community.

The Mercury Committee also played a central role in supervising the implementation of the mercury program, determining which studies and research projects to carry out under this program, informing the Native communities on a regular basis, and ensuring that a medical follow-up was performed by the regional health boards . The committee itself was managed by four-part Cree/Government/Hydro-Québec/SEBJ representation.

Finally, liaison committees were set up by the SEBJ for each of the La Grande phase II construction projects, with a mandate to: develop the mechanisms for controlling access to these sites, recommend safety measures, inform the Native communities of employment opportunities and contracts arising from the construction in process, and handle other matters of common interest that may be entrusted them. At LG-1, for example, the liaison committee was made up of eight people, among whom three representatives of the Chisasibi Band Council, three representatives of the SEBJ, and two SDBJ representatives.

Table 3 below summarizes some of the mitigative measures introduced following construction of the La Grande complex.

Table 3 – Summary of Some Mitigative Measures

CATEGORIES	OBJECTIVES	MEANS	PERFORMANCE RESULTS
• SEEDING AND PLANTING	 Restore sites affected by the construction work Improve visual aspect Control erosion and stabilize exposed banks 	 Seeding, by airplane, of herbaceous species mixed with fertilizers Planting small shrubs individually Herbaceous species only, shrubs only or seeding and planting 	 Excellent results with restoring sites affected by the construction work Effective in countering erosion from runoff and wind erosion of newly exposed banks
	 Accelerate buffer zone reconstitution process Make area attractive to wildlife 		• These measures do not accelerate the natural evolution process; they delay it in some cases • Rehabilitated areas rarely used by waterfowl
CLEARING	 Improve visual quality in the vicinity of the construction work Mandatory clearing work required for hydraulic purposes Improve access to bodies of water Facilitate fishing 	 Large-scale clearing using machinery Selective manual clearing 	 Good results in the vicinity of the construction work In order to improve access and facilitate fishing, the areas to clear must be carefully selected
	Encourage regeneration of shrubs Clear areas around reservoir to encourage growth of new shrub species Maintain access of fish to spawning sites at the mouths of tributaries flowing into the reservoir	 Small-scale clearing in carefully selected areas, depending on features of reservoir banks Small-scale clearing at mouths of tributaries with high potential for use 	Accelerates recolonization by shrub species Promotes the spread of herbaceous plants from open areas Doomed to failure if clearing is below maximum elevation of the reservoirs Clearing the mouths of the tributaries has made access easier for walleye

RECOVERY AND ELIMINATION OF WOOD DEBRIS	 Facilitate navigation and landing Protect manmade structures 	 Gathering and burning wood debris that has washed ashore in selected areas Gathering and burning floating wood debris 	 Effective in areas most used by local populations Cannot be applied to large areas
	 Make bodies of water more attractive Improve access to tributaries Promote spawning of walleye and whitefish Allow growth of vegetation in riparian buffer zone 		Performance not verified Frequent returns possible
HATCHERIES	• Maintain access to spawning sites and perenniality of the species	• Constructing fish-ladders	• Generally yields good results
	 Promote the reproduction of species valued by the Natives Facilitate access of fish in reservoirs to spawning sites 	 Creating spawning grounds by spreading gravel Repairing existing spawning grounds Manual clearing of the mouths of tributaries 	• Biological effectiveness confirmed
FISHERIES DEVELOPMENT	Promote use of new bodies of water Promote local and regional economic developments	 Intensive fishing in semi-enclosed bays Seeding with indigenous species of fish Using every means to facilitate access (ramps, clearing, recovery of wood debris, etc.) Construction of weirs in rivers 	• Its effectiveness depends on the interest of users
WATERFOWL HABITATS	Promote harvesting of wildlife	Developing ponds (clearing)Work on coastal wetlands (dikes)	• Seem to yield good results up to now (Recent measure)

WATERFOWL HABITATS (cont'd)	• Encourage species to flourish	 Artificial nesting grounds Seeding of herbaceous species Clearing of selected areas with restricted access to encourage the establishment of herbaceous plant communities 	• Untested means
FUR-BEARING ANIMALS	• Prevent losses during filling of reservoirs	Intensive trapping	• Seems to yield good results (difficult to measure)
SMALL ANIMALS	• Improve the quality of small animal habitats and promote their use in the short term	• Cuts to encourage secondary growth in valleys and areas adjacent to the reservoirs	• Renewal cuts have proven effective in the valleys
ACCESS TO THE TERRITORY	• Restore access to some of the territory lost due to construction	Construction of roadsConstruction of bridges	• Restores and often improves access
	 Open up access to a vaster territory by means of roads Reduce cost of transporting people and goods Link isolated communities 	 Permanent roads Winter roads Snowmobile trails Maintenance of temporary roads built during construction phase 	
	Make navigation and landing safe Shorten navigation time	 Construction of small hydroport complexes Construction of access ramps Navigation charts Construction of navigation channels Development of navigation corridors 	

IMPROVEMENT OF	 Lessen isolation 	 Radiocommunication 	
LIVING	 Increase safety 	stations	
CONDITIONS IN	• Reduce provisioning	 Construction of base 	
SECONDARY	costs	camps and hunting	
CAMPS		lodges	
		• Providing of material	
		and equipment to	
		facilitate traveling	

Questions

• The previous pages described the measures to facilitate access to the territory carried out for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

Measures to Facilitate Access to the Territory by the Natives	Need	Importance
•Access ramps to reservoirs		
•Roads leading to access ramps		
•Landing areas		
•Navigation channels		
•Multipurpose areas		
•Net fishing sites		
•Goose-hunting ponds		
•Snowmobile trails		
Base camps and cabins		
•Barges		
•Other measures that would be important (which ones?)		

• The previous pages described the measures to improve the biological productivity of the habitats that have been taken for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

Measures to Improve the Biological Productivity of the Habitats	Needs	Importance
Clearing mouth of tributaries		
Creation of spawning grounds on banks		
Restoration of riparian habitats	·	
Renewal cuts	·	
Protective dikes	·	
Construction of weirs		
• Seeding		
Planting of young shrubs on exposed banks		
Planting in borrow pits		
• Other measures that would be important (which ones?)		
	<u> </u>	
	<u> </u>	
	_	
	_	

• The previous pages described the measures to enhance the environment and the new hydroelectric development projects carried out for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

Hydroelectric Developments	Need	Importance
Archaeological digs		
• Landscaping		
• Planting over borrow pits to restore the environment		
• Other measures that would be important (which ones?)		
put in place for selecting and implementing the mitigative etc.)	measures? (Committe	e, participants,
• When should the mitigative measures be put in place?		
During the construction of the complex After the construction of the complex		
• Comments		

3.2 Environmental Monitoring

3.2.1 Subject (paragraph of the Guidelines)

703. Actions contemplated for the operational phase of the proposed Great Whale project should be informed by and make reference to the experience gained through the La Grande project. The Proponent shall submit an assessment, along with comments from the Natives, of the environmental monitoring performed for the first phase of the La Grande complex, including an evaluation of how the results of this monitoring enhanced the understanding of the ecosystems, and how the information produced was linked to action with respect to specific remedial or compensatory measures, and specific project management decisions.

3.2.2 Information and Questions

Information

A vast environmental monitoring program was implemented at La Grande in order to assess and understand scientifically the nature and scope of the changes that occurred in the environment following the creation of the reservoirs of the complex and its related structures.

Essentially, the object of the monitoring was to analyze the physical, physico-chemical, and biological evolution of the aquatic environments created or modified by the La Grande complex, as well as that of the principal wildlife species and their habitat, including their use.

The principal elements of the biophysical environment that were studied are: water quality, the fish, mercury, the estuaries and eastern coast of James Bay, and land animals.

For the first three elements, namely water quality (including plankton and benthos), fish and mercury, 27 sampling stations were installed in the vicinity of the La Grande-2, Opinaca and Caniapiscau reservoirs.

The water quality, phytoplankton and zooplankton were sampled twice a month from 1977 to 1982, and once a month thereafter. The benthic organisms were sampled twice per summer from 1977 to 1982. The fish was always sampled once per month. The sampling frequency of the water quality and phytoplankton, during periods of ice cover, changed from four times per year from 1977 to 1982 to once per year thereafter. Mercury was and still is sampled from the flesh of fish harvested every two years.

Moreover, the fish harvested at the various sampling stations made it possible to track the density, growth and condition factors of the fish. All fish caught were in fact counted, as well as individually weighed and measured.

Studies were also carried out on the estuaries and eastern coast of James Bay to determine the consequences of the changes brought about in the estuary of La Grande Rivière, the flow of which was increased, and in the estuary of the Eastmain River, the flow of which was heavily reduced.

The studies were conducted before, during and after the construction of the La Grande project and dealt principally, in the physical domain, with the temperature, tide, freshwater plume, advance of the fresh-salt water interface, erosion, sedimentation and the ice regime, and with regard to the biological characteristics, with fish populations and waterfowl habitats. Studies of coastal waterfowl habitats were conducted jointly by the Société d'énergie de la baie James and the Canadian Wildlife Service.

Concurrently, certain wildlife species were systematically monitored. This was the case notably of the caribou, whose movements were studied by means of transmitters, including its principal feeding and calving areas, and waterfowl, whose preferred habitats and reproduction were also studied.

Finally, the development of the La Grande hydroelectric complex led to changes in the frequentation and use of the James Bay territory by the Native populations and the south. Studies were therefore conducted to monitor the tourism and recreation traffic on the roads, and the recreational harvesting of wildlife resources by non-Native workers and visitors.

Mercury was also monitored among the Cree population by the James Bay Conseil de la santé et des services sociaux, by specifically targeting certain risk groups, such as women of childbearing age and adults over 40 years of age.

♦ Questions

• Given the La Grande monitoring experience, which elements of the biophysical environments would you specifically like to see studied in the case of the Grande Baleine hydroelectric development project?
• Given the La Grande monitoring experience, which elements of the human environment would you specifically like to see studied in the case of the Grande Baleine hydroelectric development project?

4 ♦ Diet

4.1 Subject (paragraphs of the Guidelines)

- **335. Fish populations.** The Proponent shall present a complete list of species encountered in the territory under study and shall indicate their preferred habitats, particularly their spawning areas. The Proponent shall provide an inventory of fish habitats in the area and shall indicate the geographic distribution of each species by season. The Proponent shall identify those factors which limit the distribution and population of those **species of interest for Native diets** and for sports fishing. The concentrations of contaminants in edible parts of fish shall be measured to provide baseline information.
- **350.** The Proponent shall present information on the geographic distribution, abundance, diet, preferred habitat, mortality factors, reproductive factors, known contaminant levels and **importance of marine invertebrates to Native diets.**
- **361. Rare species.** The Proponent shall then discuss <u>plant communities</u> of interest to the region: rare plants, exceptional, endangered or regionally significant populations, range extensions, special habitats, and areas used by Native peoples where <u>species of interest</u> (<u>for food</u>, medicine, etc.) are found. These populations are to be localized and described using the remote sensing studies of the last twenty years, where appropriate.
- **383.** The Proponent shall study the quality of life of the communities, paying particular attention to mortality and morbidity, suicide rates, and all matters related to conjugal and family violence. **The Proponent shall also describe the importance of traditional food sources and their availability in the diet of the communities in relation to food sources from the South.** Furthermore, on the basis of available data, the Proponent shall establish a portrait of local health, using the principal diseases that provide indices of public health (in particular, diabetes, neoplasm and infectious diseases). The Proponent shall indicate the period over which the study of health-related problems in the region will take place. Finally, on the basis of available data, the Proponent shall discuss the extent and significance of substance abuse.

4.2 Information and Questions

The available data on diet comes from extrapolating the results of the Comité sur la récolte autochtone [Native Harvest Committee] whose studies span the years 1976 to 1980, and from information gathered from the Inuit communities in the project study area in 1990.

4.2.1 Local Food

Information

Proportion of Harvested Foods in the Diet

Harvested foods would seem to make up approximately 50% of the total diet of the Inuit. This finding is however tempered by the consumer's age group, which seems to play an important role in the proportion of the diet comprised by traditional food sources. Thus, among the elderly, this proportion could run to 75% at certain times of the year. By comparison, in the under-25 age group, it rarely exceeds 20 to 25% at any time.

Questions

• In your community, do harvested foods currently population's diet?	make up approximately 50% of the
Yes, they make up approximately 50% of the diet No, rather, they make up	%
• Do harvested foods make up approximately the sagroups?	ame percentage of the diet for the different age
Yes, the percentage is the same for each age group No, the percentages are approximately the followin Young people Middle-aged Elderly peop	
• Comments	

Species Consumed

♦ Information

Consumption per species or group	of species consume	ed would break dowr	n as follows (based on
annual average at Kuujjuarapik):			

 Marine mammals: Caribou:	23% 20%	waterfish:	fowl and b	irds:17%	40%
♦ Questions					
• Does current consumpercentages?	mption per species	or group of s	species in y	your comm	unity match the above
Yes, the breakdown is No, the breakdown ra		ng: Marine Caribou Waterfo Fish	mammals owl and bir	rds	- % - % - % - %
• What is the consum	ption breakdown b	y season?			
Marine mammals	SPRING %	SUMMER %	FALL %	WINTER %	
Caribou Waterfowl and bird Fish	ds				
• Which plant species	s in the territory are	e part of the l	ocal diet?		
Name of plant specie	es				

Sources of Supply

Information

There are apparently four different sources of supply for harvested food products:

- harvesting (by far the most important); the municipal freezer (managed by the Programme d'aide aux Inuit (Inuit Assistance Program) for their hunting, fishing and trapping activities);
 • donations (through individual, family and intercommunity exchange networks);
- trade (through the local cooperative).

Question

• In what proportion do these sour products in your community?	rces of supply contribute to the consumption of l	narvested
Harvesting	%	
Municipal freezer Donations/exchanges	% %	
Trade (local cooperative)		
Other sources		
Comments		
<u> </u>		

Marine Invertebrates

Information

Marine invertebrates seem to play a major role in the diet; not necessarily from a quantitative standpoint but, first and foremost, from a social standpoint.

In fact, gathering mussels and sea urchins along the Hudson Bay coast might often give rise to some of the most highly valued group activities among members of the Inuit communities in the study area (Kuujjuarapik, Umiujaq and Inukjuak).

Moreover, marine invertebrates would be one of the principal elements of trade between the Sanikiluaq Inuit community and some members of the coastal Inuit communities.

There appears to be a variation in the consumption of these products between the different age groups.

Question

•		
• In your community, how in	mportant are marine invertebrates to	your diet?
Very important Moderately important Not very important		
• When are they available?	In the spring In the summer In the fall In the winter	
• Which marine invertebrate	species are preferred?	
Name of preferred species		_ _ _ _
There are no preferred specie	es	_
• In your community, who es	ats these products?	
The entire population Mainly young people Mainly middle-aged people Mainly the elderly	e	
 On what occasions are thes Mainly according to seasonal Mainly at feasts and ceremon 	se products consumed? I availability of the products nies (anniversaries, marriages, etc.)	
• Are these products traded of	or donated?	
Between families Between friends Between villages	NO	

4.2.2 Imported goods (Foodstuffs)p

Information

The following informations come from a survey on diet conducted in Kuujjuarapik in the spring of 1991. The general finding seems to be the following: the local diet is apparently, in every case and in every individual, the result of a close complementarity between two types dietary styles: harvested foods and imports.

Like the food obtained from hunting, fishing and gathering, the consumption of imported foodstuffs (from the Northern Store, the local cooperative, the convenience store or catalogue orders) seems to vary a good deal, according to the age group being considered. Thus, the elderly consume much fewer store-bought goods than the younger generations do. Significant differences in the type of products consumed by either group have also been noted.

The goods bought most frequently are: flour, fat, sugar, tea, beef, chicken, pork, poultry, fish. Frozen and precooked products are apparently also very popular among all age categories. However, the frequency and diversity of purchases seem to vary according to the time of year.

Questions

	Questions	
•	At what time of the year are imported good	ods purchased by the population in your community?
	Mainly in the spring Mainly in the summer Mainly in the fall Mainly in the winter Pretty well equally throughout the year	_
•	At what time of the year are imported good	ods available in your community?
	Mainly in the spring Mainly in the summer Mainly in the fall Mainly in the winter Pretty well equally throughout the year	
•	On average, how often are imported good	s purchased?
	About once per week Several times per month Once per month Less than once per month	
•	What goods are purchased most often?	
	Staples (flour, fat, sugar, tea) Meat (beef, chicken, pork) Fish Beverages Other products (which ones?)	

• In general, would the popula than you do now?	tion in your community like to consume more imported goods
Yes No	
If so, what are the factors that]	prevent you from consuming more?
Availability Price Taste Nutritional value	
• Which groups in your comm	unity consume imported goods most often?
The entire population Mainly young people Mainly middle-aged people Mainly the elderly	



5.1 Subject (paragraphs of the Guidelines)

507. The study shall evaluate current and future states of ecosystem health and, in particular: ...

507(4). for the human populations, the current state of individual, collective, physiological and psychological health, paying particular attention to diseases that serve as indicators of changes in health; and shall attempt to identify the causes. The evaluation shall take into account **conceptions on the part of the affected populations with regard to their current health** and to the impacts the proposed project would have on their health. It shall also take into account the **local health services** (both care and prevention) and, specifically, community resources.

610. The Proponent shall identify the groups that would be most affected by the proposed project and shall **consult with members of those communities** to determine ways to reduce or eliminate any impacts on health and personal and community well-being.

5.2 Information and Questions

♦ Information

Currently available information on the causes of morbidity shows that diseases of the respiratory system, and of the ear, as well as trauma and poisoning are the principal health problems. The data indicates the presence of diseases of the circulatory system, heavy smoking, numerous cases of obesity and poor dental health and a significant volume of sexually transmitted diseases.

In the opinion of the Rochon Commission, which evaluated the social/health services and conditions throughout Québec in 1988, the social/health status of the Inuit of Nouveau-Québec is still very poor. On the other hand, experts agree that there have been major improvements at every level. From a historical point of view, the progress has been notable: there has been a substantial drop in infant mortality; in half a century, human life expectancy has increased from 26 years to 61 years; infectious and parasitic diseases, like impetigo and tuberculosis, have greatly diminished.

However, the difference between the life expectancy of the Inuit and that of Quebecers as a whole is still very large. Although there is less tuberculosis, the incidence is still thirty times higher in Nunavik than elsewhere in the province. Since the early 1960s, diseases of the circulatory system and tumours have been regularly diagnosed.

Questions

Indicate on the table below how the population's health problems have changed in the past ten years and, in your opinion, the principal reason for this change?

Health Problems	Change Over the Past Ten	Principal Reason
	Years	•
	(Positive = P)	
	(Negative = N)	
	(No change = NC)	
Diseases of the respiratory	(0.10.000000000000000000000000000000000	
system		
System		
D: C.1		
Diseases of the ear		
Poisoning		
Diseases of the circulatory		
system		
System		
C 1' 1 1 11		
Smoking-related problems		
Obesity		
Dental problems		
Bentui problems		
Coverelly transmitted discosses		
Sexually transmitted diseases		
Other problems (wich ones?)		

For each problem on the table below, indicate whether the population uses the health services more now than it did ten years ago and, in your opinion, the principal reason for this change?

Health Problems	Use of Health Services	Principal Reason
	(More = M) (Less = L)	
	(No change = N)	
Diseases of the respiratory		
system		
Diseases of the ear		
Doisoning		
Poisoning		
Diseases of the circulatory		
system		
Smoking-related problems		
Obesity		
Obesity		
Dental problems		
Sexually transmitted diseases		
Other problems (wich ones?)		

♦ Questions to Health Agencies (CRSSS Kativik, physicians, nurses, community workers). Are the current health services adequate to meet the needs of the population? Yes No • Would you say that this situation has been the same for the past ten years? Yes No • Do you feel that health services will adequately meet the needs of the population over the next few years? Yes No If not what types of services or resources should be put in place to adequately meet the needs of the population? **♦** Comments

• Do the different age groups use the health services in about the same proportions?
Yes No, young people use them more No, middle-aged people use them more No, the elderly use them more No, the elderly use them more
• Has this been the case for the last ten years or is it recent?
The case for the past ten years Recent
♦ Comments
 Are health services used mainly for treatment purposes or for prevention? Mainly for treatment

6 ♦ Opening up of the Territory, Transportation **Infrastructure and Collector System**

- 6.1 Legal Status of New Access Infrastructures6.2 Opening of the Territory6.3 Airport6.4 Collector System

6.1 Legal Status of New Access Infrastructures

6.1.1 Subject (paragraphs of the Guidelines)

436. The Proponent shall describe the <u>legal status of new access infrastructures</u> during the construction of the proposed Great Whale Rive hydroelectric complex. The following, in particular, should be discussed: shall access roads be public or private and on what basis will this decision be taken? The Proponent shall assess the rationale for establishing a control system similar to that put in place by the Société d'Énergie de la Baie James during the first phase of construction at James Bay; who shall provide maintenance and information services for access roads, including the installation of rest areas, waste collection, snow removal, etc.?; who shall be responsible for road safety? The Proponent shall describe in the impact statement any agreement reached with other parties regarding the status and maintenance of access roads, and report on consultations held on the subject.

6.1.2 Information and Questions

♦ Information

Hydro-Québec proposes to control access to LG-2 — GB-1 road during the construction of the Grande Baleine complex, as was the case for the La Grande complex. To this end, a control station would be set up at the entrance to LG-2--GB-1 road (near LG-2). Access of non-residents to the road would generally be restricted to the personnel assigned to the construction work.

Natives could use the road or road sections as soon as they are commissioned. Once the facilities of the Grande Baleine complex are commissioned, this policy could continue to apply until an agreement is reached between the organizations responsible for managing the territory regarding the status of the road and its use.

(See *Plate 1-R* at the end of this section for the route for the LG-2 – GB-1 road)

Questions

• Do you agree with Hydro-Québec's proposal during construction?
Yes No
If not, what do you suggest?
• What do you suggest after the facilities of the Grande Baleine complex have been commissioned?

6.2 Access to the Territory

6.2.1 Subject (paragraphs of the Guidelines)

528. Finally, the Proponent shall evaluate how the construction of access routes to the installations would contribute to the **opening of the territory as a whole** through the creation of transportation links with the rest of the continent. The proponent shall also indicate the extent to which **needs for access** (both northward and southward) would be met and to which **needs for isolation** would be compromised (potential users, frequency, seasons, methods of transportation, reasons for use, changes in travel costs between the host region and the rest of the country), for each affected population. Again, collaboration with the communities of Kuujjuarapik and Whapmagoostui and analysis of other instances where territories were opened (including Chisasibi) are recommended. The Proponent shall be particularly attentive to the sense of identification with the territory on the part of both local populations and those of other regions.

562. Each major component of the access infrastructures shall be examined (north-south and east-west roads, airports, etc.); the access routes shall also be evaluated as a whole, since their effects are likely to be cumulative. In the same way, the study shall include an analysis of the positive and negative effects that would result from a road connection between Kuujjuarapik/Whapmagoostui and the sites of any other development activity in the territory. In preparing this section, the Proponent shall work closely with the communities of Kuujjuarapik, Whapmagoostui and Chisasibi, and shall indicate the experience acquired following the opening of other communities in northern Quebec, on the Lower North Shore or elsewhere in Canada. The Proponent shall also collaborate with the relevant organizations and governmental departments.

6.2.2 Information and Questions

♦ Information

The development of the Grande-Baleine complex will require construction of road infrastructures along two principal axes:

- north-south axis, 240-kilometers long, connecting LG-2 to GB-1;
- east-west axis, 295-kilometers long, connecting Lac Fagnant to Lac Bienville;

The development of the Grande Baleine complex will not require the construction of a road between GB-1 and the village of Kuujjuarapik/Whapmagoostui if the site selected for the airport is near GB-1. For its own needs, Hydro-Québec could choose an airport site near GB-1. Hydro-Québec is ready to consider other options that would meet both its needs and those of the communities. In this case, a road should be built between the GB-1 site and the village of Kuujjuarapik/Whapmagoostui.

Questions

Would your community like the village of Kuujjuarapik/Whapmagoostui to be accessible by road and thus linked to the road to Radisson and the South?
Yes No
• Please indicate below the social, cultural, economic and environmental advantages and disadvantages on which your answer is based.
Social
Cultural
Economic
Environmental

6.3 Airport

6.3.1 Subject (paragraph of the Guidelines)

452. The evaluation of the choice of an airport serving GB1 and

Kuujjuarapik/Whapmagoostui has been described in paragraph 428. This evaluation <u>shall be based on consultations with the parties involved</u>, and the results of these consultations shall be presented as an integral part of the impact statement. Concerns regarding the safety of the existing runway at Kuujjuarapik/Whapmagoostui shall also be addressed. Planning for these structures will extend over a period of at least 25 years.

6.3.2 Information and Questions

♦ Information

Hydro-Québec needs an airport for the construction and operation of the Grande Baleine 1 generating station. Hydro-Québec has analyzed various scenarios that could meet either its needs alone or its needs and those of the communities at the same time. Hydro-Québec would like your opinions and comments on the following scenarios:

Scenario 1

GB-1-A site for Hydro-Québec's needs;

Existing Kuujjuarapik airport for the needs of the communities.

Scenario 2

Refurbishing of the Kuujjuarapik airport for the joint needs of both Hydro-Québec and the communities

• Scenario 3

Site H — new airport — for the joint needs of both Hydro-Québec and the communities

• Scenario 4

Site D1 — new airport — for the joint needs of both Hydro-Québec and the communities

(See *plate 1-S* at the end of this section)

Table 6-1 below compares the characteristics of the sites being studied.

Table 6-1. Characteristics of the sites

Site	Runway Length	Weather Conditions	Land Category	Cost (\$M)	Distance from Kuujjua- rapik (km)	Use	Operating Conditions
GB-1A	1.5 km	Similar to Kuujjuarapik	Cat.3 Cat.2 joint	18.2	40	Hydro- Québec's needs alone	Uninhabited area. Kuujjuarapik Airport maintained for communities.
D-1	1.5 km	Slightly better	Cat.1 Inuit	27.5	10	Joint needs	Uninhabited area. Access less convenient for population.
Н	1.5 km	Not as good	Cat.1 Inuit	26.3	6	Joint needs	Uninhabited area. Access less convenient for population.
Refurbishing of Kuujjuarapik Airport		-	Cat.3	19.4 22.1 ⁽¹⁾	-	Joint needs	Inhabited area. Easy for population to access.

⁽¹⁾ Paved runway

Questions

• From the viewpoint of the community, what is the order of preference of the above scenario)Sʻ
First choice Second choice Third choice Fourth choice	
• First choice	
In your opinion, what are the advantages of this scenario?	
What are the disadvantages?	
In your opinion, what means could be implemented to minimize the disadvantages?	

Second choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

Third choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

n your opinion, what are the advantages of this scenario?
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What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

6.4 Collector System

6.4.1 Subject (paragraph of the Guidelines)

459. In theory, the collector system should require as many corridors as there are lines; in practice, one corridor can sometimes accommodate two lines and even a road. The Proponent shall plan to combine the two lines linking the GB1 generating station to the Radisson station. The Proponent shall also indicate how it optimized the choice of distribution corridors and on what basis this optimization was based, describing any possibility of combining both roads and distribution corridors. Lastly, the Proponent shall explain how <u>land use</u> by native peoples was considered in preparing routes for the lines, referring in particular to the JBNQA and to <u>consultations with concerned parties.</u>

6.4.2 Information and Questions

♦ Information

Hydro-Québec has proposed a corridor for the transmission lines that would link Grande Baleine 1 generating station to Radisson substation, and two corridors for the lines that would link Grande Baleine 2 and Grande Baleine 3 generating stations to Chissibi substation. Hydro-Québec prefers the GB-3-Chissibi corridor for linking Grande Baleine 2 and Grande Baleine 3 generating stations to Chisasibi substation.

