THE STATE of ALASKA
GOVERNOR MIKE DUNLEAVY

Department of Environmental Conservation
DIVISION OF WATER
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, Alaska 99501-2617
Main: 907.269.6285
Fax: 907.334.2415
www.dec.alaska.gov/water/wwdp

June 21, 2022

Sarah Ferguson-Brown
NCL (Bahamas) Ltd.
7665 Corporate Center Drive
Miami, FL 33126

Re: Authorization to Discharge 2013DB0004-0043: Norwegian Spirit

Dear Ms. Brown:

The Alaska Department of Environmental Conservation (DEC) has completed its review and acknowledges that you have submitted a complete Notice of Intent (NOI) form for the 2013DB0004 Large Commercial Passenger Vessel Wastewater Discharge General Permit (Permit).

The Norwegian Spirit is hereby authorized to discharge treated wastewater into Alaska marine waters and is issued wastewater discharge authorization number 2013DB0004-0043. Discharge from this vessel is authorized in accordance with the terms and conditions of the general permit and any vessel-specific conditions included in this document.

An electronic copy of the Permit and this authorization is available at the Department website http://dec.alaska.gov/water/cruise-ships/cruise-general-permit/.

The following are vessel specific conditions that apply to this authorization:

1) Treated wastewater discharge is authorized when the vessel is operating at speeds of 6 knots or greater.
    a. Mixing Zone: Mixing zone size for the permittee is authorized for discharges at speeds of 6 knots or greater and is limited to 63 meters in length, 5 meters in width, and a depth from the water surface to the depth the discharge port is below the water surface plus one meter. The shape of the mixing zone is an elongated rectangle that extends from the discharge port towards the stern of the ship. See Permit Section 5.2.3.
    b. Effluent Limits and sampling requirements are identified in Tables 3 and 5 of the Permit
2) Treated wastewater discharge is authorized when the vessel is operating at speeds of less than 6 knots, including while docked at the Railroad Dock in Skagway.
    a. Mixing Zone: Mixing zone size for permittees authorized for discharges at speeds under 6 knots, excepted as specified in Section 5.2.5, is limited to a radius of 83 meters and a depth from the water surface to the depth the discharge port is below the water surface plus one meter. The mixing zone will extend away from the hull of the vessel in a semicircle centered on the discharge port. See Permit Section 5.2.4.
    b. Effluent Limits and sampling requirements are identified in Tables 4 and 6 of the Permit.
3) Treated wastewater discharge is authorized when the vessel is docked in Skagway at either the Broadway Dock, or the Ore Dock.

a. Mixing Zone: Mixing zone size for permittees authorized for discharge when docked in Skagway at Broadway Dock or Ore Dock when cruise ships are present at both docks is limited to a radius of 15 meters and a depth from the water surface to the depth the discharge port is below the water surface plus one meter. The mixing zone will extend away from the hull of the vessel in a semicircle centered on the discharge port. See Permit Section 5.2.5.

b. Effluent Limits and sampling requirements are identified in Tables 4 and 6 of the Permit.

4) In-port discharge is only authorized from a single port that is located on the outboard side of the vessel from the dock where operationally feasible.

5) During the first year of vessel operation in Alaska waters, Whole Effluent Toxicity (WET) Testing is required monthly in accordance with Permit Section 6.9.4.

6) Receiving Water Monitoring is required twice per year in accordance with Permit Section 6.9.3.

7) Discharge from multiple ports simultaneously is prohibited.

The permittee is reminded of the following permit requirements, and is responsible for all submissions and activities in the Permit even if they are not summarized below:

- All Commercial Passenger Vessels must register annually see Permit Part 2.1.3. http://dec.alaska.gov/water/cruise-ships/cruise-registration/.
- As per Permit Part 4.2.3, the permittee shall notify the Department, in writing, of wastewater treatment system modifications that change information provided to the Department in the approved NOI form at least 48 hours prior to the discharge of any treated wastewater into marine waters of the state. The NOI Application form can be accessed at the Departments website http://dec.alaska.gov/water/cruise-ships/cruise-general-permit/.
- Quality Assurance Project Plan (QAPP) see Permit Part 6.1: The owner/operator of a vessel that intends to discharge wastewater into Alaskan waters must submit a wastewater sampling QAPP to ADEC for approval.
- Vessels Specific Sampling Plan (VSSP) see Permit Part 6.2: All vessels are required to have an approved Vessel Specific Sampling Plan (VSSP) 21 days before sampling.
- Sampling requirements for discharges underway at speeds greater than 6 knots and associated effluent limits can be found in Tables 2, 3 and 5 of the permit.
- Sampling requirements for discharges at speeds less than 6 knots and associated effluent limits are located in Tables 4 and 6 of the permit.
- Discharge Monitoring Reports (DMRs): see Permit Part 7.2: DMRs are required for each calendar month that the vessel operated in the marine waters of the state and must be submitted within the first 21 days of the following calendar month.
- Submit all CPVEC registration correspondence, support documents, and reports to: DEC.WQ.Cruise@alaska.gov or mail to: ADEC-CPVEC, ATTN: Cruise Ship Program P.O. Box 111800 Juneau, AK 99811-1800.

- A copy of the General Permit 2013DB0004 and this authorization letter must be kept onboard the vessel. This letter does not relieve the permittee from other local, state, or federal government permitting requirements.

Please reference your permit authorization number 2013DB0004-0043 and vessel name in all future correspondence. If you have any questions regarding the above, please contact Sam Kito at 907-269-7542, or via email at Sam.Kito@alaska.gov.

Sincerely,

James Rypkema
Program Manager, Cruise Ship Permitting

Enclosure: NOI

cc: DEC.WQ.Cruise@alaska.gov

NOTICE OF INTENT FORM

Notice of Intent to be covered under the Wastewater General Permit 2013DB0004 for Large Commercial Passenger Vessels Operating in Alaska (See Sections 2 and 3 of the permit.)	
Submission of this document constitutes a request that certain discharges into marine waters of the state resulting from the operation of the large commercial passenger vessels identified herein be authorized under General Permit 2013-DB0004.	
Vessel Owner Information	
Who is the main point of contact for the vessel? (e.g. owner, operator, or Alaska Agent): **Sarah Ferguson-Brown, Sr. Director, Environmental Operations**	
Vessel Owner's Business Name: **Norwegian Spirit Ltd. (149831)**	
Mailing Address: Norwegian Cruise Line Holdings Ltd. 7665 Corporate Center Drive Miami FL 33126	Phone: 305 436 4349
Representative: **Sarah Ferguson-Brown, Sr. Director, Environmental Operations**	Email: SBrown@nclcorp.com
Vessel Owner's or Operator's Alaska Agent Information	
Company Name: **NCL (Bahamas) Ltd. (121734)**	
Mailing Address: Norwegian Cruise Line Holdings Ltd. 7665 Corporate Center Drive Miami FL 33126	Phone: 305 436 4349
Representative: **Sarah Ferguson-Brown, Sr. Director, Environmental Operations**	Email: SBrown@nclcorp.com
Vessel Operator's Business Name if Different From the Owner's Business Name	
Vessel Operator's Business Name: N/A	
Mailing Address: N/A	Phone: N/A
Representative: N/A	Email: N/A

Vessel Information (Y/N)	
Are you seeking authorization to discharge with a mixing zone?	Yes
Are you seeking authorization to discharge while moving at 6 knots or greater?	Yes
Are you seeking authorization to discharge while moving at under 6 knots?	Yes
Are you seeking authorization to discharge while in Skagway at Broadway or Ore Docks?	Yes

If the permittee is seeking authorization which includes a mixing zone, attach (may be emailed separately) a drawing to scale that indicates the length of the vessel and the locations of all wastewater effluent penetration points (ports) on the hull.
See attached *"Valve_Top_view"*

Vessel Name:	NORWEGIAN SPIRIT
Vessel IMO Number:	9141065
Vessel Gross Tonnage:	75,904
Port of Registry:	Nassau, Bahamas
Maximum Passenger Capacity per Voyage:	2516
Maximum Crew Capacity per Voyage:	1084
Vessel Draft[1]:	11.5 m
Vessel Length in Meters at Waterline[2]:	237.48 m

Vessel Tracking	
Method of submitting hourly vessel tracking information while in Alaskan waters (Marine Exchange of Alaska AIS or other Department approved method): Marine Exchange	
Name, physical address, and mailing addresses of the service:	Alexander J. Barnas | Manager, Environmental Operations Norwegian Cruise Line Holdings Ltd. 7665 Corporate Center Drive Miami FL 33126
Contact's name, email address, and phone number:	Alexander J. Barnas | Manager, Environmental Operations abarnas@nclcorp.com 1 786 336 5606

[1] Vessel draft under a) loaded condition for Alaska operations (bunkers / waste water storage etc.) and b) under light ship conditions for Alaska operations (bunkers empty / no waste water storage etc.)
[2] Length of Waterline (LWL) under normal load in standard Alaska conditions.

