

UNIFORM STORMWATER STANDARD 2: CHANNEL PROTECTION VOLUME WORKSHEET



Applies to development/re-development sites ≥ 1 acre.

Result

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| 1. Calculate pre-development stormwater runoff volume. | ft ³ |
| 2. Calculate post-development stormwater runoff volume. | ft ³ |
| 3. Difference in pre and post development stormwater runoff volume. | ft ³ |

If post-development stormwater runoff volume is \leq pre-development stormwater runoff volume, Uniform Stormwater Standard 2 is met (#4 and #5 below are not necessary).

If post-development stormwater volume is $>$ pre-development stormwater runoff volume, appropriate controls/BMPs or site design changes have to be implemented to make post-development runoff volume and rate \leq the pre-development levels for all storms up to the 2-year, 24-hour event, or 2.37-inches.

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| 4. Calculate the volume of 2.37 inches of stormwater runoff by multiplying area contributing runoff (ft ²) by 0.2 feet. | ft ³ |
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| 5. List and provide a Figure showing the locations of all proposed BMPs to meet the Channel Protection Volume | <u>Protection Volume (ft³)</u> |
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| Bioretention (e.g. rain gardens) | |
| Vegetated Filter Strip | |
| Vegetated Filter Swale | |
| Vegetated Roof | |
| Infiltration Basin | |
| Infiltration Trench | |
| Subsurface Infiltration Bed | |
| Dry Well | |
| Level Spreader | |
| Pervious Pavement | |
| Capture/ Reuse | |
| Other (list) | |

Total Treatment Volume (ft³)

If Protection Volume \geq 2.37-inches for project site, Uniform Stormwater Standard 2 is met.

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| 6. A signed Stormwater Best Management Practices Operations & Maintenance Agreement between the City and the Landowner or Designee is required (City Form provided). | |
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PROJECT NAME:

PROJECT ADDRESS:

DATE: