



THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

Department of Environmental  
Conservation

DIVISION OF WATER

Commercial Passenger Vessel Environmental Compliance  
410 Willoughby Ave, Ste 303  
PO Box 111800  
Juneau, Alaska 99811-1800  
Main: 907-465-5300  
Fax: 907-465-5274  
[www.dec.alaska.gov](http://www.dec.alaska.gov)

March 31, 2016

George Wright  
Princess Cruise Line, Ltd.  
24305 Town Center Drive  
Santa Clarita, CA 91355

ADEC File Number 920.45.022

Re: **Authorization to Discharge 2013DB0004-0020, Island Princess**

Dear Mr. Wright:

The Alaska Department of Environmental Conservation (DEC) authorizes operation of the *Island Princess* under the Large Commercial Passenger Vessel Wastewater Discharge General Permit No 2013DB0004 (hereinafter 2014 GP), and has issued the enclosed Authorization 2013DB0004-0020.

DEC reviewed your Notice of Intent (NOI) that Princes Cruise Line submitted on March 10th, 2016 for the *Island Princess*. The Department has determined that additional conditions are required for authorization. On initial review, the *Island Princess* slightly exceeded the maximum mixing zone size for ammonia. The Department was able to model the ship with a sufficient mixing zone by eliminating 2009 sample data from the dataset. Ammonia sampling was reduced in the 2014 GP to twice a year, however the Department has determined that additional ammonia sampling is needed in the first year of operation under the new GP to verify compliance with the mixing zone modeling. The *Island Princess* will be required to take two ammonia samples a month in May and June and should the results confirm the modeling, the sampling for ammonia will be allowed to drop to once a month for July through September in 2016. This does not increase the number of sample events required in the 2014 GP for the *Island Princess*, as sampling for some parameters are required twice a month.

DEC authorizes the *Island Princess* for underway discharge of treated wastewater into Alaska marine waters. The *Island Princess* must take samples and meet the effluent limits found in Tables 3 and 5 of the 2014 GP. All other permit conditions and deadlines must be met.

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Director of Water, 410 Willoughby Ave., Suite 303, P.O. Box 111800, Juneau, Alaska 99811-1800, within 15 days of receipt of the permit decision. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Ave., Suite 303, P.O. Box 111800,

Juneau, Alaska 99811-1800, within 30 days from the date of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

If you have any questions concerning this authorization, please contact me at [ben.white@alaska.gov](mailto:ben.white@alaska.gov) or (907) 465-5320.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ben White", written in a cursive style.

Ben White  
CPVEC (Cruise Ship) Program Manager

Enclosure: Authorization 2013DB0004-0020





## AUTHORIZATION TO DISCHARGE

Alaska Department of  
Environmental  
Conservation  
Division of Water  
CPVEC Program

AUTHORIZATION TO DISCHARGE UNDER THE LARGE COMMERCIAL PASSENGER  
VESSEL WASTEWATER DISCHARGE GENERAL PERMIT NO. 2013DB0004

**FACILITY ASSIGNED AUTHORIZATION NUMBER: 2013DB0004-0020**

**GENERAL PERMIT NUMBER: 2013DB0004**

See this General Permit for all permit requirements.

The following facility is authorized to discharge in accordance with the terms of the State of Alaska General Permit 2013DB0004 and any specific requirements listed in this authorization.

The authorization effective date is **March 31, 2016**.

The authorization to discharge shall expire at midnight, **on the expiration or termination date of General Permit 2013DB0004 (August 28, 2019)** unless notified by the Department.

The permittee must reapply for an authorization when the Department issues a General Permit that replaces 2013DB0004 if the permittee intends to continue operations and discharges from the facility.

### SECTION 1 - RESPONSIBLE PARTY INFORMATION

Issued to:	Princess Cruise Line, Ltd.
------------	----------------------------

### SECTION 2 - FACILITY INFORMATION

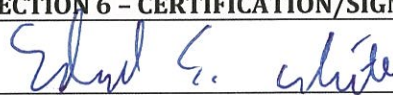

ADEC File Number:	920.45.022
Authorization Number	2013DB0004-0020
Facility Name:	Island Princess
Type of Facility	Large Commercial Passenger Vessel
Type of Wastewater Authorized for Discharge:	Treated mixed, black and greywater.
Type of Wastewater Treatment System:	Hamworthy Membrane Bioreactor MBR (USCG Type II)
Type of Authorization:	Authorized for underway discharge of wastewater treated through a Hamworthy Membrane Bioreactor MBR (USCG Type II) wastewater treatment system configuration as approved by the Department in the current Vessel Specific Sampling Plan.

SECTION 3 – REGULATED DISCHARGE INFORMATION – EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS	
<b>Effluent Compliance Point:</b>	Wastewater effluent sampling port(s) identified in the Department approved Vessel Specific Sampling Plan.
<b>Effluent Limitations</b>	Table 3 of the General Permit
<b>Special Conditions:</b>	The <i>Island Princess</i> is authorized to discharge treated wastewater into Alaska marine waters while underway at speeds above 6 knots.
<b>Monitoring Requirements</b>	Table 5 of the General Permit, additional ammonia sampling as specified in Section 5 of this authorization, and any other applicable monitoring requirements in the General Permit.
<b>Discharge Monitoring Report (DMR)</b>	The <i>Island Princess</i> must submit a monthly DMR with effluent limits that is available on the Department's website: ( <a href="http://dec.alaska.gov/water/cruise_ships/gp/2014gp.html">http://dec.alaska.gov/water/cruise_ships/gp/2014gp.html</a> ) or on a similar form approved by the Department.

SECTION 4 – RECEIVING AREA INFORMATION-RECEIVING WATER	
<b>Receiving Area Name:</b>	Marine waters of the state of Alaska as defined in the General Permit
<b>Underway Mixing Zone Description:</b>	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.
<b>Stationary Mixing Zone Description:</b>	N/A, underway discharge only requested
<b>Skagway Discharge at Ore or Broadway Docks</b>	N/A, underway discharge only requested

SECTION 5 – ADDITIONAL TERMS AND CONDITIONS (GP 4.3.2)	
2016 Ammonia Monitoring	Ammonia monitoring in 2016 will be required twice per month in May and June, and once a month for July-September.

If you have any technical questions regarding this authorization or the requirements of the general permit, please contact the Cruise Program Manager at (907) 465-5320.

SECTION 6 – CERTIFICATION/SIGNATURE	
	
<i>Signature</i>	<i>Date</i>
Edward E White	EPS III, CPVEC ADEC
<i>Printed Name</i>	<i>Title</i>



**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):

Operator

Vessel Owner's Business Name: Princess Cruise Line, Ltd.

Mailing Address: 24305 Town Center Drive  
Santa Clarita, CA 91355

Phone: 661-753-2745

Representative: George Wright

Email: gwright@hagroup.com

**Vessel Owner's or Operator's Alaska Agent Information**

Company Name: Cruise Line Agencies of Alaska

Mailing Address: 1330 Eastaugh Way #4  
Juneau, AK 99801

Phone: 907-586-1282

Representative: Andrew Green

Email: Juneau@claalaska.com

**Vessel Operator's Business Name if Different From the Owner's Business Name**

Vessel Operator's Business Name: Same as Above for "Vessel Owner Information"

Mailing Address:

Phone:

Representative:

Email:

<b>Vessel Information (Y/N)</b>	
Are you seeking authorization to discharge with a mixing zone?	<b>Y</b>
Are you seeking authorization to discharge while moving at 6 knots or greater?	<b>Y</b>
Are you seeking authorization to discharge while moving at under 6 knots?	<b>N</b>
Are you seeking authorization to discharge while in Skagway at Broadway or Ore Docks?	<b>N</b>
<b>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.</b>	
Vessel Name:	Island Princess
Vessel IMO Number:	9230402
Vessel Gross Tonnage:	92822
Port of Registry:	Hamilton, Bermuda
Maximum Passenger Capacity per Voyage:	2390
Maximum Crew Capacity per Voyage:	900
Vessel Draft <sup>1</sup> :	8.5 meters
Vessel Length in Meters at Waterline <sup>2</sup> :	294 meters
<b>Vessel Tracking</b>	
Method of submitting hourly vessel tracking information while in Alaskan waters (Marine Exchange of Alaska AIS or other Department approved method):	
Name, physical address, and mailing addresses of the service:	Marine Exchange of Alaska 1000 Harbor Way Suite 204 Juneau, AK 99801
Contact's name, email address, and phone number:	Marine Exchange of Alaska 907-463-2607 <a href="mailto:OPS1@MXAK.ORG">OPS1@MXAK.ORG</a>

<sup>1</sup> 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.)

<sup>2</sup> Length of Waterline (LWL) under normal load in standard Alaska conditions.



<b>Discharge Port Characteristics</b>			
<b>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.</b>			
Discharge Port Name <sup>3</sup> :	Discharge Port C	Location (Starboard/Port):	Port Side, frame 143
Discharge Port Internal Diameter:	60 mm	Discharge Port Centerline Vertical Distance from Keel:	2.85 meters
Discharge Port Distance from Bow at Waterline (normal load):	136.98 meters	Discharge Port Centerline Vertical Distance from Waterline (normal load) <sup>4</sup> :	5.10 meters
Discharge Port shape (round, oval, square):	Round	Discharge Port Pump Capacity (m <sup>3</sup> /hr) for each Pump <sup>5</sup> :	30 m3/h
Discharge Port Vertical Angle Relative to Waterline <sup>6</sup> :	-9 Deg	Discharge Port Horizontal Angle Relative to Centerline <sup>7</sup> :	92.12 Deg

<b>Wastewater Discharge Information</b>		
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:	1,110 m3
	Maximum:	1,110 m3
	Startup Date:	05/12/2016
	Ending date:	09/13/2016

<sup>3</sup> Name or identification as used in VSSP and Waste Water Discharge Logbook.

<sup>4</sup> Vertical distance from the vertical centerline of the discharge port relative to the standard (loaded) conditions waterline.

<sup>5</sup> 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.

<sup>6</sup> 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).

<sup>7</sup> 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):	Hamworthy Membrane Bioreactor
	Number of AWTS:	2
	Combined design capacity:	640 m3
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):	Hamworthy Membrane Bioreactor Combined design capacity: 640 m3
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):	Hamworthy Membrane Bioreactor Combined design capacity: 640 m3
Average volume of sewage generation per day in cubic meters;	200 m3	
Maximum volume of sewage generation per day in cubic meters;	200 m3	
Average graywater generation per day in cubic meters for the following sources;	Accommodations: 500 m3 Galley: 250 m3 Laundry: 160 m3 Other (list types and volumes):	
Maximum graywater generation per day in cubic meters for the following sources;	Accommodations: 500 m3 Galley: 250 m3 Laundry: 160 m3 Other (list types and volumes):	



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

The desludging of MBR systems will be performed greater than 12 nautical miles off shore.

**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

George Wright

Title/Company

Senior Vice President, Marine Services

Date

10 March, 2016

**Submit this Notice of Intent to:**

Commercial Passenger Vessel Environmental Compliance Program  
Division of Water  
Alaska Dept. of Environmental Conservation  
410 Willoughby Avenue, Suite 303  
PO Box 111800  
Juneau, AK 99811-1800