



## Potential Responsible Party

Name/Business	Holland America
Vessel Name	Amsterdam
Mailing Address	Hollandamerica.com
Contact Name	Paul Simpson- EO
Is PRP Vessel Aware of Incidents	Yes
Will Vessel Be Self Reporting Incident to ADEC-SPAR	Don't know
Remarks	On going scrubber surface scum film produces a silver gray sheen appearance. From open loop scrubber discharging through two sets of filters in series. Information from company - micro bubbles from "chemical reaction" and carbon dioxide purportedly contributes to surface effect in combination with resident organic material.

## Reporting Party Information

Report Date	Jun 29, 2018
Person Reporting	Eric Clock
Vessel Stationed Aboard	Holland Amsterdam
Vessel Code	HAM
Trip Type	VO

## Spill Information

Date & Time of Spill	Jun 29, 2018 12:10:00 PM AKDT
Date & Time Discovered	Jun 29, 2018 12:10:00 PM AKDT
Description of Location	Starboard side aft of lifeboat number 13.
Latitude	55deg20.362N
Longitude	131deg.38.878W
Substance Type	PW - Process Water
Product Spilled	Unknown substance forming silver gray surface sheen.
Spilled Quantity	Unknown
Spilled UOM	Unknown
Affected Area (number)	20
Affected UOM	Sq Feet
Color And Appearance	Silver/Gray
Source of Spill	Exhaust gas cleaning system scrubber water outflow from open loop system.
Is it a greater than 400GT Vessel?	Yes
Cause of Spill	Normal scrubber operations.
Cleanup Actions	None
Comments	Lloyd's technician sampled outflow water this morning for ph sampling along with the ships

scrubber engineer and a Carnival cruise line executive. The Carnival executive showed me a close up video that he took of the out flow bubbles and pointed out that the water outflow entering the seawater was clear except for the entrained gas bubbles.

## Photos

Photo 1

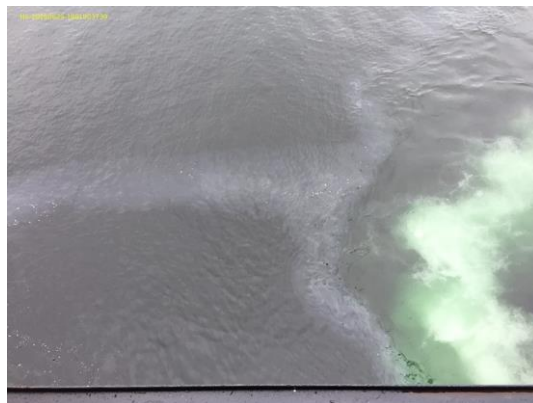


Photo 1 Comments

Silver gray surface effect scum from scrubber outflow. Appears sheen like. June 29, at 06:40.

Photo 2

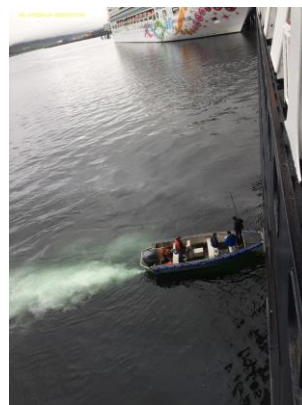


Photo 2 Comments

Lloyd's sampler at scrubber outflow along with a ships engineer and Carnival cruise line employee. June 29, at 08:21.

Photo 3

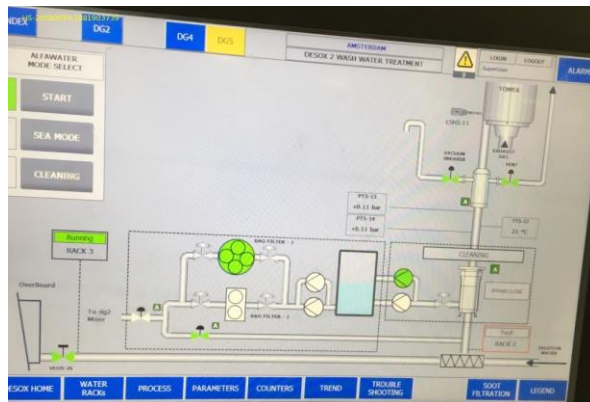


Photo 3 Comments

Scrubber monitor showing self cleaning filter feeding into soot trap and then duplex type of bag filter system.