

APPENDIX E
MUNICIPALITY OF MONROEVILLE
STORMWATER PRODUCT LIST
LAST UPDATED MAY 15, 2015

*** Please note that this list is updated on a continual basis as products are evaluated and is not an exhaustive list. If you desire to use a product not specifically listed please submit literature for a review. This list is provided as a courtesy and the Municipality reserves the right to approve or deny any product on a case-by-case basis.

Inlet Water Quality Inserts (post construction i.e. not applicable to E&S):

Approved:

1. Suntree Technologies - Grate Inlet Skimmer Box
2. Hydro International – Hydro FloGard Plus
3. Fabco Industries - StormBasin

Not Approved:

1. Inlet & Pipe Protection Inc. – IPP Flexstorm Inlet Filters

Water Quality Units:

Approved:

1. Suntree Technologies - Nutrient Separating Baffle Box
2. Baysaver Technologies – BaySeparator
3. Imbrium Systems Inc. - StormCeptor

Not Approved:

1. None to date.

Underground Detention Facilities:

Approved:

1. Pipes ≥ 48 " diameter.
2. Concrete tanks with an unobstructed opening equivalent to 48" diameter to provide physical human entry for inspection and maintenance of the entire facility.

Not Approved:

1. Stone or rock sumps
2. StormTech – StormTech Chambers
3. ACF Environmental – R-Tank HD

4. Invisible Structures Inc. – Rainstore³
5. Atlantis America – RainTank

Other Products:

Approved:

1. None to date.

Not Approved:

1. Best Management Products – SNOUT

APPENDIX F
MUNICIPALITY OF MONROEVILLE
STORMWATER CONSTRUCTION STANDARDS/ INSPECTION PROCEDURES

Site Runoff Characteristics (sites which include grading or paving):

1. Call for an inspection prior to grading to discuss how the site must be graded to drain water to the appropriate inlet, rain garden, etc.
2. Call for an inspection upon completion of grading but prior to construction of concrete or asphalt paving to confirm proper drainage characteristics.

Stormwater Detention Tanks:

Construction Standards:

1. Tanks shall be laid at the minimum slope specified in the design, steeper slopes reduce the volume of the detention facility.
2. Orifice plates shall be bolted securely to the walls and floor and shall be watertight to the walls and floor.
3. The invert of the lowest orifice plate orifice (hole) shall be at the same elevation as the invert of the tank pipe at the outlet structure, not higher, not lower. A higher hole will cause ponding, odor, mosquitoes, and a loss of capacity. A lower hole will result in loss of capacity.
4. The invert of the effluent (outgoing) pipe must be at the same elevation as the invert of the lowest orifice plate orifice (hole) or lower, not higher. A higher hole will cause ponding, odor, mosquitoes, and a loss of capacity.

Inspection Procedures:

1. Call for inspection prior to initiating installation of tank system. The inspector will check pipe slope, diameter, and that the total length of pipe matches the design as construction progresses. Ideally an inspection should be performed once the entire tank system is laid but before backfilled, although it is recognized that in some cases barrels may need laid, inspected, and backfilled in stages which can be accommodated.
2. Call for an inspection prior to installing the orifice plate so that the dimensions can be confirmed. In case the plate is incorrect it can be replaced much easier before installation.
3. Call for a final inspection once the tank, outlet structure, and immediately upstream and downstream manholes or inlets are complete. The inspector or the inspector and contractor will confirm all relevant elevations including at least invert and top

elevations. **The contractor should be ensuring proper elevations during construction.**

Stormwater Detention Ponds:

Construction Standards:

1. Unless stipulated in the design the pond bottom should be graded to provide positive drainage.
2. Seams between outlet structure components should be sealed watertight.
3. Outlet structure box sections shall be bolted together on at least two sides with suitable steel straps.
4. All pipes shall be parged properly to the outlet structure.
5. The contractor should pay special attention to the outlet structure orifice sizes and elevations as well as the outlet structure top elevation to ensure compliance with the design.

Inspection Procedures:

1. Call for inspection prior to constructing the outlet pipe so that the pipe and anti-seep collars can be inspected.
2. Call for an inspection when the outlet structure is on-site but prior to installation so that the dimensions can be checked.
3. Call for a final inspection when the facility is complete.

Stormwater Rain Gardens/ Bioretention Areas:

Construction Standards:

1. Rain garden areas shall either be excavated only when the site is nearly complete or shall be excavated and protected from runoff until the site is stabilized.
2. Rain garden interiors and component materials shall not be compacted.

Inspection Procedures:

1. Call for inspection prior to excavating so that the depth and excavation can be inspected.
2. Place geotextile, underdrain, and 2B gravel and call for an inspection prior to wrapping geotextile over the 2B so that this component can be inspected.

3. Call for an inspection of bioretention soil mix prior to installation. Soil mix should be 30% topsoil, 20% compost, and 50% sand.
4. Call for final inspection upon completion.