

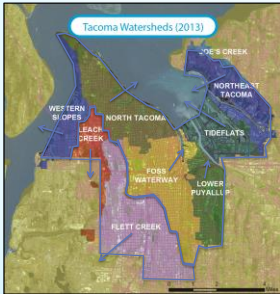
City of Tacoma - LID Plan Review

Washington Municipal Stormwater Conference
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City of Tacoma - Background



- ~72% drains to flow control exempt receiving waters
- ~500 miles of pipe
- MR #5 is different based upon the ultimate discharge location

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Lessons Learned

1. **Know your watersheds**
 - Requirements may be applied differently based on watershed.
 - May have different areas of concern.
2. **Training**
 - Continuous.
 - Internal and external.
3. **Databases or Software**
 - Find or develop databases for plan review/inspection tracking.
 - GIS Layers
4. **Publicly Maintained Facilities**
 - What facilities/BMPs/configurations will City accept.
5. **Public Education**
 - Explain Why?

Soils Report Appendix

Appendix B Soils Reports

This Appendix describes when a site-specific soils report is required and the requirements of that soils report.

B.1 All Projects

- If infiltration is being utilized to meet Minimum Requirement #6, Minimum Requirement #7 or Minimum Requirement #8, a site specific soils report is required. See Section B.8 for soils report requirements.
- A site-specific soils report is required to obtain flow credits for Best Management Practices that manage stormwater by infiltration and that allow flow credits. Refer to each individual BMP for flow credit evaluation. To obtain flow credits, the best management practices shall be designed per the SWSEM requirements.

B.2 Downspout Full Infiltration Systems - BMP L602

A soils report per Section B.2.1 is required to design a downspout infiltration trench or downspout dry well per BMP L602 - Full Downspout Infiltration. Downspout full infiltration facilities shall be designed per Volume 3, Section 2.3.3.

A soils report per Section B.2.1 is required to complete the determination of infisability or to design the system if the minimum infiltration trench length or a minimum drywell size will fit on the project site. If the surface and site constraint criteria per Volume 3, Section 2.3.2 or the design standards per BMP L602a - Infiltration Trenches (Volume 3, Section 2.3.3.4) or BMP L602b - Dry Wells (Volume 3, Section 2.3.3.5) can be met assuming the minimum trench length per Table 3-2 or the minimum dry well size per Table 3-3 a soils report is required to determine if an infiltration facility is infisiable.

B.2.1 Soils Report Requirements for Downspout Full Infiltration

The soils report must, at a minimum:

- Be prepared by one of the following*: professional soils scientist certified by the Soil Science Society of America for an equivalent national program, a Washington State Licensed Professional Geologist, a Washington State Licensed Professional Engineer, hydrogeologist, or engineering geologist registered in the State of Washington, or persons working under the supervision of one of the soils professionals listed above;
- Contain at least one soils log a minimum of 4 feet deep (from proposed grade) and at least one foot below expected bottom elevation of the facility unless at the location of the proposed infiltration system if it is unknown where the infiltration system will likely be sited, it may be necessary to take several soils logs to ensure appropriate site coverage);
- Identify the USDA textural class of the soil horizon through the depth of the log;
- Note any evidence of high groundwater level, such as mottling; and
- Note the depth to seasonal high groundwater table or other impermeable layer.

*Each professional should know the limits of their professional licensure. Contact your state or local licensing board for additional information.