Ouestion

• Do you have any comments to make about the corridors with regard to your use of the land (wildlife, waterways, water routes, land routes, specific sites or otherwise)?	
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(See *Plate 1-R* at the end of this section)



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- 6>>LUCS △C

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• 4\0 \D\0'c

ﺻﻮﺕ، ﺑﻪﮐﻪﻟጵ، ﻣﺎﻧﺎ, ﺩ៤،ﻭﻡ ﻋﻪﻙ، ﻣﻪ७، ﻣﻪﺭ ﻣﺎﺭﮐﺪﻝﺩ, ﻣﺎﭘﻪﮨ،ﺑﺪﻝ ﻋﺬﺭﻯ♡، ﻣﻮﺕ ﻋﻮﻝ, ﺑﻮﻝﺩ/ﻭﻝ ﻣﺎﻟﻪﻝ/ ﻣﻮﻝ, ﻣﻪﻝ, ﻣﻪﻝ, ﻣﻮﻝ, ﻣﻮﻝ, ﻣﻮﻝ, ﻣﻮﻝ, ﻣﻮﻝ, ﻣﻮﻝ, ﻣﻮﻝ, ﻣﻮ
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- 2.2 Δ°Γ°ς JΠΓ → D → C
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- 2.3.1 \(\frac{1}{2}\) \(\frac{1}{2}\)
- **384.** $d^*\sigma \wedge d^*d^* \Delta^* \wedge d^*b \Delta^* \cup d^*b$

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Grande Baleine Complex Guide for Public Consultation

Kuujjuarapik Version finale

♦ Context

In early September 1992, Hydro-Québec received, from the federal and provincial administrators appointed by virtue of the James Bay and Northern Québec Agreement and the President of the Federal Environmental Assessment Review Panel, the Guidelines for the Environmental Impact Statement for the Proposed Great Whale River Hydroelectric Project.

As soon as it received the Guidelines, Hydro-Québec began analyzing the document to identify the paragraphs that required the gathering of additional information or consultation of the Native communities.

Concurrent to this analysis, Hydro-Québec contacted the representatives for the Cree, Inuit and Naskapi communities to determine how the consultation provided for by the Guidelines would be carried out.

Hydro-Québec prepared this guide in order to complete its information gathering and consult the Native communities. The results of this consultation process, which reflects the spirit of the Guidelines, will be made public.

Introduction of The Guide

Content

This guide is divided into six themes. The various paragraphs of the Guidelines that require the gathering of information or consultation have been grouped according to the following themes:

- 1 Knowledge and valorization of the environment
- 2 Current and future land use
- 3 Mitigative measures and environmental monitoring La Grande experience
- 4 Diet
- 5 Health
- 6 Opening of the territory, transportation infrastructures and collector system

Some of the themes are divided into sub-themes which are listed under the section heading.

Organization

Each theme or sub-theme consists of two elements: the subject (the paragraphs of the Guidelines) and information and questions.

Subject (paragraphs of the Guidelines)

The relevant paragraphs of the Guidelines have been transcribed in full to provide a context for the information gathering or the consultation process, the specific subject of which being the paragraphs that are <u>underlined and in bold</u>.

For example, on page 1 - 1, the part of paragraph 305 that is underlined and in bold reads as follows: "The Proponent must <u>define the valued ecosystem components recognized by each of the cultural groups concerned, as well as those components that they consider to be threatened by or vulnerable to the effects of the proposed project."</u>

Information and Questions

The "information" part of the second element summarizes the nature of the available data used in preparing Hydro-Québec's impact study.

The "Question(s)" part can take various forms:

• Provide or complete a valorization. For example, on page 1 - 2, respondents are asked to determine the order of importance of the vegetation components (Table 1-A) and on page 1 - 3, to complete a list of components (Table 1-B), if applicable

• Answer a question.

For example, on page 1 - 9, respondents are asked to specify whether the existence of an ice cover on various waterways affects the conditions of movement of the communities concerned.

• Identify, correct or complete information on a geographical map (plate). For example, on page 2 - 3, respondents are asked to correct or complete the information on visits to the area.

Answering procedure

The space provided to answer the questions may be insufficient. If this is the case, you can insert additional pages indicating which question(s) they refer to.

Furthermore, if you have documents that answer any of the questions asked, you can use them to replace or supplement your answers.

Hydro-Québec appreciates your participation in this consultation and remains at your disposal for any information to facilitate its achievement and ensure its success.

This document is available in French, Inuttitut and Cree

1 Knowledge and Valorization of the Environment

- 1.1 Valorization of the Components of the Environment
- 1.2 Vulnerable, Rare or Threatened Species
- 1.3 Temporal and Geographic Boundaries
- 1.4 Exceptional Sites

1.1 Valorization of the Components of the Environment

1.1.1 Subject (paragraphs of the Guidelines)

303. The Proponent shall provide a detailed description of the components of the environment which would be affected by the proposed project, based on the experience and knowledge of each concerned group. This chapter presents a framework based on generally accepted and scientific methods, which will be used as a minimum for describing the environment. As mentioned above, the Proponent shall ensure that this description is adequate in relation to Chapter 5.

305. In order to properly organize and target the description, the Proponent must <u>define the valued ecosystem components recognized by each of the cultural groups concerned, as well as those components that they consider to be threatened by or vulnerable to the effects of the proposed project.</u>

1.1.2 Information and Questions

Information

Certain environmental components are more important than others from both a social and scientific point of view. So that the impact study can concentrate on the most significant environmental components, certain components have special value and receive special attention.

Hydro-Québec would like your comments on the selected components and on the criteria it uses to evaluate them. These components are vegetation, wildlife, and the ice regime. The criteria used are the potential wildlife habitats, plant communities of restricted distribution and the winter habitat.

A. Vegetation

Table 1-A lists the valued vegetation components and valorization criteria used in Hydro-Québec's impact study.

Use the right-hand column ($Your\ Value$) to indicate what importance you give each component: 1 = highly valued; 5 = not valued. If several components hold the same value for you, give them the same number.

Table 1-A - List of Vegetation Components Selected by Hydro-Québec

Components	Valorization Criteria	Your value
Aquatic and riparian vegetation	Potential habitat for fish, birds and land animals	
Peat lands	Potential habitat for birds and for caribou calving	
Coastal habitats	Potential habitat for birds	
Boreal poplar forests, white birch stands and aspen forests	Plant communities of restricted distribution Communities at the northern limit of their distribution Potential habitats for certain land mammals	
Willow forests on clay	Plant community of restricted distribution	
Lichen-dominated spruce forests and lichen ground cover	Winter habitat of caribou	
Jack pine forest	Plant community of restricted distribution Plant community at the northern limit of its distribution	

If you feel that the list of components is incomplete, or you wish to suggest other valorization criteria, fill out Table 1-B below. Assign a value to each component (1 to 5).

Table 1-B - List of Additional Vegetation Components

Components	Valorization Criteria	Your Value

B. Wildlife

Information

The **valorization criteria selected** for the wildlife components in Hydro-Québec's impact study are the following:

- 1. Species harvested by Native people or reserved for their exclusive use in accordance with Appendix 2, Chapter 24 of the JBNQA;
 These species are all mustelids (mink, ermine, weasel, marten, fisher, otter, skunk and wolverine); beaver; lynx; fox; polar bear; muskrat; porcupine; woodchuck; black bear (on the Cree traplines North of the 50th parallel); wolf (North of the 50th parallel); freshwater seals; whitefish (non-anadromous); sturgeon; suckers; burbot; hiodons (mooneye and goldeye).
- 2. Species of interest for educational and recreational activities.
- 3. Species recognized as rare or vulnerable by the Committee on the Status on Endangered Wildlife in Canada and the Comité pour la sauvegarde des espèces menacées du Québec (COSEMEQ) or likely to be designated as threatened or vulnerable (MLCP 1992) by virtue of the "Loi sur les espèces menacées ou vulnérables" (Act respecting threatened or vulnerable species).
- 4. Species located at their distribution limit or having a restricted distribution in the study area.

These criteria are listed in Table 1-C on the following page.

Table 1-C lists the wildlife resources and the valorization criteria used by Hydro-Québec.

Use the right-hand column ($Your\ Value$) to indicate what importance you give each component: 1 = highly valued; 5 = not valued. If several components hold the same value for you, give them the same number.

Table 1-C - List of Wildlife Resources

Wildlife Resources	Valorization Criteria Used by Hydro-Québec			Your Value	
	1 Harvesting or Native exclusive use	2 Recreation Education	3 Rare or Threatened	4 Restricted Distribution	
Marine Invertebrates					
Sea cucumber	X				
Snow crab	X				
Sea urchin	X				
Blue mussel	X				
Freshwater and Estuarine Fish					
Lake herring	X				
Lake whitefish	X				
Round whitefish	X				
Northern pike	X	X		X	
Burbot	X				
Long-nosed sucker	X				
White sucker	X				
Brook trout	X	X			
Arctic char	X	X		X	
Landlocked salmon	X	X		X	
Lake trout	X	X			
Fourhorn sculpin	X				

	1	2	3	4	
	Harvesting	Recreation	Rare or	Restricted	Your
	or Native	Education	Threatened	Distribution	Value
	exclusive	Education	Tincatched	Distribution	varue
	use				
Marine Fish	usc				
Arctic sculpin	X				
Fourhorn sculpin	X				
Shortspine sculpin	X				
Greenland cod	X				
Marine Mammals	Λ				
	X		X		
Beluga Bearded seal			Λ		
	X				
Ringed seal	X			**	
Common seal Freshwater seal	X		**	X	
Land Mammals and Fur-	X		X	X	
Bearing Animals					
Caribou	v	V.			
Musk ox	X	X		··(*)	
				x(*)	
Moose	X	X		X	
Black bear	X				
Wolf	X				
Arctic fox	X				
Red fox	X				
Canada lynx	X		X		
River otter	X				
American marten	X				
Ermine	X				
American mink	X				
Beaver	X			X	
Muskrat	X	X			
Snowshoe hare	X	X	X		
Arctic hare	X	X	X		
Porcupine	X	X			
Avifauna					
Common loon	X				
Red-throated loon	X				
Snow goose	X	X			
Osprey		X			
Canada goose	X	X			
Brent goose	X	X			
Teals	X	X			
American black duck	X	X			
Mallard	X	X			

^(*) Specie introduced by the MLCP between 1973 and 1983

	1	2	3	4	
	Harvesting	Recreation	Rare or	Restricted	Your
	or Native	Education	Threatened	Distribution	Value
	exclusive				
	use				
Northern pintail	X	X			
Northern shoveler	X	X			
Gadwall	X	X			
Scaups	X	X			
Harlequin duck			X	X	
Oldsquaw duck	X	X			
Eiders	X	X			
Scoters	X	X		X	
Goldeneye	X	X			
Ruddy duck	X	X			
Mergansers	X	X			
Sandpipers				X	
Gulls	X				
Terns	X				
Black-legged kittiwake	X				
Thick-billed murre	X				
Black guillemot	X				
Bald eagle		X	X		
Golden eagle		X	X		
Peregrine falcon		X	X		
Falcons	X				
Owls	X				
Boreal owl	X				
Snowy owl	X				
Spruce grouse	X	X			
Pintail grouse	X	X			
Willow ptarmigan	X	X			
Rock ptarmigan	X	X			
Buntings	X				

If you feel that the list of wildlife resources is incomplete, or you wish to suggest other valorization criteria, fill out Table 1-D below. Assign a value to each wildlife resource (1 to 5).

Table 1-D - List of Additional Wildlife Resources

Wildlife Resources	Valorization Criteria	Your Value

C. Ice Regime

Ice affects how Native people move about and use the land.	It also affects how many	species use
the environment.	•	-

• In the case of your community, does the existence of an ice cover alter the conditions governing your movement in the territory?

•	\sim	4 •	
•	Que	PCTI	nne
•	Ou.		OILD

Yes No	
If so , in what way does the existence of an ice movement? Specify locations, methods and ro	
Watercourses	Changes in Conditions of Movement
Manitounuk Sound	
C 1 ' ' 1 1 D 1 '	
Grande rivière de la Baleine	
Petite rivière de la Baleine	

Watercourses	Changes in Conditions of Movement
Coats River	
Boutin River	
Bienville Lake	
Bienville Lake	
• For your community, are the winter freeze an events (e.g.:: holidays, celebrations or other act	d spring thaw reference points for particular ivities)?
Yes No	
If so, name the events and when they occur (freeze or thaw).	

1.2 Vulnerable, Rare or Threatened Species

1.2.1 Subject (paragraph of the Guidelines)

372. From the standpoint of ensuring the diversity of species in the study area, the Proponent shall discuss the preservation of vulnerable, rare or threatened species in the area concerned, as well as that of relevant plant communities and fragile ecosystems. This process will require input from various agencies, both provincial (ministère de l'Environnement du Québec [MENVIQ], ministère des Loisirs, de la Chasse et de la Pêche [MLCP]) and federal (Environment Canada), as well as from the Native communities. The Proponent shall consult with them concerning flora, plant communities, land and marine mammals, fish and birds. Current information shall then be discussed, and any inventories deemed necessary by government authorities in order to permit a decision on the proposed project shall be performed. The Proponent shall present the current and anticipated protection programs which are or will be in effect in this area.

1.2.2 Information and Questions

♦ Information

The impact study deals with the following threatened species: the beluga, freshwater seal, Canada lynx, Harlequin duck, Bald eagle, Golden eagle and Peregrine falcon. These species were identified by the committees of experts on threatened species and the "Loi sur les espèces menacées et vulnérables" (Act of respecting threatened or vulnerable species). No plant species was identified as being vulnerable, rare or threatened

♦ Questions In your opinion, are there other wildlife species that you feel are vulnerable, rare or threatened? Yes _____ No ____ If so, which ones? Are there some plant species that you consider vulnerable, rare or threatened? Yes _____ No ____ If so, which ones? Are there some plant species that are of interest to your community (ex: medicinal plants)? Yes _____ No ____ If so, which ones? Name the uses for these plants.

1.3 Temporal and Geographic Boundaries

1.3.1 Subject (paragraphs of the Guidelines)

308. Geographic boundaries. The boundaries of the area which may be affected by the proposed project vary, depending on the nature of the phenomenon considered. For example, given the migration of certain aquatic, terrestrial, and avian species, the range of biological concern could extend beyond the limits of the watersheds directly affected by the project. Hunting, fishing, trapping, and harvesting along the coastline and inland also mean that certain impacts on the activities of the relevant populations could also extend beyond these boundaries, notably to the residents of the Belcher Islands. The same could be said of the many activities related to the transportation of goods and services and to the traffic of people traveling to or from the area. Thus, while a number of impacts will be concentrated within a relatively restrictive study area, others will involve larger areas. **The Proponent shall therefore specify and justify the study area for each component of the environmental description, taking into account the boundaries of each component and those recognized by each cultural group**, and selecting the larger area if various boundaries of a given area are not the same.

309. Temporal boundaries. In addition to the geographic dimension, the Proponent shall also **consider the temporal dimension**, including multi-annual cycles and seasonal variations for each component of the environment and shall determine the appropriate temporal boundaries for each.

310. In order to properly assess the impacts of the proposed project, the Proponent <u>must</u> identify historical trends. For each component, the Proponent shall determine how far in the past the study should begin and how far into the future it should be carried. In order to select these temporal boundaries, the Proponent shall <u>take into account the limits generally</u> recognized by each of the affected cultural groups. If these limits differ for a single component, the Proponent shall select the longer period.

1.3.2 Information and Questions

♦ Information

Table 1-E gives the geographic and temporal boundaries of the various components of the continental and marine environments. The geographic boundary means the territory covered by the Hydro-Québec studies, whereas the temporal boundary indicates the date from which scientific inventories have been made by Hydro-Québec or others.

Table 1-E - Geographic and temporal boundaries of the various components of the region of the Grande Baleine complex

Environment	Component	Geographic Boundary	Temporal
			Boundarya
Continental	Primary producers Benthic and entomological fauna	GRB and PRB basins GRB and PRB basins	1975 1975
	Ichtyofauna Vegetation Amphibians	Study area Study area Lakes Bienville, Elizabeth and Kakupis areas	1967 1950 1976
	Birds Waterfowl and loons	GRB, PRB and Nastapoka basins Nouveau-Québec (scoters only)	1975
	Harlequin ducks	GRB, PRB, Nastapoka, Eau Claire basins and La Grande complex	1975
	Shore birds	Lakes Elizabeth, Kakupis, Bienville, confluence of GRB and Coats	1976
	Birds of prey Land birds	Study area GRB, PRB basins and La Grande complex	1969 1975
	Mammals Large land mammals Caribou	Nouveau-Québec	1954
	Calving	GRB basin, lakes des Loups- Marin, Mollet, Lenormand, Saindon, Amichinatwayach and Guillaume-Delisle areas	1977
	Lichen biomass Grazing and trampling of lichen	Study area (west of 74° west)	1987 1990
	Grazing and trampling of lichen	Study area (east of 74° west) and La Grande complex	1990

 $\label{thm:components} \begin{tabular}{l} Table 1-E-Geographic and temporal boundaries of the various components of the region of the Grande Baleine complex (continued) \\ \end{tabular}$

Environment	Component	Geographic	Temporal
	•	Boundary	Boundary ^a
Continental	Musk-Ox	Study Area	1985 (1st
			observation)
	Moose	GRB basin	1971
	Fur-bearing animals and small mammals		
	Canada lynx	Study area	1975
	Snowshoe hare	Study area	1975
	Beaver	GRB, PRB and	1978
	Beaver	Nastapoka basin	1776
	Other rodents	Region of confluence	1976
	other rodents	of GRB and Coats	1770
		River	
	Freshwater seal	Study area and	1978
	110011111111111111111111111111111111111	periphery	1970
Marine	Primary and	Hudson Bay	1975
	secondary production		
	Coastal vegetation	Pointe Louis XIV to	1981
		Nastapoka River	
	Ichtyofauna	Manitounuk Sound,	1976
		large estuaries	
		Small estuaries of	
		Hudson Bay	1075
	Avifauna	Pointe Louis XIV to	1975
	1.	Nastapoka River	
	Marine mammals	Hudson Day and	a la
	Beluga	Hudson Bay and Strait, James Bay	1752 ^b

a: Studies in which the inventories were taken using recognized scientific techniques
b: According to the Hudson Bay Company capture registers
Notes: • The project study area is illustrated by the boundary of the watersheds shown in Plate 2
• GRB: Grande rivière de la Baleine
• PRB: Petite rivière de la Baleine

♦ Questions		
• Do the geographic and tempo	ral boundaries seem adequate to	you for each of the components?
Geographic boundaries: Yes	Yes No	
If the <u>geographic</u> boundaries c	lo not:	
	ow the geographic boundaries the the components to which they we have the components to which they we have the components to which they we have the components to which they were the components the components to which they were the components the component	
Components	Reasons	Geographic Boundaries
If the <u>temporal</u> boundaries do To your knowledge, do dat in the table below the com-	not: a previous to the dates given in Toonents, dates and their reference	Table 1-E exist? Could you state
Components	References	Dates

1.4 Exceptional Sites

1.4.1 Subject (paragraphs of the Guidelines)

321. The Proponent shall provide an inventory of all sites particularly representative of the milieu or exhibiting unique physical or biological features in the region of the proposed project. The surficial geological map shall indicate the special sites or land forms that warrant protection because they are unique or remarkable, according to the residents of the region and others. The uniqueness of any sites which might be submerged or altered as a result of development shall be described. The stranded shorelines around Lac Fagnant and the terraces along the Great Whale River are examples of such features.

376. The Proponent shall describe the economy of each community. Notwithstanding the present activities and future opportunities for employment and for the production of goods and services by Natives for their specific needs, this profile shall deal specifically with the evolution since the 1950s of the hunting, fishing and gathering economy, as well as other traditional and commercial activities, taking into account the institutional structure introduced by the JBNQA. The Proponent shall draw a historic and current portrait of land use (1950-1975 and 1975-1990) in the area affected by the proposed project. Traditional and modern land use in the study area including Belcher Islands by Natives and non-Natives shall be clearly identified. Areas which are considered of particular interest to government bodies or other groups interested in the protection and development of the region (parks, reserves, conservation areas, sites or watercourses of interest for recreation or tourism, etc.) will be identified and justified with respect to the objectives of the Natives and non-Natives.

1.4.2 Information and Ouestions

♦ Information

The areas of particular interest were selected based on the criteria identified in a report prepared in conjunction with Environment Canada and La Société de développement de la Baie James (*Sites intéressants du territoire de la Baie James*. Rapport E.T.B.J. #36, Octobre 1977). This report identifies 26 interesting sites, among which the following sites are considered exceptional in terms of their scenic or geomorphological attraction.

The exceptional sites are the following:

- the islands and peninsula in the Manitounuk Sound;
- the mouth of the Petite rivière de la Baleine;
- the waterfalls and terraces at kilometers 30 and 65 of the Grande rivière de la Baleine;
- the rapids, waterfalls and escarpments between kilometers 198 and 225 of the Grande rivière de la Baleine;
- the beaches and sandy shores of Kaychisakakamaw Lake and the Geoffroy River, immediately to the south;
- Kinglet Lake;
- the mountain and the scenic lookouts along the Petite rivière de la Baleine, northeast of the Saindon Lakes.
- the rocky escarpments along the Petite rivière de la Baleine northeast of the Saindon Lakes.

Among the areas classified as interesting are, among others, the mouth and certain other slow flowing sections of the Grande rivière de la Baleine, the Fagnant Lake outwash area, the Second River, the cuestas on Manitounuk Sound, the outwash and esker deposits in the middle of Bienville Lake and Roz Lake.

♦ Area considered for siting of national park

The territory including Lac Guillaume-Delisle and Lac à l'Eau Claire has been identified as a potential location for the creation of a national park by the Environment Canada Parks Service.

♦ Area considered for siting of provincial park

The Direction de l'aménagement of the ministère du Loisir, de la Chasse et de la Pêche has identified the Lake Burton and Roggan River area as a site for a proposed provincial park.

♦ Areas considered for siting of ecological reserves

The Direction de la conservation et du patrimoine écologique of the ministère de l'Environnement du Québec has identified two areas for proposed ecological reserves: Lacs des Loups-Marins and the lower course of the Petite rivière de la Baleine. The exact boundaries of these projects are still provisional, whereas the status of the Lacs des Loups-Marins could be changed.

Both projects are at the preliminary stage. They have not been included in the Direction de la conservation et du patrimoine's short-term schedule for implementation of ecological reserves.

♦ Areas of diverse wildlife resources or special interest

The richest areas in terms of wildlife are Bienville Lake and its periphery, the lower course of the Grande rivière de la Baleine, Laguerne River, the Denys, Marest, Kinglet and Mureau lakes area, the Elizabeth, Kakupis and Fressel lakes area, and the lower course of the Coats River. This category also covers areas favorable to wildlife species with restricted distribution, such as the Petite rivière de la Baleine estuary, the islands, estuary and lower course of the Nastapoka River, as well as the Lacs des Loups-Marins area.

Please examine *Plate 3* now (Special interest areas) at the end of the section and then answer the questions on the following page.

♦ Questions

From your knowledge of the territory, do the sites and areas inventoried on Plate 3 clearly indicate the most representative sites and the areas of particular interest of the territory being studied?	
Yes No	
If not , indicate on Plate 3 the other sites or areas that you feel are most representative or are of particular interest. Briefly explain the reasons for your choice.	f

2 ♦ Current and Future Land Use

- 2.1 Current Land Use
- 2.2 Modes of Transportation 2.3 Future Land Use

2.1 Current Land Use

2.1.1 Subject (paragraphs of the Guidelines)

376. The Proponent shall describe the economy of each community. Notwithstanding the present activities and future opportunities for employment and for the production of goods and services by Natives for their specific needs, this profile shall deal specifically with the evolution since the 1950s of the hunting, fishing, and gathering economy, as well as other traditional and commercial activities, taking into account the institutional structure introduced by the JBNQA. The Proponent shall draw a historic and current portrait of land use (1950-1975 and 1975-1990) in the area affected by the proposed project. Traditional and modern land use in the study area including Belcher Islands by Natives and non-Natives shall be clearly identified. Areas which are considered of particular interest to government bodies or other groups interested in the protection and development of the region (parks, reserves, conservation areas, sites or watercourses of interest for recreation or tourism, etc.) will be identified and justified with respect to the objectives of the Natives and non-Natives.

- 380. Special attention shall be paid to the use of land along Manitounuk Sound and the Great Whale, Little Whale and Nastapoka river estuaries in relation to the distribution of resources, and to their use by the inhabitants of Kuujjuarapik and Whapmagoostui and other populations. This review shall outline the current situation and future prospects, taking into account the social structures, spiritual values, harvesting levels, and the importance of traditional foods. The Proponent shall seek to learn about the possible solutions and alternatives under consideration by the Natives themselves, should access to the territory be substantially modified.
- **567.** The Proponent shall evaluate the effects of the proposed project on the cultures of the Cree, Inuit and, in certain cases, the Naskapis and the people of the rest of Quebec, as well as on the cultural identity of these groups, paying particular attention to the following elements:
- **567** (1). life-style, including dietary practices and consumption habits in general, methods of production and distribution of goods and services, artistic production, types of recreation, holidays and celebrations;
- **567 (2).** the Cree and Inuktitut languages and the teaching of other languages, particularly taking into account the increased presence of individuals who do not speak the Native Languages;
- **567** (3). the transmission of know-how and knowledge, given that the activities that encourage such teaching be modified;
- **567 (4).** spiritual ties any living creatures, and the spiritual dimension of the use of the territory in which they live (rites, ceremonies), including, in some cases, those of the Naskapi;
- **567** (5). burial sites and relations with ancestors (including for the Naskapi);
- **567 (6).** archeological heritage. In this regard, the Proponent shall ensure that archeological digs are carried out on the main development sites and areas proposed for the infrastructures (dams, dikes, reservoirs, roads, airports, etc.). The Proponent shall indicate the measures to be taken should archaeological remains be uncovered;
- **567 (7).** sites and phenomena valued for historical, aesthetic, or other reasons (which the Proponent shall identify), such as portage trails, ancient meeting places, sites where specific events occurred, areas of interest rendered accessible by the project, the Native concept of the continual flow of rivers; and
- **567 (8).** the sense of identification and, more specifically, the notions of belonging related to the territory, language, and cultural values, as well as the sense of responsibility toward the ecosystems.

2.1.2 Information and Questions

Indicate whether the information shown on the plates placed at the end of this section accurately reflects the current land use **by your community in the project study area** with respect to the following aspects:

- Examine *Plate 4-II* (Land occupation by Kuujjuarapik and Umiujaq Inuit); correct and, if necessary, complete the information on campsites and travel routes (see legend on the plate).
- Examine *Plates 6-I1 to 9-I1*; correct and, if necessary, complete the parts of **the study area where your community** harvests resources, indicating the resources that are harvested (see legend of plates).
- Spring harvesting by Kuujjuarapik and Umiujaq Inuit, 1990 (*Plate 6-II*).
- Summer harvesting by Kuujjuarapik and Umiujaq Inuit, 1990 (*Plate 7-II*).
- Fall harvesting by Kuujjuarapik and Umiujaq Inuit, 1990 (*Plate 8-II*).
- Winter harvesting by Kuujjuarapik and Umiujaq Inuit, 1990 (*Plate 9-I1*).
- Next, examine *Plate 10* (Burial sites known by Hydro-Québec); correct and, if necessary, complete the location of your community's burial sites.
- After you have examined and completed these plates, answer the following questions:

What are your community's different holidays and celebrations each year? Indicate whether they are family or community celebrations, what time of year they occur and where you celebrat them.
What other cultural elements could be affected by the construction of the Grande Baleine Complex and how, in your opinion, would they be affected?

