

Wastewater Treatment Questionnaire



Technology Solutions for Agriculture and Industry

Wastewater Treatment Questionnaire

1. List all known materials that enter the waste stream prior to entering the wastewater treatment system:
2. Supply a flow diagram or sketch of the treatment facility:
3. Include the answers to the following questions regarding the treatment facility:
 - What is/are the:
 - Tank/lagoon sizes or volumes at each step of the treatment process?
Please include the maximum volume and present volume:
 - Retention time in each tank or lagoon:
 - Biochemical oxygen demand (BOD) in each tank or lagoon:
 - Chemical oxygen demand (COD) in each tank or lagoon:
 - Total suspended solids (TSS) level in each tank or lagoon:
 - PH level in each tank or lagoon:
 - Nitrogen and ammonia level in each tank of lagoon:
 - Total phosphorous concentration in each tank or lagoon:
 - At any step in the process are any of the following added, if yes please list:
 - Macronutrients: ☐ carbon ☐ nitrogen ☐ phosphate ☐ other, please specify:
 - Micronutrients: ☐ vitamins ☐ minerals ☐ kelp ☐ yeast
☐ Other, please specify
 - Does the facility regularly test for these parameters: ☐ pH ☐ BOD
☐ COD ☐ TKN ☐ Other, please specify:
 - Is historical data on these parameters available for review? If so, which parameters?
4. Describe any biological or chemical product that is present or was added to this system to reduce COD, BOD, or odors:
5. If additions are made, at what locations are they added, how often are they added and what is the dosage:
6. Are any biocides, disinfectants, algae control chemicals, or sanitizers added to this system:

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7. Describe any odors that are coming from any step in the process. Terms like rotten eggs, manure like, and ammonia are often used:
8. Does the facility use any method to numerically measure odors? If yes, please describe the method. Are historical records available for review?
9. Are the tanks and lagoons aerated? If yes, at which steps in the process:
10. How are the tanks and lagoons aerated:
11. What is the dissolved oxygen level in each aerated tank or lagoon:
12. What is the normal temperature of each tank or lagoon:
13. Obtain the following information for the wastewater influent:
BOD:
COD:
TSS:
PH:
14. Obtain the following information for the wastewater effluent:
BOD:
COD:
TSS:
PH:
15. Describe any fines or penalties the facility is receiving. Examples include fines for ammonia and other nuisance odors, BOD, and fat, oil and grease (FOG) discharge levels. Describe how the fining system works (prorated based on concentration above a limited or flat fine if above the limit):
16. How much is the facility spending on fines, methods to reduce fines, or methods to solve other waste associated problems? Does this amount include odor control products, odor control equipment, or biocides:
17. Are there any problems with settling? Are flocculants currently used:
18. Describe the problem(s) you have been asked to solve: