



CIVIL CONSULTANTS, INC.

October 31, 2024

El Paso County  
Planning & Community Development  
2880 International Circle, Suite 110  
Colorado Springs, CO 80910

Attn.: Project Manager

RE: Paint Brush Hills Filing No. 14

Dear Project Manager:

On behalf of The Landuis Company, M&S Civil Consultants hereby requests that the street, storm sewer and BMP improvements installed as a part of Paint Brush Hills Filing No. 13E be accepted for County Maintenance. The as-built construction plans which include; street, storm sewer, and water quality and detention basin improvements are attached. It should be noted that the sidewalks for the subdivision are being constructed as the homes/lots are built/developed.

#### Street Improvements

The street improvements for Paint Brush Hills Filing No. 14 consist of asphalt paving, curb and gutter, cross pans, pedestrian ramps and street signage for the following streets:

- Keynes Drive – Sta: 1+00.00 – Sta: 25+61.12
- Devoncove Drive – Sta: 1+00.00 – Sta: 19+00.00
- Grace Manor Drive – Sta: 1+00.00 - Sta: 5+66.88
- Waterloo Drive – Sta: 1+00.00 - Sta: 11+50.92
- Finsbury Court – Sta: 1+00.00 - Sta: 6+32.40
- Kingsbury Drive – Sta: 1+00.00 – Sta: 18+21.19
- Country Manor Drive – Sta:1+00.00 – Sta: 17+89.61
- Harwood Drive – Sta: 1+00.00 – Sta 15+89.51
- Minor offsite improvements along Keating and Londonderry Drive

Based upon this information gathered during periodic site visits to the project, M&S Civil Consultants, Inc. is of the opinion that the street improvements have been constructed in general compliance with the approved design plans, and specifications as filed with El Paso County.

On behalf of The Landuis company, M&S Civil Consultants hereby requests that probationary inspection of these facilities by the County so that the warranty period may begin.

#### Storm Sewer Improvements

Per the approved construction drawings for "Paint Brush Hills Filing 14" drainage improvements were made to construct storm sewer infrastructure and a water quality and detention facility in compliance with the current El Paso County Drainage Criteria and with the approved Final Drainage Report for this project.



The drainage related improvements for Paint Brush Hills Filing No. 14 consist of:

- Type I and Type II manholes,
- 5', 10', 15' and 20' Type R inlet boxes
- 18", 24", 30", 36", 42", 48", 54", 60" and 66" Reinforced Concrete Pipe
- 18", 36" & 66" Reinforced Concrete Pipe Flared End Sections
- Water Quality and Detention Facility
  - Concrete Trickle Channel
  - Concrete Forebay w/ Riprap Apron
  - 24'x 10' Outlet Box w/ Micropool
  - Buried 'M' Soil Riprap Spillway
  - Maintenance Access Road

Based upon this information gathered during periodic site visits to the project, M&S Civil Consultants, Inc. is of the opinion that the street improvements have been constructed in general compliance with the approved design plans, and specifications as filed with El Paso County.

Statement of Engineer In Responsible Charge

To the best of my knowledge, information and belief, for the referenced project above, the improvements have been constructed in general compliance with the approved design plans and specifications as filed with El Paso County to provide the required storage volume and meet the required release rates documented by the SDI design form, the stage areas, elevations and outlet dimensions. In addition, to the best of my knowledge, information and belief, for the referenced project above, the site and adjacent properties (as affected by work performed under the County permit) are stable with respect to settlement and subsidence, sloughing of cut and fill slopes, revegetation or other ground cover, and that the improvements (public improvements, common development improvements, site grading and paving) meet or exceed the minimum design requirements.

Respectfully submitted,



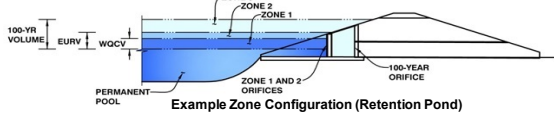
Virgil A. Sanchez  
Colorado P.E. No.37160  
For and on behalf of M&S Civil Consultants, Inc.

