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Λαμβάνοντας υπόψη ότι η συνάρτηση  $f$  είναι συνεχής στο  $[0, 1]$  και ότι η συνάρτηση  $g$  είναι συνεχής στο  $[0, 1]$ , τότε η συνάρτηση  $h$  είναι συνεχής στο  $[0, 1]$ .

▷ <sup>c</sup> <sub>3</sub> <sup>o</sup> <sub>6</sub> <sub>2</sub>

[illegible]

**ᠪᠠᠯᠢᠨᠪ᠋ᠳᠤᠰᠡᠭᠦᠷᠣᠨᠲᠤᠨ:** from 0001-01-01 to 0001-01-01

Λαμβάνει 4<sup>ος</sup> 2<sup>ος</sup> 4<sup>ος</sup>:

F.K. Warren Ltd.

F.K. Warren Ltd.

2000 Barrington St., Suite 1212

Halifax Nova Scotia B3J 3K1

Canada

D<sup>s</sup>b<sub>c</sub>D<sup>n</sup><sub>c</sub>: 902-423-8136, P<sup>b</sup>Q<sup>d</sup><sub>c</sub>: 902-429-1326

$\epsilon_b \Delta^c \dot{\bar{N}}_0 \sigma^b \wedge c_n d\epsilon^f b^g d n d^a l^a \sigma^b$

٩٦٤٠٨٢٥: Vessel has a scheduled tourism-based cruises from Sept 2 to September 9, 2023. The vessel carries 85 passengers and 30 crew on board. The Captain has extensive experience in sailing in such areas. The cruise ship carries Zodiacs boats, which are used for transporting passengers to and from shore, touring, photography, and observation from the water. All staff are trained and there are certified firearms specialists with appropriate licences on board as well. The captain and expedition leaders have been selected based on their polar experience and understanding of wildlife and sensitive remote regions such as the Arctic. This is a tourist expedition where the goal is to experience the Arctic and visit various sites along the way with minimal disturbance to landings and wildlife. For the visits to these areas, all passengers will be accompanied by members and specialists. The activities undertaken during these visits may include walking/hiking, photography, kayaking, Zodiac cruising. There will only be community landings and a zodiac cruise near Lady Franklin Island.

▷ Δ Ἀ Ν Ὀ ς : Le navire propose des croisières touristiques programmées du 2 au 9 septembre 2023. Le navire transporte 85 passagers et 30 membres d'équipage à bord. Le capitaine possède une vaste expérience de la navigation dans de telles zones. Le bateau de croisière transporte des bateaux Zodiacs, qui sont utilisés pour le transport de passagers vers et depuis le rivage, les visites, la photographie et l'observation depuis l'eau. Tout le personnel est formé et il y a également à bord des spécialistes des armes à feu certifiés avec les licences appropriées. Le capitaine et les chefs d'expédition ont été sélectionnés en fonction de leur expérience polaire et de leur compréhension de la faune et des régions éloignées sensibles telles que l'Arctique. Il s'agit d'une expédition touristique dont le but est de découvrir l'Arctique et de visiter divers sites en cours de route avec un minimum de perturbations pour les débarquements et la faune. Pour les visites de ces zones, tous les passagers seront accompagnés par des membres et des spécialistes. Les activités entreprises lors de ces visites peuvent inclure la marche/ronnée, la photographie, le kayak, la croisière en zodiac. Il n'y aura que des débarquements communautaires et une croisière en zodiac près de l'île Lady Franklin.

