

SECONDARY CLARIFIER (SEDIMENTATION) CHECKLIST

Permit # MO-_____ Facility _____ Date _____

1. What is the design flow? _____MGD; peak design flow _____MGD
2. What is the actual flow? _____MGD; actual peak flow _____MGD
3. What is the configuration? circular ____; rectangular ____; square ____
4. What are the dimensions: _____; volume: _____
5. Number of units: ____; If multiple units, is flow evenly distributed? Y __ N__
6. Is the detention time and/or hydraulic loading rate within design limits?
Yes ____ No ____
7. How much sludge is pumped from unit? _____ gpd
8. Where is the sludge pumped to? _____
9. What is the depth of sludge in unit? _____ ft.
10. What is the solids concentration of the sludge? _____%
11. Is sludge collection system working properly? Yes __ No __ N/A __
12. Type of sludge collection: mechanical ____; other _____
13. If mechanical, does collector operate: manually ____; auto ____; cont. ____
14. Is sludge pumping/removal: manual ____; automatic ____; continuous ____
15. If manual or automatic, what is the frequency? _____
16. Is the scum collection system working properly? Yes ____; No ____; N/A __
17. Is there an excessive accumulation of scum? Yes ____; No ____
18. Is the appearance of influent: clear ____; green ____; gray ____;
light brown ____; dark brown ____; black ____; other _____
19. Is the appearance of effluent: clear ____; green ____; gray ____;
light brown ____; dark brown ____; black ____; cloudy ____; other ____
20. Are there signs of short circuiting or hydraulic overload? Yes __ No __
21. Are there signs of rising sludge? Yes ____; No ____
22. Are gas bubbles rising to the surface? Yes ____; No ____
23. Does the effluent baffle serve its purpose? Yes ____; No ____
24. Are effluent weirs level? Yes ____; No ____
25. Are effluent weirs kept clean? Yes ____; No ____
26. Are there objectionable odors? Yes ____; No ____
27. Are proper safety precautions used? Yes ____; No ____
28. Identify the sampling locations and method of sampling for:
Influent _____
Effluent _____
Sludge _____
29. Is housekeeping of clarifiers: good ____; fair ____; poor ____
30. Are operational records maintained? Yes ____; No ____
31. What is the frequency of scheduled maintenance? _____
32. Are maintenance records maintained? Yes ____; No ____
33. Does the facility maintain adequate spare parts inventory? Y ____; N ____
34. Is the laboratory equipped for the necessary analyses? Yes ____; No ____
35. Safety features provided: guard rails ____; nonskid surfaces ____; life
preservers ____; lights ____; other _____

- 36. Is there an approved lockout / tagout program? Yes ____; No ____
- 37. Is there an alarm system for the process? Yes ____; No ____
- 37a. (If yes, type: radio telemetry ____; phone dialer ____; local audible/visual ____
- 38. Alternate power source available? Yes ____ No ____
- 38a. If yes, type: station. generator ____; port. generator ____; separate utility ____
- 39. What is the general condition of units? Good ____; Fair ____; Poor ____
- 40. What are the most common problems the Operator has had with the clarifier system? _____

Comments:
