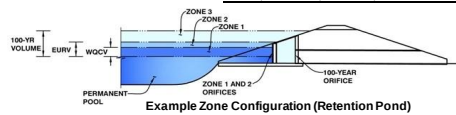


## MHFD-Detention, Version 4.08 (April 2026)

Basin ID: A1-A2, FD1-FD-2, PR1-PR2, P

|                                                |        |         |
|------------------------------------------------|--------|---------|
| Selected SCM Type =                            | EDB    |         |
| Watershed Area =                               | 7.94   | acres   |
| Watershed Length =                             | 720    | ft      |
| Watershed Length to Centroid =                 | 360    | ft      |
| Watershed Slope =                              | 0.030  | ft/ft   |
| Watershed Imperviousness =                     | 84.30% | percent |
| Percentage Hydrologic Soil Group A =           | 30.0%  | percent |
| Percentage Hydrologic Soil Group B =           | 70.0%  | percent |
| Percentage Hydrologic Soil Groups C/D =        | 0.0%   | percent |
| Target WQCV Drain Time =                       | 40.0   | hours   |
| Location for 1-hr Rainfall Depths = User Input |        |         |

### Optional User Overrides

|                                                    |       |           |
|----------------------------------------------------|-------|-----------|
| Water Quality Capture Volume (WQCV) =              | 0.236 | acre-feet |
| Excess Urban Runoff Volume (EURV) =                | 0.790 | acre-feet |
| 2-yr Runoff Volume ( $P1 = 1.01 \text{ in.}$ ) =   | 0.512 | acre-feet |
| 5-yr Runoff Volume ( $P1 = 1.29 \text{ in.}$ ) =   | 0.675 | acre-feet |
| 10-yr Runoff Volume ( $P1 = 1.56 \text{ in.}$ ) =  | 0.844 | acre-feet |
| 25-yr Runoff Volume ( $P1 = 2 \text{ in.}$ ) =     | 1.140 | acre-feet |
| 50-yr Runoff Volume ( $P1 = 2.25 \text{ in.}$ ) =  | 1.304 | acre-feet |
| 100-yr Runoff Volume ( $P1 = 2.75 \text{ in.}$ ) = | 1.643 | acre-feet |
| 500-yr Runoff Volume ( $P1 = 3.14 \text{ in.}$ ) = | 1.902 | acre-feet |
| Approximate 2-yr Detention Volume =                | 0.503 | acre-feet |
| Approximate 5-yr Detention Volume =                | 0.666 | acre-feet |
| Approximate 10-yr Detention Volume =               | 0.843 | acre-feet |
| Approximate 25-yr Detention Volume =               | 1.044 | acre-feet |
| Approximate 50-yr Detention Volume =               | 1.101 | acre-feet |
| Approximate 100-yr Detention Volume =              | 1.269 | acre-feet |

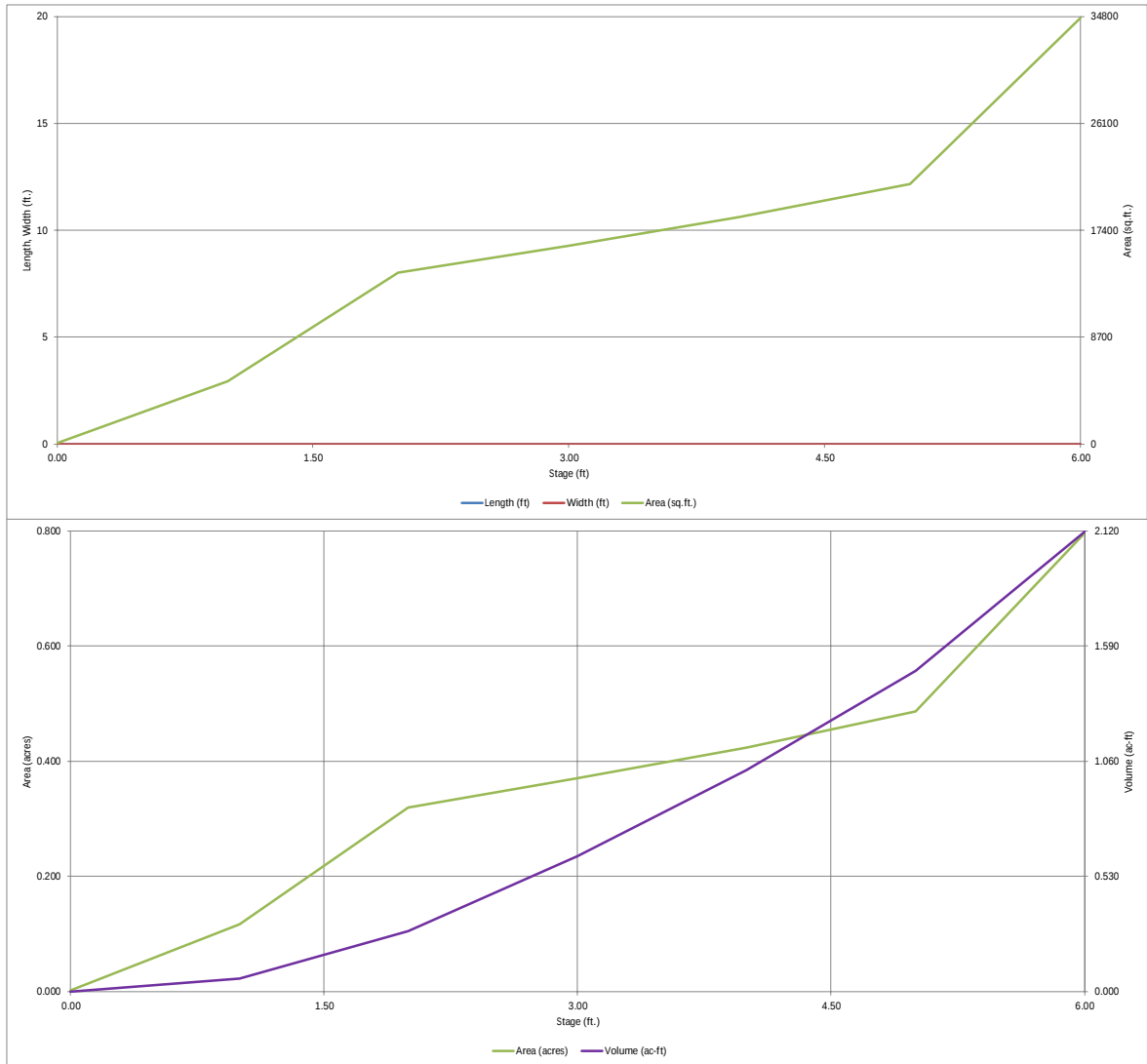
|                                                   |       |                 |
|---------------------------------------------------|-------|-----------------|
| Zone 1 Volume (WQCV) =                            | 0.236 | acre-feet       |
| Zone 2 Volume (EURV - Zone 1) =                   | 0.554 | acre-feet       |
| Zone 3 Volume (100-year - Zones 1 & 2) =          | 0.478 | acre-feet       |
| Total Detention Basin Volume =                    | 1.269 | acre-feet       |
| Initial Surcharge Volume (ISV) =                  | user  | ft <sup>3</sup> |
| Initial Surcharge Depth (ISD) =                   | user  | ft              |
| Total Available Detention Depth ( $H_{total}$ ) = | user  | ft              |
| Depth of Trickle Channel ( $H_{TC}$ ) =           | user  | ft              |
| Slope of Trickle Channel ( $S_{TC}$ ) =           | user  | ft/ft           |
| Slopes of Main Basin Sides ( $S_{main}$ ) =       | user  | H:V             |
| Basin Length-to-Width Ratio ( $R_{L/W}$ ) =       | user  |                 |

|                                             |   |      |                 |
|---------------------------------------------|---|------|-----------------|
| Initial Surcharge Area ( $A_{S1}$ )         | = | user | ft <sup>2</sup> |
| Surcharge Volume Length ( $L_{S1}$ )        | = | user | ft              |
| Surcharge Volume Width ( $W_{S1}$ )         | = | user | ft              |
| Length of Basin Floor ( $H_{L1,COR}$ )      | = | user | ft              |
| Depth of Basin Floor ( $L_{L1,COR}$ )       | = | user | ft              |
| Width of Basin Floor ( $W_{L1,COR}$ )       | = | user | ft              |
| Area of Basin Floor ( $A_{L1,COR}$ )        | = | user | ft <sup>2</sup> |
| Volume of Basin Floor ( $V_{L1,COR}$ )      | = | user | ft <sup>3</sup> |
| Depth of Main Basin ( $H_{MAIN}$ )          | = | user | ft              |
| Length of Main Basin ( $L_{MAIN}$ )         | = | user | ft              |
| Width of Main Basin ( $W_{MAIN}$ )          | = | user | ft              |
| Area of Main Basin ( $A_{MAIN}$ )           | = | user | ft <sup>2</sup> |
| Volume of Main Basin ( $V_{MAIN}$ )         | = | user | ft <sup>3</sup> |
| Calculated Total Basin Volume ( $V_{TBL}$ ) | = | USER | acre-feet       |

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# DETENTION BASIN STAGE-STORAGE TABLE BUILDER

MHFD-Detention, Version 4.08 (April 2026)

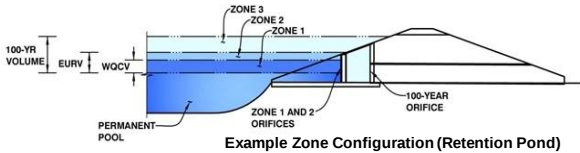


# DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.08 (April 2026)

Project: Waterview East Filing No. 1

Basin ID: A1-A2, FD1-FD-2, PR1-PR2, P



Example Zone Configuration (Retention Pond)

|                   | Estimated Stage (ft) | Estimated Volume (ac-ft) | Outlet Type          |
|-------------------|----------------------|--------------------------|----------------------|
| Zone 1 (WQCV)     | 1.87                 | 0.236                    | Orifice Plate        |
| Zone 2 (EURV)     | 3.44                 | 0.554                    | Orifice Plate        |
| Zone 3 (100-year) | 4.57                 | 0.478                    | Weir&Pipe (Restrict) |
| Total (all zones) |                      | 1.269                    |                      |

User Input: Orifice at Underdrain Outlet (typically used to drain WOCV in a Filtration SCM)

Underdrain Orifice Invert Depth =  ft (distance below the filtration media surface)  
Underdrain Orifice Diameter =  inches

Calculated Parameters for Underdrain

Underdrain Orifice Area =  ft<sup>2</sup>  
Underdrain Orifice Centroid =  feet

User Input: Orifice Plate with one or more orifices or Elliptical Slot Weir (typically used to drain WOCV and/or EURV in a sedimentation SCM)

Calculated Parameters for Plate

Centroid of Lowest Orifice =  ft (relative to basin bottom at Stage = 0 ft)  
Depth at top of Zone using Orifice Plate =  ft (relative to basin bottom at Stage = 0 ft)  
Orifice Plate: Orifice Vertical Spacing =  inches  
Orifice Plate: Orifice Area per Row =  sq. inches (diameter = 1-7/16 inches)

WQ Orifice Area per Row =  ft<sup>2</sup>  
Elliptical Half-Width =  feet  
Elliptical Slot Centroid =  feet  
Elliptical Slot Area =  ft<sup>2</sup>

User Input: Stage and Total Area of Each Orifice Row (numbered from lowest to highest)

|                                | Row 1 (required) | Row 2 (optional) | Row 3 (optional) | Row 4 (optional) | Row 5 (optional) | Row 6 (optional) | Row 7 (optional) | Row 8 (optional) |
|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Stage of Orifice Centroid (ft) | 0.00             | 1.15             | 1.80             |                  |                  |                  |                  |                  |
| Orifice Area (sq. inches)      | 1.63             | 1.63             | 1.63             |                  |                  |                  |                  |                  |

|                                | Row 9 (optional) | Row 10 (optional) | Row 11 (optional) | Row 12 (optional) | Row 13 (optional) | Row 14 (optional) | Row 15 (optional) | Row 16 (optional) |
|--------------------------------|------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Stage of Orifice Centroid (ft) |                  |                   |                   |                   |                   |                   |                   |                   |
| Orifice Area (sq. inches)      |                  |                   |                   |                   |                   |                   |                   |                   |

User Input: Vertical Orifice (Circular or Rectangular)