[illegible]

Inuinnaqtun: Vessel-kut ihuaqhaqhimajut aquinikkut-tunnganiqaqtun umiani talvannga Sept 2min talvunga September 9mun, 2023mun. Umidjat tigumiaqtait 85-nik uhitigtunik imaalu 30-nik havaktinik ikipkarlutik. Kaptinga akhuraaluk atuqhimayuq ahiruqpallaangittumik. Umiaryuakkut umiat Zodiacs qainat, atuqtauyut uhitigtut uhitigtut hinaanunlu, qungiaqhutik, piksaliuqhutik, uvalu tautuktamingnik imaqmin. Tamaita havaktit ayuiqhaqhimayut uvalu naunaitkutigaqtut hiqutit ayuittiaqhimayut ihuaqtumik laisigaqtunik katimayiinunlu. Tamna tutquqtiqhimayuq aulaqtitivakhimayutlu hivuliqtingit pukuktauvakhimayut talvuuna nanurnik havakpakhimayainik ilitugidjutikharnik uumayunik mihingnautigaqtuniklu avaliqangitunik avikturvingniitunik taimaitutun Ukiuktaqtuni.

Personnel on site: 115

Days on site: 4

Total Person days: 460

Operations Phase: from 2023-09-02 to 2023-09-09

$$\Lambda \subset \mathbb{N} \triangleleft \mathbb{N} \xrightarrow{\sigma} \mathbb{N} \xrightarrow{\sigma^b} \mathbb{N}^c$$

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Pond Inlet	Tourism Activities	Municipal	Mittimarakalik (Pond Inlet) – named in Inuktitut after an unknown ancient person presumed to be buried here is the largest community in Northern Baffin Island with mountains visible from all sides, is called the Jewel of the North. conveniently close to both Tamaarvik Territorial Park and Sirmilik National Park. ‘Mittimatalik’ is also home to the renowned Tununiq Arsarniit Theatre Group.	-The entire region around Pond Inlet is scattered with archaeological sites of ancient Dorset and Thule peoples (the ancestors of modern Inuit people) from over 1,000 years ago	Pond INlet
Qikiqtarjuaq	Tourism Activities	Municipal	Qikiqtarjuaq received the name Broughton Island in 1818 by Royal Navy explorer John Ross. Ross opened up the west shore of Baffin Island to European whalers who had already been hunting the nearby Greenland area	Seasonal visits by whalers to the Qikiqtarjuaq area began in July 1824 and continued for a century. Northern access point for Auyuittuq National Park	Qikiqtarjuaq
Lady Franklin Island	Tourism Activities	Crown	Located in the Canadian Arctic Archipelago, Lady Franklin Island has a rich archaeological history. It was named in honor of Lady Jane Franklin, who sponsored several expeditions in search of her missing husband, Sir John Franklin	Archaeological research on the island has uncovered evidence of Inuit occupation, including stone tools, tent rings, and hunting structures. These artifacts provide insights into the resourcefulness and adaptability of the indigenous people who inhabited the region.	Iqaluit - NO LANDING to take place - zodiac cruise only
Iqaluit	Tourism	Municipal	qaluit is the capital city	Archaeologists	Iqaluit

	Activities		of the Canadian territory of Nunavut. It sits on vast Baffin Island in Frobisher Bay. The island is known for its ice-capped mountains and tundra valleys. Near the city, Sylvia Grinnell Territorial Park is home to caribou and Arctic foxes. Qaummaarviit Territorial Park, on a tiny island near the city, contains archaeological remains of the ancient Thule people. —	believe occupation of the Crystal II site near the Sylvia Grinnell River outside of Iqaluit dates back to pre-Dorset culture.	
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ᓄᓇᓕᓯᓪᓐ	Coreen Green / Dylan Mablick	Hamlet	2023-05-30
ᓄᓇᓕᓯᓪᓐ	Daisy Nuqingaq	Hamlet	2023-08-01
ᓄᓇᓕᓯᓪᓐ	Louis Pothier	Inukpak Outfitting	2023-08-01

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$a^{\dagger}r^{\dagger}q^{\dagger}\sigma^{\dagger} \Lambda_{\sigma} r q \Delta \sigma q^{\dagger} \gamma^c$   $\Pi\Pi\gamma^{\dagger}\gamma^c:$

## North Baffin

## South Baffin

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## Project transportation types

Transportation Type	Transportation Mode	Length of Use
Water	Cruise Vessel - Ocean Nova	

## Project accomodation types

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◀▷↳◀<sup>96</sup>▷<sup>96</sup>