2 - 2

2.2 Modes of Transportation

2.2.1 Subject (paragraphs of the Guidelines)

520. In order to evaluate the free movement of all species inhabiting the territory, the Proponent shall inventory and map the land and water routes (including streams, rivers, lakes, estuaries, shorelines and Hudson Bay) and the aerial routes that are currently used, or could potentially be used, and which could be affected by the proposed Great Whale River hydroelectric complex. The seasons during which different movement patterns occur, and the reasons why, shall be particularly taken into consideration. With respect to wildlife, particular attention shall be paid to the movement of beluga populations and the corridors used by caribou. With respect to the human population, the Proponent shall also identify the methods of transportation employed (snowmobiles, canoes, various types of boats, ATVs [all-terrain vehicles], automobiles, trucks, helicopters, airplanes) and their costs. In addition, the Proponent shall describe the existing conditions governing the movement between the territory and neighbouring regions. The Proponent shall also consider the opinions of the inhabitants with regard to conditions of movement, as well as any fears they may express concerning the new conditions that would result from the proposed project.

2.2.2 Information and Questions

♦ Information

Please refer to *Plate 4-II*, placed at the end of this section, which shows your community's travel routes. Indicate the various methods of transportation used in the course of your movements, for each route and according to the season (snowmobiles, canoes, boats, all-terrain vehicles (ATVs), automobiles, trucks, helicopters, airplanes).

♦ Questions

• For each method of transportation, specify in the table below the existing traveling conditions according to the season.

Method of Transportation	Season	Traveling Conditions (Easy = E) (Difficult = D)
Transportation Snowmobile		(Subj. 2) (Difficult 2)
Canoe		
All-terrain vehicle (ATV)		
7111 terrain veinele (711 v)		
Automobile		
T 1		
Truck		
Helicopter		
Airplane		
Other		
• Comments		
•		

2.3 Future Land Use

2.3.1 Subject (paragraphs of the Guidelines)

- **380.** Special attention shall be paid to the use of land along Manitounuk Sound and the Great Whale, Little Whale and Nastapoka river estuaries in relation to the distribution of resources, and to their use by the inhabitants of Kuujjuarapik and Whapmagoostui and other populations. This review shall outline the current situation and **future prospects**, taking into account the social structures, spiritual values, harvesting levels, and the importance of traditional foods. The Proponent shall seek to learn about the possible solutions and alternatives under consideration by the Natives themselves, should access to the territory be substantially modified.
- **384.** The Proponent shall pay particular attention to social organization and symbol systems. These include such aspects as relationship to the land, social cohesion and dynamics (as opposed to the breakdown of the social organization), ties to other Native and non-Native communities, social identity, self-esteem, systems for explaining and accepting changes, **common visions of the future**, etc.
- **385.** The Proponent shall analyze perceptions of the proposed project in the communities, in relation to their own **visions of the future.**
- 530. In addition, the Proponent shall estimate the future use of other resources in the territory (water, minerals, appeal of nature in general), by local communities and by the inhabitants of other regions for cultural purposes and for recreation, tourism, energy production and other purposes. The Proponent shall also consider the economic contribution of these resources, that is, the creation of revenues and especially of jobs (in outfitting, tourism, mining operations, etc.).
- 552. The Proponent shall discuss in what way the proposed project is compatible with Native or non-Native plans for future development of the territory. For example, the Proponent shall examine the effects that would result from economic stimulation in the region (investment, employment structure, income, etc.). The Proponent shall in particular consider the future use of new products, the introduction of new technologies to process raw materials already in use, and the development of new markets. In short, the Proponent shall study the effects of the proposed project (including the construction of roads and airports) on regional development (outfitting, mines, etc.). The Proponent shall also examine the consequences of the proposed project on the availability of government services, the quality of air transport services, and the cost and availability of consumer products (the absence of competition shall be emphasized, when appropriate).

2.3.2 Information and Questions

. Questions

• How do you see your society evolving in the future from economic, social and cultural aspects (aspirations, shared visions of the future, your own visions of the future)?
You can enclose any background or policy document that may clarify or complete your answer.
• Now please refer to <i>Plate 3</i> (see end of this section) which illustrates some of the developmen projects planned in the territory. To your knowledge, are there any other recreation and tourism (e.g: outfitters), mining or other development projects that can be added to this plate?
Yes No
If so , indicate their location on the plate and provide the following information: name of the organization responsible, description and scope of the project(s) and the expected year of implementation.

3♦ Mitigative Measures and Environmental Monitoring — La Grande Experience

3.1 Mitigative Measures3.2 Environmental Monitoring

3.1 Mitigative Measures

3.1.1 Subject (paragraphs of the Guidelines)

603. A detailed description of the Proponent's policy concerning mitigation and compensation shall be presented, including its rationale and an analysis of <u>mitigation</u> and compensatory measures <u>undertaken with respect to the La Grande projects</u>. In particular, if funds have been set aside (whether as capital or as operating costs) for mitigation and compensation, the Proponent shall distinguish between funds which were destined for mitigation and for compensation, and shall explain how these figures were arrived at. The Proponent shall evaluate the effectiveness and efficiency of the mitigative and compensatory measures for the La Grande projects and shall report on the level of satisfaction of the affected populations with regard to those measures. The Proponent shall also refer to other projects in northern environments (Churchill, Churchill-Nelson, etc.), as well as to relevant literature available, in order to demonstrate that the mitigative and compensatory measures proposed reflect the state of the art in the field.

605. In keeping with the requirements outlined in paragraph 128, the Proponent shall consult with the Native populations and ascertain their <u>needs with regard to developing mitigative</u> and compensatory <u>measures</u> for the proposed project. A concrete mitigation and compensation program should reflect these consultations.

608. The Proponent shall also report on the experience concerning the organization of remedial work activities and propose an institutional framework appropriate to the proposed project. The proposed institutional framework shall take into account the central role of Native peoples who will be affected by the proposed project.

3.1.2 Information and Questions

♦ Information

In a territory that had experienced little development, construction of the La Grande Rivière hydroelectric complex was of a nature to bring about physical and biological changes in the environment, just as it could affect the lifestyle of the Native population. A series of remedial work activities therefore needed to be considered to reduce or limit the impacts of the project.

Thus, from the outset, the James Bay and Northern Quebec Agreement provided for the introduction of a series of mitigative measures in favor of the local populations: a land regime was in fact instituted, as well as a hunting, fishing and trapping regime subject to the principle of wildlife conservation.

Moreover, many species of mammals, fish and birds were reserved for the exclusive use of Natives. In addition, the Agreement made it possible to guarantee levels of harvesting for food purposes, in case of negative fluctuations in the animal population.

Finally, various programs were chosen for the different Cree and Inuit communities: an *income* security program that provides an annual income to Crees who pursue the traditional lifestyle on a regular basis; an *Inuit assistance program* that is aimed at guaranteeing the supply of goods and facilitates the practice of traditional activities; and a *hunting*, *fishing and trapping assistance* program designed to provide an income, benefits and other incentive measures for the Naskapis of Québec who wish to practice traditional activities. With regard to the Naskapi community, the Northeastern Québec Agreement provides for the same programs as for the Cree and Inuit communities.

In addition, to **facilitate access to the territory by the Natives**, improve the navigation conditions on the reservoirs or in the diversion areas, and provide for better exploitation of the resources, several complimentary measures were adopted. Namely:

- access ramps to the reservoirs and roads to the access ramps. Generally located in areas that can be accessed from the main road system and providing access to navigable portions of the reservoir along major transportation axes;
- landing areas for hydroplanes in order to serve remote portions of the reservoirs that are inaccessible by road but which are of interest to the local population for hunting, fishing and trapping;
- **navigation corridors** along the James Bay coastline to ensure the safe movement of craft used in the pursuit of traditional activities;
- cleared **multipurpose areas** near the main hydroelectric structures that are most easily accessed by road;
- **net fishing sites** in areas favorable to the concentration of certain fish species and where, consequently, the trees have been cut, and the water surface cleared of cut debris and other materials that could damage fishing equipment;
- **goose-hunting ponds** to encourage waterfowl to stop over during migration periods and to raise broods:
- snowmobile trails;
- the construction of **base camps and cabins** to improve living conditions during the practice of traditional activities:
- **barges** for the transportation of goods.

A series of remedial works were also selected to **improve the biological productivity of certain habitats**, such as:

- **clearing the mouth of tributaries** to facilitate access of the fish in the reservoirs to the tributaries most suited to spawning;
- **the creation of spawning grounds on banks** by improving the physical features of portions of the reservoir banks that may be suitable for spawning;
- the **reconstitution of riparian habitats** by introducing shrubs sought by small game on certain sections bordering on or near the reservoirs;
- **renewal cuts** along the reservoirs to stimulate maximum growth of stump shoots on which moose and small game can feed because they are now accessible;
- **protective dikes** in diversion areas to maintain the biological quality of the most productive environments and counter the major erosion phenomena that can detract from the biophysical quality of the milieu:
- **construction of weirs** in reduced-flow rivers to restore a body of water to its pre-cutoff area and volume, halt erosion and improve navigation;
- **sowing seeds and planting young shrubs on exposed banks** of reduced-flow rivers to halt erosion caused by surface runoff and encourage the establishment of wildlife resources that are of particular interest to the local population with regard to hunting and trapping;
- **planting over borrow pits** to restore the environment.

Finally, a certain number of measures were aimed at **enhancing the environment** and new hydroelectric developments.

- This is the case of **archaeological digs** which were carried out, following systematic inventories and studies of the area potential, in the areas likely to be affected by the construction of the hydroelectric developments.
- Similarly, **landscaping** was done along the tourist routes offering, among other things, **scenic lookouts** built at strategic points, as well as a series of environmental **information** and road sign panels.

These activities, for the most part, were performed as part of a set of structures put in place by the various agreements signed with the Native communities after the JBNQA:

- 1. Comité des experts de l'environnement [Environmental Experts Committee] (JBNQA 1975)
- 2. La Société des travaux de correction du Complexe La Grande SOTRAC [The La Grande Complex Remedial Works Corporation] (JBNQA 1975)
- 3. Le Groupe d'étude conjoint Caniapiscau-Koksoak GECCK [The Caniapiscau-Koksoak Joint Study Group CKJSG] (JBNQA 1975)
- 4. Le Comité conjoint Chasse, pêche et trappage [Hunting, Fishing and Trapping Coordinating Committee] (JBNQA 1975)
- 5. La Société Eeyou [The Eeyou Corporation] (La Grande (1986) Agreement)
- 6. Le Comité Mercure [The Mercury Committee] (Mercury Agreement 1986)
- 7. Kuujjuamiut inc. (Kuujjuaq Agreement)
- 8. Comités de liaison (liaison committees)

The role of the Société des travaux de correction du complexe La Grande (SOTRAC), defined by the James Bay and Northern Quebec Agreement, was especially important in correcting or mitigating the repercussions on the traditional activities of the Crees, as construction of the hydroelectric complex progressed. Some of the work became linked with the preservation of wildlife in the affected areas and with the improvement of wildlife habitats in unaffected areas (such as the inventory of beaver lodges and their intensive trapping in the reservoirs, the construction of breeding farms, or the remote sensing studies with caribou and beaver). The object of other work was mainly to improve access to the territory (such as the creation of snowmobile trails) and wildlife harvesting conditions. Moreover, SOTRAC favored an open participation structure, with a board of directors made up of an equal number of voting members from the SEBJ and the Cree community.

The Mercury Committee also played a central role in supervising the implementation of the mercury program, determining which studies and research projects to carry out under this program, informing the Native communities on a regular basis, and ensuring that a medical follow-up was performed by the regional health boards . The committee itself was managed by four-part Cree/Government/Hydro-Québec/SEBJ representation.

Finally, liaison committees were set up by the SEBJ for each of the La Grande phase II construction projects, with a mandate to: develop the mechanisms for controlling access to these sites, recommend safety measures, inform the Native communities of employment opportunities and contracts arising from the construction in process, and handle other matters of common interest that may be entrusted them. At LG-1, for example, the liaison committee was made up of eight people, among whom three representatives of the Chisasibi Band Council, three representatives of the SEBJ, and two SDBJ representatives.

Table 3 below summarizes some of the mitigative measures introduced following construction of the La Grande complex.

Table 3 – Summary of Some Mitigative Measures

CATEGORIES	OBJECTIVES	MEANS	PERFORMANCE RESULTS
• SEEDING AND PLANTING	 Restore sites affected by the construction work Improve visual aspect Control erosion and stabilize exposed banks 	 Seeding, by airplane, of herbaceous species mixed with fertilizers Planting small shrubs individually Herbaceous species only, shrubs only or seeding and planting 	• Excellent results with restoring sites affected by the construction work • Effective in countering erosion from runoff and wind erosion of newly exposed banks
	 Accelerate buffer zone reconstitution process Make area attractive to wildlife 		• These measures do not accelerate the natural evolution process; they delay it in some cases • Rehabilitated areas rarely used by waterfowl
CLEARING	 Improve visual quality in the vicinity of the construction work Mandatory clearing work required for hydraulic purposes Improve access to bodies of water Facilitate fishing 	 Large-scale clearing using machinery Selective manual clearing 	 Good results in the vicinity of the construction work In order to improve access and facilitate fishing, the areas to clear must be carefully selected
	Encourage regeneration of shrubs Clear areas around reservoir to encourage growth of new shrub species Maintain access of fish to spawning sites at the mouths of tributaries flowing into the reservoir	 Small-scale clearing in carefully selected areas, depending on features of reservoir banks Small-scale clearing at mouths of tributaries with high potential for use 	 Accelerates recolonization by shrub species Promotes the spread of herbaceous plants from open areas Doomed to failure if clearing is below maximum elevation of the reservoirs Clearing the mouths of the tributaries has made access easier for walleye

RECOVERY AND ELIMINATION OF WOOD DEBRIS	 Facilitate navigation and landing Protect manmade structures 	 Gathering and burning wood debris that has washed ashore in selected areas Gathering and burning floating wood debris 	 Effective in areas most used by local populations Cannot be applied to large areas
	 Make bodies of water more attractive Improve access to tributaries Promote spawning of walleye and whitefish Allow growth of vegetation in riparian buffer zone 		 Performance not verified Frequent returns possible
HATCHERIES	Maintain access to spawning sites and perenniality of the species	• Constructing fish-ladders	Generally yields good results
	 Promote the reproduction of species valued by the Natives Facilitate access of fish in reservoirs to spawning sites 	 Creating spawning grounds by spreading gravel Repairing existing spawning grounds Manual clearing of the mouths of tributaries 	• Biological effectiveness confirmed
FISHERIES DEVELOPMENT	Promote use of new bodies of water Promote local and regional economic developments	 Intensive fishing in semi-enclosed bays Seeding with indigenous species of fish Using every means to facilitate access (ramps, clearing, recovery of wood debris, etc.) Construction of weirs in rivers 	• Its effectiveness depends on the interest of users
WATERFOWL HABITATS	Promote harvesting of wildlife	Developing ponds (clearing)Work on coastal wetlands (dikes)	• Seem to yield good results up to now (Recent measure)

WATERFOWL HABITATS (cont'd)	• Encourage species to flourish	 Artificial nesting grounds Seeding of herbaceous species Clearing of selected areas with restricted access to encourage the establishment of herbaceous plant communities 	• Untested means
FUR-BEARING ANIMALS	Prevent losses during filling of reservoirs	Intensive trapping	• Seems to yield good results (difficult to measure)
SMALL ANIMALS	• Improve the quality of small animal habitats and promote their use in the short term	• Cuts to encourage secondary growth in valleys and areas adjacent to the reservoirs	• Renewal cuts have proven effective in the valleys
ACCESS TO THE TERRITORY	• Restore access to some of the territory lost due to construction	Construction of roadsConstruction of bridges	• Restores and often improves access
	 Open up access to a vaster territory by means of roads Reduce cost of transporting people and goods Link isolated communities 	 Permanent roads Winter roads Snowmobile trails Maintenance of temporary roads built during construction phase 	
	 Make navigation and landing safe Shorten navigation time 	Construction of small hydroport complexes Construction of access ramps Navigation charts Construction of navigation channels Development of navigation corridors	

IMPROVEMENT OF	 Lessen isolation 	 Radiocommunication 	
LIVING	 Increase safety 	stations	
CONDITIONS IN	• Reduce provisioning	 Construction of base 	
SECONDARY	costs	camps and hunting	
CAMPS		lodges	
		• Providing of material	
		and equipment to	
		facilitate traveling	
		C	

Questions

• The previous pages described the measures to facilitate access to the territory carried out for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

Measures to Facilitate Access to the Territory by the Natives	Need	Importance
•Access ramps to reservoirs		
•Roads leading to access ramps		
•Landing areas		
 Navigation channels 		
•Multipurpose areas		
•Net fishing sites		
•Goose-hunting ponds		
•Snowmobile trails		
Base camps and cabins		
•Barges		
•Other measures that would be important (which ones?)		
		

Kuujjuarapik 3 - 7

• The previous pages described the measures to improve the biological productivity of the habitats that have been taken for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

Measures to Improve the Biological Productivity of the Habitats	Needs	Importance
Clearing mouth of tributaries		
Creation of spawning grounds on banks		
Restoration of riparian habitats		
Renewal cuts		
Protective dikes		
Construction of weirs		
• Seeding		
Planting of young shrubs on exposed banks		
Planting in borrow pits		
• Other measures that would be important (which ones?)		
	<u> </u>	
	+	
	+	
	_	

3 - 8

• The previous pages described the measures to enhance the environment and the new hydroelectric development projects carried out for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

Hydroelectric Developments	Importance
Archaeological digs	
• Landscaping	
• Planting over borrow pits to restore the environment	
• Other measures that would be important (which ones?)	
etc.)	
When should the mitigative measures be put in place?	
When should the mitigative measures be put in place? During the construction of the complex	
When should the mitigative measures be put in place? During the construction of the complex After the construction of the complex	
When should the mitigative measures be put in place? During the construction of the complex After the construction of the complex	
When should the mitigative measures be put in place? During the construction of the complex After the construction of the complex	

Kuujjuarapik 3 - 9

3.2 Environmental Monitoring

3.2.1 Subject (paragraph of the Guidelines)

703. Actions contemplated for the operational phase of the proposed Great Whale project should be informed by and make reference to the experience gained through the La Grande project. The Proponent shall submit an assessment, <u>along with comments from the Natives</u>, of the <u>environmental monitoring performed for the first phase of the La Grande complex</u>, including an evaluation of how the results of this monitoring enhanced the understanding of the ecosystems, and how the information produced was linked to action with respect to specific remedial or compensatory measures, and specific project management decisions.

3.2.2 Information and Questions

Information

A vast environmental monitoring program was implemented at La Grande in order to assess and understand scientifically the nature and scope of the changes that occurred in the environment following the creation of the reservoirs of the complex and its related structures.

Essentially, the object of the monitoring was to analyze the physical, physico-chemical, and biological evolution of the aquatic environments created or modified by the La Grande complex, as well as that of the principal wildlife species and their habitat, including their use.

The principal elements of the biophysical environment that were studied are: water quality, the fish, mercury, the estuaries and eastern coast of James Bay, and land animals.

For the first three elements, namely water quality (including plankton and benthos), fish and mercury, 27 sampling stations were installed in the vicinity of the La Grande-2, Opinaca and Caniapiscau reservoirs.

The water quality, phytoplankton and zooplankton were sampled twice a month from 1977 to 1982, and once a month thereafter. The benthic organisms were sampled twice per summer from 1977 to 1982. The fish was always sampled once per month. The sampling frequency of the water quality and phytoplankton, during periods of ice cover, changed from four times per year from 1977 to 1982 to once per year thereafter. Mercury was and still is sampled from the flesh of fish harvested every two years.

Moreover, the fish harvested at the various sampling stations made it possible to track the density, growth and condition factors of the fish. All fish caught were in fact counted, as well as individually weighed and measured.

Studies were also carried out on the estuaries and eastern coast of James Bay to determine the consequences of the changes brought about in the estuary of La Grande Rivière, the flow of which was increased, and in the estuary of the Eastmain River, the flow of which was heavily reduced.

Kuujjuarapik 3 - 10

The studies were conducted before, during and after the construction of the La Grande project and dealt principally, in the physical domain, with the temperature, tide, freshwater plume, advance of the fresh-salt water interface, erosion, sedimentation and the ice regime, and with regard to the biological characteristics, with fish populations and waterfowl habitats. Studies of coastal waterfowl habitats were conducted jointly by the Société d'énergie de la baie James and the Canadian Wildlife Service.

Concurrently, certain wildlife species were systematically monitored. This was the case notably of the caribou, whose movements were studied by means of transmitters, including its principal feeding and calving areas, and waterfowl, whose preferred habitats and reproduction were also studied.

Finally, the development of the La Grande hydroelectric complex led to changes in the frequentation and use of the James Bay territory by the Native populations and the south. Studies were therefore conducted to monitor the tourism and recreation traffic on the roads, and the recreational harvesting of wildlife resources by non-Native workers and visitors.

Mercury was also monitored among the Cree population by the James Bay Conseil de la santé et des services sociaux, by specifically targeting certain risk groups, such as women of childbearing age and adults over 40 years of age.

♦ Questions

• Given the La Grande monitoring experience, which elements of the biophysical environments would you specifically like to see studied in the case of the Grande Baleine hydroelectric development project ?
• Given the La Grande monitoring experience, which elements of the human environment would you specifically like to see studied in the case of the Grande Baleine hydroelectric development project?

4 ♦ Diet

4.1 Subject (paragraphs of the Guidelines)

- **335. Fish populations.** The Proponent shall present a complete list of species encountered in the territory under study and shall indicate their preferred habitats, particularly their spawning areas. The Proponent shall provide an inventory of fish habitats in the area and shall indicate the geographic distribution of each species by season. The Proponent shall identify those factors which limit the distribution and population of those **species of interest for Native diets** and for sports fishing. The concentrations of contaminants in edible parts of fish shall be measured to provide baseline information.
- **350.** The Proponent shall present information on the geographic distribution, abundance, diet, preferred habitat, mortality factors, reproductive factors, known contaminant levels and **importance of marine invertebrates to Native diets.**
- **361. Rare species.** The Proponent shall then discuss <u>plant communities</u> of interest to the region: rare plants, exceptional, endangered or regionally significant populations, range extensions, special habitats, and areas used by Native peoples where <u>species of interest</u> (<u>for food</u>, medicine, etc.) are found. These populations are to be localized and described using the remote sensing studies of the last twenty years, where appropriate.
- **383.** The Proponent shall study the quality of life of the communities, paying particular attention to mortality and morbidity, suicide rates, and all matters related to conjugal and family violence. **The Proponent shall also describe the importance of traditional food sources and their availability in the diet of the communities in relation to food sources from the South.** Furthermore, on the basis of available data, the Proponent shall establish a portrait of local health, using the principal diseases that provide indices of public health (in particular, diabetes, neoplasm and infectious diseases). The Proponent shall indicate the period over which the study of health-related problems in the region will take place. Finally, on the basis of available data, the Proponent shall discuss the extent and significance of substance abuse.

4.2 Information and Questions

The available data on diet comes from extrapolating the results of the Comité sur la récolte autochtone [Native Harvest Committee] whose studies span the years 1976 to 1980, and from information gathered from the Inuit communities in the project study area in 1990.

4.2.1 Local Food

Information

Proportion of Harvested Foods in the Diet

Harvested foods would seem to make up approximately 50% of the total diet of the Inuit. This finding is however tempered by the consumer's age group, which seems to play an important role in the proportion of the diet comprised by traditional food sources. Thus, among the elderly, this proportion could run to 75% at certain times of the year. By comparison, in the under-25 age group, it rarely exceeds 20 to 25% at any time.

Questions

In your community, do harvested foods currently population's diet?	make up approximately 50% of the
Yes, they make up approximately 50% of the diet No, rather, they make up	%
• Do harvested foods make up approximately the segroups?	ame percentage of the diet for the different age
Yes, the percentage is the same for each age group No, the percentages are approximately the followin Young people Middle-aged Elderly peop	
• Comments	
_	

Species Consumed

♦ Information

Consumption per	species or g	roup of specie	es consumed	would break	k down as	follows	(based on
annual average at	Kuujjuarapi	k):					

 Marine mammals: Caribou:	23% 20%	waterfofish:	owl and b	irds:17%	40%
♦ Questions					
• Does current consumpercentages?	mption per species	or group of s	pecies in y	our commu	unity match the above
Yes, the breakdown i No, the breakdown ra		Caribou	nammals wl and bir	rds	- % - % - % - %
• What is the consum	ption breakdown by	y season?			
Marine mammals Caribou Waterfowl and bird Fish	SPRING % ———————————————————————————————————	SUMMER %	FALL %	WINTER	
• Which plant species	s in the territory are	part of the lo	cal diet?		
Name of plant specie	s				

Sources of Supply

Information

There are apparently four different sources of supply for harvested food products:

- harvesting (by far the most important); the municipal freezer (managed by the Programme d'aide aux Inuit (Inuit Assistance Program) for their hunting, fishing and trapping activities);
 • donations (through individual, family and intercommunity exchange networks);
- trade (through the local cooperative).

Question

In what proportion do these sour products in your community?	rces of supply contribute to the consumption of har	vested
Harvesting Municipal freezer Donations/exchanges Trade (local cooperative) Other sources	% % % % %	
If applicable, can you identify the	ese other sources of supply and provide a percentage	ge for each?
Comments		

Marine Invertebrates

Information

Marine invertebrates seem to play a major role in the diet; not necessarily from a quantitative standpoint but, first and foremost, from a social standpoint.

In fact, gathering mussels and sea urchins along the Hudson Bay coast might often give rise to some of the most highly valued group activities among members of the Inuit communities in the study area (Kuujjuarapik, Umiujaq and Inukjuak).

Moreover, marine invertebrates would be one of the principal elements of trade between the Sanikiluaq Inuit community and some members of the coastal Inuit communities.

There appears to be a variation in the consumption of these products between the different age groups.

Question

•		
• In your community, how in	mportant are marine invertebrates to	your diet?
Very important Moderately important Not very important		
• When are they available?	In the spring In the summer In the fall In the winter	
• Which marine invertebrate	species are preferred?	
Name of preferred species		_ _ _ _
There are no preferred specie	es	_
• In your community, who es	ats these products?	
The entire population Mainly young people Mainly middle-aged people Mainly the elderly	e	
 On what occasions are thes Mainly according to seasonal Mainly at feasts and ceremon 	se products consumed? I availability of the products nies (anniversaries, marriages, etc.)	
• Are these products traded of	or donated?	
Between families Between friends Between villages	NO	

4.2.2 Imported goods (Foodstuffs)

Information

The following informations come from a survey on diet conducted in Kuujjuarapik in the spring of 1991. The general finding seems to be the following: the local diet is apparently, in every case and in every individual, the result of a close complementarity between two types dietary styles: harvested foods and imports.

