

**AT-GRADE SEWAGE DISPOSAL SYSTEM
INSPECTION CHECKLIST**

Inspector's Name: _____

I. PRECONSTRUCTION MEETING AND SITE PREPARATION **Date: _____**

- A. MDE Certified At-Grade Installer Name _____
- B. MDE Certified At-Grade installer present for entire construction? Yes _____ No _____
- C. Mound and gravel bed properly staked out on contour (field verified) _____
- D. No compaction by heavy equipment:
 - 1. Within mound perimeter _____
 - 2. Downslope from mound by 25 feet _____
 - 3. Within sewage disposal area _____
- E. Vegetation cut and properly removed _____
- F. Trees, if present, cut off at ground level and stumps left in place _____
- G. Soil moisture level low enough to permit construction and soils are not frozen _____
- H. Soil plowed or scarified within mound perimeter, on contour, and to suitable depth _____
- I. Location of BAT unit(s)/septic tank(s) and pump chamber properly staked out and in suitable locations _____

II. CONSTRUCTION **Date: _____**

- A. **BAT Units and/or Septic Tanks**
 - 1. Total number of tanks _____
 - 2. Tank type and construction meets specifications (i.e. top-seam, baffled, etc.) _____
 - 3. Capacity requirements met _____
 - 4. Proper installation (bedded, level, proper orientation, etc.) _____
 - 5. Inlet and outlet pipes at proper elevations and water tight connections _____
 - 6. Baffles properly installed (if required) _____
 - 7. Effluent screen/filter properly installed _____
 - 8. Tank joints/seams above seasonal high water table _____
 - 9. Tank water tightness checked
 - a. Certified by supplier (attach documentation) _____
 - b. Weep holes in tank walls/bottom sealed if present _____
 - b. 24-hour field leakage test conducted _____
 - c. Proper vacuum test conducted _____
 - d. Riser to tank lids watertight and 6 inches above finished grade _____

B. Pump Chamber

- 1. Dimensions meet specifications _____
- 2. Six-inch block present under pump _____
- 3. Control panel and alarm installed properly _____
- 4. Control panel and alarm meet specifications _____
- 5. Event counter/elapsed time meter/flow meter installed
(if required) _____
- 6. Proper float elevations (on/off/alarm) _____
- 7. Check valve/ quick disconnect/siphon or weep hole present _____
- 8. Proper elevation of influent pipe verified _____
- 9. Pies through tank walls make watertight seal _____
- 10. Valves meet specifications if applicable (gate valve, etc.) _____
- 11. Tank joints/seams above seasonal high water table _____
- 12. Manhole access and risers 6 inches above finished grade _____
- 13. Average day's design flow storage capacity above alarm _____
- 14. Force main diameter as specified on design _____
- 15. High water alarm on separate circuit than pump _____
- 16. Manhole rises to tank lid watertight _____

C. Absorption Area

- 1. Gravel meets size and type specifications _____
- 2. Gravel is clean _____
- 3. Gravel brought to proper elevation prior to placement of laterals _____
- 4. Gravel covers entire bed area _____
- 5. Absorption bed at the proper dimensions _____
- 6. Gravel absorption bed toe level _____
- 7. Minimum of 6 inches of suitable gravel under distribution lateral
and along effective bed width _____

D. Distribution System

- 1. Pressure rated pipes and fittings used _____
- 2. Fitting adequately bonded _____
- 3. Proper diameter of lateral piping _____
- 4. Proper diameter of lateral perforations _____
- 5. Proper spacing of lateral perforations _____
- 6. Perforations oriented downward _____
- 7. End perforation suitable and protected _____
- 8. Two-inches of gravel (minimum) to cover laterals _____
- 9. Distribution system pressure-checked _____

E. **Final Placement of Fill and Topsoil**

- 1. Spun Geotextile fabric covers entire gravel bed _____
- 2. Tapered topsoil cap present: _____
 - a. 12 inches minimum depth _____
 - b. Extends minimum 5 feet beyond edges of gravel bed _____
- 3. Topsoil cover: _____
 - a. Acceptable quality _____
 - b. Present and graded _____
 - c. Seeded/straw/sod _____
 - d. Mulched, if applicable _____
- 4. Sides no steeper than 3:1 slope _____

F. **Monitoring Appurtenances**

- 1. Observation ports/pipes: _____
 - a. Proper diameter, location, and number _____
 - b. Installed to proper depth _____
 - c. Properly anchored and secured _____
- 2. Lateral turn-ups on all laterals and sleeved in larger diameter 4 inch pipes or turf boxes _____

G. **Site Drainage and Proper Grading** (if required)

- 1. Surface water diversion properly installed _____
- 2. Curtain drain properly installed _____
- 3. Vertical drain _____

III. **PUMPING SYSTEM TEST**

Date: _____

- A. Pump-on switch is operational _____
- B. Pump-off switch is operational _____
- C. Timers set (if applicable) _____
- D. High level alarm switch is operational _____
- E. High level alarm on dedicated circuit _____
- F. Volume of drawdown corresponds with specified dose _____
- G. System achieves specified pressure _____

IV. **Comments and As Built Drawing:**