



Berth 7 Industrial Wastewater Treatment Plant - Sampling and Testing Procedure

Revision: 1
Revision Date: 1/17/2024

Purpose

This procedure describes the sampling and testing process and requirement of the Berth 7 Industrial Wastewater Treatment Plant under normal operations.

Safety

- Safety glasses are required within the treatment plant building.
- Review SDS for chemicals used during optional chemical treatment operations.

PPE Required

Safety glasses	Gloves (when handling chemicals)
----------------	----------------------------------

Chemicals

Sodium hydroxide, 50%	Sulfuric acid, 93%
Aluminum sulfate (Alum)	Nalco 71257

Procedure – Sampling and Reporting

Notes

Sampling is required twice per month when discharging. Samples are 24-hour composite samples (except for Oil & Grease and pH). The samples are split with Three Rivers Regional Wastewater Authority (TRRWA) at time of collection. The samples are tested for BOD, TSS, Ammonia, Zinc, Copper, Oil & Grease, and pH.

Note: The laboratory picks up samples on Tuesdays and Thursdays, so the composite sampler is typically started on Monday or Wednesday.

1. On the day prior to sample collection, start the composite sampler.	See manual for operation and program information.
2. On the sampler, press the Status button to wake up the display.	Prior to starting, verify the sample tubing is inserted into the top of the carboy.
3. Press the Run/Halt button.	
4. Press the Select button to run the program.	The pump should start running, and you should be able to visually verify that water is flowing through the tubing.
5. After starting the sampler, collect the Oil & Grease sample and pH sample from T-142 or T-145, depending on which tank is being used.	Oil & Grease samples must be collected directly into the amber glass bottle and not transferred from an intermediate vessel.
6. Test the pH on the pH meter and record the results on the daily log sheet.	
7. Store the Oil & Grease sample in the temperature-controlled compartment of the sampler unit next to the carboy.	



Berth 7 Industrial Wastewater Treatment Plant - Sampling and Testing Procedure

Revision: 1
Revision Date: 1/17/2024

8. Contact the laboratory to schedule for sample pick up the following day.	Replacement bottles can also be delivered. Request any bottles that are needed.
9. Contact the TRRWA representative to schedule them to be onsite for the split sample.	TRRWA will bring their own sample bottles.
10. A few hours after starting the sampler, return to verify that sample is being collected in the carboy.	
11. After 24 hours, when ready to collect the sample, Press the Run/Halt button on the sampler to stop the program.	
12. Remove the carboy and agitate it to mix the sample.	
13. Pour the sample into the sample bottles, starting with the TRRWA bottles.	
14. After filling all the required bottles, dump the remaining sample into the sump.	
15. Rinse and return the carboy to the sampler compartment.	
16. Place all the sample bottles into a cooler with ice packs.	
17. Complete a Chain of Custody form for the laboratory and place it in the cooler with the samples.	
18. Deliver the cooler to the drop-off/pick-up box located at the Administration building.	