

SDI-Design Data v2.00, Released January 2020

Facility Location & Jurisdiction: **Urban Collection at Palmer Village, Constitution Ave, El Paso County/ El Paso County**

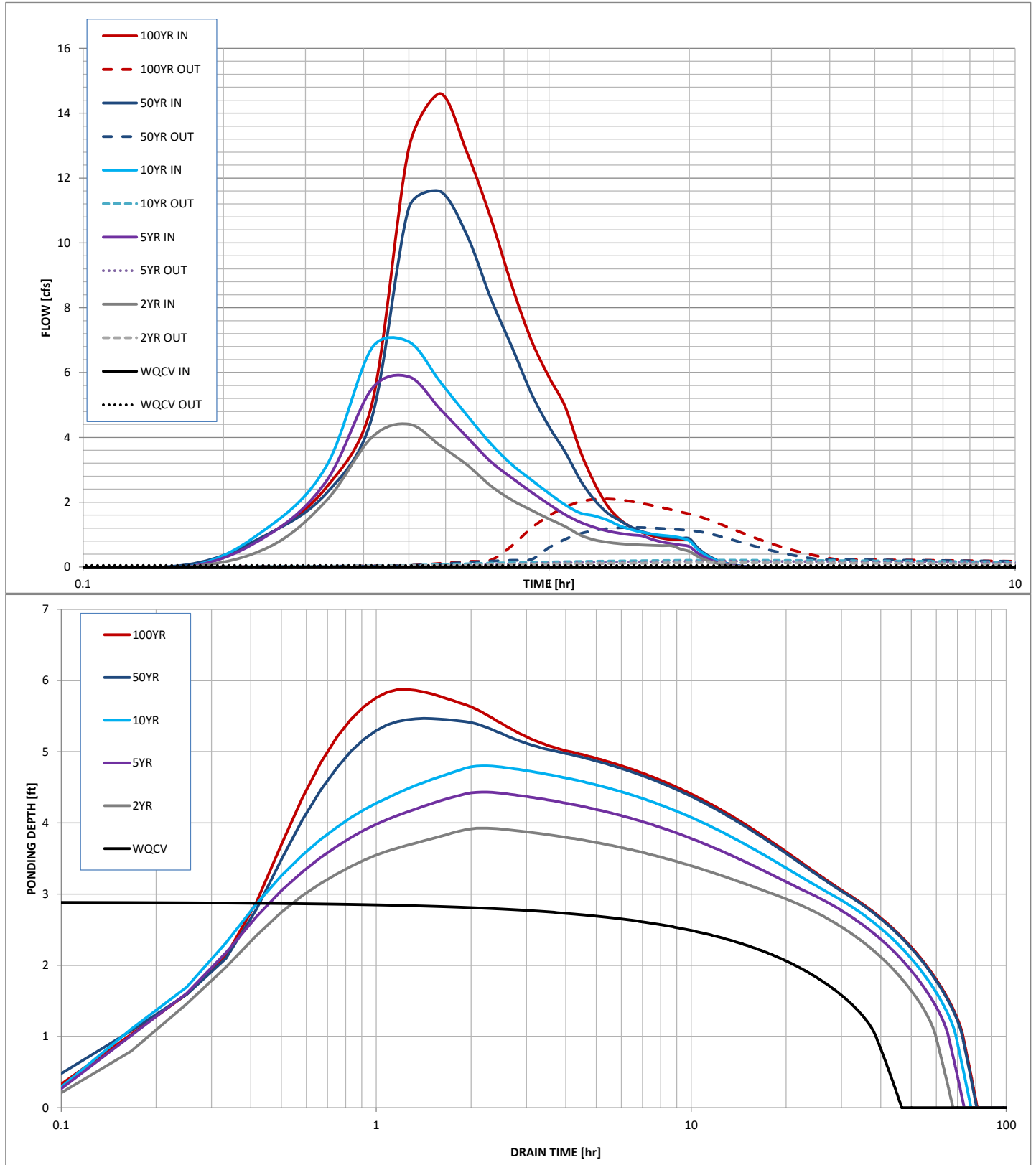
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Once CUHP has been run and the Stage-Area-Discharge information has been provided, click 'Process Data' to interpolate the Stage-Area-Volume-Discharge data and generate summary results in the table below. Once this is complete, click 'Print to PDF'.

Routed Hydrograph Results

| | WQCV | 2 Year | 5 Year | 10 Year | 50 Year | 100 Year | |
|--------------------------------------|-------|--------|--------|---------|---------|----------|---------|
| Design Storm Return Period = | N/A | 1.19 | 1.50 | 1.75 | 2.25 | 2.52 | in |
| One-Hour Rainfall Depth = | 0.102 | 0.245 | 0.326 | 0.390 | 0.590 | 0.715 | acre-ft |
| CUHP Runoff Volume = | N/A | 0.245 | 0.326 | 0.390 | 0.590 | 0.715 | acre-ft |
| Inflow Hydrograph Volume = | 38.9 | 56.1 | 60.2 | 62.7 | 62.6 | 61.0 | hours |
| Time to Drain 97% of Inflow Volume = | 42.2 | 60.9 | 65.7 | 68.7 | 70.1 | 69.4 | hours |
| Time to Drain 99% of Inflow Volume = | 2.89 | 3.93 | 4.43 | 4.80 | 5.47 | 5.87 | ft |
| Maximum Ponding Depth = | 0.10 | 0.14 | 0.16 | 0.17 | 0.19 | 0.21 | acres |
| Maximum Poned Area = | 0.103 | 0.228 | 0.302 | 0.362 | 0.481 | 0.564 | acre-ft |
| Maximum Volume Stored = | | | | | | | |

Stormwater Detention and Infiltration Design Data Sheet



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Routed Hydrograph Results

| | WQCV | 2 Year | 5 Year | 10 Year | 50 Year | 100 Year | |
|--------------------------------------|-------|--------|--------|---------|---------|----------|---------|
| Design Storm Return Period = | N/A | 1.19 | 1.50 | 1.75 | 2.25 | 2.52 | in |
| One-Hour Rainfall Depth = | 0.083 | 0.207 | 0.274 | 0.328 | 0.485 | 0.583 | acre-ft |
| CUHP Runoff Volume = | N/A | 0.207 | 0.274 | 0.328 | 0.485 | 0.583 | acre-ft |
| Inflow Hydrograph Volume = | 40.4 | 57.1 | 60.8 | 62.8 | 61.7 | 60.2 | hours |
| Time to Drain 97% of Inflow Volume = | 44.1 | 62.8 | 67.3 | 69.8 | 70.0 | 69.3 | hours |
| Time to Drain 99% of Inflow Volume = | 2.34 | 3.23 | 3.64 | 3.94 | 4.47 | 4.81 | ft |
| Maximum Ponding Depth = | 0.10 | 0.14 | 0.16 | 0.17 | 0.19 | 0.20 | acres |
| Maximum Poned Area = | 0.083 | 0.193 | 0.254 | 0.302 | 0.395 | 0.462 | acre-ft |
| Maximum Volume Stored = | | | | | | | |

Stormwater Detention and Infiltration Design Data Sheet

