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Mr. Douglas Smith
PropShine

e-mail: doug.smith@propshine.co.za

20 August 2020

Dear Douglas

RE: EFFLUENT DISCHARGE FROM

We refer to our preliminary evaluation of the operations of the Prop Shine in water hull cleaning operations undertaken on 20 August 2020. Three rapid analyses of intake waters and effluent from the screening and remediation cart were undertaken using a Hannah HI 9829 probe, suitable for sea water use. The area of operation was Berth 101, Durban and the subject of operations was the quayside, where some barnacles, bio film and related sedentary organisms were present. A strong south westerly wind was blowing and high tide was at 14:13 (2.7m). Cleaning operations commenced at 16.15.

Test 1	unit	Intake	effluent
Total dissolved solids	ppm	24	15.4
pH		7.6	7.7
salinity	ppm	34.2	32
temperature	°C	20.8	20.8

Test 2	unit	intake	effluent
Total dissolved solids	ppm	47	30
pH		7.6	7.4
salinity	ppm	35.6	35.1
temperature	°C	21.1	21.1

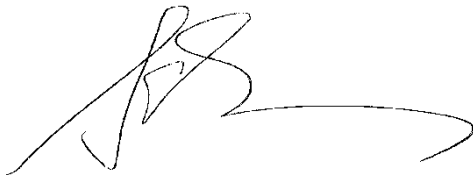


Test 3	unit	intake	effluent
Total dissolved solids	ppm	51	31
pH		7.3	7.6
salinity	ppm	34.4	34.3
temperature	°C	21.1	21.0

The above preliminary results indicate that the third stage component of the reclaim system does remediate dissolved materials arising from the cleaning process and improves effluent water quality. The additional 50 and 25 µm sieves, as well as the UV lighting ensure that this system should meet and possibly exceed the IMO requirements for ballast water.

I trust that the above is of value.

Kind regards



Simon Bundy (*Pr.Sci.Nat Ecol*)