**DETENTION BASIN STAGE-STORAGE TABLE BUILDER**

MHFD-Detention, Version 4.03 (May 2020)

Project: **Paint Brush Hills Filing No.14**

Basin ID: **FSD Pond C**



**AS-BUILT**

**Watershed Information**

Selected BMP Type =	<b>EDB</b>	
Watershed Area =	137.58	acres
Watershed Length =	3,440	ft
Watershed Length to Centroid =	2,149	ft
Watershed Slope =	0.025	ft/ft
Watershed Imperviousness =	32.80%	percent
Percentage Hydrologic Soil Group A =	0.0%	percent
Percentage Hydrologic Soil Group B =	100.0%	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	

After providing required inputs above including 1-hour rainfall depths, click 'Run CUHP' to generate runoff hydrographs using the embedded Colorado Urban Hydrograph Procedure.

Water Quality Capture Volume (WQCV) =	1.834	acre-feet
Excess Urban Runoff Volume (EURV) =	4.664	acre-feet
2-yr Runoff Volume (P1 = 1.19 in.) =	4.688	acre-feet
5-yr Runoff Volume (P1 = 1.5 in.) =	7.414	acre-feet
10-yr Runoff Volume (P1 = 1.75 in.) =	9.906	acre-feet
25-yr Runoff Volume (P1 = 2 in.) =	13.603	acre-feet
50-yr Runoff Volume (P1 = 2.25 in.) =	16.440	acre-feet
100-yr Runoff Volume (P1 = 2.52 in.) =	20.186	acre-feet
500-yr Runoff Volume (P1 = 3.14 in.) =	27.480	acre-feet
Approximate 2-yr Detention Volume =	3.368	acre-feet
Approximate 5-yr Detention Volume =	4.783	acre-feet
Approximate 10-yr Detention Volume =	6.844	acre-feet
Approximate 25-yr Detention Volume =	7.840	acre-feet
Approximate 50-yr Detention Volume =	8.251	acre-feet
Approximate 100-yr Detention Volume =	9.664	acre-feet

**Optional User Overrides**

		acre-feet
		acre-feet
	1.19	inches
	1.50	inches
	1.75	inches
	2.00	inches
	2.25	inches
	2.52	inches
		inches

**Define Zones and Basin Geometry**

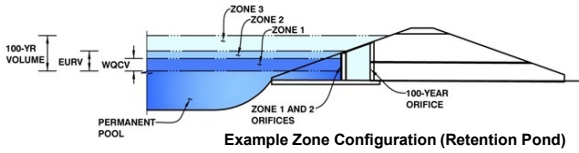
Zone 1 Volume (WQCV) =	1.834	acre-feet
Zone 2 Volume (EURV - Zone 1) =	2.831	acre-feet
Zone 3 Volume (100-year - Zones 1 & 2) =	5.000	acre-feet
Total Detention Basin Volume =	9.664	acre-feet
Initial Surcharge Volume (ISV) =	user	ft <sup>3</sup>
Initial Surcharge Depth (ISD) =	user	ft
Total Available Detention Depth (H <sub>TOTAL</sub> ) =	user	ft
Depth of Trickle Channel (H <sub>TC</sub> ) =	user	ft
Slope of Trickle Channel (S <sub>TC</sub> ) =	user	ft/ft
Slopes of Main Basin Sides (S <sub>MAIN</sub> ) =	user	H:V
Basin Length-to-Width Ratio (R <sub>L/W</sub> ) =	user	
Initial Surcharge Area (A <sub>ISV</sub> ) =	user	ft <sup>2</sup>
Surcharge Volume Length (L <sub>ISV</sub> ) =	user	ft
Surcharge Volume Width (W <sub>ISV</sub> ) =	user	ft
Depth of Basin Floor (H <sub>FLOOR</sub> ) =	user	ft
Length of Basin Floor (L <sub>FLOOR</sub> ) =	user	ft
Width of Basin Floor (W <sub>FLOOR</sub> ) =	user	ft
Area of Basin Floor (A <sub>FLOOR</sub> ) =	user	ft <sup>2</sup>
Volume of Basin Floor (V <sub>FLOOR</sub> ) =	user	ft <sup>3</sup>
Depth of Main Basin (H <sub>MAIN</sub> ) =	user	ft
Length of Main Basin (L <sub>MAIN</sub> ) =	user	ft
Width of Main Basin (W <sub>MAIN</sub> ) =	user	ft
Area of Main Basin (A <sub>MAIN</sub> ) =	user	ft <sup>2</sup>
Volume of Main Basin (V <sub>MAIN</sub> ) =	user	ft <sup>3</sup>
Calculated Total Basin Volume (V <sub>TOTAL</sub> ) =	<b>user</b>	acre-feet

Depth Increment =		ft											
Stage - Storage Description	Stage (ft)	Optional Override Stage (ft)	Length (ft)	Width (ft)	Area (ft <sup>2</sup> )	Optional Override Area (ft <sup>2</sup> )	Area (acre)	Volume (ft <sup>3</sup> )	Volume (ac-ft)				
7189.94 <b>Top of Micropool</b>	--	0.00	--	--	--	180	0.004						
<b>7190</b>	--	0.06	--	--	--	180	0.004	11	0.000				
	--	1.06	--	--	--	567	0.013	384	0.009				
	--	2.06	--	--	--	14,136	0.325	7,736	0.178				
	--	3.06	--	--	--	39,004	0.895	34,306	0.788				
	--	4.06	--	--	--	59,990	1.377	83,802	1.924				
7195.00	--	5.06	--	--	--	72,140	1.656	149,867	3.440				
7196.00	--	6.06	--	--	--	78,726	1.807	225,300	5.172				
7197.00	--	7.06	--	--	--	83,993	1.928	306,660	7.040				
7198.00	--	8.06	--	--	--	89,476	2.054	393,394	9.031				
	--	9.06	--	--	--	96,379	2.213	486,322	11.164				
	--	10.06	--	--	--	103,109	2.367	586,066	13.454				
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## DETENTION BASIN OUTLET STRUCTURE DESIGN

*MHFD-Detention, Version 4.03 (May 2020)*

**Project:** Paint Brush Hills Filing No.14  
**Basin ID:** FSD Pond C



**Example Zone Configuration (Retention Pond)**

	Estimated Stage (ft)	Estimated Volume (ac-ft)	Outlet Type
Zone 1 (WQCV)	4.00	1.834	Orifice Plate
Zone 2 (EURV)	5.78	2.831	Orifice Plate
Zone 3 (100-year)	8.37	5.000	Weir&Pipe (Restrict)
<b>Total (all zones)</b>		<b>9.664</b>	

**User Input: Orifice at Underdrain Outlet (typically used to drain WQCV in a Filtration BMP)**

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

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

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

Invert of Lowest Orifice =	0.00	ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Orifice Plate =	5.56	ft (relative to basin bottom at Stage = 0 ft)
Orifice Plate: Orifice Vertical Spacing =	N/A	inches
Orifice Plate: Orifice Area per Row =	N/A	inches

WQ Orifice Area per Row =	N/A	ft <sup>2</sup>
Elliptical Half-Width =	N/A	feet
Elliptical Slot Centroid =	N/A	feet
Elliptical Slot Area =	N/A	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	2.13	3.85					
Orifice Area (sq. inches)	6.62	6.62	6.62					

	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)**

	Not Selected	Not Selected	
Invert of Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)
Depth at top of Zone using Vertical Orifice =	N/A	N/A	ft (relative to basin bottom at Stage = 0 ft)
Vertical Orifice Diameter =	N/A	N/A	inches

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

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

	Zone 3 Weir	Not Selected	
Overflow Weir Front Edge Height, Ho =	5.48	N/A	ft (relative to basin bottom at Stage = 0 ft)
Overflow Weir Front Edge Length =	8.50	N/A	feet
Overflow Weir Gate Slope =	0.00	N/A	H:V
Horiz. Length of Weir Sides =	2.90	N/A	feet
Overflow Gate Open Area % =	70%	N/A	%, grate open area/total area
Debris Clogging % =	50%	N/A	%