Like the food obtained from hunting, fishing and gathering, the consumption of imported foodstuffs (from the Northern Store, the local cooperative, the convenience store or catalogue orders) seems to vary a good deal, according to the age group being considered. Thus, the elderly consume much fewer store-bought goods than the younger generations do. Significant differences in the type of products consumed by either group have also been noted.

The goods bought most frequently are: flour, fat, sugar, tea, beef, chicken, pork, poultry, fish. Frozen and precooked products are apparently also very popular among all age categories. However, the frequency and diversity of purchases seem to vary according to the time of year.

Questions	
• At what time of the year are imported go	ods purchased by the population in your community?
Mainly in the spring Mainly in the summer Mainly in the fall Mainly in the winter Pretty well equally throughout the year	
• At what time of the year are imported go	ods available in your community?
Mainly in the spring Mainly in the summer Mainly in the fall Mainly in the winter Pretty well equally throughout the year	
• On average, how often are imported good	ds purchased?
About once per week Several times per month Once per month Less than once per month	
• What goods are purchased most often?	
Staples (flour, fat, sugar, tea) Meat (beef, chicken, pork) Fish Beverages Other products (which ones?)	

• In general, would the popula than you do now?	tion in your community like to consume more imported goods
Yes No	
If so, what are the factors that	prevent you from consuming more?
Availability Price Taste Nutritional value	
• Which groups in your comm	unity consume imported goods most often?
The entire population Mainly young people Mainly middle-aged people Mainly the elderly	



5.1 Subject (paragraphs of the Guidelines)

507. The study shall evaluate current and future states of ecosystem health and, in particular: ...

507(4). for the human populations, the current state of individual, collective, physiological and psychological health, paying particular attention to diseases that serve as indicators of changes in health; and shall attempt to identify the causes. The evaluation shall take into account **conceptions on the part of the affected populations with regard to their current health** and to the impacts the proposed project would have on their health. It shall also take into account the **local health services** (both care and prevention) and, specifically, community resources.

610. The Proponent shall identify the groups that would be most affected by the proposed project and shall **consult with members of those communities** to determine ways to reduce or eliminate any impacts on health and personal and community well-being.

5.2 Information and Questions

♦ Information

Currently available information on the causes of morbidity shows that diseases of the respiratory system, and of the ear, as well as trauma and poisoning are the principal health problems. The data indicates the presence of diseases of the circulatory system, heavy smoking, numerous cases of obesity and poor dental health and a significant volume of sexually transmitted diseases.

In the opinion of the Rochon Commission, which evaluated the social/health services and conditions throughout Québec in 1988, the social/health status of the Inuit of Nouveau-Québec is still very poor. On the other hand, experts agree that there have been major improvements at every level. From a historical point of view, the progress has been notable: there has been a substantial drop in infant mortality; in half a century, human life expectancy has increased from 26 years to 61 years; infectious and parasitic diseases, like impetigo and tuberculosis, have greatly diminished.

However, the difference between the life expectancy of the Inuit and that of Quebecers as a whole is still very large. Although there is less tuberculosis, the incidence is still thirty times higher in Nunavik than elsewhere in the province. Since the early 1960s, diseases of the circulatory system and tumours have been regularly diagnosed.

Questions

Indicate on the table below how the population's health problems have changed in the past ten years and, in your opinion, the principal reason for this change?

Health Problems	Change Over the Past Ten	Principal Reason
	Years	
	(Positive = P) (Negative = N)	
	(No change = NC)	
Diseases of the respiratory system		
Diseases of the ear		
Poisoning		
Diseases of the circulatory system		
Smoking-related problems		
Obesity		
Dental problems		
Sexually transmitted diseases		
Other problems (wich ones?)		

For each problem on the table below, indicate whether the population uses the health services more now than it did ten years ago and, in your opinion, the principal reason for this change?

Health Problems	Use of Health Services (More = M)	Principal Reason
	(Less = L) (No change = N)	
Diseases of the respiratory system		
Diseases of the ear		
Poisoning		
Diseases of the circulatory system		
Smoking-related problems		
Obesity		
Dental problems		
Sexually transmitted diseases		
Other problems (wich ones?)		

♦ Questions to Health Agencies
(CRSSS Kativik, physicians, nurses, community workers).
Are the current health services adequate to meet the needs of the population?
Yes No
• Would you say that this situation has been the same for the past ten years?
Yes No
• Do you feel that health services will adequately meet the needs of the population over the next few years?
Yes No
If not what types of services or resources should be put in place to adequately meet the needs of the population?
♦ Comments

• Do the different age groups use the health services in about the same proportions?
Yes No, young people use them more No, middle-aged people use them more No, the elderly use them more No, the elderly use them more
• Has this been the case for the last ten years or is it recent?
The case for the past ten years Recent
♦ Comments
• Are health services used mainly for treatment purposes or for prevention?
Mainly for treatment Mainly for prevention Approximately both equally
♦ Comments

6 ♦ Opening up of the Territory, Transportation **Infrastructure and Collector System**

- 6.1 Legal Status of New Access Infrastructures6.2 Opening of the Territory6.3 Airport6.4 Collector System

6.1 Legal Status of New Access Infrastructures

6.1.1 Subject (paragraphs of the Guidelines)

436. The Proponent shall describe the <u>legal status of new access infrastructures</u> during the construction of the proposed Great Whale Rive hydroelectric complex. The following, in particular, should be discussed: shall access roads be public or private and on what basis will this decision be taken? The Proponent shall assess the rationale for establishing a control system similar to that put in place by the Société d'Énergie de la Baie James during the first phase of construction at James Bay; who shall provide maintenance and information services for access roads, including the installation of rest areas, waste collection, snow removal, etc.?; who shall be responsible for road safety? The Proponent shall describe in the impact statement any agreement reached with other parties regarding the status and maintenance of access roads, and report on consultations held on the subject.

6.1.2 Information and Questions

♦ Information

Hydro-Québec proposes to control access to LG-2 — GB-1 road during the construction of the Grande Baleine complex, as was the case for the La Grande complex. To this end, a control station would be set up at the entrance to LG-2--GB-1 road (near LG-2). Access of non-residents to the road would generally be restricted to the personnel assigned to the construction work.

Natives could use the road or road sections as soon as they are commissioned. Once the facilities of the Grande Baleine complex are commissioned, this policy could continue to apply until an agreement is reached between the organizations responsible for managing the territory regarding the status of the road and its use.

(See *Plate 1-R* at the end of this section for the route for the LG-2 – GB-1 road)

Questions

• Do you agree with Hydro-Québec's proposal during construction?	
Yes No	
If not, what do you suggest?	
	_
	_
What do you suggest after the facilities of the Grande Baleine complex have been commissioned?	
	_

6.2 Access to the Territory

6.2.1 Subject (paragraphs of the Guidelines)

528. Finally, the Proponent shall evaluate how the construction of access routes to the installations would contribute to the **opening of the territory as a whole** through the creation of transportation links with the rest of the continent. The proponent shall also indicate the extent to which **needs for access** (both northward and southward) would be met and to which **needs for isolation** would be compromised (potential users, frequency, seasons, methods of transportation, reasons for use, changes in travel costs between the host region and the rest of the country), for each affected population. Again, collaboration with the communities of Kuujjuarapik and Whapmagoostui and analysis of other instances where territories were opened (including Chisasibi) are recommended. The Proponent shall be particularly attentive to the sense of identification with the territory on the part of both local populations and those of other regions.

562. Each major component of the access infrastructures shall be examined (north-south and east-west roads, airports, etc.); the access routes shall also be evaluated as a whole, since their effects are likely to be cumulative. In the same way, the study shall include an analysis of the positive and negative effects that would result from a road connection between Kuujjuarapik/Whapmagoostui and the sites of any other development activity in the territory. In preparing this section, the Proponent shall work closely with the communities of Kuujjuarapik, Whapmagoostui and Chisasibi, and shall indicate the experience acquired following the opening of other communities in northern Quebec, on the Lower North Shore or elsewhere in Canada. The Proponent shall also collaborate with the relevant organizations and governmental departments.

6.2.2 Information and Questions

♦ Information

The development of the Grande-Baleine complex will require construction of road infrastructures along two principal axes:

- north-south axis, 240-kilometers long, connecting LG-2 to GB-1;
- east-west axis, 295-kilometers long, connecting Lac Fagnant to Lac Bienville;

The development of the Grande Baleine complex will not require the construction of a road between GB-1 and the village of Kuujjuarapik/Whapmagoostui if the site selected for the airport is near GB-1. For its own needs, Hydro-Québec could choose an airport site near GB-1. Hydro-Québec is ready to consider other options that would meet both its needs and those of the communities. In this case, a road should be built between the GB-1 site and the village of Kuujjuarapik/Whapmagoostui.

Questions

Would your community like the village of Kuujjuarapik/Whapmagoostui to be accessible by road and thus linked to the road to Radisson and the South?
Yes No
• Please indicate below the social, cultural, economic and environmental advantages and disadvantages on which your answer is based.
Social
Cultural
Economic
Environmental

6.3 Airport

6.3.1 Subject (paragraph of the Guidelines)

452. The evaluation of the choice of an airport serving GB1 and

Kuujjuarapik/Whapmagoostui has been described in paragraph 428. This evaluation <u>shall be based on consultations with the parties involved</u>, and the results of these consultations shall be presented as an integral part of the impact statement. Concerns regarding the safety of the existing runway at Kuujjuarapik/Whapmagoostui shall also be addressed. Planning for these structures will extend over a period of at least 25 years.

6.3.2 Information and Questions

♦ Information

Hydro-Québec needs an airport for the construction and operation of the Grande Baleine 1 generating station. Hydro-Québec has analyzed various scenarios that could meet either its needs alone or its needs and those of the communities at the same time. Hydro-Québec would like your opinions and comments on the following scenarios:

• Scenario 1

GB-1-A site for Hydro-Québec's needs;

Existing Kuujjuarapik airport for the needs of the communities.

Scenario 2

Refurbishing of the Kuujjuarapik airport for the joint needs of both Hydro-Québec and the communities

Scenario 3

Site H — new airport — for the joint needs of both Hydro-Québec and the communities

• Scenario 4

Site D1 — new airport — for the joint needs of both Hydro-Québec and the communities

(See *plate 1-S* at the end of this section)

Table 6-1 below compares the characteristics of the sites being studied.

Table 6-1. Characteristics of the sites

Site	Runway Length	Weather Conditions	Land Category	Cost (\$M)	Distance from Kuujjua- rapik (km)	Use	Operating Conditions
GB-1A	1.5 km	Similar to Kuujjuarapik	Cat.3 Cat.2 joint	18.2	40	Hydro- Québec's needs alone	Uninhabited area. Kuujjuarapik Airport maintained for communities.
D-1	1.5 km	Slightly better	Cat.1 Inuit	27.5	10	Joint needs	Uninhabited area. Access less convenient for population.
Н	1.5 km	Not as good	Cat.1 Inuit	26.3	6	Joint needs	Uninhabited area. Access less convenient for population.
Refurbishing of Kuujjuarapik Airport	1.5 km	-	Cat.3	19.4 22.1 ⁽¹⁾	-	Joint needs	Inhabited area. Easy for population to access.

⁽¹⁾ Paved runway

Questions

• From the viewpoint of the community, what is the order of preference of the above scenarios?
First choice Second choice Third choice Fourth choice
• First choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

Second choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

Third choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

Fourth choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

6.4 Collector System

6.4.1 Subject (paragraph of the Guidelines)

459. In theory, the collector system should require as many corridors as there are lines; in practice, one corridor can sometimes accommodate two lines and even a road. The Proponent shall plan to combine the two lines linking the GB1 generating station to the Radisson station. The Proponent shall also indicate how it optimized the choice of distribution corridors and on what basis this optimization was based, describing any possibility of combining both roads and distribution corridors. Lastly, the Proponent shall explain how <u>land use</u> by native peoples was considered in preparing routes for the lines, referring in particular to the JBNQA and to <u>consultations with concerned parties</u>.

6.4.2 Information and Questions

♦ Information

Hydro-Québec has proposed a corridor for the transmission lines that would link Grande Baleine 1 generating station to Radisson substation, and two corridors for the lines that would link Grande Baleine 2 and Grande Baleine 3 generating stations to Chissibi substation. Hydro-Québec prefers the GB-3-Chissibi corridor for linking Grande Baleine 2 and Grande Baleine 3 generating stations to Chisasibi substation.

Ouestion

• Do you have any comments to make about the corridors with regard to your use of the land (wildlife, waterways, water routes, land routes, specific sites or otherwise)?	

(See *Plate 1-R* at the end of this section)



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- 1.4.1 Λ^{c} Λ^{c}
- 321. $d^* = d \cap d^* d < \Delta^* \Gamma$ $\wedge C \cap d \cap d^* > c$ $d^* = d \cap d^* d < \Delta^* \Gamma$ $\wedge C \cap d^* > c$ $d^* = d \cap d^* d < \Delta^* \Gamma$ $\wedge C \cap d^* > c$ $d^* = d \cap d^* d < \Delta^* \Gamma$ $\wedge C \cap d^* > c$ $\wedge C$
- 376. d°--- 40°-- 4 CALA, CALA $\forall \alpha \in \mathbb{C}$ $\forall \alpha \in \mathbb{C}$ $\forall \alpha \in \mathbb{C}$ $\forall \alpha \in \mathbb{C}$ PUL'7>NF2', C'64 4'C7L>N°C' DQC' 6LC>6504014655' $\wedge \text{C}^{\text{C}} = \text{C}^{\text{C}} \cap \text{C}^{\text{C}}$ σ PPYSY4(σ 6'), Δ 5\P)' NF σ 4\L4' σ 4\CPYL4\D6' \P\AF'\F 6\A6') C^{5} Lo A^{5} Lo ΛΦΥΔΙΕΥΊ: ΛΡΥΟβΡΙ ΟΙΟΙΡΕΊΣΑ ΦΕ ΑΙΊΟΝΑ ΤΕ ΜΕΥΝΑΙΙΑΙΝΑΙ ΤΕ ΕΙΘΟΙΙΑΙΝΑΙ ΤΕ ΕΙΘΟΙΙΑΙΝΑΙ ΤΕ ΕΙΘΟΙΙΑΙΝΑΙ ΤΕ ΕΙΘΟΙΙΑΙΝΑΙ ΕΙΘΟΙΙΑΙΝΑΙΝΑΙ ΕΙΘΟΙΙΑΙΝΑΙ ΕΙΘΟΙΙΑΙΝΑΙ ΕΙΘΟΙΙΑΙΝΑΙ ΕΙΘΟΙΙΑΙΝΑΙΝΑΙ ΕΙΘΟΙΙΑΙΝΑΙ ΕΙΘΟΙΙΑΙΝΑΙ ΕΙΘΟΙ $C\Delta L\Delta^{c}\Delta \Delta^{c}$ $C\Delta L\Delta^{c}\Delta \Delta^{c}$ $C\Delta L\Delta^{c}\Delta \Delta^{c}\Delta \Delta^{c}\Delta^{c}\Delta \Delta^{c}\Delta \Delta^{c}\Delta \Delta^{c}\Delta^{c}\Delta \Delta^{c}\Delta^{c}\Delta \Delta^{c}\Delta^{c}\Delta \Delta^{c}\Delta^{$ a a a a company of the factor and a company of the _a_CJ6P°TJ°_.

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- 2.2 Δ°Γ°ς JΠΓ → D → C
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- **376.** d~~</ri> PULYPNTS. CHA A'CYLDNYC DECC PLPHBJAUAGB'>C $\mathsf{LPC} \mathsf{LAS} \mathsf{LP}^{\mathsf{PC}} \mathsf{LAS} \mathsf{LS} \mathsf{$ σP 275745 σG 5 σG 5 σG 6 σG 7 σG 9 σG 9 σG 0 C^{5} Lo A^{5} Child A A^{5} Lo A^{5 \$DDAC\$UG\$UG\$ DQT\$ 4D\$Gd\$ (1950-1975 4LD 1975-1990) 255CD∀F ለፈረፈነር⊳JLፈገ. ለ⊳ረጋ'b'd' CUCU⊳슨'ጋጋ ወጪ⊳< ላጋ'ር⊳ራጐሁ 'b⊳ት५'ል⊳ፈ୮ $C\Delta L\Delta^{c} \Delta a^{b} C^{c} a C^{c} C^{d} \Delta^{c} C^{c} a^{c} \Delta^{c} C^{b} \Delta^{c} \Delta^{c} \Delta^{c} \Delta^{c} C^{b} \Delta^{c} \Delta^$ _o_CJ%dd°C⊃_o
- 567. $d^*\sigma = 4 \cap d^*d^* d < \Delta^*\Gamma$ $b > 1 + \Delta d^*$ $d^*G > d^*G > d^*G$
- **567** 3. Δ-\Δσ⁵⁶ ⁵6ρ⁵ ⁵6ρ⁵Lσ⁵⁶ ⁴⁵L₂ ⁵6ρ⁵L⁵Γσ⁶, ⁴Δ^c)Cρ^c(C Λ^cρ^c Λ^cc Δ-\Δσ⁵1^c ⁵β^cCρ^cδ⁵Γ^cλ^c;
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- 2.3.1 \(\frac{1}{2}\) \(\frac{1}{2}\)
- 380. $\Delta^{\prime}\Lambda^{\prime}PD \rightarrow \Delta^{\prime}VAC^{\prime}P^{\prime}$ $\Delta^{\prime}CDP^{\prime}V$ $\Delta^{\prime}DP^{\prime}PD \rightarrow \Delta^{\prime}VAC^{\prime}P^{\prime}$ $\Delta^{\prime}CDP^{\prime}VAC^{\prime}PC \rightarrow \Delta^{\prime}VPC \rightarrow \Delta^{$
- **384.** $d^*\sigma \wedge d^*d^* \Delta^* \wedge d^*b \Delta^* \cup d^*b$

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- **603.** ~ d~σ<0,d<-d<Δ-Γ ΔΔ</1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1</1>/>C/1 PU(CP)U(CP) = V(CP) + V(CP) \wedge %'C \vee 7'L \vee 4' C \vee 4'C \vee 7'L \vee 1'L \vee 1'C \vee 1 PU(C) PU(C) PU(C) PU(C) PU(C) PU(C) PU(C)Pabbar Difitation Data Adtanralation of the bilitiation of the bilitial of the Ͻዮ/°6Δ϶σ °dϤ ʹϧϫჼ Ͻዮ ʹϹϷϭʹĹ Ϲ. ͼͼ ϳͼϭϤႶჼϭʹ-ϭ<Δ·Γ ʹϧϷͰϞʹϭΓჼ °dϤ Δ° Γ° Γ° >>5'\-C'\-D')- ° ° ω ω'Llb>-%ln1' \-1'-1 °d< ΔωΔ' <>>C>-%l-C'\-' $\nabla_{\alpha} \nabla_{\alpha} \nabla_{\alpha$ $\Delta \subset \mathcal{V} \cup \mathcal{V$ CYL ALYOUPS.

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- 5. $\Delta \dot{\forall} d\Delta > \dot{\lambda} \dot{\nabla} (cd\dot{\gamma}^{\circ} \Gamma (1986\Gamma) \Delta^{\circ} \Gamma^{\circ} b \dot{\Gamma} \dot{\Gamma} J \Lambda \delta \dot{\sigma}^{\circ})$
- 6. ºd>J' PPQ'\\J' bNL>Q\\' (ºd>J' Q°P'6NPJN' 1986F)
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#### $3.2.2 \ \Lambda^{c} + \Pi^{b}\Gamma^{c} \left( L - U^{c} + \Delta^{c} \right) \Delta^{c} + L D \Pi^{b}\Gamma^{c} + D^{c}$

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# 6 • ΔαΡ΄ Ρ°ΘΔΠΟΡαθυρς, Δ°Ρ°ΓΙΠ΄ ΛΡ°ΘΠ-Καςηθρ α-Κυ ραςγυής

- 6.3 ۲°أ، د

- $6.1.1 \quad \Lambda^c + 1^{\theta} \Gamma^c \left( L U^c + \Delta^c \quad \Delta^c L + D \cap^{\theta} \Gamma^c + D^c \right)$
- **436.**  $\frac{1}{3}$   $\frac{1}{3}$
- $6.1.2 \quad \Lambda^{c} + \Pi^{b} \Gamma^{c} \left( L U^{c} + \Delta^{c} \quad \Delta^{c} L D \Pi^{b} \Gamma^{c} + D^{c} \right)$
- 6>>LUCSΔC

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• %>QC->>LQP,CC; V>Y,CD,CT,QC)Q,CC;

## $6.2.1 \quad \Lambda^{c} + \Pi^{c} \Gamma^{c} \left( L - U^{c} + \Delta^{c} \quad \Delta^{c} - L > \Pi^{c} \Gamma^{c} + D^{c} \right)$

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## 6.2.2 ⁶βρλιν⁶5 Δ⁶ ΔΛαρή⁶5

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# 6.3 Γ°δ\Δ°

# $6.3.1 \quad \Lambda^{c} + \Pi^{b} \Gamma^{c} \left( L - U^{c} + \Delta^{c} \quad \Delta^{c} - L \triangleright \Pi^{b} \Gamma^{c} + D^{c} \right)$

**452.**  $a b' 7' C b \sigma^h C$   $a' c 'C b \sigma^h C$  n' C i' 5' a d a b' 6' b' 5' (i' 5' - C' 4' L a d' 4 d i 4' b' 5' a a a a a c b' 6' c d a c' 6' c a d' 6' c a c' 6' c a d' 6' c a c' 6' c' 6' c a c' 6' c' 6' c a c' 6' c a c' 6' c

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# **Grande Baleine Complex Guide for Public Consultation**

Version finale Sanikiluaq

### **♦** Context

In early September 1992, Hydro-Québec received, from the federal and provincial administrators appointed by virtue of the James Bay and Northern Québec Agreement and the President of the Federal Environmental Assessment Review Panel, the Guidelines for the Environmental Impact Statement for the Proposed Great Whale River Hydroelectric Project.

As soon as it received the Guidelines, Hydro-Québec began analyzing the document to identify the paragraphs that required the gathering of additional information or consultation of the Native communities.

Concurrent to this analysis, Hydro-Québec contacted the representatives for the Cree, Inuit and Naskapi communities to determine how the consultation provided for by the Guidelines would be carried out.

Hydro-Québec prepared this guide in order to complete its information gathering and consult the Native communities. The results of this consultation process, which reflects the spirit of the Guidelines, will be made public.

### **Introduction of The Guide**

### Content

This guide is divided into four themes. The various paragraphs of the Guidelines that require the gathering of information or consultation have been grouped according to the following themes:

- 1 Knowledge and valorization of the environment
- 2 Current and future land use
- 3 Mitigative measures and environmental monitoring La Grande experience
- 4 Airport

Some of the themes are divided into sub-themes which are listed under the section heading.

# **Organization**

Each theme or sub-theme consists of two elements: the subject (the paragraphs of the Guidelines) and information and questions.

# **Subject (paragraphs of the Guidelines)**

The relevant paragraphs of the Guidelines have been transcribed in full to provide a context for the information gathering or the consultation process, the specific subject of which being the paragraphs that are **underlined and in bold**.

For example, on page 1 - 1, the part of paragraph 305 that is underlined and in bold reads as follows: "The Proponent must <u>define the valued ecosystem components recognized by each of the cultural groups concerned, as well as those components that they consider to be threatened by or vulnerable to the effects of the proposed project."</u>

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# **Information and Questions**

The "information" part of the second element summarizes the nature of the available data used in preparing Hydro-Québec's impact study.

The "Question(s)" part can take various forms:

• Provide or complete a valorization. For example, on page 1 - 2, respondents are asked to determine the order of importance of the vegetation components (Table 1-A) and on page 1 - 3, to complete a list of components (Table 1-B), if applicable

• Answer a question.

For example, on page 1 - 9, respondents are asked to specify whether the existence of an ice cover on various waterways affects the conditions of movement of the communities concerned.

• Identify, correct or complete information on a geographical map (plate). For example, on page 2 - 3, respondents are asked to correct or complete the information on visits to the area.

# **Answering procedure**

The space provided to answer the questions may be insufficient. If this is the case, you can insert additional pages indicating which question(s) they refer to.

Furthermore, if you have documents that answer any of the questions asked, you can use them to replace or supplement your answers.

Hydro-Québec appreciates your participation in this consultation and remains at your disposal for any information to facilitate its achievement and ensure its success.

This document is available in French, Inuttitut and Cree

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# 1 Knowledge and Valorization of the Environment

- 1.1 Valorization of the Components of the Environment
- 1.2 Vulnerable, Rare or Threatened Species
- 1.3 Temporal and Geographic Boundaries
- 1.4 Exceptional Sites

# 1.1 Valorization of the Components of the Environment

# 1.1.1 Subject (paragraphs of the Guidelines)

**303**. The Proponent shall provide a detailed description of the components of the environment which would be affected by the proposed project, based on the experience and knowledge of each concerned group. This chapter presents a framework based on generally accepted and scientific methods, which will be used as a minimum for describing the environment. As mentioned above, the Proponent shall ensure that this description is adequate in relation to Chapter 5.

305. In order to properly organize and target the description, the Proponent must <u>define the valued ecosystem components recognized by each of the cultural groups concerned, as well as those components that they consider to be threatened by or vulnerable to the effects of the proposed project.</u>

# 1.1.2 Information and Questions

### **Information**

Certain environmental components are more important than others from both a social and scientific point of view. So that the impact study can concentrate on the most significant environmental components, certain components have special value and receive special attention.

Hydro-Québec would like your comments on the selected components and on the criteria it uses to evaluate them. These components are vegetation, wildlife, and the ice regime. The criteria used are the potential wildlife habitats, plant communities of restricted distribution and the winter habitat.

# A. Vegetation

Table 1-A lists the valued vegetation components and valorization criteria used in Hydro-Québec's impact study.

Use the right-hand column ( $Your\ Value$ ) to indicate what importance you give each component: 1 = highly valued; 5 = not valued. If several components hold the same value for you, give them the same number.

Table 1-A - List of Vegetation Components Selected by Hydro-Québec

Components	Valorization Criteria	Your value
Aquatic and riparian vegetation	Potential habitat for fish, birds and land	
	animals	
Peat lands	Potential habitat for birds and for	
	caribou calving	
Coastal habitats	Potential habitat for birds	
Boreal poplar forests, white	Plant communities of restricted	
birch stands and aspen forests	distribution	
	Communities at the northern limit of their	
	distribution	
	Potential habitats for certain land mammals	
Willow forests on clay	Plant community of restricted	
	distribution	
Lichen-dominated spruce forests	Winter habitat of caribou	
and lichen ground cover		
Jack pine forest	Plant community of restricted	
	distribution	
	Plant community at the northern	
	limit of its distribution	

If you feel that the list of components is incomplete, or you wish to suggest other valorization criteria, fill out Table 1-B below. Assign a value to each component (1 to 5).

**Table 1-B - List of Additional Vegetation Components** 

Components	Valorization Criteria	Your Value

# B. Wildlife

### Information

The **valorization criteria selected** for the wildlife components in Hydro-Québec's impact study are the following:

- 1. Species harvested by Native people or reserved for their exclusive use in accordance with Appendix 2, Chapter 24 of the JBNQA;
  These species are all mustelids (mink, ermine, weasel, marten, fisher, otter, skunk and wolverine); beaver; lynx; fox; polar bear; muskrat; porcupine; woodchuck; black bear (on the Cree traplines North of the 50th parallel); wolf (North of the 50th parallel); freshwater seals; whitefish (non-anadromous); sturgeon; suckers; burbot; hiodons (mooneye and goldeye).
- 2. Species of interest for educational and recreational activities.
- 3. Species recognized as rare or vulnerable by the Committee on the Status on Endangered Wildlife in Canada and the Comité pour la sauvegarde des espèces menacées du Québec (COSEMEQ) or likely to be designated as threatened or vulnerable (MLCP 1992) by virtue of the "Loi sur les espèces menacées ou vulnérables" (Act respecting threatened or vulnerable species).
- 4. Species located at their distribution limit or having a restricted distribution in the study area.

These criteria are listed in Table 1-C on the following page.

Table 1-C lists the wildlife resources and the valorization criteria used by Hydro-Québec.

Use the right-hand column ( $Your\ Value$ ) to indicate what importance you give each component: 1 = highly valued; 5 = not valued. If several components hold the same value for you, give them the same number.

**Table 1-C - List of Wildlife Resources** 

Wildlife Resources	Valoriz	Your Value			
	1 Harvesting or Native exclusive use	Recreation Education	Rare or Threatened	4 Restricted Distribution	
Marine Invertebrates					
Sea cucumber	X				
Snow crab	X				
Sea urchin	X				
Blue mussel	X				
Freshwater and					
Estuarine Fish					
Lake herring	X				
Lake whitefish	X				
Round whitefish	X				
Northern pike	X	X		X	
Burbot	X				
Long-nosed sucker	X				
White sucker	X				
Brook trout	X	X			
Arctic char	X	X		X	
Landlocked salmon	X	X		X	
Lake trout	X	X			
Fourhorn sculpin	X				

Harvesting Recreation Rare or Restricted Yo		4 I
or Native exclusive use     Education     Threatened     Distribution     Val       Marine Fish       Arctic sculpin     x       Fourhorn sculpin     x     stream of the property o		•
Caribou   Cari		
Marine Fish		Julion Value
Marine FishxArctic sculpinxFourhorn sculpinxShortspine sculpinxGreenland codxMarine MammalsxBelugaxBearded sealxCommon sealxFreshwater sealxLand Mammals and Fur-Bearing AnimalsCaribouxMusk oxxMoosexBlack bearxWolfxArctic foxxRed foxxCanada lynxxRiver otterxAmerican martenxErminex		
Arctic sculpin	a Fich	
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Marine Mammals         x         x           Beluga         x         x           Bearded seal         x         x           Ringed seal         x         x           Common seal         x         x           Freshwater seal         x         x           Land Mammals and Fur-Bearing Animals         x         x           Caribou         x         x           Musk ox         x         x           Moose         x         x           Black bear         x         x           Wolf         x         x           Arctic fox         x         x           Red fox         x         x           Canada lynx         x         x           River otter         x         x           American marten         x         x           Ermine         x         x	ond and	
Beluga         x           Bearded seal         x           Ringed seal         x           Common seal         x           Freshwater seal         x           Land Mammals and Fur-Bearing Animals         x           Caribou         x           Musk ox         x           Moose         x           Black bear         x           Wolf         x           Arctic fox         x           Red fox         x           Canada lynx         x           River otter         x           American marten         x           Ermine         x		
Bearded seal Ringed seal Rommon seal Rreshwater seal Ramad Sand Fur- Bearing Animals  Caribou Musk ox Moose Ramad Sand Ra		
Ringed seal Common seal Freshwater seal  Land Mammals and Fur- Bearing Animals  Caribou  Musk ox  Moose  Black bear  Wolf Arctic fox Red fox Canada lynx River otter American marten Ermine  x  x  x  x  x  x  x  x  x  x  x  x  x		
Common seal x x x x x x x x x x x x x x x x x x x		
Freshwater seal x x x x  Land Mammals and Fur- Bearing Animals  Caribou x x x  Musk ox x x x  Moose x x x x  Black bear x  Wolf x  Arctic fox x  Red fox x  Canada lynx x x  River otter x  American marten x  Ermine		
Land Mammals and Fur-Bearing AnimalsXXCaribouXXMusk oxXXMooseXXBlack bearXXWolfXXArctic foxXXRed foxXXCanada lynxXXRiver otterXXAmerican martenXXErmineXX		
Bearing Animals         x         x           Caribou         x         x           Musk ox         x         x           Moose         x         x           Black bear         x         x           Wolf         x         x           Arctic fox         x         x           Red fox         x         x           Canada lynx         x         x           River otter         x         x           American marten         x         x           Ermine         x         x		ζ
Caribou		
Musk ox Moose	0	
MoosexxBlack bearxWolfxArctic foxxRed foxxCanada lynxxRiver otterxAmerican martenxErminex		-d-X
Black bear x X Wolf x X X X X X X X X X X X X X X X X X X		
Wolf Arctic fox Red fox Canada lynx River otter American marten Ermine  x  x  x  x  x  x  x  x		ζ
Arctic fox x x x X X Canada lynx x x X X X X X X X X X X X X X X X X X	pear	
Red fox Canada lynx River otter American marten Ermine  x  x  x  x  x  x  x		
Canada lynx x x x x American marten x Ermine x		
River otter x American marten x Ermine x		
American marten x Ermine x	ı lynx	
Ermine x		
American mink		
	can mink	
Beaver x x		ζ
Muskrat x x		
Snowshoe hare x x x		
Arctic hare x x x		
Porcupine x x		
Avifauna	na	
Common loon x		
Red-throated loon x		
Snow goose x x		
Osprey		
Canada goose x x		
Brent goose x x		
Teals x x		
American black duck x x		
Mallard x x	d	

^(*) Specie introduced by the MLCP between 1973 and 1983

	1	2	3	4	
	Harvesting	Recreation	Rare or	Restricted	Your
	or Native	Education	Threatened	Distribution	Value
	exclusive				
	use				
rthern pintail	X	X			
rthern shoveler	X	X			
dwall	X	X			
aups	X	X			
rlequin duck			X	X	
dsquaw duck	X	X			
lers	X	X			
oters	X	X		X	
ldeneye	X	X			
ddy duck	X	X			
ergansers	X	X			
ndpipers				X	
lls	X				
rns	X				
ack-legged kittiwake	X				
ick-billed murre	X				
ack guillemot	X				
ld eagle		X	X		
lden eagle		X	X		
regrine falcon		X	X		
cons	X				
vls	X				
real owl	X				
owy owl	X				
ruce grouse	X	X			
itail grouse	X	X			
llow ptarmigan	X	X			
	X	X			
	X				
llow ptarmigan ck ptarmigan ntings	X				

If you feel that the list of wildlife resources is incomplete, or you wish to suggest other valorization criteria, fill out Table 1-D below. Assign a value to each wildlife resource (1 to 5).

**Table 1-D - List of Additional Wildlife Resources** 

Wildlife Resources	Valorization Criteria	Your Value

# C. Ice Regime

Ice affects how Native people move about and use the land. It also affects how many species use the environment.

• In the case of your community, does the existence of an ice cover alter the conditions governing your movement in the territory?

•	$\sim$		
•	Ouc	26 <b>1</b> 1/	m
•	Vu		JIIC

Yes No	
If so, in what way does the existence of an ic movement? Specify locations, methods and it	e cover alter the conditions governing your routes.
Watercourses	<b>Changes in Conditions of Movement</b>
Manitounuk Sound	
Grande rivière de la Baleine	
Petite rivière de la Baleine	
Totale Tiviere de la Balonie	
	1

Watercourses	Changes in Conditions of Movement
Coats River	
Dantia Dinas	
Boutin River	<del> </del>
	+
Bienville Lake	
• For your community, are the winter freeze are events (e.g: holidays, celebrations or other ac	nd spring thaw reference points for particular tivities)?
Yes No	
If so, name the events and when they occur (fr	eeze or thaw).
-	_

# 1.2 Vulnerable, Rare or Threatened Species

# 1.2.1 Subject (paragraph of the Guidelines)

372. From the standpoint of ensuring the diversity of species in the study area, the Proponent shall discuss the preservation of vulnerable, rare or threatened species in the area concerned, as well as that of relevant plant communities and fragile ecosystems. This process will require input from various agencies, both provincial (ministère de l'Environnement du Québec [MENVIQ], ministère des Loisirs, de la Chasse et de la Pêche [MLCP]) and federal (Environment Canada), as well as from the Native communities. The Proponent shall consult with them concerning flora, plant communities, land and marine mammals, fish and birds. Current information shall then be discussed, and any inventories deemed necessary by government authorities in order to permit a decision on the proposed project shall be performed. The Proponent shall present the current and anticipated protection programs which are or will be in effect in this area.

# 1.2.2 Information and Questions

### **♦** Information

The impact study deals with the following threatened species: the beluga, freshwater seal, Canada lynx, Harlequin duck, Bald eagle, Golden eagle and Peregrine falcon. These species were identified by the committees of experts on threatened species and the "Loi sur les espèces menacées et vulnérables" (Act of respecting threatened or vulnerable species). No plant species was identified as being vulnerable, rare or threatened

# ♦ Questions In your opinion, are there other wildlife species that you feel are vulnerable, rare or threatened? Yes _____ No ____ If so, which ones? Are there some plant species that you consider vulnerable, rare or threatened? Yes _____ No ____ If so, which ones? Are there some plant species that are of interest to your community (ex: medicinal plants)? Yes _____ No ____ If so, which ones? Name the uses for these plants.

# 1.3 Temporal and Geographic Boundaries

# 1.3.1 Subject (paragraphs of the Guidelines)

**308. Geographic boundaries**. The boundaries of the area which may be affected by the proposed project vary, depending on the nature of the phenomenon considered. For example, given the migration of certain aquatic, terrestrial, and avian species, the range of biological concern could extend beyond the limits of the watersheds directly affected by the project. Hunting, fishing, trapping, and harvesting along the coastline and inland also mean that certain impacts on the activities of the relevant populations could also extend beyond these boundaries, notably to the residents of the Belcher Islands. The same could be said of the many activities related to the transportation of goods and services and to the traffic of people traveling to or from the area. Thus, while a number of impacts will be concentrated within a relatively restrictive study area, others will involve larger areas. **The Proponent shall therefore specify and justify the study area for each component of the environmental description, taking into account the boundaries of each component and those recognized by each cultural group**, and selecting the larger area if various boundaries of a given area are not the same.

**309. Temporal boundaries**. In addition to the geographic dimension, the Proponent shall also **consider the temporal dimension,** including multi-annual cycles and seasonal variations for each component of the environment and shall determine the appropriate temporal boundaries for each.

310. In order to properly assess the impacts of the proposed project, the Proponent <u>must</u> identify historical trends. For each component, the Proponent shall determine how far in the past the study should begin and how far into the future it should be carried. In order to select these temporal boundaries, the Proponent shall <u>take into account the limits generally recognized by each of the affected cultural groups.</u> If these limits differ for a single component, the Proponent shall select the longer period.

# 1.3.2 Information and Questions

### **♦** Information

Table 1-E gives the geographic and temporal boundaries of the various components of the continental and marine environments. The geographic boundary means the territory covered by the Hydro-Québec studies, whereas the temporal boundary indicates the date from which scientific inventories have been made by Hydro-Québec or others.

Table 1-E - Geographic and temporal boundaries of the various components of the region of the Grande Baleine complex

Environment	Component	Geographic Boundary	Temporal
			Boundarya
Continental	Primary producers Benthic and entomological fauna Ichtyofauna Vegetation Amphibians	GRB and PRB basins GRB and PRB basins Study area Study area Lakes Bienville, Elizabeth and Kakupis areas	1975 1975 1967 1950 1976
	Birds Waterfowl and loons	GRB, PRB and Nastapoka basins Nouveau-Québec (scoters only)	1975
	Harlequin ducks	GRB, PRB, Nastapoka, Eau Claire basins and La Grande complex	1975
	Shore birds	Lakes Elizabeth, Kakupis, Bienville, confluence of GRB and Coats	1976
	Birds of prey Land birds	Study area GRB, PRB basins and La Grande complex	1969 1975
	Mammals  Large land mammals  Caribou	Nouveau-Québec	1954
	Calving	GRB basin, lakes des Loups- Marin, Mollet, Lenormand, Saindon, Amichinatwayach and Guillaume-Delisle areas	1977
	Lichen biomass Grazing and trampling of lichen	Study area (west of 74° west)	1987 1990
	Grazing and trampling of lichen	Study area (east of 74° west) and La Grande complex	1990

 $\label{thm:components} \begin{tabular}{l} Table 1-E-Geographic and temporal boundaries of the various components of the region of the Grande Baleine complex (continued) \\ \end{tabular}$ 

Environment	Component	Geographic	Temporal
	-	Boundary	Boundarya
Continental	Musk-Ox	Study Area	1985 (1st
			observation)
	Moose	GRB basin	1971
	Fur-bearing animals and small mammals		
	Canada lynx	Study area	1975
	Snowshoe hare	Study area	1975
	Beaver	GRB, PRB and	1978
		Nastapoka basin	
	Other rodents	Region of confluence	1976
		of GRB and Coats	
		River	
	Freshwater seal	Study area and	1978
		periphery	
Marine	Primary and	Hudson Bay	1975
	secondary production		1001
	Coastal vegetation	Pointe Louis XIV to	1981
	T. 1	Nastapoka River	1076
	Ichtyofauna	Manitounuk Sound,	1976
		large estuaries	
		Small estuaries of	
	Avifauna	Hudson Bay Pointe Louis XIV to	1975
	Aviiaulia		1973
	Marine mammals	Nastapoka River	
		Hudson Ray and	1550h
	Beluga	Hudson Bay and Strait, James Bay	1752 ^b
İ		Buan, James Day	1

a: Studies in which the inventories were taken using recognized scientific techniques
According to the Hudson Bay Company capture registers
Notes: • The project study area is illustrated by the boundary of the watersheds shown in Plate 2
• GRB: Grande rivière de la Baleine
• PRB: Petite rivière de la Baleine

<b>♦</b> Questions		
• Do the geographic and tempor	ral boundaries seem adequate to	you for each of the components?
Geographic boundaries: Yes	Yes No	
If the <b>geographic</b> boundaries <b>d</b>	o not:	
	ow the geographic boundaries the components to which they w	
Components	Reasons	Geographic Boundaries
		Table 1-E exist? Could you state s?

Components	References	Dates	

# 1.4 Exceptional Sites

# 1.4.1 Subject (paragraphs of the Guidelines)

321. The Proponent shall provide an inventory of all sites particularly representative of the milieu or exhibiting unique physical or biological features in the region of the proposed project. The surficial geological map shall indicate the special sites or land forms that warrant protection because they are unique or remarkable, according to the residents of the region and others. The uniqueness of any sites which might be submerged or altered as a result of development shall be described. The stranded shorelines around Lac Fagnant and the terraces along the Great Whale River are examples of such features.

376. The Proponent shall describe the economy of each community. Notwithstanding the present activities and future opportunities for employment and for the production of goods and services by Natives for their specific needs, this profile shall deal specifically with the evolution since the 1950s of the hunting, fishing and gathering economy, as well as other traditional and commercial activities, taking into account the institutional structure introduced by the JBNQA. The Proponent shall draw a historic and current portrait of land use (1950-1975 and 1975-1990) in the area affected by the proposed project. Traditional and modern land use in the study area including Belcher Islands by Natives and non-Natives shall be clearly identified. Areas which are considered of particular interest to government bodies or other groups interested in the protection and development of the region (parks, reserves, conservation areas, sites or watercourses of interest for recreation or tourism, etc.) will be identified and justified with respect to the objectives of the Natives and non-Natives.

# 1.4.2 Information and Questions

### **♦** Information

The areas of particular interest were selected based on the criteria identified in a report prepared in conjunction with Environment Canada and La Société de développement de la Baie James (*Sites intéressants du territoire de la Baie James*. Rapport E.T.B.J. #36, Octobre 1977). This report identifies 26 interesting sites, among which the following sites are considered exceptional in terms of their scenic or geomorphological attraction.

# The exceptional sites are the following:

- the islands and peninsula in the Manitounuk Sound;
- the mouth of the Petite rivière de la Baleine;
- the waterfalls and terraces at kilometers 30 and 65 of the Grande rivière de la Baleine;
- the rapids, waterfalls and escarpments between kilometers 198 and 225 of the Grande rivière de la Baleine;
- the beaches and sandy shores of Kaychisakakamaw Lake and the Geoffroy River, immediately to the south;
- Kinglet Lake;
- the mountain and the scenic lookouts along the Petite rivière de la Baleine, northeast of the Saindon Lakes.
- the rocky escarpments along the Petite rivière de la Baleine northeast of the Saindon Lakes.

Among the areas classified as interesting are, among others, the mouth and certain other slow flowing sections of the Grande rivière de la Baleine, the Fagnant Lake outwash area, the Second River, the cuestas on Manitounuk Sound, the outwash and esker deposits in the middle of Bienville Lake and Roz Lake.

### **♦** Area considered for siting of national park

The territory including Lac Guillaume-Delisle and Lac à l'Eau Claire has been identified as a potential location for the creation of a national park by the Environment Canada Parks Service.

# ♦ Area considered for siting of provincial park

The Direction de l'aménagement of the ministère du Loisir, de la Chasse et de la Pêche has identified the Lake Burton and Roggan River area as a site for a proposed provincial park.

# **♦** Areas considered for siting of ecological reserves

The Direction de la conservation et du patrimoine écologique of the ministère de l'Environnement du Québec has identified two areas for proposed ecological reserves: Lacs des Loups-Marins and the lower course of the Petite rivière de la Baleine. The exact boundaries of these projects are still provisional, whereas the status of the Lacs des Loups-Marins could be changed.

Both projects are at the preliminary stage. They have not been included in the Direction de la conservation et du patrimoine's short-term schedule for implementation of ecological reserves.

# ♦ Areas of diverse wildlife resources or special interest

The richest areas in terms of wildlife are Bienville Lake and its periphery, the lower course of the Grande rivière de la Baleine, Laguerne River, the Denys, Marest, Kinglet and Mureau lakes area, the Elizabeth, Kakupis and Fressel lakes area, and the lower course of the Coats River. This category also covers areas favorable to wildlife species with restricted distribution, such as the Petite rivière de la Baleine estuary, the islands, estuary and lower course of the Nastapoka River, as well as the Lacs des Loups-Marins area.

Please examine *Plate 3* now (Special interest areas) at the end of the section and then answer the questions on the following page.

•	$\sim$	4 •
•	( )11	estions
•	ŲΨ	CSHOIIS

From your knowledge of the territory, do the sites and areas inventoried on Plate 3 clearly indicate the most representative sites and the areas of particular interest of the territory being studied?
Yes No
<b>If not</b> , indicate on Plate 3 the other sites or areas that you feel are most representative or are of particular interest. Briefly explain the reasons for your choice.

# **2 ♦ Current and Future Land Use**

- 2.1 Current Land Use
- 2.2 Modes of Transportation 2.3 Future Land Use

# 2.1 Current Land Use

# 2.1.1 Subject (paragraphs of the Guidelines)

376. The Proponent shall describe the economy of each community. Notwithstanding the present activities and future opportunities for employment and for the production of goods and services by Natives for their specific needs, this profile shall deal specifically with the evolution since the 1950s of the hunting, fishing, and gathering economy, as well as other traditional and commercial activities, taking into account the institutional structure introduced by the JBNQA. The Proponent shall draw a historic and current portrait of land use (1950-1975 and 1975-1990) in the area affected by the proposed project. Traditional and modern land use in the study area including Belcher Islands by Natives and non-Natives shall be clearly identified. Areas which are considered of particular interest to government bodies or other groups interested in the protection and development of the region (parks, reserves, conservation areas, sites or watercourses of interest for recreation or tourism, etc.) will be identified and justified with respect to the objectives of the Natives and non-Natives.

380. Special attention shall be paid to the use of land along Manitounuk Sound and the Great Whale, Little Whale and Nastapoka river estuaries in relation to the distribution of resources, and to their use by the inhabitants of Kuujjuarapik and Whapmagoostui and other populations. This review shall outline the current situation and future prospects, taking into account the social structures, spiritual values, harvesting levels, and the importance of traditional foods. The Proponent shall seek to learn about the possible solutions and alternatives under consideration by the Natives themselves, should access to the territory be substantially modified.

# 2.1.2 Information and Questions

Indicate whether the information shown on the plates placed at the end of this section accurately reflects the current land use **by your community in the project study area** with respect to the following aspects:

- Examine *Plate 4-I3* (Land occupation by Sanikiluaq Inuit); enter the information on campsites and travel routes (see legend on the plate).
- Secondly, examine *Plates 6-I3 to 9-13*; identify the parts of **the study area where your community** harvests resources, indicating with a number the resources that are harvested (see legend of plates).
- Spring harvesting by Sanikiluaq community (*Plate 6-I3*).
- Summer harvesting by Sanikiluaq community (*Plate 7-I3*).
- Fall harvesting by Sanikiluaq community (*Plate 8-I3*).
- Winter harvesting by Sanikiluaq community (*Plate 9-I3*).
- Next examine *Plate 10* (Burial sites known by Hydro-Québec); correct and, if necessary, complete the location of your community's burial sites.

# 2.2 Modes of Transportation

# 2.2.1 Subject (paragraphs of the Guidelines)

520. In order to evaluate the free movement of all species inhabiting the territory, the Proponent shall inventory and map the land and water routes (including streams, rivers, lakes, estuaries, shorelines and Hudson Bay) and the aerial routes that are currently used, or could potentially be used, and which could be affected by the proposed Great Whale River hydroelectric complex. The seasons during which different movement patterns occur, and the reasons why, shall be particularly taken into consideration. With respect to wildlife, particular attention shall be paid to the movement of beluga populations and the corridors used by caribou. With respect to the human population, the Proponent shall also identify the methods of transportation employed (snowmobiles, canoes, various types of boats, ATVs [all-terrain vehicles], automobiles, trucks, helicopters, airplanes) and their costs. In addition, the Proponent shall describe the existing conditions governing the movement between the territory and neighbouring regions. The Proponent shall also consider the opinions of the inhabitants with regard to conditions of movement, as well as any fears they may express concerning the new conditions that would result from the proposed project.

# 2.2.2 Information and Questions

### **♦** Information

Please refer to *Plate 4-I3*, placed at the end of this section, which shows your community's travel routes. Indicate the various methods of transportation used in the course of your movements, for each route and according to the season (snowmobiles, canoes, boats, all-terrain vehicles (ATVs), automobiles, trucks, helicopters, airplanes).

# **♦** Questions

• For each method of transportation, specify in the table below the existing traveling conditions according to the season.

Method of Transportation Snowmobile	Season	Traveling Conditions (Easy = E) (Difficult = D)
Snowmobile		
Canoe		
All-terrain vehicle (ATV)		
Automobile		
Truck		
Helicopter		
Airplane		
Other		
• Comments		

# 2.3 Future Land Use

# **2.3.1** Subject (paragraphs of the Guidelines)

- **380.** Special attention shall be paid to the use of land along Manitounuk Sound and the Great Whale, Little Whale and Nastapoka river estuaries in relation to the distribution of resources, and to their use by the inhabitants of Kuujjuarapik and Whapmagoostui and other populations. This review shall outline the current situation and **future prospects**, taking into account the social structures, spiritual values, harvesting levels, and the importance of traditional foods. The Proponent shall seek to learn about the possible solutions and alternatives under consideration by the Natives themselves, should access to the territory be substantially modified.
- **384.** The Proponent shall pay particular attention to social organization and symbol systems. These include such aspects as relationship to the land, social cohesion and dynamics (as opposed to the breakdown of the social organization), ties to other Native and non-Native communities, social identity, self-esteem, systems for explaining and accepting changes, **common visions of the future**, etc.
- **385.** The Proponent shall analyze perceptions of the proposed project in the communities, in relation to their own **visions of the future.**
- 530. In addition, the Proponent shall estimate the future use of other resources in the territory (water, minerals, appeal of nature in general), by local communities and by the inhabitants of other regions for cultural purposes and for recreation, tourism, energy production and other purposes. The Proponent shall also consider the economic contribution of these resources, that is, the creation of revenues and especially of jobs (in outfitting, tourism, mining operations, etc.).
- 552. The Proponent shall discuss in what way the proposed project is compatible with Native or non-Native plans for future development of the territory. For example, the Proponent shall examine the effects that would result from economic stimulation in the region (investment, employment structure, income, etc.). The Proponent shall in particular consider the future use of new products, the introduction of new technologies to process raw materials already in use, and the development of new markets. In short, the Proponent shall study the effects of the proposed project (including the construction of roads and airports) on regional development (outfitting, mines, etc.). The Proponent shall also examine the consequences of the proposed project on the availability of government services, the quality of air transport services, and the cost and availability of consumer products (the absence of competition shall be emphasized, when appropriate).

# 2.3.2 Information and Questions

# . Questions

How do you see your society evolving in the future from economic, social and cultural asperations, shared visions of the future, your own visions of the future)?	;Cts
You can enclose any background or policy document that may clarify or complete your answ	er.
Now please refer to <i>Plate 3</i> (see end of this section) which illustrates some of the development projects planned in the territory. To your knowledge, are there any other recreation and tourise, c.g: outfitters), mining or other development projects that can be added to this plate?	ent sm
Yes No	
If so, indicate their location on the plate and provide the following information: name of the organization responsible, description and scope of the project(s) and the expected year of implementation.	i

**3 ♦ Diet** 

# 3.1 Subject (paragraphs of the Guidelines)

- **335. Fish populations.** The Proponent shall present a complete list of species encountered in the territory under study and shall indicate their preferred habitats, particularly their spawning areas. The Proponent shall provide an inventory of fish habitats in the area and shall indicate the geographic distribution of each species by season. The Proponent shall identify those factors which limit the distribution and population of those **species of interest for Native diets** and for sports fishing. The concentrations of contaminants in edible parts of fish shall be measured to provide baseline information.
- **350.** The Proponent shall present information on the geographic distribution, abundance, diet, preferred habitat, mortality factors, reproductive factors, known contaminant levels and **importance of marine invertebrates to Native diets.**
- **361. Rare species.** The Proponent shall then discuss <u>plant communities</u> of interest to the region: rare plants, exceptional, endangered or regionally significant populations, range extensions, special habitats, and areas used by Native peoples where <u>species of interest</u> (<u>for food</u>, medicine, etc.) are found. These populations are to be localized and described using the remote sensing studies of the last twenty years, where appropriate.
- **383.** The Proponent shall study the quality of life of the communities, paying particular attention to mortality and morbidity, suicide rates, and all matters related to conjugal and family violence. **The Proponent shall also describe the importance of traditional food sources and their availability in the diet of the communities in relation to food sources from the South.** Furthermore, on the basis of available data, the Proponent shall establish a portrait of local health, using the principal diseases that provide indices of public health (in particular, diabetes, neoplasm and infectious diseases). The Proponent shall indicate the period over which the study of health-related problems in the region will take place. Finally, on the basis of available data, the Proponent shall discuss the extent and significance of substance abuse.

# 3.2 Information and Questions

The available data on diet comes from extrapolating the results of the Comité sur la récolte autochtone [Native Harvest Committee] whose studies span the years 1976 to 1980, and from information gathered from the Inuit communities in the project study area in 1990.

### 3.2.1 Local Food

#### **Information**

Proportion of Harvested Foods in the Diet

Harvested foods would seem to make up approximately 50% of the total diet of the Inuit. This finding is however tempered by the consumer's age group, which seems to play an important role in the proportion of the diet comprised by traditional food sources. Thus, among the elderly, this proportion could run to 75% at certain times of the year. By comparison, in the under-25 age group, it rarely exceeds 20 to 25% at any time.

### Questions

• In your community, do harvested foods currently make up approximately 50% of the population's diet?
Yes, they make up approximately 50% of the diet %
• Do harvested foods make up approximately the same percentage of the diet for the <i>different</i> age groups?
Yes, the percentage is the same for each age group  No, the percentages are approximately the following:  Young people %  Middle-aged people %  Elderly people %
• Comments

# Species Consumed

# **♦** Information

Consumption per spe annual average at Ku		eies consume	ed would l	break down	as follows (based or
<ul><li> Marine mammals:</li><li> Caribou:</li></ul>	23% 20%	<ul><li>waterfo</li><li>fish:</li></ul>	owl and bi	rds:17%	40%
<b>♦</b> Questions					
• Does current consumpercentages?	mption per species or	r group of sp	pecies in y	our commu	unity match the above
Yes, the breakdown is No, the breakdown ra	ather is the following	Caribou Waterfov Fish	nammals wl and bir	ds	- % - % - % - %
• What is the consum	ption breakdown by	season?			
Marine mammals Caribou Waterfowl and bird Fish	% 	SUMMER % ———————————————————————————————————	FALL %	WINTER %	
• Which plant species	s in the territory are p	oart of the lo	cal diet?		
Name of plant specie	es				

# Sources of Supply

### **Information**

There are apparently four different sources of supply for harvested food products:

- harvesting (by far the most important); the municipal freezer (managed by the Programme d'aide aux Inuit (Inuit Assistance Program) for their hunting, fishing and trapping activities);
  • donations (through individual, family and intercommunity exchange networks);
- trade (through the local cooperative).

### Question

• In what proportion do these so products in your community?	urces of supply contribute to the consumption of harvested
Harvesting % Municipal freezer Donations/exchanges Trade (local cooperative) Other sources	% % %
If applicable, can you identify to	hese other sources of supply and provide a percentage for each
Comments	

### Marine Invertebrates

#### **Information**

Marine invertebrates seem to play a major role in the diet; not necessarily from a quantitative standpoint but, first and foremost, from a social standpoint.

In fact, gathering mussels and sea urchins along the Hudson Bay coast might often give rise to some of the most highly valued group activities among members of the Inuit communities in the study area (Kuujjuarapik, Umiujaq and Inukjuak).

Moreover, marine invertebrates would be one of the principal elements of trade between the Sanikiluaq Inuit community and some members of the coastal Inuit communities.

There appears to be a variation in the consumption of these products between the different age groups.

#### Question

•		
• In your community, how in	mportant are marine invertebrates to	your diet?
Very important Moderately important Not very important		
• When are they available?	In the spring In the summer In the fall In the winter	
• Which marine invertebrate	species are preferred?	
Name of preferred species		_ _ _ _
There are no preferred specie	es	_
• In your community, who es	ats these products?	
The entire population Mainly young people Mainly middle-aged people Mainly the elderly	e	
<ul> <li>On what occasions are thes Mainly according to seasonal Mainly at feasts and ceremon</li> </ul>	se products consumed? I availability of the products nies (anniversaries, marriages, etc.)	
• Are these products traded of	or donated?	
Between families Between friends Between villages	NO	

# 3.2.2 Imported goods (Foodstuffs)

#### Information

The following informations come from a survey on diet conducted in Kuujjuarapik in the spring of 1991. The general finding seems to be the following: the local diet is apparently, in every case and in every individual, the result of a close complementarity between two types dietary styles: harvested foods and imports.

Like the food obtained from hunting, fishing and gathering, the consumption of imported foodstuffs (from the Northern Store, the local cooperative, the convenience store or catalogue orders) seems to vary a good deal, according to the age group being considered. Thus, the elderly consume much fewer store-bought goods than the younger generations do. Significant differences in the type of products consumed by either group have also been noted.

The goods bought most frequently are: flour, fat, sugar, tea, beef, chicken, pork, poultry, fish. Frozen and precooked products are apparently also very popular among all age categories. However, the frequency and diversity of purchases seem to vary according to the time of year.

	Questions	
•	At what time of the year are imported good	ods purchased by the population in your community?
	Mainly in the spring Mainly in the summer Mainly in the fall Mainly in the winter Pretty well equally throughout the year	
•	At what time of the year are imported good	ods available in your community?
	Mainly in the spring Mainly in the summer Mainly in the fall Mainly in the winter Pretty well equally throughout the year	
•	On average, how often are imported good	s purchased?
	About once per week Several times per month Once per month Less than once per month	
•	What goods are purchased most often?	
	Staples (flour, fat, sugar, tea) Meat (beef, chicken, pork) Fish Beverages Other products (which ones?)	

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• In general, would the popula than you do now?	tion in your community like to consume more imported goods
Yes No	
If so, what are the factors that ]	prevent you from consuming more?
Availability Price Taste Nutritional value	
• Which groups in your comm	unity consume imported goods most often?
The entire population Mainly young people Mainly middle-aged people Mainly the elderly	

**4 ♦ Airport** 

# 4.1 Subject (paragraph of the Guidelines)

452. The evaluation of the choice of an airport serving GB1 and Kuujjuarapik/Whapmagoostui has been described in paragraph 428. This evaluation shall be based on consultations with the parties involved, and the results of these consultations shall be presented as an integral part of the impact statement. Concerns regarding the safety of the existing runway at Kuujjuarapik/Whapmagoostui shall also be addressed. Planning for these structures will extend over a period of at least 25 years.

# 4.2 Information and Questions

#### **♦** Information

Hydro-Québec needs an airport for the construction and operation of the Grande Baleine 1 generating station. Hydro-Québec has analyzed various scenarios that could meet either its needs alone or its needs and those of the communities at the same time. Hydro-Québec would like your opinions and comments on the following scenarios:

#### • Scenario 1

GB-1-A site for Hydro-Québec's needs;

Existing Kuujjuarapik airport for the needs of the communities.

#### • Scenario 2

Refurbishing of the Kuujjuarapik airport for the joint needs of both Hydro-Québec and the communities

#### • Scenario 3

Site H — new airport — for the joint needs of both Hydro-Québec and the communities

#### Scenario 4

Site D1 — new airport — for the joint needs of both Hydro-Québec and the communities

(See *plate 1-S* at the end of this section)

Table 4-1 below compares the characteristics of the sites being studied.

**Table 4-1. Characteristics of the sites** 

Site	Runway Length	Weather Conditions	Land Category	Cost (\$M)	Distance from Kuujjua- rapik (km)	Use	Operating Conditions
GB-1A	1.5 km	Similar to Kuujjuarapik	Cat.3 Cat.2 joint	18.2	40	Hydro- Québec's needs alone	Uninhabited area. Kuujjuarapik Airport maintained for communities.
D-1	1.5 km	Slightly better	Cat.1 Inuit	27.5	10	Joint needs	Uninhabited area. Access less convenient for population.
Н	1.5 km	Not as good	Cat.1 Inuit	26.3	6	Joint needs	Uninhabited area. Access less convenient for population.
Refurbishing of Kuujjuarapik Airport	1.5 km	-	Cat.3	19.4 22.1 ⁽¹⁾	-	Joint needs	Inhabited area. Easy for population to access.

⁽¹⁾ Paved runway

# Questions

From the viewpoint of the community, what is the order of preference of the above scenarios
First choice Second choice Third choice Fourth choice
First choice
n your opinion, what are the advantages of this scenario?
What are the disadvantages?
n your opinion, what means could be implemented to minimize the disadvantages?

Second ch	orce
In your opinio	on, what are the advantages of this scenario?
, i	
What are the	disadvantages?
vv nat are the	uisad vantages :
In your opinio	on, what means could be implemented to minimize the disadvantages?

Third choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

• Fourth choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?



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- 1.3 ﻣﻮΔ՝ Კ゚Ⴥ◁ႶჼႸჅჼ ႪჽჇႷჼჽჽჄႾႯჼ ႯჼႾჂ ჾჇΔჼ Კ゚ჅႯႶჼႸჅჼჂ ႯჄჼႶჼჅჂ ႪჽჇჄჼჽჽჄႾჼႠႯჼ
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# **Grande Baleine Complex Guide for Public Consultation**

Umiujaq Version finale

#### **♦** Context

In early September 1992, Hydro-Québec received, from the federal and provincial administrators appointed by virtue of the James Bay and Northern Québec Agreement and the President of the Federal Environmental Assessment Review Panel, the Guidelines for the Environmental Impact Statement for the Proposed Great Whale River Hydroelectric Project.

As soon as it received the Guidelines, Hydro-Québec began analyzing the document to identify the paragraphs that required the gathering of additional information or consultation of the Native communities.

Concurrent to this analysis, Hydro-Québec contacted the representatives for the Cree, Inuit and Naskapi communities to determine how the consultation provided for by the Guidelines would be carried out.

Hydro-Québec prepared this guide in order to complete its information gathering and consult the Native communities. The results of this consultation process, which reflects the spirit of the Guidelines, will be made public.

#### **Introduction of The Guide**

#### Content

This guide is divided into six themes. The various paragraphs of the Guidelines that require the gathering of information or consultation have been grouped according to the following themes:

- 1 Knowledge and valorization of the environment
- 2 Current and future land use
- 3 Mitigative measures and environmental monitoring La Grande experience
- 4 Diet
- 5 Health
- 6 Opening of the territory, transportation infrastructures and collector system

Some of the themes are divided into sub-themes which are listed under the section heading.

# Organization

Each theme or sub-theme consists of two elements: the subject (the paragraphs of the Guidelines) and information and questions.

#### **Subject (paragraphs of the Guidelines)**

The relevant paragraphs of the Guidelines have been transcribed in full to provide a context for the information gathering or the consultation process, the specific subject of which being the parts of the paragraphs that are **underlined and in bold**.

For example, on page 1 - 1, the part of paragraph 305 that is underlined and in bold reads as follows: "The Proponent must <u>define the valued ecosystem components recognized by each of the cultural groups concerned, as well as those components that they consider to be threatened by or vulnerable to the effects of the proposed project."</u>

Umiujaq 1

#### **Information and Questions**

The "information" part of the second element summarizes the nature of the available data used in preparing Hydro-Québec's impact study.

The "Question(s)" part can take various forms:

• Provide or complete a valorization. For example, on page 1 - 2, respondents are asked to determine the order of importance of the vegetation components (Table 1-A) and on page 1 - 3, to complete a list of components (Table 1-B), if applicable

• Answer a question.

For example, on page 1 - 9, respondents are asked to specify whether the existence of an ice cover on various waterways affects the conditions of movement of the communities concerned.

• Identify, correct or complete information on a geographical map (plate). For example, on page 2 - 3, respondents are asked to correct or complete the information on visits to the area.

# **Answering procedure**

The space provided to answer the questions may be insufficient. If this is the case, you can insert additional pages indicating which question(s) they refer to.

Furthermore, if you have documents that answer any of the questions asked, you can use them to replace or supplement your answers.

Hydro-Québec appreciates your participation in this consultation and remains at your disposal for any information to facilitate its achievement and ensure its success.

This document is available in French, Inuttitut and Cree

Umiujaq 2

# 1 Knowledge and Valorization of the Environment

- 1.1 Valorization of the Components of the Environment
- 1.2 Vulnerable, Rare or Threatened Species
- 1.3 Temporal and Geographic Boundaries
- 1.4 Exceptional Sites

# 1.1 Valorization of the Components of the Environment

# 1.1.1 Subject (paragraphs of the Guidelines)

**303**. The Proponent shall provide a detailed description of the components of the environment which would be affected by the proposed project, based on the experience and knowledge of each concerned group. This chapter presents a framework based on generally accepted and scientific methods, which will be used as a minimum for describing the environment. As mentioned above, the Proponent shall ensure that this description is adequate in relation to Chapter 5.

305. In order to properly organize and target the description, the Proponent must <u>define the valued ecosystem components recognized by each of the cultural groups concerned, as well as those components that they consider to be threatened by or vulnerable to the effects of the proposed project.</u>

#### 1.1.2 Information and Questions

#### **Information**

Certain environmental components are more important than others from both a social and scientific point of view. So that the impact study can concentrate on the most significant environmental components, certain components have special value and receive special attention.

Hydro-Québec would like your comments on the selected components and on the criteria it uses to evaluate them. These components are vegetation, wildlife, and the ice regime. The criteria used are the potential wildlife habitats, plant communities of restricted distribution and the winter habitat.

# A. Vegetation

Table 1-A lists the valued vegetation components and valorization criteria used in Hydro-Québec's impact study.

Use the right-hand column ( $Your\ Value$ ) to indicate what importance you give each component: 1 = highly valued; 5 = not valued. If several components hold the same value for you, give them the same number.

Table 1-A - List of Vegetation Components Selected by Hydro-Québec

Components	Valorization Criteria	Your value
Aquatic and riparian vegetation	Potential habitat for fish, birds and land	
	animals	
Peat lands	Potential habitat for birds and for	
	caribou calving	
Coastal habitats	Potential habitat for birds	
Boreal poplar forests, white	Plant communities of restricted	
birch stands and aspen forests	distribution	
	Communities at the northern limit of their	
	distribution	
	Potential habitats for certain land mammals	
Willow forests on clay	Plant community of restricted	
	distribution	
Lichen-dominated spruce forests	Winter habitat of caribou	
and lichen ground cover		
Jack pine forest	Plant community of restricted	
	distribution	
	Plant community at the northern	
	limit of its distribution	

If you feel that the list of components is incomplete, or you wish to suggest other valorization criteria, fill out Table 1-B below. Assign a value to each component (1 to 5).

**Table 1-B - List of Additional Vegetation Components** 

Components	Valorization Criteria	Your Value

#### B. Wildlife

#### Information

The **valorization criteria selected** for the wildlife components in Hydro-Québec's impact study are the following:

- 1. Species harvested by Native people or reserved for their exclusive use in accordance with Appendix 2, Chapter 24 of the JBNQA;
  These species are all mustelids (mink, ermine, weasel, marten, fisher, otter, skunk and wolverine); beaver; lynx; fox; polar bear; muskrat; porcupine; woodchuck; black bear (on the Cree traplines North of the 50th parallel); wolf (North of the 50th parallel); freshwater seals; whitefish (non-anadromous); sturgeon; suckers; burbot; hiodons (mooneye and goldeye).
- 2. Species of interest for educational and recreational activities.
- 3. Species recognized as rare or vulnerable by the Committee on the Status on Endangered Wildlife in Canada and the Comité pour la sauvegarde des espèces menacées du Québec (COSEMEQ) or likely to be designated as threatened or vulnerable (MLCP 1992) by virtue of the "Loi sur les espèces menacées ou vulnérables" (Act respecting threatened or vulnerable species).
- 4. Species located at their distribution limit or having a restricted distribution in the study area.

These criteria are listed in Table 1-C on the following page.

Table 1-C lists the wildlife resources and the valorization criteria used by Hydro-Québec.

Use the right-hand column ( $Your\ Value$ ) to indicate what importance you give each component: 1 = highly valued; 5 = not valued. If several components hold the same value for you, give them the same number.

**Table 1-C - List of Wildlife Resources** 

Wildlife Resources	Valorization Criteria Used by Hydro-Québec				Your Value
	1 Harvesting or Native exclusive use	2 Recreation Education	3 Rare or Threatened	4 Restricted Distribution	
Marine Invertebrates					
Sea cucumber	X				
Snow crab	X				
Sea urchin	X				
Blue mussel	X				
Freshwater and Estuarine Fish					
Lake herring	X				
Lake whitefish	X				
Round whitefish	X				
Northern pike	X	X		X	
Burbot	X				
Long-nosed sucker	X				
White sucker	X				
Brook trout	X	X			
Arctic char	X	X		X	
Landlocked salmon	X	X		X	
Lake trout	X	X			
Fourhorn sculpin	X				

	1 1	2	3	4	
	Harvesting	Recreation	Rare or	Restricted	Your
	or Native	Education	Threatened	Distribution	Value
	exclusive	Laucation	Tineatenea	Distribution	varue
	use				
Marine Fish	ase				
Arctic sculpin	X				
Fourhorn sculpin	X				
Shortspine sculpin	X				
Greenland cod	X				
Marine Mammals	11				
Beluga	Х		X		
Bearded seal	X				
Ringed seal	X				
Common seal	X			X	
Freshwater seal	X		X	X	
Land Mammals and Fur-					
Bearing Animals					
Caribou	X	X			
Musk ox				x(*)	
Moose	X	X		X	
Black bear	X				
Wolf	X				
Arctic fox	X				
Red fox	X				
Canada lynx	X		X		
River otter	X				
American marten	X				
Ermine	X				
American mink	X				
Beaver	X			X	
Muskrat	X	X			
Snowshoe hare	X	X	X		
Arctic hare	X	X	X		
Porcupine	X	X			
Avifauna					
Common loon	X				
Red-throated loon	X				
Snow goose	X	X			
Osprey		X			
Canada goose	X	X			
Brent goose	X	X			
Teals	X	X			
American black duck	X	X			
Mallard	X	X			

^(*) Specie introduced by the MLCP between 1973 and 1983

	1	2	3	4	
	Harvesting	Recreation	Rare or	Restricted	Your
	or Native	Education	Threatened	Distribution	Value
	exclusive				
	use				
rthern pintail	X	X			
rthern shoveler	X	X			
dwall	X	X			
aups	X	X			
rlequin duck			X	X	
dsquaw duck	X	X			
lers	X	X			
oters	X	X		X	
ldeneye	X	X			
ddy duck	X	X			
ergansers	X	X			
ndpipers				X	
lls	X				
rns	X				
ack-legged kittiwake	X				
ick-billed murre	X				
ack guillemot	X				
ld eagle		X	X		
lden eagle		X	X		
regrine falcon		X	X		
cons	X				
vls	X				
real owl	X				
owy owl	X				
ruce grouse	X	X			
tail grouse	X	X			
llow ptarmigan	X	X			
	X	X			
	X				
llow ptarmigan ck ptarmigan ntings	X				

If you feel that the list of wildlife resources is incomplete, or you wish to suggest other valorization criteria, fill out Table 1-D below. Assign a value to each wildlife resource (1 to 5).

**Table 1-D - List of Additional Wildlife Resources** 

Wildlife Resources	Valorization Criteria	Your Value

# C. Ice Regime

Ice affects how Native people move about and use the land. It also affects how many species use the environment.

• In the case of your community, does the existence of an ice cover alter the conditions governing your movement in the territory?

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<b>Changes in Conditions of Movement</b>

Watercourses	Changes in Conditions of Movement
Coats River	
D D'	
Boutin River	
Bienville Lake	
Bienvine Luke	
• For your community, are the winter free	eze and spring thaw reference points for particular
events (e.g: holidays, celebrations or other	er activities)?
Yes No	
If so, name the events and when they occur	or (freeze or thaw).

# 1.2 Vulnerable, Rare or Threatened Species

### 1.2.1 Subject (paragraph of the Guidelines)

372. From the standpoint of ensuring the diversity of species in the study area, the Proponent shall discuss the preservation of vulnerable, rare or threatened species in the area concerned, as well as that of relevant plant communities and fragile ecosystems. This process will require input from various agencies, both provincial (ministère de l'Environnement du Québec [MENVIQ], ministère des Loisirs, de la Chasse et de la Pêche [MLCP]) and federal (Environment Canada), as well as from the Native communities. The Proponent shall consult with them concerning flora, plant communities, land and marine mammals, fish and birds. Current information shall then be discussed, and any inventories deemed necessary by government authorities in order to permit a decision on the proposed project shall be performed. The Proponent shall present the current and anticipated protection programs which are or will be in effect in this area.

### 1.2.2 Information and Questions

#### **♦** Information

The impact study deals with the following threatened species: the beluga, freshwater seal, Canada lynx, Harlequin duck, Bald eagle, Golden eagle and Peregrine falcon. These species were identified by the committees of experts on threatened species and the "Loi sur les espèces menacées et vulnérables" (Act of respecting threatened or vulnerable species). No plant species was identified as being vulnerable, rare or threatened

# ♦ Questions In your opinion, are there other wildlife species that you feel are vulnerable, rare or threatened? Yes _____ No ____ If so, which ones? Are there some plant species that you consider vulnerable, rare or threatened? Yes _____ No ____ If so, which ones? Are there some plant species that are of interest to your community (ex: medicinal plants)? Yes _____ No ____ If so, which ones? Name the uses for these plants.

# 1.3 Temporal and Geographic Boundaries

## **1.3.1** Subject (paragraphs of the Guidelines)

**308. Geographic boundaries**. The boundaries of the area which may be affected by the proposed project vary, depending on the nature of the phenomenon considered. For example, given the migration of certain aquatic, terrestrial, and avian species, the range of biological concern could extend beyond the limits of the watersheds directly affected by the project. Hunting, fishing, trapping, and harvesting along the coastline and inland also mean that certain impacts on the activities of the relevant populations could also extend beyond these boundaries, notably to the residents of the Belcher Islands. The same could be said of the many activities related to the transportation of goods and services and to the traffic of people traveling to or from the area. Thus, while a number of impacts will be concentrated within a relatively restrictive study area, others will involve larger areas. **The Proponent shall therefore specify and justify the study area for each component of the environmental description, taking into account the boundaries of each component and those recognized by each cultural group**, and selecting the larger area if various boundaries of a given area are not the same.

**309. Temporal boundaries**. In addition to the geographic dimension, the Proponent shall also **consider the temporal dimension**, including multi-annual cycles and seasonal variations for each component of the environment and shall determine the appropriate temporal boundaries for each.

310. In order to properly assess the impacts of the proposed project, the Proponent <u>must</u> identify historical trends. For each component, the Proponent shall determine how far in the past the study should begin and how far into the future it should be carried. In order to select these temporal boundaries, the Proponent shall <u>take into account the limits generally</u> recognized by each of the affected cultural groups. If these limits differ for a single component, the Proponent shall select the longer period.

## 1.3.2 Information and Questions

#### **♦** Information

Table 1-E gives the geographic and temporal boundaries of the various components of the continental and marine environments. The geographic boundary means the territory covered by the Hydro-Québec studies, whereas the temporal boundary indicates the date from which scientific inventories have been made by Hydro-Québec or others.

Table 1-E - Geographic and temporal boundaries of the various components of the region of the Grande Baleine complex

Environment	Component	Geographic Boundary	Temporal
			Boundarya
Continental	Primary producers Benthic and entomological fauna Ichtyofauna Vegetation Amphibians	GRB and PRB basins GRB and PRB basins Study area Study area Lakes Bienville, Elizabeth and Kakupis areas	1975 1975 1967 1950 1976
	Birds Waterfowl and loons	GRB, PRB and Nastapoka basins Nouveau-Québec (scoters only)	1975
	Harlequin ducks	GRB, PRB, Nastapoka, Eau Claire basins and La Grande complex	1975
	Shore birds	Lakes Elizabeth, Kakupis, Bienville, confluence of GRB and Coats	1976
	Birds of prey Land birds	Study area GRB, PRB basins and La Grande complex	1969 1975
	Mammals  Large land mammals  Caribou	Nouveau-Québec	1954
	Calving	GRB basin, lakes des Loups- Marin, Mollet, Lenormand, Saindon, Amichinatwayach and Guillaume-Delisle areas	1977
	Lichen biomass Grazing and trampling of lichen	Study area (west of 74° west)	1987 1990
	Grazing and trampling of lichen	Study area (east of 74° west) and La Grande complex	1990

 $\label{thm:components} \textbf{Table 1-E-Geographic and temporal boundaries of the various components of the region of the Grande Baleine complex (continued)}$ 

Environment	Component	Geographic	Temporal
	_	Boundary	Boundary ^a
Continental	Musk-Ox	Study Area	1985 (1st
			observation)
	Moose	GRB basin	1971
	Fur-bearing animals		
	and small mammals		
	Canada lynx	Study area	1975
	Snowshoe hare	Study area	1975
	Beaver	GRB, PRB and	1978
		Nastapoka basin	
	Other rodents	Region of confluence	1976
		of GRB and Coats	
	_ ,	River	
	Freshwater seal	Study area and	1978
		periphery	
Marine	Primary and	Hudson Bay	1975
	secondary production		1001
	Coastal vegetation	Pointe Louis XIV to	1981
	T. 1	Nastapoka River	1076
	Ichtyofauna	Manitounuk Sound,	1976
		large estuaries	
		Small estuaries of	
	A: 6	Hudson Bay	1075
	Avifauna	Pointe Louis XIV to	1975
	Marin a manna ala	Nastapoka River	
	Marine mammals	Hudson Day and	4 = b
	Beluga	Hudson Bay and	1752 ^b
		Strait, James Bay	

a: Studies in which the inventories were taken using recognized scientific techniques
b: According to the Hudson Bay Company capture registers

Notes: • The project study area is illustrated by the boundary of the watersheds shown in Plate 2
• GRB: Grande rivière de la Baleine
• PRB: Petite rivière de la Baleine

Components	Reasons	Geographic Boundaries
	ow the geographic boundaries that the components to which they w	
If the <b><u>geographic</u></b> boundaries <b>d</b>	o not:	
Geographic boundaries: Y Temporal boundaries: Yes	res No	
• Do the geographic and tempor	ral boundaries seem adequate to	you for each of the components
<b>♦</b> Questions		

Components	Reasons	Geographic Boundaries

## If the **temporal** boundaries **do not**:

To your knowledge, do data previous to the dates given in Table 1-E exist? Could you state in the table below the components, dates and their references?

Components	References	Dates	

# 1.4 Exceptional Sites

### 1.4.1 Subject (paragraphs of the Guidelines)

321. The Proponent shall provide an inventory of all sites particularly representative of the milieu or exhibiting unique physical or biological features in the region of the proposed project. The surficial geological map shall indicate the special sites or land forms that warrant protection because they are unique or remarkable, according to the residents of the region and others. The uniqueness of any sites which might be submerged or altered as a result of development shall be described. The stranded shorelines around Lac Fagnant and the terraces along the Great Whale River are examples of such features.

376. The Proponent shall describe the economy of each community. Notwithstanding the present activities and future opportunities for employment and for the production of goods and services by Natives for their specific needs, this profile shall deal specifically with the evolution since the 1950s of the hunting, fishing and gathering economy, as well as other traditional and commercial activities, taking into account the institutional structure introduced by the JBNQA. The Proponent shall draw a historic and current portrait of land use (1950-1975 and 1975-1990) in the area affected by the proposed project. Traditional and modern land use in the study area including Belcher Islands by Natives and non-Natives shall be clearly identified. Areas which are considered of particular interest to government bodies or other groups interested in the protection and development of the region (parks, reserves, conservation areas, sites or watercourses of interest for recreation or tourism, etc.) will be identified and justified with respect to the objectives of the Natives and non-Natives.

### 1.4.2 Information and Ouestions

#### **♦** Information

The areas of particular interest were selected based on the criteria identified in a report prepared in conjunction with Environment Canada and La Société de développement de la Baie James (*Sites intéressants du territoire de la Baie James*. Rapport E.T.B.J. #36, Octobre 1977). This report identifies 26 interesting sites, among which the following sites are considered exceptional in terms of their scenic or geomorphological attraction.