Λ<sup>9</sup>d<sup>c</sup> d<sup>a</sup>r<sup>z</sup><sup>56</sup> d<sup>56</sup>CdσD<sup>4</sup>Δ<sup>56</sup> Δ<sup>56</sup>b<sup>7</sup>Dn<sup>3</sup>r<sup>c</sup> ΔjCΔ<sup>c</sup>, Γ<sup>c</sup>→dPñ<sup>c</sup>, <sup>56</sup>b<sup>6</sup>LCj<sup>56</sup>, μεrD<sup>c</sup> d<sup>r</sup><sup>a</sup>r<sup>c</sup>→

ᐃᓕᐱᓚ ᐱᓄᑦ ᐃᑐᒐᐅᓂᐃᓖᑐᓖ ᓖᓗᐃᑦᑐᓂᓖ	ᓖᓕᓯᐅᑦ	ᐃᓖᓂᓖᓂᓂ - ᐱᓖᑐᓂᓖᓂ	ᓴᓇᓂᑦ ᐃᑐᒐᐅᓂᐃᓖᑐᓖ
Cruise ship	1	73m Length, 11m Width, 2180 GRT	Accommodation and transportation for passengers and crew
Zodiacs	8	TBA	Mark V brand Zodiac inflatable boats ; Number of craft : 8 in total; Engines/fueltypes : 8 Yamaha-brand 50 HP 4 stroke outboard.

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[illegible]

ΔL<sup>9b</sup> ΔD<sup>9b</sup> CD<sup>9b</sup> ΔL<sup>9b</sup> ΔD<sup>9b</sup>

$\mathcal{D}^c \rightarrow \mathcal{C} \dot{\mathcal{L}}^{\mathfrak{f}_b} \rightarrow \mathcal{D}^{\mathfrak{f}_b} \mathcal{C} \mathcal{D}^{\sigma} \mathcal{D}^{\mathfrak{f}_b} \mathcal{D}^{\mathfrak{f}_b}$	$\mathfrak{f}_b \rightarrow \mathfrak{f}_b \rightarrow \Delta \Gamma^{\mathfrak{f}_b} \mathcal{C}^{\mathfrak{f}_b} \mathcal{C}^{\mathfrak{f}_b} \sigma \mathcal{D}^{\mathfrak{f}_b} \mathcal{C}^{\mathfrak{f}_b}$	$\mathfrak{a} \mathcal{P}^{\mathfrak{f}_b} \rightarrow \Delta \Gamma^{\mathfrak{f}_b} \mathcal{C}^{\mathfrak{f}_b} \mathcal{C}^{\mathfrak{f}_b} \sigma \mathcal{D}^{\mathfrak{f}_b} \mathcal{C}^{\mathfrak{f}_b}$
0		

$\triangleleft^b C d^c$ 
$$\Delta^b C d_{\sigma} \Delta^a \sigma^a$$

Aᑭᓕᓂᐱᓚᔭᐅᔪᒫᒫᑦ	ᖃᓄᐃᑦᑐᖃ	ᖃᓄᓂᓯ ᐱᑦᑕᑎᑦ	ᖃᓄᓄᖃ	ᓴᓗᒻᒪᖃ ᓴᐅᓂᖃ ᓴᖃᓄᓄᐅᓄᐱᖃᑐᑦ
Aᑭᓕᓂᐱᓚᔭᐅᓄᐱᖃᑐᖃ	ᐱᑦᑕᑎᑦ	ᓴᖃᓯᐱᓄᐱᖃᑐᓚᔭᐅᔭᑦ	ᐱᑦᑕᖃᑕᐅᓄᐱᖃᑦ	
Tourism Activities	ᐱᑦᑕᑎᑦ ᐃᐁᐱᓚᑕᐅᔪᓄᓄᖃᑐᑦ	TBA	Retained on board until licensed disposal facility in Newfoundland or Greenland	.
Tourism Activities	ᐃᒪᐃᑦ ᐱᑐᖃᑕᐅᔭᓚᖃᓯᒫᔪᑦ	TBA	According to Marpol regulations	.
Tourism Activities	ᐱᑦᑕᓄᓄᖃᑐᖃ	TBA	Retained on board until licensed disposal facility in Newfoundland or Greenland	.
Tourism Activities	ᖃᐅᖃᑕᓕᓚᓄᖃ	TBA	According to Marpol regulations	.

[illegible]

essel will be transiting through wildlife habitats and passengers and crew will be landing ashore in areas where wildlife may be present. This activity could be indirectly disruptive to certain species. Oil spill, noise disturbance and emissions could potentially effect wildlife. Emissions to air and water are limited by the strictest marine regulations and the engines are therefore running on low sulphur Marine Gas Oil. The vessel has a treatment system for the ballast water to avoid the spread of biological organisms from one area to another, and she is designed to minimize the impact on marine life by causing low underwater noise levels. When in operation the vessel will ensure, in wildlife concentrated areas, ship's speed will be reduced. The vessel is sailing between 5-10 knots in the areas where wildlife is present and the full capacity of the ship is 10 knots. Therefore, speed is of utmost consideration when sailing in wildlife rich areas. Measures to Avoid Dangerous Wildlife Encounters: Direct contact and interaction with wildlife will be avoided. All activities the vessel, passengers and crew engage in will be environmentally conscious and intended for the purpose of sightseeing only. No manmade structures or materials will be left in wildlife area. Crew members who are trained and certified naturalists will provide safety guidance and information on the environment to the passengers and other crew. The information provided is specific to each location and is made in an effort to afford protection and conservation by minimizing any potential damage or disruption that could occur. The crew on board the cruise vessel are well versed in measures to avoid dangerous wildlife encounters. They keep watch for dangerous animals, and will not approach land if dangerous wildlife is spotted ashore. When ashore, food is not left unattended (if brought ashore at all). The crew have a system in place to safely and efficiently move passengers back to



# **Additional Information**

**SECTION A1: Project Info**

**SECTION A2: Allweather Road**

**SECTION A3: Winter Road**

**SECTION B1: Project Info**

**SECTION B2: Exploration Activity**

**SECTION B3: Geosciences**

**SECTION B4: Drilling**

**SECTION B5: Stripping**

**SECTION B6: Underground Activity**

**SECTION B7: Waste Rock**

**SECTION B8: Stockpiles**

**SECTION B9: Mine Development**

**SECTION B10: Geology**

**SECTION B11: Mine**

**SECTION B12: Mill**

**SECTION C1: Pits**

**SECTION D1: Facility**

**SECTION D2: Facility Construction**

**SECTION D3: Facility Operation**

**SECTION D4: Vessel Use**

**SECTION E1: Offshore Survey**

**SECTION E2: Nearshore Survey**

### SECTION E3: Vessel Use

## SECTION F1: Site Cleanup

## SECTION G1: Well Authorization

## SECTION G2: Onland Exploration

## SECTION G3: Offshore Exploration

## SECTION G4: Rig

## SECTION H1: Vessel Use

## SECTION H2: Disposal At Sea

## SECTION 11: Municipal Development

[illegible]

Please see project map which outlines coordinates for all planned landing locations. Vessel will only call communities and zodiac near Lady Franklin Island. The Canadian Arctic Archipelago comprises of 94 major and 36,469 minor islands, covering a vast area of 1.4 million square kilometers in Northern Canada's North Atlantic Ocean. Nunavut and Northwest Territories form the majority of this region, which is separated from the mainland and each other by the Northwest Passage, the largest high Arctic land area worldwide. The terrain is mostly tundra, with the exception of mountainous areas, and Canada's glacial ice is mostly located in the highlands. The archipelago experiences cold winters, averaging between -20°C and -35°C, and mild summers, with temperatures ranging from 10°C to 25°C, with a wide range of plant and animal life, including various land and marine mammals, insects, and birds. The islands also have a range of plant species, such as mosses, liverworts, and lichens.

