

**LID Operation and Maintenance Requirements**

|   | <b>Weeding, Mowing, &amp; Watering</b>  | <b>Trash &amp; Debris Removal</b>  | <b>Sediment Removal, Draining, &amp; Flushing</b>  | <b>Re-grading &amp; Erosion Control</b>  | <b>Seasonal Considerations</b>  | <b>Plant &amp; Component Replacement</b>  | <b>Monitoring &amp; Inspection</b>   |
|---|---|--|--|--|---|---|--|
| <b>Bioretention Cells/<br/>Rain Gardens</b> | Necessary on a regular basis; more frequent for manicured cells, in urban areas, or near roads/walkways               | Necessary on a regular basis, particularly in urban settings                                     | As-needed; if water is standing for long periods of time   | As needed for prevention of channel formation or to repair erosion damage                      | Snow removal if necessary; monitor to prevent channel formation during snowmelt   | Plant replacement as necessary; regular mulching to minimize weed growth  | Regular monitoring and inspection to ensure adequate infiltration rate                                     |
| <b>Wetlands</b>                             | Seasonal mowing of emergent areas; maintain adequate water levels for habitat; regular removal of weeds/woody growth  | Regular trash and debris removal; debris should be prevented from creating areas of pooled water | Sediment removal at a predetermined depth of sediment accumulated (6-12"); flushing of inflow/ outflow mechanisms when clogged | As needed for prevention of channel formation  | System will be less effective in winter, inflow should be slowed; irrigate during dry periods                                 | As needed; Plant replacement as necessary to making 85% vegetation cover of emergent land   | Several inspections/yr and following major rain events and snowfalls; Every 2-3 weeks during establishment |
| <b>Swales</b>                               | Necessary on an occasional basis for vegetated swales   | Removed as quickly as possible to prevent channel blockage                                       | Not necessary unless swale is damaged  | Regularly during establishment; as needed subsequently to prevent channel blockage             | As needed after high volume winter storms or snowmelt   | Plant replacement as necessary if the channel is damaged by erosion   | Inspect regularly to ensure water is not pooling and channel is not eroded or damaged                      |
| <b>Riparian &amp; Shoreline Restoration</b> | Seasonal mowing; water as necessary during first 3-5 years and dry periods; mulch at tree bases; weeds kept under ~12 | Trash should be removed; natural debris can be allowed to accumulate                             | Prevention of channel formation, as necessary  | Prevention of channel formation, as necessary; replanting if erosion destabilizes stream banks | Area should not be disturbed during the spring  | Plant replacement as necessary to maintain vegetation cover of about 85% of emergent land   | Several inspections/yr and following major rain events; every 2-3 weeks during establishment               |
| <b>Infiltration Basins</b>                  | Mowing and weeding should be conducted on average once per month  | As needed  | Necessary any time water is not infiltrating within 72 hours   | As needed basis if damage is incurred during a high volume event                               | Monitor during snowmelt to ensure infiltration rate is maintained   | May be necessary after basin has been in use for several years  | Monitor to ensure water infiltrates within 72 hours. Inspect 1-2x yr for contaminant build-up              |
| <b>Rain Barrels/ Cisterns</b>               | N/A   | Mesh screen can filter out debris  | Water should be removed 7-10 days after a rain event   | Water should drain onto stable, non-eroding soil   | If freezing is common, rain barrels should be disconnected, and stored upside down; mosquito dunk may be needed during summer | As necessary  | Periodically ensure water is not running into house foundations or erodible areas                          |
| <b>Pervious Pavement</b>                    | Controlled herbicides as necessary so as not to disturb pavement  | Necessary on a regular basis   | Vacuuming at a min. of 1-2x/ yr and, where present, flushing of drainage system  | Sediment should be prevented from eroding directly onto pavement                               | Mechanical snow removal (plowing); sand not recommended   | Damaged pavers replaced with spares; small areas can also be required with traditional pavement. Infill, can be replaced with a broom | 1-2x a year; no standing water should be on surface after a rain event                                     |
| <b>Green Roofs</b>                          | Irrigation and fertilization regularly during establishment; weeding on a regular basis subsequently                  | Necessary on a regular basis. Critical if debris or dead vegetation creates a fire hazard        | Drains should be inspected regularly   | N/A  | As needed during high snowfall volumes  | As needed; frequency will depend on vegetation type and roof design   | Regular inspections; ensure compliance with local guideline and/or building codes                          |