#### The exceptional sites are the following:

- the islands and peninsula in the Manitounuk Sound;
- the mouth of the Petite rivière de la Baleine;
- the waterfalls and terraces at kilometers 30 and 65 of the Grande rivière de la Baleine;
- the rapids, waterfalls and escarpments between kilometers 198 and 225 of the Grande rivière de la Baleine;
- the beaches and sandy shores of Kaychisakakamaw Lake and the Geoffroy River, immediately to the south;
- Kinglet Lake;
- the mountain and the scenic lookouts along the Petite rivière de la Baleine, northeast of the Saindon Lakes.
- the rocky escarpments along the Petite rivière de la Baleine northeast of the Saindon Lakes.

Among the areas classified as interesting are, among others, the mouth and certain other slow flowing sections of the Grande rivière de la Baleine, the Fagnant Lake outwash area, the Second River, the cuestas on Manitounuk Sound, the outwash and esker deposits in the middle of Bienville Lake and Roz Lake.

#### ♦ Area considered for siting of national park

The territory including Lac Guillaume-Delisle and Lac à l'Eau Claire has been identified as a potential location for the creation of a national park by the Environment Canada Parks Service.

#### **♦** Area considered for siting of provincial park

The Direction de l'aménagement of the ministère du Loisir, de la Chasse et de la Pêche has identified the Lake Burton and Roggan River area as a site for a proposed provincial park.

#### **♦** Areas considered for siting of ecological reserves

The Direction de la conservation et du patrimoine écologique of the ministère de l'Environnement du Québec has identified two areas for proposed ecological reserves: Lacs des Loups-Marins and the lower course of the Petite rivière de la Baleine. The exact boundaries of these projects are still provisional, whereas the status of the Lacs des Loups-Marins could be changed.

Both projects are at the preliminary stage. They have not been included in the Direction de la conservation et du patrimoine's short-term schedule for implementation of ecological reserves.

## ♦ Areas of diverse wildlife resources or special interest

The richest areas in terms of wildlife are Bienville Lake and its periphery, the lower course of the Grande rivière de la Baleine, Laguerne River, the Denys, Marest, Kinglet and Mureau lakes area, the Elizabeth, Kakupis and Fressel lakes area, and the lower course of the Coats River. This category also covers areas favorable to wildlife species with restricted distribution, such as the Petite rivière de la Baleine estuary, the islands, estuary and lower course of the Nastapoka River, as well as the Lacs des Loups-Marins area.

Please examine *Plate 3* now (Special interest areas) at the end of the section and then answer the questions on the following page.

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From your knowledge of the territory, do the sites and areas inventoried on Plate 3 clearly indicate the most representative sites and the areas of particular interest of the territory being studied?
Yes No
<b>If not</b> , indicate on Plate 3 the other sites or areas that you feel are most representative or are of particular interest. Briefly explain the reasons for your choice.

# **2 ♦ Current and Future Land Use**

- 2.1 Current Land Use
- 2.2 Modes of Transportation 2.3 Future Land Use

## 2.1 Current Land Use

## **2.1.1** Subject (paragraphs of the Guidelines)

376. The Proponent shall describe the economy of each community. Notwithstanding the present activities and future opportunities for employment and for the production of goods and services by Natives for their specific needs, this profile shall deal specifically with the evolution since the 1950s of the hunting, fishing, and gathering economy, as well as other traditional and commercial activities, taking into account the institutional structure introduced by the JBNQA. The Proponent shall draw a historic and current portrait of land use (1950-1975 and 1975-1990) in the area affected by the proposed project. Traditional and modern land use in the study area including Belcher Islands by Natives and non-Natives shall be clearly identified. Areas which are considered of particular interest to government bodies or other groups interested in the protection and development of the region (parks, reserves, conservation areas, sites or watercourses of interest for recreation or tourism, etc.) will be identified and justified with respect to the objectives of the Natives and non-Natives.

380. Special attention shall be paid to the use of land along Manitounuk Sound and the Great Whale, Little Whale and Nastapoka river estuaries in relation to the distribution of resources, and to their use by the inhabitants of Kuujjuarapik and Whapmagoostui and other populations. This review shall outline the current situation and future prospects, taking into account the social structures, spiritual values, harvesting levels, and the importance of traditional foods. The Proponent shall seek to learn about the possible solutions and alternatives under consideration by the Natives themselves, should access to the territory be substantially modified.

- **567.** The Proponent shall evaluate the effects of the proposed project on the cultures of the Cree, Inuit and, in certain cases, the Naskapis and the people of the rest of Quebec, as well as on the cultural identity of these groups, paying particular attention to the following elements:
- **567** (1). life-style, including dietary practices and consumption habits in general, methods of production and distribution of goods and services, artistic production, types of recreation, holidays and celebrations;
- **567 (2).** the Cree and Inuktitut languages and the teaching of other languages, particularly taking into account the increased presence of individuals who do not speak the Native Languages;
- **567** (3). the transmission of know-how and knowledge, given that the activities that encourage such teaching be modified;
- **567 (4).** spiritual ties any living creatures, and the spiritual dimension of the use of the territory in which they live (rites, ceremonies), including, in some cases, those of the Naskapi;
- **567** (5). burial sites and relations with ancestors (including for the Naskapi);
- **567 (6).** archeological heritage. In this regard, the Proponent shall ensure that archeological digs are carried out on the main development sites and areas proposed for the infrastructures (dams, dikes, reservoirs, roads, airports, etc.). The Proponent shall indicate the measures to be taken should archaeological remains be uncovered;
- **567** (7). sites and phenomena valued for historical, aesthetic, or other reasons (which the Proponent shall identify), such as portage trails, ancient meeting places, sites where specific events occurred, areas of interest rendered accessible by the project, the Native concept of the continual flow of rivers; and
- **567 (8).** the sense of identification and, more specifically, the notions of belonging related to the territory, language, and cultural values, as well as the sense of responsibility toward the ecosystems.

## 2.1.2 Information and Questions

Indicate whether the information shown on the plates placed at the end of this section accurately reflects the current land use **by your community in the project study area** with respect to the following aspects:

- Examine *Plate 4-I1* (Land occupation by Kuujjuarapik and Umiujaq Inuit); correct and, if necessary, complete the information on campsites and travel routes (see legend on the plate).
- Examine *Plates 6-I1 to 9-I1*; correct and, if necessary, complete the parts of **the study area where your community** harvests resources, indicating the resources that are harvested (see legend of plates).
- Spring harvesting by Kuujjuarapik and Umiujaq Inuit, 1990 (*Plate 6-II*).
- Summer harvesting by Kuujjuarapik and Umiujaq Inuit, 1990 (*Plate 7-II*).
- Fall harvesting by Kuujjuarapik and Umiujaq Inuit, 1990 (*Plate 8-II*).
- Winter harvesting by Kuujjuarapik and Umiujaq Inuit, 1990 (*Plate 9-I1*).
- Next, examine *Plate 10* (Burial sites known by Hydro-Québec); correct and, if necessary, complete the location of your community's burial sites.
- After you have examined and completed these plates, answer the following questions:

What are your community's different holidays and celebrations each year? Indicate whether they are family or community celebrations, what time of year they occur and where you celebratem.
What other cultural elements could be affected by the construction of the Grande Baleine Complex and how, in your opinion, would they be affected?

# 2.2 Modes of Transportation

### 2.2.1 Subject (paragraphs of the Guidelines)

520. In order to evaluate the free movement of all species inhabiting the territory, the Proponent shall inventory and map the land and water routes (including streams, rivers, lakes, estuaries, shorelines and Hudson Bay) and the aerial routes that are currently used, or could potentially be used, and which could be affected by the proposed Great Whale River hydroelectric complex. The seasons during which different movement patterns occur, and the reasons why, shall be particularly taken into consideration. With respect to wildlife, particular attention shall be paid to the movement of beluga populations and the corridors used by caribou. With respect to the human population, the Proponent shall also identify the methods of transportation employed (snowmobiles, canoes, various types of boats, ATVs [all-terrain vehicles], automobiles, trucks, helicopters, airplanes) and their costs. In addition, the Proponent shall describe the existing conditions governing the movement between the territory and neighbouring regions. The Proponent shall also consider the opinions of the inhabitants with regard to conditions of movement, as well as any fears they may express concerning the new conditions that would result from the proposed project.

## 2.2.2 Information and Questions

#### **♦** Information

Please refer to *Plate 4-I1*, placed at the end of this section, which shows your community's travel routes. Indicate the various methods of transportation used in the course of your movements, for each route and according to the season (snowmobiles, canoes, boats, all-terrain vehicles (ATVs), automobiles, trucks, helicopters, airplanes).

# **♦** Questions

• For each method of transportation, specify in the table below the existing traveling conditions according to the season.

Method of   Transportation	Season	Traveling Conditions (Easy = E) (Difficult = D)
Transportation Snowmobile		(Lusy - L) (Different - D)
Canoe		
All-terrain vehicle (ATV)		
Automobile		
rutomoone		
Truck		
Helicopter		
Aimlana		
Airplane		
Other		
• Comments		•
• Comments		
-		

## 2.3 Future Land Use

## 2.3.1 Subject (paragraphs of the Guidelines)

- **380.** Special attention shall be paid to the use of land along Manitounuk Sound and the Great Whale, Little Whale and Nastapoka river estuaries in relation to the distribution of resources, and to their use by the inhabitants of Kuujjuarapik and Whapmagoostui and other populations. This review shall outline the current situation and **future prospects**, taking into account the social structures, spiritual values, harvesting levels, and the importance of traditional foods. The Proponent shall seek to learn about the possible solutions and alternatives under consideration by the Natives themselves, should access to the territory be substantially modified.
- **384.** The Proponent shall pay particular attention to social organization and symbol systems. These include such aspects as relationship to the land, social cohesion and dynamics (as opposed to the breakdown of the social organization), ties to other Native and non-Native communities, social identity, self-esteem, systems for explaining and accepting changes, **common visions of the future**, etc.
- **385.** The Proponent shall analyze perceptions of the proposed project in the communities, in relation to their own **visions of the future.**
- 530. In addition, the Proponent shall estimate the future use of other resources in the territory (water, minerals, appeal of nature in general), by local communities and by the inhabitants of other regions for cultural purposes and for recreation, tourism, energy production and other purposes. The Proponent shall also consider the economic contribution of these resources, that is, the creation of revenues and especially of jobs (in outfitting, tourism, mining operations, etc.).
- 552. The Proponent shall discuss in what way the proposed project is compatible with Native or non-Native plans for future development of the territory. For example, the Proponent shall examine the effects that would result from economic stimulation in the region (investment, employment structure, income, etc.). The Proponent shall in particular consider the future use of new products, the introduction of new technologies to process raw materials already in use, and the development of new markets. In short, the Proponent shall study the effects of the proposed project (including the construction of roads and airports) on regional development (outfitting, mines, etc.). The Proponent shall also examine the consequences of the proposed project on the availability of government services, the quality of air transport services, and the cost and availability of consumer products (the absence of competition shall be emphasized, when appropriate).

# 2.3.2 Information and Questions

# . Questions

• How do you see your society evolving in the future from economic, social and cultural aspects (aspirations, shared visions of the future, your own visions of the future)?
You can enclose any background or policy document that may clarify or complete your answer.
• Now please refer to <i>Plate 3</i> (see end of this section) which illustrates some of the development projects planned in the territory. To your knowledge, are there any other recreation and tourism (e.g: outfitters), mining or other development projects that can be added to this plate?
Yes No
<b>If so</b> , indicate their location on the plate and provide the following information: name of the organization responsible, description and scope of the project(s) and the expected year of implementation.

# **3♦** Mitigative Measures and Environmental Monitoring — La Grande Experience

3.1 Mitigative Measures3.2 Environmental Monitoring

# 3.1 Mitigative Measures

### 3.1.1 Subject (paragraphs of the Guidelines)

603. A detailed description of the Proponent's policy concerning mitigation and compensation shall be presented, including its rationale and an analysis of <u>mitigation</u> and compensatory measures <u>undertaken with respect to the La Grande projects</u>. In particular, if funds have been set aside (whether as capital or as operating costs) for mitigation and compensation, the Proponent shall distinguish between funds which were destined for mitigation and for compensation, and shall explain how these figures were arrived at. The Proponent shall evaluate the effectiveness and efficiency of the mitigative and compensatory measures for the La Grande projects and shall report on the level of satisfaction of the affected populations with regard to those measures. The Proponent shall also refer to other projects in northern environments (Churchill, Churchill-Nelson, etc.), as well as to relevant literature available, in order to demonstrate that the mitigative and compensatory measures proposed reflect the state of the art in the field.

**605.** In keeping with the requirements outlined in paragraph 128, the Proponent shall consult with the Native populations and ascertain their <u>needs with regard to developing mitigative</u> and compensatory <u>measures</u> for the proposed project. A concrete mitigation and compensation program should reflect these consultations.

**608.** The Proponent shall also report on the experience concerning the organization of remedial work activities and propose an institutional framework appropriate to the proposed project. The proposed institutional framework shall take into account the central role of Native peoples who will be affected by the proposed project.

## 3.1.2 Information and Questions

#### **♦** Information

In a territory that had experienced little development, construction of the La Grande Rivière hydroelectric complex was of a nature to bring about physical and biological changes in the environment, just as it could affect the lifestyle of the Native population. A series of remedial work activities therefore needed to be considered to reduce or limit the impacts of the project.

Thus, from the outset, the James Bay and Northern Quebec Agreement provided for the introduction of a series of mitigative measures in favor of the local populations: a land regime was in fact instituted, as well as a hunting, fishing and trapping regime subject to the principle of wildlife conservation.

Moreover, many species of mammals, fish and birds were reserved for the exclusive use of Natives. In addition, the Agreement made it possible to guarantee levels of harvesting for food purposes, in case of negative fluctuations in the animal population.

Finally, various programs were chosen for the different Cree and Inuit communities: an *income* security program that provides an annual income to Crees who pursue the traditional lifestyle on a regular basis; an *Inuit assistance program* that is aimed at guaranteeing the supply of goods and facilitates the practice of traditional activities; and a *hunting*, *fishing and trapping assistance* program designed to provide an income, benefits and other incentive measures for the Naskapis of Québec who wish to practice traditional activities. With regard to the Naskapi community, the Northeastern Québec Agreement provides for the same programs as for the Cree and Inuit communities.

In addition, to **facilitate access to the territory by the Natives**, improve the navigation conditions on the reservoirs or in the diversion areas, and provide for better exploitation of the resources, several complimentary measures were adopted. Namely:

- access ramps to the reservoirs and roads to the access ramps. Generally located in areas that can be accessed from the main road system and providing access to navigable portions of the reservoir along major transportation axes;
- landing areas for hydroplanes in order to serve remote portions of the reservoirs that are inaccessible by road but which are of interest to the local population for hunting, fishing and trapping;
- **navigation corridors** along the James Bay coastline to ensure the safe movement of craft used in the pursuit of traditional activities;
- cleared **multipurpose areas** near the main hydroelectric structures that are most easily accessed by road;
- **net fishing sites** in areas favorable to the concentration of certain fish species and where, consequently, the trees have been cut, and the water surface cleared of cut debris and other materials that could damage fishing equipment;
- **goose-hunting ponds** to encourage waterfowl to stop over during migration periods and to raise broods:
- snowmobile trails;
- the construction of **base camps and cabins** to improve living conditions during the practice of traditional activities:
- **barges** for the transportation of goods.

A series of remedial works were also selected to **improve the biological productivity of certain habitats**, such as:

- **clearing the mouth of tributaries** to facilitate access of the fish in the reservoirs to the tributaries most suited to spawning;
- **the creation of spawning grounds on banks** by improving the physical features of portions of the reservoir banks that may be suitable for spawning;
- the **reconstitution of riparian habitats** by introducing shrubs sought by small game on certain sections bordering on or near the reservoirs;
- **renewal cuts** along the reservoirs to stimulate maximum growth of stump shoots on which moose and small game can feed because they are now accessible;
- **protective dikes** in diversion areas to maintain the biological quality of the most productive environments and counter the major erosion phenomena that can detract from the biophysical quality of the milieu:
- **construction of weirs** in reduced-flow rivers to restore a body of water to its pre-cutoff area and volume, halt erosion and improve navigation;
- sowing seeds and planting young shrubs on exposed banks of reduced-flow rivers to halt erosion caused by surface runoff and encourage the establishment of wildlife resources that are of particular interest to the local population with regard to hunting and trapping;
- **planting over borrow pits** to restore the environment.

Finally, a certain number of measures were aimed at **enhancing the environment** and new hydroelectric developments.

- This is the case of **archaeological digs** which were carried out, following systematic inventories and studies of the area potential, in the areas likely to be affected by the construction of the hydroelectric developments.
- Similarly, **landscaping** was done along the tourist routes offering, among other things, **scenic lookouts** built at strategic points, as well as a series of environmental **information** and road sign panels.

These activities, for the most part, were performed as part of a set of structures put in place by the various agreements signed with the Native communities after the JBNQA:

- 1. Comité des experts de l'environnement [Environmental Experts Committee] (JBNQA 1975)
- 2. La Société des travaux de correction du Complexe La Grande SOTRAC [The La Grande Complex Remedial Works Corporation] (JBNQA 1975)
- 3. Le Groupe d'étude conjoint Caniapiscau-Koksoak GECCK [The Caniapiscau-Koksoak Joint Study Group CKJSG] (JBNQA 1975)
- 4. Le Comité conjoint Chasse, pêche et trappage [Hunting, Fishing and Trapping Coordinating Committee] (JBNQA 1975)
- 5. La Société Eeyou [The Eeyou Corporation] (La Grande (1986) Agreement)
- 6. Le Comité Mercure [The Mercury Committee] (Mercury Agreement 1986)
- 7. Kuujjuamiut inc. (Kuujjuaq Agreement)
- 8. Comités de liaison (liaison committees)

The role of the Société des travaux de correction du complexe La Grande (SOTRAC), defined by the James Bay and Northern Quebec Agreement, was especially important in correcting or mitigating the repercussions on the traditional activities of the Crees, as construction of the hydroelectric complex progressed. Some of the work became linked with the preservation of wildlife in the affected areas and with the improvement of wildlife habitats in unaffected areas (such as the inventory of beaver lodges and their intensive trapping in the reservoirs, the construction of breeding farms, or the remote sensing studies with caribou and beaver). The object of other work was mainly to improve access to the territory (such as the creation of snowmobile trails) and wildlife harvesting conditions. Moreover, SOTRAC favored an open participation structure, with a board of directors made up of an equal number of voting members from the SEBJ and the Cree community.

The Mercury Committee also played a central role in supervising the implementation of the mercury program, determining which studies and research projects to carry out under this program, informing the Native communities on a regular basis, and ensuring that a medical follow-up was performed by the regional health boards. The committee itself was managed by four-part Cree/Government/Hydro-Québec/SEBJ representation.

Finally, liaison committees were set up by the SEBJ for each of the La Grande phase II construction projects, with a mandate to: develop the mechanisms for controlling access to these sites, recommend safety measures, inform the Native communities of employment opportunities and contracts arising from the construction in process, and handle other matters of common interest that may be entrusted them. At LG-1, for example, the liaison committee was made up of eight people, among whom three representatives of the Chisasibi Band Council, three representatives of the SEBJ, and two SDBJ representatives.

Table 3 below summarizes some of the mitigative measures introduced following construction of the La Grande complex.

**Table 3 – Summary of Some Mitigative Measures** 

CATEGORIES	OBJECTIVES	MEANS	PERFORMANCE RESULTS
• SEEDING AND PLANTING	<ul> <li>Restore sites affected by the construction work</li> <li>Improve visual aspect</li> <li>Control erosion and stabilize exposed banks</li> </ul>	<ul> <li>Seeding, by airplane, of herbaceous species mixed with fertilizers</li> <li>Planting small shrubs individually</li> <li>Herbaceous species only, shrubs only or seeding and planting</li> </ul>	• Excellent results with restoring sites affected by the construction work • Effective in countering erosion from runoff and wind erosion of newly exposed banks
	<ul> <li>Accelerate buffer zone reconstitution process</li> <li>Make area attractive to wildlife</li> </ul>		• These measures do not accelerate the natural evolution process; they delay it in some cases • Rehabilitated areas rarely used by waterfowl
CLEARING	<ul> <li>Improve visual quality in the vicinity of the construction work</li> <li>Mandatory clearing work required for hydraulic purposes</li> <li>Improve access to bodies of water</li> <li>Facilitate fishing</li> </ul>	<ul> <li>Large-scale clearing using machinery</li> <li>Selective manual clearing</li> </ul>	<ul> <li>Good results in the vicinity of the construction work</li> <li>In order to improve access and facilitate fishing, the areas to clear must be carefully selected</li> </ul>
	Encourage regeneration of shrubs     Clear areas around reservoir to encourage growth of new shrub species     Maintain access of fish to spawning sites at the mouths of tributaries flowing into the reservoir	<ul> <li>Small-scale clearing in carefully selected areas, depending on features of reservoir banks</li> <li>Small-scale clearing at mouths of tributaries with high potential for use</li> </ul>	<ul> <li>Accelerates recolonization by shrub species</li> <li>Promotes the spread of herbaceous plants from open areas</li> <li>Doomed to failure if clearing is below maximum elevation of the reservoirs</li> <li>Clearing the mouths of the tributaries has made access easier for walleye</li> </ul>

RECOVERY AND ELIMINATION OF WOOD DEBRIS	<ul> <li>Facilitate navigation and landing</li> <li>Protect manmade structures</li> </ul>	<ul> <li>Gathering and burning wood debris that has washed ashore in selected areas</li> <li>Gathering and burning floating wood debris</li> </ul>	<ul> <li>Effective in areas most used by local populations</li> <li>Cannot be applied to large areas</li> </ul>
	<ul> <li>Make bodies of water more attractive</li> <li>Improve access to tributaries</li> <li>Promote spawning of walleye and whitefish</li> <li>Allow growth of vegetation in riparian buffer zone</li> </ul>		Performance not verified     Frequent returns possible
HATCHERIES	• Maintain access to spawning sites and perenniality of the species	• Constructing fish-ladders	• Generally yields good results
	<ul> <li>Promote the reproduction of species valued by the Natives</li> <li>Facilitate access of fish in reservoirs to spawning sites</li> </ul>	<ul> <li>Creating spawning grounds by spreading gravel</li> <li>Repairing existing spawning grounds</li> <li>Manual clearing of the mouths of tributaries</li> </ul>	• Biological effectiveness confirmed
FISHERIES DEVELOPMENT	Promote use of new bodies of water     Promote local and regional economic developments	<ul> <li>Intensive fishing in semi-enclosed bays</li> <li>Seeding with indigenous species of fish</li> <li>Using every means to facilitate access (ramps, clearing, recovery of wood debris, etc.)</li> <li>Construction of weirs in rivers</li> </ul>	• Its effectiveness depends on the interest of users
WATERFOWL HABITATS	Promote harvesting of wildlife	<ul><li>Developing ponds (clearing)</li><li>Work on coastal wetlands (dikes)</li></ul>	• Seem to yield good results up to now (Recent measure)

WATERFOWL HABITATS (cont'd)	• Encourage species to flourish	<ul> <li>Artificial nesting grounds</li> <li>Seeding of herbaceous species</li> <li>Clearing of selected areas with restricted access to encourage the establishment of herbaceous plant communities</li> </ul>	• Untested means
FUR-BEARING ANIMALS	• Prevent losses during filling of reservoirs	Intensive trapping	• Seems to yield good results (difficult to measure)
SMALL ANIMALS	• Improve the quality of small animal habitats and promote their use in the short term	• Cuts to encourage secondary growth in valleys and areas adjacent to the reservoirs	• Renewal cuts have proven effective in the valleys
ACCESS TO THE TERRITORY	• Restore access to some of the territory lost due to construction	<ul><li>Construction of roads</li><li>Construction of bridges</li></ul>	• Restores and often improves access
	<ul> <li>Open up access to a vaster territory by means of roads</li> <li>Reduce cost of transporting people and goods</li> <li>Link isolated communities</li> </ul>	<ul> <li>Permanent roads</li> <li>Winter roads</li> <li>Snowmobile trails</li> <li>Maintenance of temporary roads built during construction phase</li> </ul>	
	Make navigation and landing safe     Shorten navigation time	<ul> <li>Construction of small hydroport complexes</li> <li>Construction of access ramps</li> <li>Navigation charts</li> <li>Construction of navigation channels</li> <li>Development of navigation corridors</li> </ul>	

IMPROVEMENT OF	<ul> <li>Lessen isolation</li> </ul>	<ul> <li>Radiocommunication</li> </ul>	
LIVING	<ul> <li>Increase safety</li> </ul>	stations	
CONDITIONS IN	• Reduce provisioning	<ul> <li>Construction of base</li> </ul>	
SECONDARY	costs	camps and hunting	
CAMPS		lodges	
		• Providing of material	
		and equipment to	
		facilitate traveling	

#### **Questions**

• The previous pages described the measures to facilitate access to the territory carried out for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

Measures to Facilitate Access to the Territory by the Natives	Need	Importance
•Access ramps to reservoirs		
•Roads leading to access ramps		
•Landing areas		
Navigation channels		
•Multipurpose areas		
•Net fishing sites		
•Goose-hunting ponds	-	
•Snowmobile trails	-	
Base camps and cabins	-	
•Barges		
•Other measures that would be important (which ones?)		

• The previous pages described the measures to improve the biological productivity of the habitats that have been taken for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

Measures to Improve the Biological Productivity of the Habitats	Needs	Importance
Clearing mouth of tributaries		
<ul> <li>Creation of spawning grounds on banks</li> </ul>		
• Restoration of riparian habitats		
• Renewal cuts		
Protective dikes		
Construction of weirs		
• Seeding		
• Planting of young shrubs on exposed banks		
• Planting in borrow pits		
• Other measures that would be important (which ones?)		
	+	
	+	
	+	
	+	

• The previous pages described the measures to enhance the environment and the new hydroelectric development projects carried out for the La Grande complex.

For each measure, could you indicate with a "yes" or "no" in the "Need" column whether this measure might meet your community's needs?

Also, please indicate, with a number in the "Importance" column, what priority you assign the measure. Give each measure a number between 1 and 5, with 1 being the most important measure and 5, the least important.

<b>Hydroelectric Developments</b>	Importance
Archaeological digs	 
• Landscaping	 
• Planting over borrow pits to restore the environment	 
• Other measures that would be important (which ones?)	
etc.)	
When should the mitigative measures be put in place?	
When should the mitigative measures be put in place?  During the construction of the complex	
When should the mitigative measures be put in place?  During the construction of the complex  After the construction of the complex	
When should the mitigative measures be put in place?  During the construction of the complex  After the construction of the complex	
When should the mitigative measures be put in place?  During the construction of the complex  After the construction of the complex	

# 3.2 Environmental Monitoring

### 3.2.1 Subject (paragraph of the Guidelines)

**703.** Actions contemplated for the operational phase of the proposed Great Whale project should be informed by and make reference to the experience gained through the La Grande project. The Proponent shall submit an assessment, along with comments from the Natives, of the environmental monitoring performed for the first phase of the La Grande complex, including an evaluation of how the results of this monitoring enhanced the understanding of the ecosystems, and how the information produced was linked to action with respect to specific remedial or compensatory measures, and specific project management decisions.

### 3.2.2 Information and Questions

#### **Information**

A vast environmental monitoring program was implemented at La Grande in order to assess and understand scientifically the nature and scope of the changes that occurred in the environment following the creation of the reservoirs of the complex and its related structures.

Essentially, the object of the monitoring was to analyze the physical, physico-chemical, and biological evolution of the aquatic environments created or modified by the La Grande complex, as well as that of the principal wildlife species and their habitat, including their use.

The principal elements of the biophysical environment that were studied are: water quality, the fish, mercury, the estuaries and eastern coast of James Bay, and land animals.

