

## AEROBIC DIGESTER CHECKLIST

Permit # MO-\_\_\_\_\_ Facility \_\_\_\_\_ Date \_\_\_\_\_

1. What is the design sludge flow \_\_\_\_\_gpd
2. What is the average sludge flow to digesters \_\_\_\_\_gpd
3. What are the dimensions of the digesters \_\_\_\_\_
4. How many units are there? \_\_\_\_ Operated in series \_\_\_\_ or parallel \_\_\_\_
5. What treatment processes are generating sludge to the digesters? \_\_\_\_\_
  
6. What is the frequency of pumping sludge to the digester \_\_\_\_\_
7. Is influent sludge pumping: manual \_\_\_\_; automatic \_\_\_\_
8. How many gallons of sludge is wasted from digester / day \_\_\_\_\_
9. What is the frequency of sludge wasting from digester \_\_\_\_\_
10. Is waste sludge from digester pumping: manual \_\_\_\_; automatic \_\_\_\_
11. What is the sludge retention time: \_\_\_\_\_ days
12. Type of aeration equipment used? diffused \_\_\_\_; mechanical \_\_\_\_
13. Is the aeration: conventional \_\_\_\_; pure oxygen \_\_\_\_
14. Are there signs of short-circuiting or dead spots? Yes \_\_\_\_; No \_\_\_\_  
If so, do they radiate from the middle \_\_\_\_ or along the edge \_\_\_\_
15. Is freezing a problem with the aeration process? Yes \_\_\_\_; No \_\_\_\_
- A. Is a separate sedimentation basin \_\_\_\_ or a batch system \_\_\_\_ used for decanting or supernating water from the digester?
- B. How is water decanted? (weir overflow, multi-port withdrawal, single decant pipe, portable pump, etc.) \_\_\_\_\_
18. Safety devices used: guard rails \_\_\_\_; floatation devices \_\_\_\_; lifelines \_\_\_\_\_; lighting \_\_\_\_; other \_\_\_\_\_
19. Is there an approved lockout / tagout program? Yes \_\_\_\_; No \_\_\_\_
20. How often are digesters checked? \_\_\_\_\_
21. What is the solids concentration of raw sludge? \_\_\_\_\_%
22. What is the solids concentration of digested sludge? \_\_\_\_\_%
23. Is there a foaming problem? Yes \_\_\_\_; No \_\_\_\_
24. Odor: septic \_\_\_\_; musty \_\_\_\_; earthy \_\_\_\_; none \_\_\_\_; other \_\_\_\_\_
25. Color: black \_\_\_\_; gray \_\_\_\_; dark brown \_\_\_\_; light brown \_\_\_\_
26. What is the D.O. concentration in aerobic digester? \_\_\_\_\_ mg/l
27. What is the frequency of testing of digesters? \_\_\_\_\_
28. What is the frequency of testing of the decant? \_\_\_\_\_
29. Are operational records maintained? Yes \_\_\_\_; No \_\_\_\_
30. What is the frequency of scheduled maintenance? \_\_\_\_\_
31. Are maintenance records maintained? Yes \_\_\_\_; No \_\_\_\_
32. Does facility maintain adequate spare parts inventory? Yes \_\_\_\_; No \_\_\_\_
33. What are the most common problems the Operator has had with the aerobic digester process? \_\_\_\_\_

Comments: \_\_\_\_\_

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