



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

July 16, 2021

Stanislav Kozhuharov
Silversea Cruises
7 Rue du Gabian MC-98000 Monaco

Re: Authorization to Discharge 2013DB0004-00XX0029: Silver Muse

Dear Mr. Kozhuharov:

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) for the Silver Muse discharge of treated wastewater into Alaska marine waters and is hereby issuing a wastewater discharge authorization number 2013DB0004-0029.

The discharge from this vessel is authorized in accordance with the terms and conditions of the general permit and any site-specific conditions in this document.

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

The authorization letter effective date is 7/16/2021.

The following are vessel specific conditions:

- 1) Treated wastewater discharge is only authorized when the ship is operating at speeds of 6 knots or greater.
- 2) Mixing Zone: A 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 Part 5.2.
- 3) Whole Effluent Toxicity (WET) Testing is required monthly on effluent samples once per month during the first and third year operating in Alaska waters. See Permit Part 6.9.4.
- 4) Discharge from both ports simultaneously is prohibited.

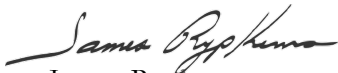
The permittee is reminded of the following permit requirements, and is responsible for all submissions and activities in the Permit even if they are not summarized below:

- 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 by March 1 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.
- Underway sampling requirements for discharges underway at speeds greater than 6 knots and effluent limits can be found in Tables [3](#) and [5](#) 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 2013DB0004-0029 and vessel name in all future correspondence. If you have any questions regarding the above, please contact Willow Weimer at 907-269-6096, or via email at Willow.Weimer@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):

[Operator](#)

Vessel Owner's Business Name: [Silver Muse Shipping Co. Ltd.](#)

Mailing Address:

[Sassoon House, Shirley Str. & Victoria Ave., POB SS-5383, Nassau, The Bahamas](#)

Phone:

[+377 97702442](#)

Representative: [Mr. Roberto Martinoli](#)

Email: r.martinoli@silversea.com

Vessel Owner's or Operator's Alaska Agent Information

Company Name: [Cruise Line Agencies of Alaska](#)

Mailing Address:

[55 Schoenbar Court, 101, Ketchikan, AK 99901, USA](#)

Phone:

[+1 907 225 0999](#)

Representative: [Mr. John Kimmel](#)

Email: johnk@claalaska.com

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

Vessel Operator's Business Name: [Silversea SAM](#)

Mailing Address:

[Gildo Pastor Centre, 7 Rue du Gabian, Monaco, 98000 MC](#)

Phone:

[+377 97702442](#)

Representative: [Mr. Roberto Martinoli](#)

Email: r.martinoli@silversea.com

Vessel Information (Y/N)	
Are you seeking authorization to discharge with a mixing zone?	Y
Are you seeking authorization to discharge while moving at 6 knots or greater?	Y
Are you seeking authorization to discharge while moving at under 6 knots?	N
Are you seeking authorization to discharge while in Skagway at Broadway or Ore Docks?	N
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.	
Vessel Name:	Silver Muse
Vessel IMO Number:	9784350
Vessel Gross Tonnage:	40791
Port of Registry:	Nassau
Maximum Passenger Capacity per Voyage:	596 based on lower berths (660 based on safety certificate / equipment)
Maximum Crew Capacity per Voyage:	444 (380 based on safety certificate)
Vessel Draft ¹ :	a) 6.70m b) 5.99m
Vessel Length in Meters at Waterline ² :	202.8 m
Vessel Tracking	
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:	Based on guidelines by DEC (Alaska Department of Environmental Conservation)
Contact's name, email address, and phone number:	Sarah Mutter (DEC) sarah.mutter@alaska.gov +907 465 5138

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 :	"Ballast Water Overboard", valve AZ/067VF, for discharge of both: (1) treated effluent (from Grey and Black Water) via the ballast system / holding tanks (item HP/305CE, pos.29 on dry-dock plan) OR (2) AWWTP treated effluent (directly from AWWTP Scanship after treatment process)	Location (Starboard/Port):	Portside (Fr 129), DK#1, FWD A/C Compressor Rm <i>(Sampling point installed about 7m before o/b discharge valve)</i>
Discharge Port Internal Diameter:	ND 150mm	Discharge Port Centerline Vertical Distance from Keel:	2.2 m
Discharge Port Distance from Bow at Waterline (normal load):	97 m	Discharge Port Centerline Vertical Distance from Waterline (normal load) ⁴ :	4.5 m
Discharge Port shape (round, oval, square):	Round	Discharge Port Pump Capacity (m ³ /hour) for each Pump ⁵ :	150 m ³ /h max if from GW/BW Holding / Ballast tanks system OR 35 m ³ /h (each pump, 2 pumps) if directly from the AWWTP treatment process
Discharge Port Vertical Angle Relative to Waterline ⁶ :	0	Discharge Port Horizontal Angle Relative to Centerline ⁷ :	90

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).

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 :	AWWTP overboard, Dedicated Overboard Valve for discharge of treated effluent directly from AWWTP	Location (Starboard/Port):	Auxiliary Room (Osmosis Room), Deck-1, MVZ-2, Fr. 153 Port Side, behind AWWTP UV module (entrance from Main Laundry) (Sampling point installed before o/b discharge valve – between “Non-return valve” (skin/hull) and “Check-valve”)
Discharge Port Internal Diameter:	90 mm	Discharge Port Centerline Vertical Distance from Keel:	2.7 m
Discharge Port Distance from Bow at Waterline (normal load):	66.7 m	Discharge Port Centerline Vertical Distance from Waterline (normal load) ⁴ :	3.9 m
Discharge Port shape (round, oval, square):	Round	Discharge Port Pump Capacity (m ³ /hour) for each Pump ⁵ :	35 m3/h (each pump, 2 pumps)
Discharge Port Vertical Angle Relative to Waterline ⁶ :	0	Discharge Port Horizontal Angle Relative to Centerline ⁷ :	90

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).

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:	295 m3/day
	Maximum:	340 m3/day
	Startup Date:	13 May 2020
	Ending date:	13 September 2020
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-25, 2017
	Number of AWTS:	1
	Combined design capacity:	375 m3 per day
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-25 2017 Combined design capacity: 375 m3 per day	
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-25 2017 Combined design capacity: 375 m3 per day	
Average volume of sewage generation per day in cubic meters;	35 m3	
Maximum volume of sewage generation per day in cubic meters;	40 m3	
Average graywater generation per day in cubic meters for the following sources;	Accommodations: 120 m3 Galley: 90 m3 Laundry: 60 m3 Other (list types and volumes): N/A	
Maximum graywater generation per day in cubic meters for the following sources;	Accommodations 130 m3 Galley 100 m3 Laundry 70 m3 Other (list types and volumes): N/A	

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

Bio Sludge (bio solids) will be discharged in the same way as untreated sewage, outside applicable Alaska waters, when more than 12nm from nearest land (baselines) with a moderate rate of discharge (as per IMO res. MEPC.157 (55)) or delivered to shore reception facilities as available

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

Roberto Martinoli

Title/Company

CEO and President, Silversea cruises

Date

June 11th, 2021

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