For the first three elements, namely water quality (including plankton and benthos), fish and mercury, 27 sampling stations were installed in the vicinity of the La Grande-2, Opinaca and Caniapiscau reservoirs.

The water quality, phytoplankton and zooplankton were sampled twice a month from 1977 to 1982, and once a month thereafter. The benthic organisms were sampled twice per summer from 1977 to 1982. The fish was always sampled once per month. The sampling frequency of the water quality and phytoplankton, during periods of ice cover, changed from four times per year from 1977 to 1982 to once per year thereafter. Mercury was and still is sampled from the flesh of fish harvested every two years.

Moreover, the fish harvested at the various sampling stations made it possible to track the density, growth and condition factors of the fish. All fish caught were in fact counted, as well as individually weighed and measured.

Studies were also carried out on the estuaries and eastern coast of James Bay to determine the consequences of the changes brought about in the estuary of La Grande Rivière, the flow of which was increased, and in the estuary of the Eastmain River, the flow of which was heavily reduced.

The studies were conducted before, during and after the construction of the La Grande project and dealt principally, in the physical domain, with the temperature, tide, freshwater plume, advance of the fresh-salt water interface, erosion, sedimentation and the ice regime, and with regard to the biological characteristics, with fish populations and waterfowl habitats. Studies of coastal waterfowl habitats were conducted jointly by the Société d'énergie de la baie James and the Canadian Wildlife Service.

Concurrently, certain wildlife species were systematically monitored. This was the case notably of the caribou, whose movements were studied by means of transmitters, including its principal feeding and calving areas, and waterfowl, whose preferred habitats and reproduction were also studied.

Finally, the development of the La Grande hydroelectric complex led to changes in the frequentation and use of the James Bay territory by the Native populations and the south. Studies were therefore conducted to monitor the tourism and recreation traffic on the roads, and the recreational harvesting of wildlife resources by non-Native workers and visitors.

Mercury was also monitored among the Cree population by the James Bay Conseil de la santé et des services sociaux, by specifically targeting certain risk groups, such as women of childbearing age and adults over 40 years of age.

#### **♦** Questions

• Given the La Grande monitoring experience, which elements of the biophysical environments would you specifically like to see studied in the case of the Grande Baleine hydroelectric development project ?
• Given the La Grande monitoring experience, which elements of the human environment would you specifically like to see studied in the case of the Grande Baleine hydroelectric development project?

**4 ♦ Diet** 

# 4.1 Subject (paragraphs of the Guidelines)

- **335. Fish populations.** The Proponent shall present a complete list of species encountered in the territory under study and shall indicate their preferred habitats, particularly their spawning areas. The Proponent shall provide an inventory of fish habitats in the area and shall indicate the geographic distribution of each species by season. The Proponent shall identify those factors which limit the distribution and population of those **species of interest for Native diets** and for sports fishing. The concentrations of contaminants in edible parts of fish shall be measured to provide baseline information.
- **350.** The Proponent shall present information on the geographic distribution, abundance, diet, preferred habitat, mortality factors, reproductive factors, known contaminant levels and **importance of marine invertebrates to Native diets.**
- **361. Rare species.** The Proponent shall then discuss <u>plant communities</u> of interest to the region: rare plants, exceptional, endangered or regionally significant populations, range extensions, special habitats, and areas used by Native peoples where <u>species of interest</u> (<u>for food</u>, medicine, etc.) are found. These populations are to be localized and described using the remote sensing studies of the last twenty years, where appropriate.
- **383.** The Proponent shall study the quality of life of the communities, paying particular attention to mortality and morbidity, suicide rates, and all matters related to conjugal and family violence. **The Proponent shall also describe the importance of traditional food sources and their availability in the diet of the communities in relation to food sources from the South.** Furthermore, on the basis of available data, the Proponent shall establish a portrait of local health, using the principal diseases that provide indices of public health (in particular, diabetes, neoplasm and infectious diseases). The Proponent shall indicate the period over which the study of health-related problems in the region will take place. Finally, on the basis of available data, the Proponent shall discuss the extent and significance of substance abuse.

# 4.2 Information and Questions

The available data on diet comes from extrapolating the results of the Comité sur la récolte autochtone [Native Harvest Committee] whose studies span the years 1976 to 1980, and from information gathered from the Inuit communities in the project study area in 1990.

#### 4.2.1 Local Food

#### **Information**

Proportion of Harvested Foods in the Diet

Harvested foods would seem to make up approximately 50% of the total diet of the Inuit. This finding is however tempered by the consumer's age group, which seems to play an important role in the proportion of the diet comprised by traditional food sources. Thus, among the elderly, this proportion could run to 75% at certain times of the year. By comparison, in the under-25 age group, it rarely exceeds 20 to 25% at any time.

#### **Questions**

• In your community, do harvested foods currently make up approximately 50% of the population's diet?
Yes, they make up approximately 50% of the diet %
• Do harvested foods make up approximately the same percentage of the diet for the <i>different</i> age groups?
Yes, the percentage is the same for each age group  No, the percentages are approximately the following:  Young people %  Middle-aged people %  Elderly people %
• Comments

### Species Consumed

### **♦** Information

cies or group of specie ijjuarapik):	s consumed would break dow	n as follows (based on
23% 20%	<ul><li>waterfowl and birds:17%</li><li>fish:</li></ul>	40%
nption per species or g	group of species in your comm	unity match the above
s similar ther is the following:	Caribou	_ % _ % _ % _ %
otion breakdown by se	eason?	
% 	%     %	2
	ajjuarapik):  23% 20%  Apption per species or general similar ther is the following:  SPRING SU %	• waterfowl and birds:17% • fish:  nption per species or group of species in your common similar ther is the following: Marine mammals Caribou Waterfowl and birds Fish  otion breakdown by season?  SPRING SUMMER FALL WINTER % % % %

Umiujaq 4 - 3

Name of plant species_____

### Sources of Supply

### **Information**

There are apparently four different sources of supply for harvested food products:

- harvesting (by far the most important); the municipal freezer (managed by the Programme d'aide aux Inuit (Inuit Assistance Program) for their hunting, fishing and trapping activities);
  • donations (through individual, family and intercommunity exchange networks);
- trade (through the local cooperative).

### Question

• In what proportion do these sour products in your community?	ces of supply contribute to the consumption	n of harvested
Harvesting Municipal freezer Donations/exchanges Trade (local cooperative) Other sources	% % % %	
If applicable, can you identify the	ese other sources of supply and provide a p	ercentage for each?
Comments		

Umiujaq 4 - 4

### Marine Invertebrates

#### **Information**

Marine invertebrates seem to play a major role in the diet; not necessarily from a quantitative standpoint but, first and foremost, from a social standpoint.

In fact, gathering mussels and sea urchins along the Hudson Bay coast might often give rise to some of the most highly valued group activities among members of the Inuit communities in the study area (Kuujjuarapik, Umiujaq and Inukjuak).

Moreover, marine invertebrates would be one of the principal elements of trade between the Sanikiluaq Inuit community and some members of the coastal Inuit communities.

There appears to be a variation in the consumption of these products between the different age groups.

### Question

•	
• In your community, how	important are marine invertebrates to your diet?
Very important Moderately important Not very important	
• When are they available?	In the spring In the summer In the fall In the winter
• Which marine invertebrat	
Name of preferred species	
There are no preferred speci	es
• In your community, who	eats these products?
The entire population Mainly young people Mainly middle-aged peop Mainly the elderly	le
	ese products consumed? al availability of the products onies (anniversaries, marriages, etc.)
• Are these products traded	or donated?
Between families Between friends Between villages	NO
	<del></del>

### **4.2.2** Imported goods (Foodstuffs)

#### Information

The following informations come from a survey on diet conducted in Kuujjuarapik in the spring of 1991. The general finding seems to be the following: the local diet is apparently, in every case and in every individual, the result of a close complementarity between two types dietary styles: harvested foods and imports.

Like the food obtained from hunting, fishing and gathering, the consumption of imported foodstuffs (from the Northern Store, the local cooperative, the convenience store or catalogue orders) seems to vary a good deal, according to the age group being considered. Thus, the elderly consume much fewer store-bought goods than the younger generations do. Significant differences in the type of products consumed by either group have also been noted.

The goods bought most frequently are: flour, fat, sugar, tea, beef, chicken, pork, poultry, fish. Frozen and precooked products are apparently also very popular among all age categories. However, the frequency and diversity of purchases seem to vary according to the time of year.

Questions	
• At what time of the year are imported go	ods purchased by the population in your community?
Mainly in the spring Mainly in the summer Mainly in the fall Mainly in the winter Pretty well equally throughout the year	
• At what time of the year are imported go	ods available in your community?
Mainly in the spring Mainly in the summer Mainly in the fall Mainly in the winter Pretty well equally throughout the year	
• On average, how often are imported good	ds purchased?
About once per week Several times per month Once per month Less than once per month	
• What goods are purchased most often?	
Staples (flour, fat, sugar, tea) Meat (beef, chicken, pork) Fish Beverages Other products (which ones?)	

Umiujaq 4 - 6

• In general, would the population in your community like to consume more imported good than you do now?
Yes No
If so, what are the factors that prevent you from consuming more?
Availability Price Taste Nutritional value
• Which groups in your community consume imported goods most often?
The entire population  Mainly young people  Mainly middle-aged people  Mainly the elderly



### 5.1 Subject (paragraphs of the Guidelines)

**507**. The study shall evaluate current and future states of ecosystem health and, in particular: ...

**507(4)**. for the human populations, the current state of individual, collective, physiological and psychological health, paying particular attention to diseases that serve as indicators of changes in health; and shall attempt to identify the causes. The evaluation shall take into account **conceptions on the part of the affected populations with regard to their current health** and to the impacts the proposed project would have on their health. It shall also take into account the **local health services** (both care and prevention) and, specifically, community resources.

**610.** The Proponent shall identify the groups that would be most affected by the proposed project and shall **consult with members of those communities** to determine ways to reduce or eliminate any impacts on health and personal and community well-being.

### 5.2 Information and Questions

#### **♦** Information

Currently available information on the causes of morbidity shows that diseases of the respiratory system, and of the ear, as well as trauma and poisoning are the principal health problems. The data indicates the presence of diseases of the circulatory system, heavy smoking, numerous cases of obesity and poor dental health and a significant volume of sexually transmitted diseases.

In the opinion of the Rochon Commission, which evaluated the social/health services and conditions throughout Québec in 1988, the social/health status of the Inuit of Nouveau-Québec is still very poor. On the other hand, experts agree that there have been major improvements at every level. From a historical point of view, the progress has been notable: there has been a substantial drop in infant mortality; in half a century, human life expectancy has increased from 26 years to 61 years; infectious and parasitic diseases, like impetigo and tuberculosis, have greatly diminished.

However, the difference between the life expectancy of the Inuit and that of Quebecers as a whole is still very large. Although there is less tuberculosis, the incidence is still thirty times higher in Nunavik than elsewhere in the province. Since the early 1960s, diseases of the circulatory system and tumours have been regularly diagnosed.

### Questions

Indicate on the table below how the population's health problems have changed in the past ten years and, in your opinion, the principal reason for this change?

Health Problems	Change Over the Past Ten	Principal Reason
	Years	
	(Positive = P)	
	(Negative = N)	
Discoses of the magninetomy	(No change = NC)	
Diseases of the respiratory		
system		
Diseases of the ear		
Poisoning		
_		
Diseases of the circulatory		
system		
Smoking-related problems		
Obesity		
- 1 11		
Dental problems		
G 11 / '// 1 1'		
Sexually transmitted diseases		
Other problems (wich ones?)		
Other problems (with ones?)		

For each problem on the table below, indicate whether the population uses the health services more now than it did ten years ago and, in your opinion, the principal reason for this change?

Health Problems	Use of Health Services (More = M)	Principal Reason
	(Less = L) (No change = N)	
Diseases of the respiratory system		
Diseases of the ear		
Poisoning		
Diseases of the circulatory system		
Smoking-related problems		
Obesity		
Dental problems		
Sexually transmitted diseases		
Other problems (wich ones?)		

# **♦** Questions to Health Agencies (CRSSS Kativik, physicians, nurses, community workers). Are the current health services adequate to meet the needs of the population? Yes No • Would you say that this situation has been the same for the past ten years? Yes No • Do you feel that health services will adequately meet the needs of the population over the next few years? Yes No If not what types of services or resources should be put in place to adequately meet the needs of the population? **♦** Comments

• Do the different age groups use the health services in about the same proportions?
Yes No, young people use them more No, middle-aged people use them more No, the elderly use them more  No, the elderly use them more
• Has this been the case for the last ten years or is it recent?
The case for the past ten years Recent
<b>♦</b> Comments
<ul> <li>Are health services used mainly for treatment purposes or for prevention?</li> <li>Mainly for treatment</li></ul>

## **6** ♦ Opening up of the Territory, Transportation **Infrastructure and Collector System**

- 6.1 Legal Status of New Access Infrastructures6.2 Opening of the Territory6.3 Airport6.4 Collector System

### **6.1** Legal Status of New Access Infrastructures

### **6.1.1** Subject (paragraphs of the Guidelines)

**436.** The Proponent shall describe the <u>legal status of new access infrastructures</u> during the construction of the proposed Great Whale Rive hydroelectric complex. The following, in particular, should be discussed: shall access roads be public or private and on what basis will this decision be taken? The Proponent shall assess the rationale for establishing a control system similar to that put in place by the Société d'Énergie de la Baie James during the first phase of construction at James Bay; who shall provide maintenance and information services for access roads, including the installation of rest areas, waste collection, snow removal, etc.?; who shall be responsible for road safety? The Proponent shall describe in the impact statement any agreement reached with other parties regarding the status and maintenance of access roads, and report on consultations held on the subject.

### **6.1.2** Information and Questions

#### **♦** Information

Hydro-Québec proposes to control access to LG-2 — GB-1 road during the construction of the Grande Baleine complex, as was the case for the La Grande complex. To this end, a control station would be set up at the entrance to LG-2--GB-1 road (near LG-2). Access of non-residents to the road would generally be restricted to the personnel assigned to the construction work.

Natives could use the road or road sections as soon as they are commissioned. Once the facilities of the Grande Baleine complex are commissioned, this policy could continue to apply until an agreement is reached between the organizations responsible for managing the territory regarding the status of the road and its use.

(See *Plate 1-R* at the end of this section for the route for the LG-2 – GB-1 road)

### Questions

<ul> <li>Do you agree with Hydro-Québec's proposal during construction?</li> </ul>
Yes No
If not, what do you suggest?
What do you suggest after the facilities of the Grande Baleine complex have been commissioned?

### **6.2** Access to the Territory

### **6.2.1** Subject (paragraphs of the Guidelines)

**528.** Finally, the Proponent shall evaluate how the construction of access routes to the installations would contribute to the **opening of the territory as a whole** through the creation of transportation links with the rest of the continent. The proponent shall also indicate the extent to which **needs for access** (both northward and southward) would be met and to which **needs for isolation** would be compromised (potential users, frequency, seasons, methods of transportation, reasons for use, changes in travel costs between the host region and the rest of the country), for each affected population. Again, collaboration with the communities of Kuujjuarapik and Whapmagoostui and analysis of other instances where territories were opened (including Chisasibi) are recommended. The Proponent shall be particularly attentive to the sense of identification with the territory on the part of both local populations and those of other regions.

**562.** Each major component of the access infrastructures shall be examined (north-south and east-west roads, airports, etc.); the access routes shall also be evaluated as a whole, since their effects are likely to be cumulative. In the same way, the study shall include an analysis of the positive and negative effects that would result from a road connection between Kuujjuarapik/Whapmagoostui and the sites of any other development activity in the territory. In preparing this section, the Proponent shall work closely with the communities of Kuujjuarapik, Whapmagoostui and Chisasibi, and shall indicate the experience acquired following the opening of other communities in northern Quebec, on the Lower North Shore or elsewhere in Canada. The Proponent shall also collaborate with the relevant organizations and governmental departments.

### **6.2.2** Information and Questions

### **♦** Information

The development of the Grande-Baleine complex will require construction of road infrastructures along two principal axes:

- north-south axis, 240-kilometers long, connecting LG-2 to GB-1;
- east-west axis, 295-kilometers long, connecting Lac Fagnant to Lac Bienville;

The development of the Grande Baleine complex will not require the construction of a road between GB-1 and the village of Kuujjuarapik/Whapmagoostui if the site selected for the airport is near GB-1. For its own needs, Hydro-Québec could choose an airport site near GB-1. Hydro-Québec is ready to consider other options that would meet both its needs and those of the communities. In this case, a road should be built between the GB-1 site and the village of Kuujjuarapik/Whapmagoostui.

### Questions

Would your community like the village of Kuujjuarapik/Whapmagoostui to be accessible by road and thus linked to the road to Radisson and the South?
Yes No
• Please indicate below the social, cultural, economic and environmental advantages and disadvantages on which your answer is based.
Social
Cultural
Economic
Environmental

### 6.3 Airport

### **6.3.1** Subject (paragraph of the Guidelines)

**452**. The evaluation of the choice of an airport serving GB1 and

Kuujjuarapik/Whapmagoostui has been described in paragraph 428. This evaluation <u>shall be based on consultations with the parties involved</u>, and the results of these consultations shall be presented as an integral part of the impact statement. Concerns regarding the safety of the existing runway at Kuujjuarapik/Whapmagoostui shall also be addressed. Planning for these structures will extend over a period of at least 25 years.

### **6.3.2** Information and Questions

#### **♦** Information

Hydro-Québec needs an airport for the construction and operation of the Grande Baleine 1 generating station. Hydro-Québec has analyzed various scenarios that could meet either its needs alone or its needs and those of the communities at the same time. Hydro-Québec would like your opinions and comments on the following scenarios:

#### • Scenario 1

GB-1-A site for Hydro-Québec's needs;

Existing Kuujjuarapik airport for the needs of the communities.

#### • Scenario 2

Refurbishing of the Kuujjuarapik airport for the joint needs of both Hydro-Québec and the communities

#### • Scenario 3

Site H — new airport — for the joint needs of both Hydro-Québec and the communities

#### • Scenario 4

Site D1 — new airport — for the joint needs of both Hydro-Québec and the communities

(See *plate 1-S* at the end of this section)

Table 6-1 below compares the characteristics of the sites being studied.

**Table 6-1. Characteristics of the sites** 

Site	Runway Length	Weather Conditions	Land Category	Cost (\$M)	Distance from Kuujjua- rapik (km)	Use	Operating Conditions
GB-1A	1.5 km	Similar to Kuujjuarapik	Cat.3 Cat.2 joint	18.2	40	Hydro- Québec's needs alone	Uninhabited area. Kuujjuarapik Airport maintained for communities.
D-1	1.5 km	Slightly better	Cat.1 Inuit	27.5	10	Joint needs	Uninhabited area. Access less convenient for population.
Н	1.5 km	Not as good	Cat.1 Inuit	26.3	6	Joint needs	Uninhabited area. Access less convenient for population.
Refurbishing of Kuujjuarapik Airport	1.5 km	-	Cat.3	19.4 22.1 ⁽¹⁾	-	Joint needs	Inhabited area. Easy for population to access.

⁽¹⁾ Paved runway

### Questions

• From the viewpoint of the community, what is the order of preference of the above scenarios
First choice
Second choice
Third choice  Fourth choice
Fourth choice
• First choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?
<del>-</del>

• Second choice
n your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

Third choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?

Fourth choice
In your opinion, what are the advantages of this scenario?
What are the disadvantages?
In your opinion, what means could be implemented to minimize the disadvantages?
<del></del>

### **6.4** Collector System

### **6.4.1** Subject (paragraph of the Guidelines)

**459.** In theory, the collector system should require as many corridors as there are lines; in practice, one corridor can sometimes accommodate two lines and even a road. The Proponent shall plan to combine the two lines linking the GB1 generating station to the Radisson station. The Proponent shall also indicate how it optimized the choice of distribution corridors and on what basis this optimization was based, describing any possibility of combining both roads and distribution corridors. Lastly, the Proponent shall explain how <u>land use</u> by native peoples was considered in preparing routes for the lines, referring in particular to the JBNQA and to <u>consultations with concerned parties.</u>

### **6.4.2** Information and Questions

#### **♦** Information

Hydro-Québec has proposed a corridor for the transmission lines that would link Grande Baleine 1 generating station to Radisson substation, and two corridors for the lines that would link Grande Baleine 2 and Grande Baleine 3 generating stations to Chissibi substation. Hydro-Québec prefers the GB-3-Chissibi corridor for linking Grande Baleine 2 and Grande Baleine 3 generating stations to Chisasibi substation.

### **Ouestion**

• Do you have any comments to make about the corridors with regard to your use of the land (wildlife, waterways, water routes, land routes, specific sites or otherwise)?	
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(See *Plate 1-R* at the end of this section)



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- 1.3.1  $\Lambda^{c}$   $\Lambda^{c}$
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ﺻﻮﺕ، ﮔﻪﺧﻼﻓﺪ, ﻛﺎﻳﺎ, ﺩ៤،٩४ ﻋﻮ♡。 ܡܫܡ،ﺩ▷ኣឥሩ, ४،،७५,५٢٤᠘ ᢃἰ,٠Ͻ♡، ﮔﺪﺕ ﻋﻮ♡, ﮔﻪﺧﻼﭘﻪﻝﺩﺕ ﮔﻪﭘﺎﻟﺘﺮﻩ, ﻟﻪﺯﺩﻩ,ﺩﻟﺮﻩ ﺳﺮﺍﻟﺮﯨﺪﻩ, ﺳﺮﺍﻟﺮﯨﺪﻩ, ﺳﺮﺍﻟﺮﯨﺪﻩ, ﺳﺮﯨﺪﻩ, ﺳﺮﯨﺪﻩ, ﺳﺮﯨﺪﻩ, ﺳﺮﯨﺪﻩ, ﺳﺮﯨﺪﻩ, ﺳﺮﯨﺪﻩ,	
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- 567 1.  $\Delta$   $7^{\circ}\Gamma^{\circ}$ ,  $\sigma$   $\pi$  J  $J^{\circ}\Gamma^{\circ}$   $\Lambda$  D  $J^{\circ}\Gamma^{\circ}$  C  $\Delta^{\perp}$  L  $\Delta$   $\Delta^{\circ}$  D  $\Delta^{\circ}$   $\Gamma^{\circ}$   $\Delta^{\circ}$  D  $\Delta^{\circ}$

- 567 5.  $\Delta$   $\Delta$   $\dot{\alpha}$   $\dot{\alpha}$
- $L^{5}\Delta^{c}$   $\Delta^{6}b^{6}b^{6}\Delta^{c}\Delta^{c}\Delta^{c}\Delta^{c}$   $\Delta^{5}\Gamma^{6}$ ,  $C^{2}b^{6}J\Pi^{c}D^{c}\sigma^{c}$ ,  $\Delta^{6}d\dot{\Pi}^{c}$ ,  $\Gamma^{6}\dot{\Lambda}^{c}$ ,  $\Delta^{7}\Gamma^{6}\Delta^{c}$ ).

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#### 6>>LUCSΔC

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- Δ/LΓ°/J cdś°Γ bL/°σρ/Lc°)°, α°ς°°σ° σ«ΠΓΡΟΡ σσ° ΟἀὶΡΕΑ°
   ἩΡΡΥ°ΟΡΟς ἀς σάνρς ἀνυσο ΔαΙςριαντο να γραστο στος?

• \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \text{C} \) \( \		44UL ,L.C.

- 4.1  $\Lambda^{c} + \Pi^{b} \Gamma^{c} \left( L L^{c} + \Delta^{c} + \Delta^{c} + L^{c} + \Pi^{b} \Gamma^{c} + \Gamma^{c} \right)^{c}$
- 335.  $\Delta$ 6.  $\Delta$ 6.  $\Delta$ 6.  $\Delta$ 6.  $\Delta$ 6.  $\Delta$ 6.  $\Delta$ 7.  $\Delta$ 7.  $\Delta$ 7.  $\Delta$ 7.  $\Delta$ 6.  $\Delta$ 7.  $\Delta$ 7.  $\Delta$ 7.  $\Delta$ 7.  $\Delta$ 8.  $\Delta$ 9.   **361. 4'+'b'-'d'f')'.** d'FON d'FON D'SPY'S FON ANS ANS ANS ANS DE SERVE BOOK OF THE BOOK

# 4.2 'b>>Ll'\Δ' <\Λ\¬\∩'-¬

4.2.1 ممن م ۱.2.۲ م

6>>LUCSΔC

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#### 5.1 $\Lambda^{c} + \Pi^{b} \Gamma^{c} \left( L - L^{c} + \Delta^{c} + \Delta^{c} + L^{b} \Pi^{b} \Gamma^{b} + \Delta^{c} \right)$

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- $0.1.1 \quad \Lambda^{c} + \Omega^{b} \cap^{c} \left( L U^{c} + \Delta^{c} \quad \Delta^{c} + L > \Omega^{b} \cap^{c} + D^{c} \right)$
- **436.**  $\frac{1}{3}$   $\frac{1}{3}$
- $6.1.2 \quad \Lambda^{c} + \Pi^{c} \Gamma^{c} \left( L U^{c} + \Delta^{c} \right) = (L U^{c} + \Delta^{c} + \Delta^{c} + L + D U^{c} + \Delta^{c})$
- %b>>LU<5Δ</li>

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- 6.2 __a_<_d?~a__^1_c
- $6.2.1 \quad \Lambda^{c} + \Pi^{b} \Gamma^{c} \left( L U^{c} + \Delta^{c} \quad \Delta^{c} = L D \Pi^{b} \Gamma^{c} + D^{c} \right)$
- **528.**  $\triangle \lambda 10\%$ , ~ a d-and-d-d<\(\Delta\) + \(\Delta\) ### 6.2.2 'b>>Ll'\Δ' <\Λ\\\\)

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- 6.3 Γ°δ\Δ°
- $6.3.1 \quad \Lambda^{c} + \Pi^{b} \Gamma^{c} \left( L U^{c} + \Delta^{c} \quad \Delta^{c} = L D \Pi^{b} \Gamma^{b} + D^{c} \right)$
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| D-1                             | <b>1.5 km</b><br>ρς τ⊂Δ°  | ρ⊂                    | Δ _Δ Δ _c                                                                          | 27.5            | 10                                                                                                      | CLQ~o°                                                            | %LG.17DC.PL4.<br>4DD.G.P-<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE<br>TODE |
| Н                               | <b>1.5 km</b><br>ρς † CΔ° | ^▷°-σ-\▷ [%] | Δ _Δ Δ _c<br>Δης                                                                   | 26.3            | 6                                                                                                       | CL۵۰۵۰                                                            | %LG.475C.74.<br>477-9-9-<br>5-4-6-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| j<4d;VD<<br>L«VpVd;-<br>V¬N     | <b>1.5 km</b><br>ρς † CΔ° | -                     | PU9> 3                                                                                                 | 19.4<br>22.1(1) | -                                                                                                       | CL∆°-o°                                                           | △໑℉ԴՐ<br>ഛഺՐ。 △ഛ△°<br>४७△°೬°৮-<br>५०৮४°)°.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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- $6.4.1 \quad \Lambda^{c} \forall \Pi^{b} \Gamma^{c} \left( L \leftarrow U^{c} \Delta^{c} \quad \Delta^{c} \leftarrow L^{c} \Pi^{b} \Gamma^{c} \leftrightarrow D^{c} \right)$

- 6>>LUCSΔC

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