

Permit Number A20020036

Points 50 Class III

Package plants and SBRs will be classified on the basis of each individual component.

eg.3.502 Classification of Municipal Wastewater Treatment Plants

- i) Class I - Individual, single-dwelling houses that treat domestic sewage only.
- ii) Class I - 01 - 25 rating points.
- iii) Class II - 26 - 49 rating points.
- iv) Class III - 50 - 74 rating points.
- v) Class IV - 75 or greater rating points.

3) Classification Factor Rating Points

equivalent population served (1 point per each 2000 population)

equivalent Population shall be calculated as:

Flow in MGD X Influent Biochemical Oxygen Demand (BOD) X 8.34 divided by 0.17. (The maximum rating for this factor shall be 40.)

$$\frac{0.41 \times 250 \times 8.34}{0.17 \times 2000} = 2.51 \text{ (3)}$$

Collection systems:

- 1 lift station, one or more..... (5)
- Vacuum collection system 10

Preliminary Treatment:

- Screens / Bars..... (2)
- Comminutor..... 3
- Grit removal 5

Clarification:

- Primary settling and sludge removal..... 4
- Secondary settling and sludge removal..... (6)

Lagoon/Pond/Natural Systems:

- Stabilization/Holding pond(s)..... 10
- Operated lagoon(s)/Natural systems 12
- Fixed Film Systems (RBCs, trickling filters): 12

Suspended Growth Systems:

- Activated sludge: Mechanical aeration / Diffused air..... (20)
- Pure oxygen 25
- Neutralization..... 5

Tertiary Treatment:

- Chemical treatment (20) *Remove*
- Filtration..... 15
- Nutrient removal 20

Disinfection:

- Chlorine..... (5)
- Ozone 7
- Ultraviolet Light (UVL)..... 5
- De-chlorination (5)

Sludge Treatment:

- Thickening or dewatering 6
- Aerobic digester..... 6
- Anaerobic digester(s) 20
- Drying bed 4
- Chemical conditioning..... 10
- Vacuum / coil filter(s) / centrifuge / composting..... 8
- Sludge heating..... 5
- DAF unit(s) 10
- Sludge lagoon(s) 6

Sludge disposal:

- Land application..... (4)
- Land application of effluent with no direct discharge 6