



THE STATE
of **ALASKA**
GOVERNOR MICHAEL J. DUNLEAVY

Department of Environmental
Conservation

DIVISION OF WATER

Commercial Passenger Vessel Environmental Compliance
Program

410 Willoughby Ave, Ste 303
PO Box 111800
Juneau, Alaska 99811-1800
Main: 907-465-5300
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March 11, 2019

Mr. Leonardo Morotto
Silversea Cruises SAM
2, Les Industries, 4th floor
5, Rue du l'Industrie
Monaco MC98000

ADEC File Number 920.45.073

Re: **Authorization to Discharge 2013DB0004-0029, Silver Muse**

Dear Mr. Morotto:

The Alaska Department of Environmental Conservation (DEC) authorizes continued operation of the *Silver Muse* under the Large Commercial Passenger Vessel Wastewater Discharge General Permit No 2013DB0004 (hereinafter 2014 GP), and has issued the enclosed Authorization 2013DB0004-0029.

DEC reviewed your Notice of Intent (NOI) and other related documentation that Silversea Cruises submitted on February 26, 2019 for the *Silver Muse*. Based upon that review and previous performance of the Scanship AWTS on other ships, DEC authorized the *Silver Muse* for underway discharge of treated wastewater into Alaska marine waters. The *Silver Muse* must take samples and meet the effluent limits found in Tables 3 and 5 of the 2014 GP if discharging into Alaskan waters. All other permit conditions and deadlines must be met. Any changes made to the wastewater treatment installation or sampling port must be reported in an updated Vessel Specific Sampling Plan (VSSP) prior to sampling.

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 technical questions concerning this authorization, please contact me at edward.white@alaska.gov or (907) 465-5138.

Sincerely,

A handwritten signature in black ink that reads "Edward G. White". The signature is written in a cursive style with a large initial "E" and a distinct "G" and "W".

Edward White
CPVEC (Cruise Ship) Program Manager

Enclosure: Authorization 2013DB0004-0029



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: 2013DB0004-0029

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 11, 2019**.

The authorization to discharge shall expire at midnight, **on the expiration or termination date of General Permit 2013DB0004** 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:	Silversea Cruises Ltd
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SECTION 2 - FACILITY INFORMATION

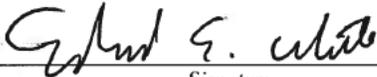
ADEC File Number:	920.45.073
Authorization Number	2013DB0004-0029
Facility Name:	Silver Muse
Type of Facility	Large Commercial Passenger Vessel
Type of Wastewater Authorized for Discharge:	Treated Wastewater (Blackwater and Graywater)
Type of Wastewater Treatment System:	Scanship AWTS (AWP-25, 2017)
Type of Authorization:	Authorized for underway discharge of wastewater treated through the Scanship 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	
Effluent Compliance Point:	Wastewater effluent sampling port(s) identified in the Department approved Vessel Specific Sampling Plan.
Effluent Limitations	Table 3 of the General Permit.
Special Conditions:	The <i>Silver Muse</i> is authorized to discharge treated wastewater into Alaska marine waters while underway at speeds above 6 knots.
Monitoring Requirements	Table 5 of the General Permit, and any other applicable monitoring requirements in the General Permit
Discharge Monitoring Report (DMR)	The <i>Silver Muse</i> must submit a monthly DMR with effluent limits that is available on the Department's website: (http://dec.alaska.gov/water/cruise_ships/gp/2014gp.html) or on a similar form approved by the Department.

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

SECTION 5 - ADDITIONAL TERMS AND CONDITIONS (GP 4.3.2)	
None	

If you have any technical questions regarding this authorization or the requirements of the general permit, please contact the ADEC Cruise Ship Program Manager at (907) 465-5138.

SECTION 6 - CERTIFICATION/SIGNATURE	
 _____ <i>Signature</i>	3/11/2019 _____ <i>Date</i>
Edward E White _____ <i>Printed Name</i>	EPM I, CPVEC ADEC _____ <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: Silversea New Build Six Ltd.	
Mailing Address: Sassoon House, Shirley Str. & Victoria Ace., Nassau, The Bahamas	Phone: [REDACTED]
Representative: Mr. Roberto Martinoli	Email: [REDACTED]
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: [REDACTED]
Representative: Mr. John Kimmel	Email: [REDACTED]
Vessel Operator's Business Name if Different From the Owner's Business Name	
Vessel Operator's Business Name: Silversea Cruises Ltd	
Mailing Address: Gildo Pastor Centre, 7 Rue du Gabian, Monaco, 98000 MC	Phone: [REDACTED]
Representative: Mr. Andrea Zito	Email: [REDACTED]

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)
Maximum Crew Capacity per Voyage:	417 (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:	Marine Exchange of Alaska AIS 1050 Harbor Way Juneau, Alaska 99801
Contact's name, email address, and phone number:	Ryck Sypeck (Administrative Assistant) e-mail: [REDACTED]@K.ORG tel: 907 [REDACTED]

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 treated effluent (from Grey and Black Water) via the ballast system / holding tanks (item HP/305CE, pos.29 on dry-dock plan)	Location (Starboard/Port):	Portside (Fr 129), DK#1, FWD A/C Compressor Rm (Sampling point installed before o/b discharge valve)
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
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:	305 m3/day
	Maximum:	340 m3/day
	Startup Date:	23 May 2019
	Ending date:	15 September 2019
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 ways 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 (Vancouver, BC)

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



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**