## 2009 Large<sup>1</sup> Commercial Passenger Vessel Discharge Status and Wastewater Treatment

Vessel Operator	Vessel Name	Passenger Capacity	Voyages	Total Passengers <sup>6</sup>	Crew Capacity	Total Persons on Board <sup>2</sup>	Blackwater (BW) Treatment System Manufacturer	Permitted to discharge in Alaska	
								BW	GW
Carnival Cruise Lines	Carnival Spirit	2400	16	38,400	934	3334	Triton/Rochem	Yes	Yes <sup>4</sup>
Celebrity Cruises	Infinity	2449	19	46,531	930	3379	Zenon	No	No
Celebrity Cruises	Mercury	1876	19	35,644	909	2785	Biopure/Rochem	No	No
Celebrity Cruises	Millennium	2449	18	44,082	1001	3450	Hydroxyl Cleansea	No	No
Crystal Cruises	Serenity	1040	1	1,040	Unknown	1040+Crew	Unknown	No	No
Fred Olsen	Balmoral	1360	1	1,360	Unknown	1360+ crew	Scanship	No	No
Holland America	Amsterdam	1380	20	27,600	647	2027	Unknown	No	No
Holland America	Ryndam	1260	20	25,200	602	1862	Zenon	Yes	Yes
Holland America	Statendam	1258	20	25,160	588	1846	Zenon	Yes	Yes
Holland America	Veendam	1350	19	25,650	602	1952	Zenon	Yes	Yes
Holland America	Volendam <sup>5</sup>	1432	19	27,208	647	2079	Zenon	Yes	Yes
Holland America	Westerdam	1916	20	38,320	800	2716	Rochem Bio-filtration	No	No
Holland America	Zaandam	1432	21	30,072	647	2079	Zenon	Yes	Yes
Holland America	Zuiderdam	1916	20	38,320	Unknown	1916+crew	Rochem Bio-filtration	No	No
Japan Cruise Line	Pacific Venus	680	1	680	Unknown	680 + crew	Unknown	No	No
Norwegian Cruise Lines	Norwegian Pearl	2376	19	45,144	1100	3476	Scanship	Yes	Yes
Norwegian Cruise Lines	Norwegian Star	2240	21	47,040	1100	3340	Scanship	Yes	Yes
Norwegian Cruise Lines	Norwegian Sun	2002	20	40,040	950	2952	Scanship	Yes	Yes
Princess Cruise Line	Coral Princess	1970	18	35,460	900	2800	Hamworthy Bioreactor	Yes	Accommodations Or
Princess Cruise Line	Diamond Princess	2678	18	48,204	1238	3916	Hamworthy Bioreactor	Yes	Accommodations Or
Princess Cruise Line	Golden Princess	2598	20	51,960	1060	3658	Hamworthy Bioreactor	Yes	Accommodations Or
Princess Cruise Line	Island Princess	1970	18	35,460	900	2870	Hamworthy Bioreactor	Yes	Accommodations Or
Princess Cruise Line	Pacific Princess	688	9	6,192	374	1062	Hamworthy Bioreactor	Yes	Accommodations Or
Princess Cruise Line	Sapphire Princess	2678	19	50,882	1238	3916	Hamworthy Bioreactor	Yes	Accommodations On
Princess Cruise Line	Sea Princess	2016	11	22,176	854	2870	Hamworthy Bioreactor	Yes	Accommodations Or
Princess Cruise Line	Star Princess	2598	19	49,362	1150	3748	Hamworthy Bioreactor	Yes	Accommodations On
Regent	Seven Seas Mariner	700	17	11,900	431	1131	Hamworthy Bioreactor	Yes	Yes
Royal Caribbean Cruises Ltd.	Radiance of the Seas	2501	18	45,018	859	3360	Hamman	Yes	Yes
Royal Caribbean Cruises Ltd.	Serenade of the Seas	2100	20	42,000	850	2950	Scanship	Yes	Yes
Royal Caribbean Cruises Ltd.	Rhapsody of the Seas	2435	19	46,265	Unknown	2435+crew	Hamman	No	No
Silver Seas	Silver Shadow	382	12	4,584	305	687	Biopure/Marisan	Yes	Yes
World	Residensea	600	2	1,200	Unknown	600+ Crew	Scanship	No	No

In Orange- These vessels were permitted by DEC to discharge but stopped discarging at beginning of season or did not discharge in 2009.

In Grey- These vessels registered to not discharge in Alaska waters during the 2009 season.

<sup>&</sup>lt;sup>1</sup>A large vessel has overnight accommodations for 250 or more passengers.

<sup>&</sup>lt;sup>2</sup>Capacity is calculated from Registration, Vessel Specific Sampling Plan, or Notice of Intent. Actual number of passenger aboard varies dependent upon sales.

<sup>&</sup>lt;sup>3</sup> Alaska water includes the Alexander Archipelago and extends 3 miles from the coastline. Only vessels that discharge into Alaska waters are required to meet wastewater sampling and reporting requirements.

<sup>&</sup>lt;sup>4</sup> Galley graywater not discharged

<sup>&</sup>lt;sup>5</sup> Stopped discharging in Mid-May

<sup>&</sup>lt;sup>6</sup> Assumes full capacity on every voyage