

SAND FILTER 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 recycle rate? _____MGD; ratio: _____
4. Is the filter used as a finishing/polishing unit in the treatment process?
Yes _____; No _____
5. Does recirculation occur? Yes _____; No _____
6. What is the diameter of the recirculation tank? _____
7. Number of filter units _____; Dimension of units _____
8. If multiple units are used, is flow distributed equally? Yes _____; No _____
How is it distributed? _____
9. Are the characteristics of the filter media different in the various units?
Yes _____; No _____; If yes, describe: _____
10. Is operation of the system: manual _____; semi-automatic _____;
automatic _____; computer controlled _____
10. Type of media: rock _____; peat _____; pea gravel _____; crushed glass
_____; other _____
11. Growth color: black _____; dark brown _____; light brown _____;
green _____; other _____
12. Odor: septic _____; musty _____; earthy _____; none _____; other _____
13. Are nozzles buried? Yes _____; No _____
14. Is there evidence of uneven flow distribution? Yes _____; No _____
15. Are any nozzles clogged? Yes _____; No _____
16. Is there evidence of filter clogging, ponding? Yes _____; No _____
17. Are there problems with icing? Yes _____; No _____
18. Is there grass, moss, or other vegetation growing on filter? Y _____; N _____
19. Are influent / recirculating pumps in good working condition?
Yes _____; No _____; N/A _____
21. Are Safety features provided: guard rails _____; nonskid surfaces _____;
lifelines _____; lights _____; other _____
22. Is there an approved lockout / tagout program? Yes _____; No _____
23. Is there an alarm system for the process? Yes _____; No _____
If yes, type: radio telemetry____; phone dialer____; local audible/visual____
24. Alternate power source available? Yes____ No____
If yes, type: station. generator____; port. generator____; separate utility____
25. How often are units checked? _____
26. Are operation reports maintained? Yes _____; No _____
27. What is the BOD loading rate / filter? _____
28. What is the effluent D.O.? _____
29. What is the frequency of scheduled maintenance? _____
30. Are maintenance records maintained? Yes _____; No _____
31. Do units have adequate spare parts inventory? Yes _____; No _____
32. Is sludge storage provided? Yes _____; No _____

- 33. What is the frequency of sludge removal from the facility? _____
- 34. General housekeeping of units: Good ____; Fair ____; Poor ____
- 35. What is the general condition of the sand filter system? G __ F __ P__
- 36. What are the most common problems the Operator has had with the sand filter system? _____

Additional Comments:
