



NIRB Application for Screening #125124

MS Crystal Serenity - Crystal Cruises LLC Northwest Passage 2017

Application Type:	Amendment
Project Type:	Tourism
Application Date:	4/24/2017 4:34:53 PM
Period of Operation:	From 2017-08-28 to 2017-09-03
Proposed Authorization:	From 2017-08-28 to 2017-09-03
Project proponent:	John Stoll Crystal Cruises LLC 11755 Wilshire Boulevard, Suite 900 Los Angeles California 90025 USA Tel: 310 203 4339, fax: 310 286 2412

DETAILS

Non-technical project proposal description

English: **PLEASE NOTE: All information provided in this application is in addition to the information submitted in application 124679. All activities and other information provided in the original application (other than those items noted below) are still valid for the current year** Between the dates of 15 August - 16 September 2017 Crystal Cruises LLC (hereafter CCLC) plans to transit the Northwest Passage with MS CRYSTAL SERENITY, who will be carrying an estimated 900-950 guests, 655 crew and approximately 20 expedition staff. Dates within Nunavut are as follows: 2017: 28 August - 03 September (Clearance in at Cambridge Bay / Clearance Out at Pond Inlet) In addition to one stop in the Northwest Territories (Ulukhaktok), the vessel also plans several stops in Nunavut (including the community visits in Pond Inlet and Cambridge Bay as noted above) before proceeding on to Greenland and then to the U.S. Two Canadian Ice Pilots, both very experienced in the Canadian Arctic, and the Northwest Passage in particular, will be aboard to assist the ship's Master. The vessel will be joined in Ulukhaktok by an ice-breaking escort vessel, the RRS SIR ERNEST SHACKLETON (hereafter ERNEST SHACKLETON), who will escort her through the NW Passage as far as Nuuk, Greenland. Aboard the ERNEST SHACKLETON will be an additional Canadian ice pilot plus approx. 44 support crew and operations staff. For the 2017 voyage the expedition company has changed from Expedition Voyage Consultants Ltd. (EYOS) to Arctic Kingdom Inc. For the 2017 voyage the company has applied to the Canadian Wildlife Service for permits to visit bird sanctuaries on Prince Leopold and Bylot Island. For any visits to protected migratory bird sanctuaries, all passengers will be accompanied by members of Crystal Cruises expedition staff, which includes team leaders, multiple Inuit guides, polar bear monitors, and a number of naturalists and expert lecturers. The proposed activities during these visits include zodiac cruising in the ocean surrounding the Bylot Island Migratory Bird Sanctuary (at the Cape Hay location) and Prince Leopold Island (along the South East cliffs). Visitors to Prince Leopold Island may make landfall in the bay to the West of the South East spit for a short time to launch kayaks (weather dependent) and then return to the water in kayaks. Crystal Cruises would like to offer a select number of guests the opportunity to visit Prince Leopold Island by helicopter (Please see attached document detailing the information for this proposed activity). These guests would land at the research camp and make a short hike out to a viewing spot before returning to the helicopter. Crystal Cruises shore staff will provide interpretation of the sites and ensure that all passengers adhere to strict look but do not touch and leave no trace policies. Crystal Cruises has hired Arctic Kingdom, a Canadian company with 18 years of experience working in the Canadian Arctic, to provide the shore staff for this expedition. Their staff have years of experience traveling in protected areas around the Arctic and are familiar with and will abide by all guidelines any governing agencies have for visits to these sites. Site visits are planned to be between a half day and a full day in length, will take place between August 15th and September 16th, 2017, and may be shortened or cancelled due to bad weather or environmental conditions. The MS Crystal Serenity itinerary has remained the same as was submitted in project application 124679. We have

French:

Inuktitut:

Personnel

Personnel on site: 1670

Days on site: 7

Total Person days: 11690

Period of operation: from 2017-08-28 to 2017-09-03

Proposed term of operation: from 2017-08-28 to 2017-09-03

ACTIVITIES

Project Activities

Location	Activity Type	Land Status	Site History	Site Archaeological or Palentological Value	Proximity to the nearest communities and any protected areas
Prince Leopold Island	Tourism Activities	Crown	Prince Leopold Island Migratory Bird Sanctuary (MBS) is situated in Lancaster Sound, approximately 13 km off the northeast tip of Cape Clarence, Somerset Island, in Nunavut. Established in 1995, the sanctuary encompasses the entire island, an area of approximately 64 square km, as well as all water within 5 km of the shore.	Several Inuit archaeological sites are located on the island. Please see the companys guidelines for conduct at archaeological sites in the project description of project proposal 124679	The Prince Leopold Island Migratory Bird Sanctuary is located near the High Arctic Nunavut communities of Arctic Bay and Resolute in the Qikiqtaaluk region. Resolute is located 150 km Northwest and Arctic bay is located 175 km Southeast of the sanctuary.
Bylot Island	Tourism Activities	Crown	Bylot Island Migratory Bird Sanctuary (MBS) is situated off northeastern Baffin Island in Nunavut. Established in 1965, the MBS boundaries include the entire island and its adjacent marine waters within 3.2 km from the shore.	We do not have any information on archaeological sites located on the island. The planned activities within the bird sanctuary are limited to zodiac cruising in the waters surrounding the island none of which contain archaeological sites.	Bylot Island is located 81.5 kms Northwest of Pond Inlet.

Community Involvement and Regional Benefits

Community	Name	Organization	Date Contacted
Cambridge Bay	Jim MacEachern	Hamlet Office	2017-04-05
Cambridge Bay	Peter Avalak	Local Inuit Guide	2017-04-05
Cambridge Bay	Jessie Otokiak	Arctic Coast Visitors Center	2017-04-05
Cambridge Bay	Ray Snow	Kullik Ilihakvik High School	2017-04-05
Cambridge Bay	Christina Mulhern	District Education Authority	2017-04-05
Cambridge Bay	Pamela Gross	Pitquhimikkut Ilihautiniq Kitikmeot Heritage Society	2017-04-05
Pond Inlet	Earnest Merkosak	Nattinak Center	2017-04-06
Pond Inlet	Apphia Killiktee	Community Elder/Search and Rescue	2017-04-06
Pond Inlet	Nicole Monchamp	Hamlet Office	2017-04-06
Cambridge Bay	Dan Cress	Hunters and Trappers Committee	2017-04-05
Pond Inlet	Enooki Killiktee	Hamlet Office	2017-03-28
Resolute Bay	Mike Stevens	Hamlet Office	2017-03-28
Pond Inlet	Mittimatalik Hunters and Trappers Committee	Mittimatalik Hunters and Trappers Committee	2017-03-28
Cambridge Bay	Ekaluktutiuk Hunters and Trappers Committee	Ekaluktutiuk Hunters and Trappers Committee	2017-03-28

AUTHORIZATIONS

Project Locations

Transboundary
Kitikmeot
North Baffin

Project Authorization

Authorizing Agency	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Canadian Wildlife Service	Migratory Bird Sanctuary Access Permit	Applied, Decision Pending		
Government of Nunavut, Department of Economic Development & Transportation	Outfitters License	Active	2017-04-12	2017-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 1 Archaeological Permit	Applied, Decision Pending		
Other	Government of Nunavut, Workers Safety & Compensation Commission, Workers Coverage (WSCC exemption)	Active	2017-03-09	
Other	Citizenship and Immigration Canada (CIC) Temporary Foreign Worker's Units/Employment and Social Development Canada	Applied, Decision Pending		

	(ESCD)/Service Canada - Labour Market Impact Assessment and Work Permits			
Other	Canadian Border Services Agency (through designated Port Agent FK Warren) notification of itinerary, coordination of First Port of Arrival clearance, including firearms	Applied, Decision Pending		
Transport Canada	Notification of itinerary	Active		
Transport Canada	Security matters under the Marine Transportation Security Act being coordinated through designated Port Agent FK Warren	Applied, Decision Pending		
Fisheries and Oceans Canada	Vessel will submit reports to NORDREG	Active		
Qikiqtani Inuit Association	Permission/authorization for proposed activities	Not Yet Applied		
Kitikmeot Inuit Association	Permission/authorization for proposed activities	Not Yet Applied		
Other	Cambridge Bay Hunters and Trappers Committee - Permission/authorization for proposed activities	Applied, Decision Pending		
Other	Pond Inlet Hunters and Trappers Committee - Permission/authorization for proposed activities	Applied, Decision Pending		
Other	Pond Inlet Hamlet Council - Permission/authorization for proposed activities	Applied, Decision Pending		
Other	Cambridge Bay Hamlet Council - Permission/authorization for proposed activities	Applied, Decision Pending		

Project transportation types

Transportation Type	Quantity	Proposed Use	Length of Use
Helicopter	1	Flight-seeing tours and transportation of guests to and from Prince Leopold Island	7 days
Zodiac	15	Cruising in the areas surrounding Bylot Island and Prince Leopold Island	7 days
Kayak	16	Touring, photography and observation	7 days

MATERIAL USE

Equipment to be used (including drills, pumps, aircraft, vehicles etc.)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Information is not available			

Detail Fuel and Hazardous Material Use

Fuel / Material	Type	Number of Containers	Container Capacity	Total Amount	Units	Proposed Use
Information is not available						

Project Water Consumption

Daily Amount (m3)	Proposed Water Retrieval Methods	Proposed Water Retrieval Location
0		

WASTE

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional Treatment Procedures
Information is not available				

Environmental Impacts

Please see attached "Potential Environmental Impacts and Mitigation Measures" for information specific to proposed Migratory Bird Sanctuary access. Please see Project Description attached in the Details Part 2 section for potential impacts and mitigation measures for the voyage in general.

DETAILS PART 2

Project General Information

See attached Project Description for additional information

DFO Operational Statement of Conformity

See attached Project Description for additional information

Transportation

See attached Project Description for additional information

Camp Site

N/A

Equipment

See attached Project Description for additional information

Water

See attached Project Description for additional information

Waste Water (Grey water, Sewage, Other)

See attached Project Description for additional information

Fuel

See attached Project Description for additional information

Chemical and Hazardous Material

See attached Project Description for additional information

Workforce and Human Resources / Socio-Economic Impacts

Please refer to information provided in original filing (124679)

Public Involvement / Traditional Knowledge

Please refer to information provided in original filing (124679)

Description of Existing Environment: Physical Environment

See attached Project Description for additional information

Description of Existing Environment: Biological Environment

See attached Project Description for additional information

Description of Existing Environment: Socioeconomic Environment

See attached Project Description for additional information

Identification of Impacts and Proposed Mitigation Measures

Please refer to information provided in original filing (124679)

Cumulative Effects

Please refer to information provided in original filing (124679)

IMPACTS

TABLE 1 - IDENTIFICATION OF ENVIRONMENTAL IMPACTS

		P H Y S I C A L																B I O L O G I C A L																S O C I O - E C O N O M I C															
		Designated environmental areas																Vegetation																Archaeological and cultural historic sites															
		Ground stability																Wildlife, including habitat and migration patterns																Employment															
		Permafrost																Birds, including habitat and migration patterns																Community wellness															
		Hydrology / Limnology																Aquatic species, incl. habitat and migration/spawning																Community infrastructure															
		Water quality																Wildlife protected areas																Human health															
		Climate conditions																																															
		Eskers and other unique or fragile landscapes																																															
		Surface and bedrock geology																																															
		Sediment and soil quality																																															
		Tidal processes and bathymetry																																															
		Air quality																																															
		Noise levels																																															
		B I O L O G I C A L																																															
		Vegetation																																															
		Wildlife, including habitat and migration patterns																																															
		Birds, including habitat and migration patterns																																															
		Aquatic species, incl. habitat and migration/spawning																																															
		Wildlife protected areas																																															
		S O C I O - E C O N O M I C																																															
		Archaeological and cultural historic sites																																															
		Employment																																															
		Community wellness																																															
		Community infrastructure																																															
		Human health																																															
CONSTRUCTION																																																	
-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
OPERATION																																																	
Tourism Activities		M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	M	M	M	M	M	M			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
DECOMMISSIONING																																																	
-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

Project Map

