

APPENDIX
U. S. Coast Guard Approval Number: 159.015/10226/1
Expires: 29 September 2028

TEST DATA AND RESULTS OF TESTS CONDUCTED ON SAMPLES FROM THE SEWAGE TREATMENT PLANT IN
ACCORDANCE WITH IMO RESOLUTION MEPC.227(64)

Sewage Treatment Plant, Type II Marine Sanitation Device

Manufactured by: SHS Tech, LLC

Organization conducting the test: TEi Testing Services/Models I-70, Rep. No. TS-P2301238 dated July 24, 2023, and I-1000, Rep. No. TS-P1701012 dated November 6, 2017

	<u>I-70</u>	<u>I-1000</u>
Designed hydraulic loading:	0.76 m3/day	3.79 m3/day
Designed organic loading:	1.09 kg/day BOD	4.08 kg/day BOD
Number of effluent samples tested:	40	40
Number of influent samples tested:	40	40
Raw sewage (influent) quality:	688 mg/l Total Suspended Solids	612 mg/l Total Suspended Solids
Maximum hydraulic loading:	38 m3/day	1.90 m3/day
Minimum hydraulic loading:	0.076 m3/day	0.379 m3/day
Average hydraulic loading:	0.152 m3/day	0.758 m3/day
Total Nitrogen influent quality:	Not Evaluated	Not Evaluated
Total Phosphorus influent quality:	Not Evaluated	Not Evaluated
Dilution Compensation Factor (Qi/Qe):	1.0	1.0
Geometric Mean of Total Suspended Solids:	7.0 mg/l	5.0 mg/l
Thermotolerant Coliform Count:	12 tcu/100 ml	3 tcu/100 ml
Geometric Mean of BOD5:	11 mg/l	5.9 mg/l
Chemical Oxygen Demand (COD):	30 mg/l	19 mg/l
Geometric mean of total nitrogen:	Not Evaluated	Not Evaluated
Geometric mean of total phosphorus:	Not Evaluated	Not Evaluated
Maximum pH:	9.1	7.6
Minimum pH:	7.2	6.8
Type of disinfectant used: Chlorine		
Maximum:	1.8 mg/l	0.6 mg/l
Minimum:	0.5 mg/l	0.1 mg/l
Geometric Mean:	0.2 mg/l	0.3 mg/l
Was the sewage treatment plant tested with:		
Fresh Water flushing?	Yes	Yes
Saltwater flushing:	No	No
Fresh and Saltwater flushing:	No	No
Greywater added:	Yes	Yes
Proportion of Greywater:	20% Black to 80% Grey Water	20% Black to 80% Grey Water
Was the sewage treatment plant tested against the environmental conditions specified in section 5.0 paragraph 5.9 of resolution MEPC.227(64):		
Temperature:	Yes	Yes
Humidity:	Yes	Yes
Inclination:	Yes	Yes
Vibration:	Yes	Yes
Reliability of Electrical and Electronic Equipment:	Yes	Yes
Limitations and the conditions of operation are imposed:		
Salinity:	Not Applicable	Not Applicable
Temperature:	Not Applicable	Not Applicable
Humidity:	Not Applicable	Not Applicable
Inclination:	Not Applicable	Not Applicable
Vibration:	Not Applicable	Not Applicable

*** END ***