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
   c. 24-hour field leakage 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**

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:**