Calculated Parameters for Vertical Orifice

Invert of Vertical Orifice =  ft (relative to basin bottom at Stage = 0 ft)  
Depth at top of Zone using Vertical Orifice =  ft (relative to basin bottom at Stage = 0 ft)  
Vertical Orifice Diameter =  inches

Vertical Orifice Area =  ft<sup>2</sup>  
Vertical Orifice Centroid =  feet

User Input: Overflow Weir (Dropbox with Flat or Sloped Gate and Outlet Pipe OR Rectangular/Trapezoidal Weir and No Outlet Pipe)

Calculated Parameters for Overflow Weir

Overflow Weir Front Edge Height, H<sub>o</sub> =  ft (relative to basin bottom at Stage = 0 ft)  
Overflow Weir Front Edge Length =  feet  
Overflow Weir Gate Slope =  H:V  
Horiz. Length of Weir Sides =  feet  
Overflow Gate Type =   
Debris Clogging % =  %

Height of Gate Upper Edge, H<sub>u</sub> =  feet  
Overflow Weir Slope Length =  feet  
Gate Open Area / 100-yr Orifice Area =   
Overflow Gate Open Area w/o Debris =  ft<sup>2</sup>  
Overflow Gate Open Area w/ Debris =  ft<sup>2</sup>

User Input: Outlet Pipe w/ Flow Restriction Plate (Circular Orifice, Restrictor Plate, or Rectangular Orifice)

Calculated Parameters for Outlet Pipe w/ Flow Restriction Plate

Depth to Invert of Outlet Pipe =  ft (distance below basin bottom at Stage = 0 ft)  
Outlet Pipe Diameter =  inches  
Restrictor Plate Height Above Pipe Invert =  inches

Outlet Orifice Area =  ft<sup>2</sup>  
Outlet Orifice Centroid =  feet  
Half-Central Angle of Restrictor Plate on Pipe =  radians

User Input: Emergency Spillway (Rectangular or Trapezoidal)

Calculated Parameters for Spillway

Spillway Invert Stage =  ft (relative to basin bottom at Stage = 0 ft)  
Spillway Crest Length =  feet  
Spillway End Slopes =  H:V  
Freeboard above Max Water Surface =  feet

Spillway Design Flow Depth =  feet  
Stage at Top of Freeboard =  feet  
Basin Area at Top of Freeboard =  acres  
Basin Volume at Top of Freeboard =  acre-ft