Height of Gate Upper Edge, H <sub>t</sub> =	5.48	N/A	feet
Overflow Weir Slope Length =	2.90	N/A	feet
Grate Open Area / 100-yr Orifice Area =	1.37	N/A	
Overflow Gate Open Area w/o Debris =	17.26	N/A	ft <sup>2</sup>
Overflow Gate Open Area w/ Debris =	8.63	N/A	ft <sup>2</sup>

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

	Zone 3 Restrictor	Not Selected	
Depth to Invert of Outlet Pipe =	0.10	N/A	ft (distance below basin bottom at Stage = 0 ft)
Outlet Pipe Diameter =	48.00	N/A	inches
Restrictor Plate Height Above Pipe Invert =	48.00		inches

Outlet Orifice Area =	12.57	N/A	ft <sup>2</sup>
Outlet Orifice Centroid =	2.00	N/A	feet
Half-Central Angle of Restrictor Plate on Pipe =	3.14	N/A	radians

**User Input: Emergency Spillway (Rectangular or Trapezoidal)**

Spillway Invert Stage =	9.11	ft (relative to basin bottom at Stage = 0 ft)
Spillway Crest Length =	63.62	feet
Spillway End Slopes =	11.50	H:V
Freeboard above Max Water Surface =	1.00	feet

Spillway Design Flow Depth =	1.08	feet
Stage at Top of Freeboard =	11.19	feet
Basin Area at Top of Freeboard =	2.37	acres
Basin Volume at Top of Freeboard =	13.45	acre-ft

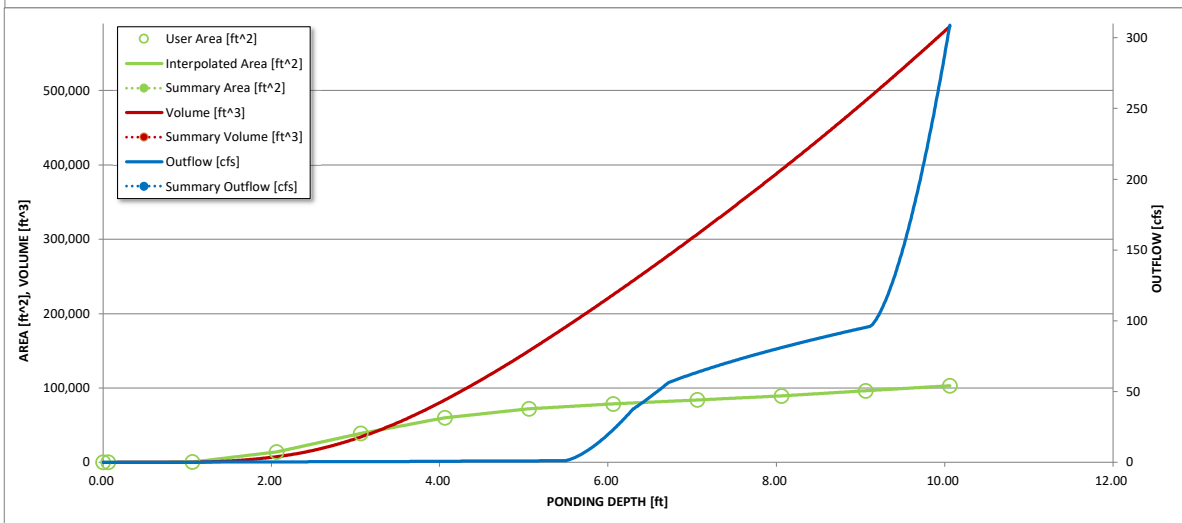
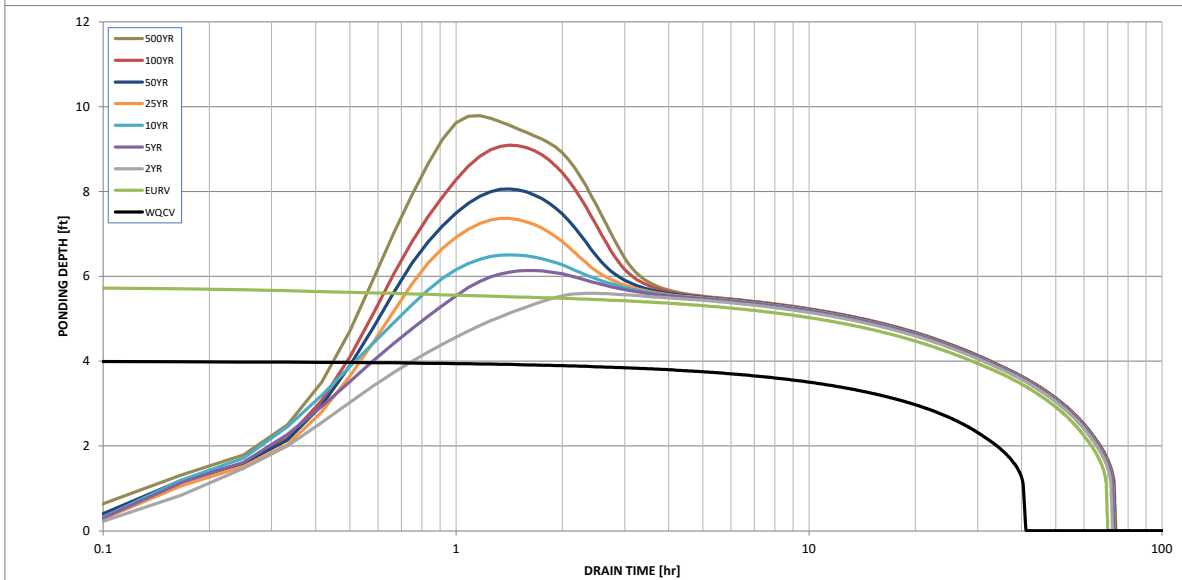
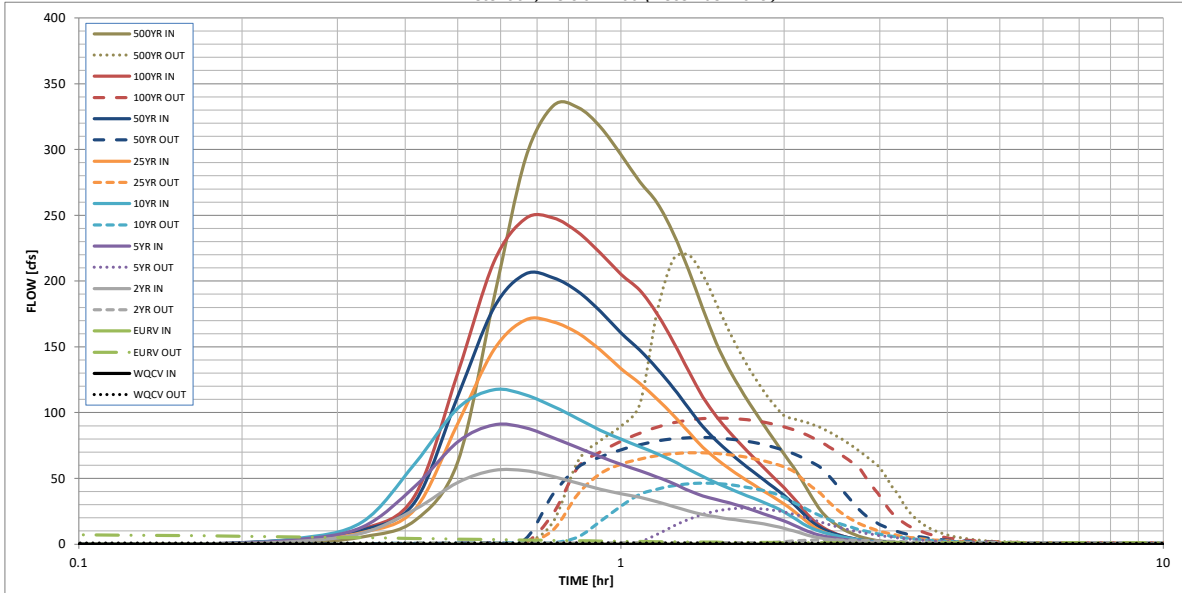
**Routed Hydrograph Results**

*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	1.19	1.50	1.75	2.00	2.25	2.52	3.14
One-Hour Rainfall Depth (in) =	N/A	N/A	1.19	1.50	1.75	2.00	2.25	2.52	3.14
CUHP Runoff Volume (acre-ft) =	1.834	4.664	4.688	7.414	9.906	13.603	16.440	20.186	27.480
Inflow Hydrograph Volume (acre-ft) =	N/A	N/A	4.688	7.414	9.906	13.603	16.440	20.186	27.480
CUHP Predevelopment Peak Q (cfs) =	N/A	N/A	13.4	37.5	57.3	104.5	131.2	167.6	233.6
OPTIONAL Override Predevelopment Peak Q (cfs) =	N/A	N/A							
Predevelopment Unit Peak Flow, q (cfs/acre) =	N/A	N/A	0.10	0.27	0.42	0.76	0.95	1.22	1.70
Peak Inflow Q (cfs) =	N/A	N/A	56.0	90.7	117.3	170.5	205.3	248.0	333.2
Peak Outflow Q (cfs) =	0.8	8.5	3.2	27.3	46.4	69.4	81.0	95.8	219.8
Ratio Peak Outflow to Predevelopment Q =	N/A	N/A	N/A	0.7	0.8	0.7	0.6	0.6	0.9
Structure Controlling Flow =	Plate	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Overflow Weir 1	Spillway
Max Velocity through Gate 1 (fps) =	N/A	0.47	0.12	1.5	2.6	3.9	4.6	5.4	5.9
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	64	66	64	62	59	57	55	51
Time to Drain 99% of Inflow Volume (hours) =	40	68	70	69	69	67	66	65	63
Maximum Ponding Depth (ft) =	4.00	5.78	5.60	6.13	6.51	7.36	8.06	9.09	9.78
Area at Maximum Ponding Depth (acres) =	1.35	1.76	1.74	1.82	1.86	1.97	2.05	2.22	2.32
Maximum Volume Stored (acre-ft) =	1.842	4.672	4.339	5.299	5.979	7.624	9.011	11.231	12.798

## DETENTION BASIN OUTLET STRUCTURE DESIGN

MHFD-Detention, Version 4.00 (December 2019)



