|  |  |
| --- | --- |
| **SSMED-1702** | **Environmental Testing (As Per the Water Safety Plan)** |
| **Version No.** | 1 |
| **Content Owner** | Vikand Technology Solutions, LLC. |
| **Revision Date** | 22 October 2020 |

|  |  |
| --- | --- |
|  | **Environmental Testing and Monitoring**   * 1. The medical department is responsible for environmental testing, monitoring and documentation of samples provided to them as directed by the Staff Captain. Test dates will be documented on the calendar maintained by the Nurse in the Medical Center, indicating testing to be performed, due dates, expected outcomes and all required reporting listed.  The Coliform & E-Coli water testing consists of bunkered water, potable water & ice testing.  Samples of legionella testing will be collected and sent shore side for analysis.   2. A microbiologic report from each port will be kept in the water testing folder. Microbiological reports from the port are obtained from the Staff Captain via the port agent. |
|  | **Bunker Water Testing**   * 1. Testing and monitoring is performed in all instances on the bunkering of fresh water from ashore.   2. Samples are obtained from ashore as per Silversea Ship Safety Management procedure and signed for in the Medical Center.   3. The Deck Department is responsible for collecting the water samples from the tanks / bunker and taking them to the Medical Center for the Nurses to test.   4. Testing is generally performed by the Nurses, but the Doctor will have a working knowledge of how testing is performed.   5. Document findings on the Potable Water Bunkering Checklist & Log after the entries have been completed by the Carpenter and Engine Department.   6. Positive results for either Coliforms and/or E-Coli are conveyed immediately to the Staff Captain and Chief Engineer.   7. Staff Captain will advise as to where to take new samples for testing.   8. The re-test sample will be obtained as per Company Procedure.   9. Negative results can be conveyed via email to the Staff Captain, Bridge Officer, Doctor, Chief Engineer, Hotel Engineer and Environmental Officer.   10. Deputy Captain to sign document every week and monthly. |
|  | **Legionella Testing**  Please refer to Silversea Water Safety Manual. Legionella water testing is the responsibility of the Deck and Engine Dept. |
|  | **Potable Water Testing**   * 1. Testing is performed once a week and is performed by the Nurse. The Doctor will have a working knowledge of how the testing is performed. The Sanitation Officer will provide list of testing stations.   2. All freshwater tanks will be routinely tested, and findings documented by the Medical Department as per Company policy.   3. Tanks should be tested monthly for E. coli and Coliform.   4. Rotating storage tanks should be tested on an alternating basis.   5. Bacteriological testing will be performed with sampling from different locations throughout the ship.   6. Results are maintained within the Water Test logbook as well as an electronic copy.   7. Positive results are conveyed immediately to the Staff Captain, Hotel Manager, Doctor, F&B Manager and Chief Engineer via email   8. Following disinfection, the nurse will retest the new sample.   9. All results are documented in the Portable Water analysis log and signed by the Nurse, Doctor and the Staff Captain. Results are then emailed to the Staff Captain, Hotel Manager, Doctor, F&B Manager and Chief Engineer. |
|  | **Ice Testing**   * 1. Testing of ice for Coliforms and E. Coli is done with samples taken from an ice-maker machines onboard.   2. Sampling can be performed on all machines at one time or in a staggered fashion.   3. Results are signed by both the Doctor and the Nurse and are maintained in the water testing folder under the Potable water analysis log.   4. Positive results should be conveyed via email according to the email list found in the procedure above, in the Water Testing section.   5. Following disinfection/cleaning, new samples will be re-tested.   6. Re-test results should be conveyed to all parties listed above, as listed in the Water Testing section.   7. Negative results are documented in the potable water analysis log and scanned results are conveyed via email to the Staff Captain, Hotel Manager, Doctor, F&B Manager, Chief Engineer, 2nd Environmental Engineer, Heads of Department. |
|  | **References**  Fleet Operations Manual  Marine Technical Manual  USCG NON-TANK VESSEL RESPONSE PLAN |