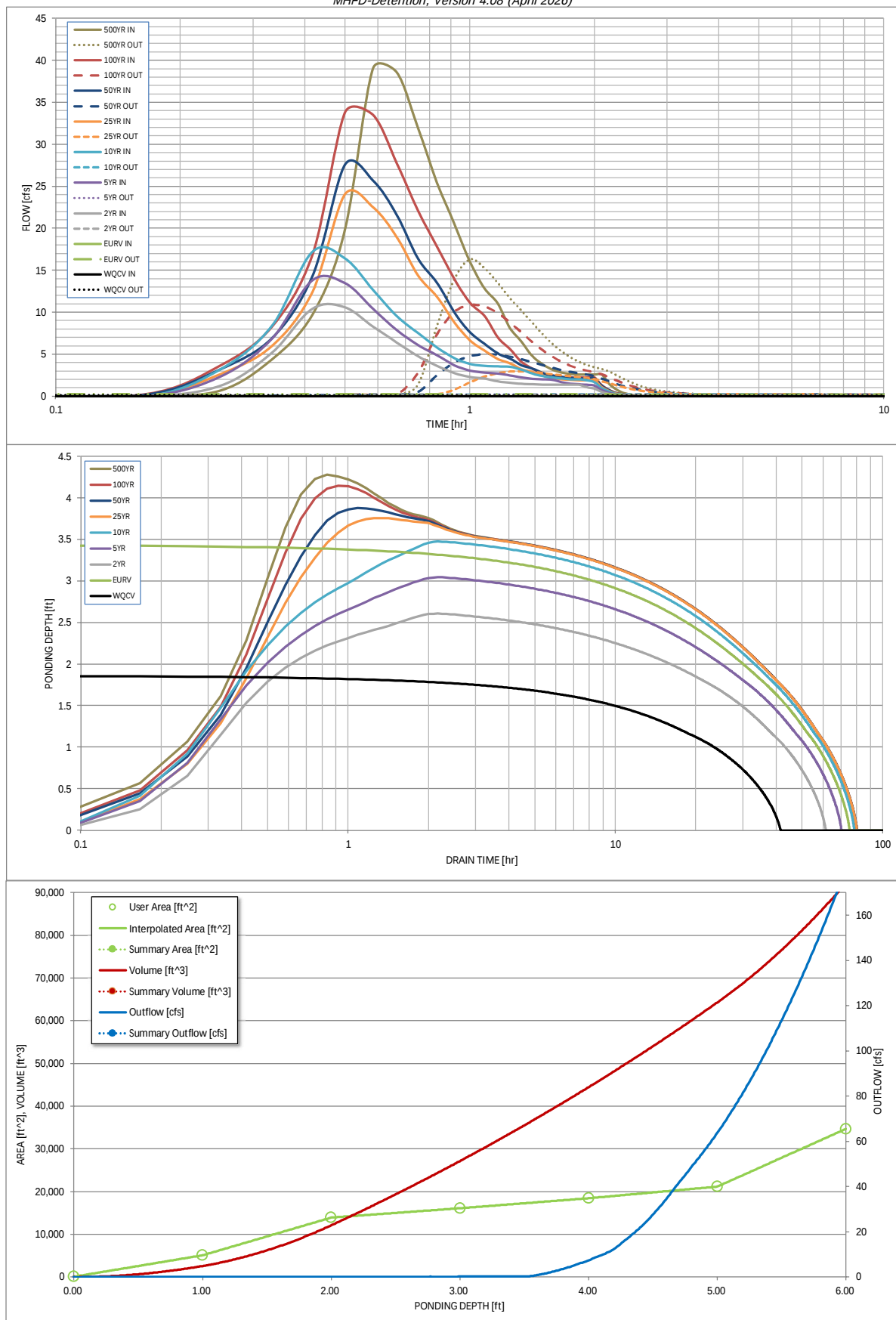
Routed Hydrograph Results

The user can override the default CUHP hydrographs and runoff volumes by entering new values in the Inflow Hydrographs table (Columns W through AF).

|                                               | WQCV  | EURV  | 2 Year | 5 Year | 10 Year | 25 Year         | 50 Year         | 100 Year        | 500 Year |
|-----------------------------------------------|-------|-------|--------|--------|---------|-----------------|-----------------|-----------------|----------|
| Design Storm Return Period                    | N/A   | N/A   | 1.01   | 1.29   | 1.56    | 2.00            | 2.25            | 2.75            | 3.14     |
| One-Hour Rainfall Depth (in)                  | N/A   | N/A   | 1.01   | 1.29   | 1.56    | 2.00            | 2.25            | 2.75            | 3.14     |
| CUHP Runoff Volume (acre-ft)                  | 0.236 | 0.790 | 0.512  | 0.675  | 0.844   | 1.140           | 1.304           | 1.643           | 1.902    |
| Inflow Hydrograph Volume (acre-ft)            | N/A   | N/A   | 0.512  | 0.675  | 0.844   | 1.140           | 1.304           | 1.643           | 1.902    |
| CUHP Predevelopment Peak Q (cfs)              | N/A   | N/A   | 0.3    | 0.6    | 2.2     | 6.8             | 8.8             | 13.1            | 16.1     |
| OPTIONAL Override Predevelopment Peak Q (cfs) | N/A   | N/A   |        |        |         |                 |                 |                 |          |
| Predevelopment Unit Peak Flow, q (cfs/acre)   | N/A   | N/A   | 0.03   | 0.07   | 0.28    | 0.86            | 1.11            | 1.65            | 2.03     |