Discharge Port Characteristics **Note: If there is more than one discharge port attach a sheet with the characteristics below for each AWTS Port. If more than one discharge pump attach sheet with capacity for each.**			
Discharge Port Name[3]:	762A1124 "A"	Location (Starboard/Port):	Starboard
Discharge Port Internal Diameter:	200DN	Discharge Port Centerline Vertical Distance from Keel:	15 meters
Discharge Port Distance from Bow at Waterline (normal load):	190 meters	Discharge Port Centerline Vertical Distance from Waterline (normal load)[4]:	6 meters
Discharge Port shape (round, oval, square):	Round	Discharge Port Pump Capacity (m^3/hr) for each Pump[5]:	33m3
Discharge Port Vertical Angle Relative to Waterline[6]:	90 degrees	Discharge Port Horizontal Angle Relative to Centerline[7]:	180 degrees

Wastewater Discharge Information		
Estimates of the average and maximum volume of the wastewater to be discharged per 24 hour period (in cubic meters), and the beginning and ending dates between which discharges may occur the first year of the permit;	Average:	740m3
	Maximum:	800m3
	Startup Date:	22 Jun 2022
	Ending date:	9 Oct 2022

[3] Name or identification as used in VSSP and Waste Water Discharge Logbook.
[4] Vertical distance from the vertical centerline of the discharge port relative to the standard (loaded) conditions waterline.
[5] Treated wastewater discharge pump for the named discharge port. For vessels with variable speed / capacity pumps identify the effective discharge capacities. For vessels with more than one pump simultaneously operated identify the total effective pump capacities.
[6] Parallel with the Vertical Longitudinal Center Plane orientation of the hull orientation angle defined as the angle in degrees between the horizontally perpendicular projected line originating from the vertical longitudinal center plane of the hull self to the center of the discharge port, and the projected perpendicular line originating from the port center self (face) vertically directed to the center plane of the hull (Y-Y axis).
[7] Parallel with the Vertical Longitudinal Center Plane orientation of the hull orientation angle defined as the angle in degrees between the horizontally perpendicular projected line originating from the vertical longitudinal center plane of the hull self to the center of the discharge port, and the projected perpendicular line originating from the port center self (face) horizontally directed to the vertical center plane of the hull (X-X axis).

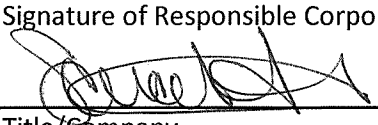
The type, number, and combined maximum design capacity in cubic meters per 24 hour period of all advanced wastewater treatment systems (AWTS) onboard;	Type (s) (including manufacturer, model name, model number, and year built):	Scanship AWP R 106 2005
	Number of AWTS:	1
	Combined design capacity:	740m3 – 800m3 per 24 hours
Type(s) of sewage treatment and system capacity in cubic meters per 24 hour period;	Type (s) (including manufacturer, model name, model number, and year built): Scanship AWP R 106 Combined design capacity: 740m3 – 800m3 per 24 hours	
Type(s) of graywater treatment and system capacity in cubic meters per 24 hour period;	Type (s) (including manufacturer, model name, model number, and year built): Scanship AWP R 106 Combined design capacity: 740m3 – 800m3 per 24 hours	
Average volume of sewage generation per day in cubic meters;	570m3	
Maximum volume of sewage generation per day in cubic meters;	800m3	
Average graywater generation per day in cubic meters for the following sources;	Accommodations: 200 Galley: 165 Laundry: 165 Other (list types and volumes): Pools, Deck Wash - 40	
Maximum graywater generation per day in cubic meters for the following sources;	Accommodations 225 Galley 180 Laundry 180 Other (list types and volumes): Pools, Deck Wash - 50	

The method of handling and disposal of sludge and biosolids produced from the treatment of sewage and graywater.

Bio-sludge Discharges are allowed when greater than (>) 12NM from nearest land and from Restricted areas.

Signature and Certification for NOI

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature of Responsible Corporate Officer	Printed Name
	Sarah Ferguson-Brown
Title/Company Sr. Director, Environmental Operations, Norwegian Cruise Line	Date

Submit this Notice of Intent to:

Commercial Passenger Vessel Environmental Compliance Program
Division of Water
Alaska Dept. of Environmental Conservation
PO Box 111800
Juneau, AK 99811-1800