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

# AS-BUILT

## 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.

Time Interval	SOURCE	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	CUHP	
	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	0.00	0.23	0.02	0.76
	0:15:00	0.00	0.00	1.99	3.30	4.11	2.78	3.64	3.44	5.44	5.44
	0:20:00	0.00	0.00	8.39	12.96	16.93	8.92	10.64	11.40	17.91	17.91
	0:25:00	0.00	0.00	26.34	43.86	61.18	26.51	31.98	36.78	62.34	62.34
	0:30:00	0.00	0.00	46.89	77.60	103.21	91.54	112.33	129.91	186.76	186.76
	0:35:00	0.00	0.00	56.03	90.69	117.31	147.73	179.60	214.31	293.25	293.25
	0:40:00	0.00	0.00	55.89	88.40	113.46	170.46	205.33	247.53	333.19	333.19
	0:45:00	0.00	0.00	51.40	80.81	104.73	168.89	202.47	247.99	331.98	331.98
	0:50:00	0.00	0.00	46.26	73.36	95.32	160.35	192.08	237.03	317.04	317.04
	0:55:00	0.00	0.00	41.79	66.43	86.57	147.49	176.88	221.13	296.05	296.05
	1:00:00	0.00	0.00	38.32	60.66	79.87	133.52	160.62	205.25	275.59	275.59
	1:05:00	0.00	0.00	35.54	55.78	74.18	122.18	147.46	192.91	259.37	259.37
	1:10:00	0.00	0.00	32.24	51.05	68.61	110.22	133.37	174.99	235.99	235.99
	1:15:00	0.00	0.00	28.66	46.02	63.14	97.87	118.67	153.56	208.13	208.13
	1:20:00	0.00	0.00	25.26	40.78	56.89	85.20	103.34	131.53	178.84	178.84
	1:25:00	0.00	0.00	22.59	36.73	51.34	73.54	89.28	111.80	152.80	152.80
	1:30:00	0.00	0.00	20.71	33.87	46.59	64.78	78.71	97.18	133.00	133.00
	1:35:00	0.00	0.00	19.22	31.46	42.38	57.46	69.84	85.54	117.05	117.05
	1:40:00	0.00	0.00	17.90	28.74	38.58	51.21	62.21	75.55	103.28	103.28
	1:45:00	0.00	0.00	16.63	25.84	35.08	45.53	55.27	66.53	90.81	90.81
	1:50:00	0.00	0.00	15.37	23.03	31.74	40.37	48.95	58.19	79.29	79.29
	1:55:00	0.00	0.00	13.79	20.34	28.29	35.41	42.88	50.31	68.41	68.41
	2:00:00	0.00	0.00	12.05	17.68	24.48	30.63	37.05	42.90	58.19	58.19
	2:05:00	0.00	0.00	10.01	14.54	20.00	25.20	30.41	34.96	47.12	47.12
	2:10:00	0.00	0.00	7.91	11.30	15.51	19.47	23.40	26.68	35.70	35.70
	2:15:00	0.00	0.00	6.02	8.54	11.97	14.18	16.98	19.11	25.69	25.69
	2:20:00	0.00	0.00	4.64	6.66	9.58	10.33	12.53	13.93	19.12	19.12
	2:25:00	0.00	0.00	3.75	5.40	7.83	7.79	9.55	10.40	14.47	14.47
	2:30:00	0.00	0.00	3.06	4.41	6.40	5.99	7.38	7.78	10.92	10.92
	2:35:00	0.00	0.00	2.52	3.61	5.20	4.63	5.71	5.79	8.18	8.18
	2:40:00	0.00	0.00	2.05	2.93	4.18	3.59	4.43	4.27	6.05	6.05
	2:45:00	0.00	0.00	1.66	2.35	3.31	2.77	3.41	3.09	4.40	4.40
	2:50:00	0.00	0.00	1.34	1.86	2.60	2.13	2.61	2.25	3.22	3.22
	2:55:00	0.00	0.00	1.08	1.47	2.03	1.65	2.02	1.76	2.51	2.51
	3:00:00	0.00	0.00	0.89	1.16	1.59	1.31	1.60	1.41	1.99	1.99
	3:05:00	0.00	0.00	0.71	0.90	1.24	1.03	1.26	1.13	1.59	1.59
	3:10:00	0.00	0.00	0.56	0.69	0.95	0.80	0.97	0.88	1.24	1.24
	3:15:00	0.00	0.00	0.42	0.51	0.72	0.60	0.73	0.66	0.93	0.93
	3:20:00	0.00	0.00	0.31	0.36	0.51	0.44	0.53	0.48	0.66	0.66
	3:25:00	0.00	0.00	0.21	0.24	0.34	0.30	0.36	0.32	0.44	0.44
	3:30:00	0.00	0.00	0.13	0.16	0.21	0.19	0.23	0.20	0.26	0.26
	3:35:00	0.00	0.00	0.07	0.09	0.11	0.11	0.12	0.10	0.13	0.13
	3:40:00	0.00	0.00	0.03	0.04	0.04	0.04	0.05	0.04	0.04	0.04
	3:45:00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	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	0.00
	3:55:00	0.00	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	0.00
	4:05:00	0.00	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	0.00
	4:15:00	0.00	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	0.00
	4:25:00	0.00	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	0.00
	4:35:00	0.00	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	0.00
	4:45:00	0.00	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	0.00
	4:55:00	0.00	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	0.00	
5:05:00	0.00	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	0.00	
5:15:00	0.00	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	0.00	
5:25:00	0.00	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	0.00	
5:35:00	0.00	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	0.00	
5:45:00	0.00	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	0.00	
5:55:00	0.00	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	0.00	



