| Peak Inflow Q (cfs)                           | N/A   | N/A   | 10.6   | 13.8   | 17.2    | 24.1            | 27.6            | 33.8            | 39.0     |
| Peak Outflow Q (cfs)                          | 0.1   | 0.3   | 0.2    | 0.2    | 0.3     | 3.0             | 5.0             | 10.9            | 16.3     |
| Ratio Peak Outflow to Predevelopment Q        | N/A   | N/A   | N/A    | 0.4    | 0.1     | 0.4             | 0.6             | 0.8             | 1.0      |
| Structure Controlling Flow                    | Plate | Plate | Plate  | Plate  | Plate   | Overflow Weir 1 | Overflow Weir 1 | Overflow Weir 1 | Spillway |
| Max Velocity through Gate 1 (fps)             | N/A   | N/A   | N/A    | N/A    | N/A     | 0.4             | 0.7             | 1.5             | 2.0      |
| Max Velocity through Gate 2 (fps)             | N/A   | N/A   | N/A    | N/A    | N/A     | N/A             | N/A             | N/A             | N/A      |
| Time to Drain 97% of Inflow Volume (hours)    | 38    | 66    | 55     | 62     | 69      | 68              | 67              | 64              | 63       |
| Time to Drain 99% of Inflow Volume (hours)    | 40    | 71    | 58     | 66     | 74      | 75              | 74              | 73              | 72       |
| Maximum Ponding Depth (ft)                    | 1.87  | 3.44  | 2.61   | 3.05   | 3.48    | 3.76            | 3.88            | 4.15            | 4.28     |
| Area at Maximum Ponding Depth (acres)         | 0.29  | 0.39  | 0.35   | 0.37   | 0.40    | 0.41            | 0.42            | 0.43            | 0.44     |
| Maximum Volume Stored (acre-ft)               | 0.239 | 0.792 | 0.480  | 0.638  | 0.804   | 0.920           | 0.966           | 1.081           | 1.142    |

DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.08 (April 2026)



| S-A-V-D Chart Axis Override | X-axis | Left Y-Axis | Right Y-Axis |
|-----------------------------|--------|-------------|--------------|
| minimum bound               |        |             |              |
| maximum bound               |        |             |              |

# DETENTION BASIN OUTLET STRUCTURE DESIGN

Outflow Hydrograph Workbook Filename:

## Inflow Hydrographs

The user can override the calculated inflow hydrographs from this workbook with inflow hydrographs developed in a separate program.

|               | SOURCE  | CUHP       | CUHP       | CUHP         | CUHP         | CUHP          | CUHP          | CUHP          | CUHP           | CUHP           |
|---------------|---------|------------|------------|--------------|--------------|---------------|---------------|---------------|----------------|----------------|
| Time Interval | TIME    | WQCV [cfs] | EURV [cfs] | 2 Year [cfs] | 5 Year [cfs] | 10 Year [cfs] | 25 Year [cfs] | 50 Year [cfs] | 100 Year [cfs] | 500 Year [cfs] |
| 5.00_min      | 0:00:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 0:05:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 0:10:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.22          | 0.28           | 0.71           |
|               | 0:15:00 | 0.00       | 0.00       | 1.26         | 2.38         | 3.25          | 2.67          | 3.26          | 3.69           | 4.45           |
|               | 0:20:00 | 0.00       | 0.00       | 5.24         | 6.91         | 8.45          | 6.05          | 6.97          | 8.34           | 9.76           |
|               | 0:25:00 | 0.00       | 0.00       | 10.45        | 13.81        | 17.22         | 12.47         | 14.33         | 16.90          | 19.88          |
|               | 0:30:00 | 0.00       | 0.00       | 10.59        | 13.46        | 16.44         | 24.06         | 27.59         | 33.81          | 39.04          |
|               | 0:35:00 | 0.00       | 0.00       | 8.28         | 10.41        | 12.67         | 22.53         | 25.72         | 33.51          | 38.59          |
|               | 0:40:00 | 0.00       | 0.00       | 6.43         | 7.88         | 9.55          | 18.98         | 21.62         | 27.78          | 31.96          |
|               | 0:45:00 | 0.00       | 0.00       | 4.77         | 6.12         | 7.53          | 14.40         | 16.40         | 22.13          | 25.47          |
|               | 0:50:00 | 0.00       | 0.00       | 3.64         | 4.90         | 5.82          | 11.89         | 13.54         | 17.85          | 20.55          |
|               | 0:55:00 | 0.00       | 0.00       | 2.79         | 3.72         | 4.55          | 8.80          | 10.04         | 13.98          | 16.10          |
|               | 1:00:00 | 0.00       | 0.00       | 2.32         | 3.07         | 3.86          | 6.69          | 7.64          | 11.18          | 12.89          |
|               | 1:05:00 | 0.00       | 0.00       | 2.14         | 2.82         | 3.63          | 5.48          | 6.27          | 9.60           | 11.09          |
|               | 1:10:00 | 0.00       | 0.00       | 1.79         | 2.73         | 3.55          | 4.47          | 5.11          | 7.05           | 8.15           |
|               | 1:15:00 | 0.00       | 0.00       | 1.61         | 2.49         | 3.53          | 3.94          | 4.49          | 5.64           | 6.52           |
|               | 1:20:00 | 0.00       | 0.00       | 1.50         | 2.25         | 3.18          | 3.26          | 3.72          | 4.12           | 4.77           |
|               | 1:25:00 | 0.00       | 0.00       | 1.45         | 2.11         | 2.70          | 2.91          | 3.31          | 3.30           | 3.81           |
|               | 1:30:00 | 0.00       | 0.00       | 1.40         | 2.03         | 2.40          | 2.46          | 2.79          | 2.76           | 3.19           |
|               | 1:35:00 | 0.00       | 0.00       | 1.38         | 1.98         | 2.23          | 2.20          | 2.49          | 2.46           | 2.84           |
|               | 1:40:00 | 0.00       | 0.00       | 1.37         | 1.69         | 2.12          | 2.05          | 2.31          | 2.32           | 2.67           |
|               | 1:45:00 | 0.00       | 0.00       | 1.37         | 1.53         | 2.05          | 1.97          | 2.22          | 2.26           | 2.61           |
|               | 1:50:00 | 0.00       | 0.00       | 1.37         | 1.43         | 2.02          | 1.93          | 2.17          | 2.24           | 2.59           |
|               | 1:55:00 | 0.00       | 0.00       | 1.09         | 1.38         | 1.93          | 1.91          | 2.15          | 2.24           | 2.59           |
|               | 2:00:00 | 0.00       | 0.00       | 0.92         | 1.27         | 1.70          | 1.90          | 2.14          | 2.24           | 2.59           |
|               | 2:05:00 | 0.00       | 0.00       | 0.54         | 0.74         | 1.00          | 1.12          | 1.26          | 1.32           | 1.53           |
|               | 2:10:00 | 0.00       | 0.00       | 0.31         | 0.43         | 0.58          | 0.66          | 0.74          | 0.77           | 0.89           |
|               | 2:15:00 | 0.00       | 0.00       | 0.16         | 0.23         | 0.31          | 0.36          | 0.40          | 0.42           | 0.49           |
|               | 2:20:00 | 0.00       | 0.00       | 0.08         | 0.13         | 0.17          | 0.20          | 0.22          | 0.23           | 0.27           |
|               | 2:25:00 | 0.00       | 0.00       | 0.03         | 0.05         | 0.07          | 0.09          | 0.10          | 0.10           | 0.11           |
|               | 2:30:00 | 0.00       | 0.00       | 0.01         | 0.01         | 0.01          | 0.02          | 0.02          | 0.02           | 0.03           |
|               | 2:35:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 2:40:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 2:45:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 2:50:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 2:55:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:00:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:05:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:10:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:15:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:20:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:25:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:30:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:35:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:40:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:45:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:50:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 3:55:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:00:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:05:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:10:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:15:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:20:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:25:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:30:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:35:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:40:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:45:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:50:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 4:55:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:00:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:05:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:10:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:15:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:20:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:25:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:30:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:35:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:40:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:45:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:50:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 5:55:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |
|               | 6:00:00 | 0.00       | 0.00       | 0.00         | 0.00         | 0.00          | 0.00          | 0.00          | 0.00           | 0.00           |

## DETENTION BASIN OUTLET STRUCTURE DESIGN

*MHFD-Detention, Version 4.08 (April 2026)*

### Summary Stage-Area-Volume-Discharge Relationships

The user can create a summary S-A-V-D by entering the desired stage increments and the remainder of the table will populate automatically.

The user should graphically compare the summary S-A-V-D table to the full S-A-V-D table in the chart to confirm it captures all key transition points.

[illegible]