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During the expedition through Nunavut there are various endangered species in both marine and land environments that the vessel could potentially encounter. The Species at Risk Act (SARA) aims to protect species from extinction and has identified several species in Northern Canada as endangered, such as Barren-ground Caribou (NWT), Beluga Whale (Nvt), Caribou (Nvt), Eskimo Curlew (NWT, Nvt, YT), Gypsy Cuckoo Bumble Bee (NWT, YT), Ivory Gull (NWT), Little Brown Myotis (NWT, YT), Northern Myotis (NWT, YT), Red Knot (NWT), Ross's Gull (Nvt), and Whooping Crane (NWT).

[illegible]

Several community visits are planned to Iqaluit, Pond Inlet, and Qikiqtarjuaq. We are looking forward to working with the communities to develop a program that allows the passengers to learn about the culture in a respectful and engaging manner. Passenger landing fees are paid to the Hamlet to ensure there is a fiscal benefit to the community. While the federal covid regulations have been dropped, we will adhere to any/all covid protocols requested by the communities. Appropriate archaeological permits have been applied for, and the onboard archaeologist will ensure all procedures are respected.

### Miscellaneous Project Information

[illegible]

Minimization and mitigation measures include following established standard operating procedures and education, which are viewed as being the key factors toward ensuring that crew, expedition staff and guests are educated and briefed appropriately. Staff and Guest Briefings will include pre-landing briefings on wildlife sensitivities and potential hazards, proper wildlife viewing techniques and safety and operational practices. While the HANSEATIC NATURE will take necessary measures to limit their impact on all species within the surrounding environment, extra precautions will be taken for the species listed above. It is important to note that the proposed activity may cause disturbances to the flora and fauna. However, Hapag Lloyd Cruises believes that with proper procedures and attention to detail, any potential impacts caused by the HANSEATIC NATURE can be minimized. Ship's command and the Expedition Leader are aware of Species at Risk to ensure that activities do not impact these species. Environment and Climate Change Canada's "Environment Assessment Best Practice Guide for Wildlife at Risk in Canada"

([http://www.sararegistry.gc.ca/virtual\\_sara/files/policies/EA%20Best%20Practices%202004.pdf](http://www.sararegistry.gc.ca/virtual_sara/files/policies/EA%20Best%20Practices%202004.pdf)) provides information on what is required when Wildlife at Risk, including Species at Risk, are encountered or affected by the Project.

## Cumulative Effects

Cumulative effects are expected to be minimal. Vessel will only call communities and zodiac near Lady Franklin Island. No landing to be conducted there.

## Impacts

$\omega_{\Delta} \Delta^{\epsilon_b} C D \sigma^{\epsilon_c} \Gamma^c$ 
 $\Delta^{\epsilon_c} \Pi \Gamma D C \sigma^c \gamma^c$ 
 $\Delta^b \gamma^b C D \rho L \rho^c$

[illegible]
$$(P = \langle b \rangle \Delta \langle p \rangle \cap \langle a \rangle \langle b \rangle^c, N = \langle b \rangle \langle p \rangle \setminus \langle c \rangle \langle a \rangle \langle b \rangle^c \setminus \langle c \rangle \langle p \rangle \setminus \langle p \rangle \langle b \rangle \langle c \rangle \langle a \rangle \langle p \rangle^c, M = \langle b \rangle \langle p \rangle \setminus \langle c \rangle \langle a \rangle \langle b \rangle^c \setminus \langle c \rangle \langle p \rangle \setminus \langle p \rangle \langle b \rangle \langle c \rangle \langle a \rangle \langle p \rangle^c, U = \langle b \rangle \langle p \rangle \setminus \langle c \rangle \langle a \rangle \langle p \rangle^c)$$

1	point	Pond Inlet
2	point	Qikiqtarjuaq
3	point	Lady Franklin Island
4	point	Iqaluit

1	point	Pond Inlet
2	point	Qikiqtarjuaq
3	point	Lady Franklin Island
4	point	Iqaluit