

Appendix K-5

Preliminary Hydrology Study for
Meridian Park Upper Plateau - Building B

PRELIMINARY HYDROLOGY STUDY

For:

Meridian Park Upper Plateau – Building B

Project Site Location/Address:
**SWC Cactus Avenue and Linebacker Drive
Riverside, CA**

Prepared For:
Meridian Park LLC
1156 N. Mountain Avenue
Upland, CA 91786
Contact: Timothy Reeves

Lead Agency:
March Joint Powers Authority
14205 Meridian Parkway #140
Riverside, CA 92518

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May 5, 2022

Project No. 20-750

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Section I

Introduction

The following hydrology study has been prepared for the development of the Meridian Business Center Upper Plateau – Building B project. The project consists of a +/- 1,250,000 sf warehouse building with associated parking and landscape. The site is located south of Cactus Avenue, east of Airman Drive, west of Linebacker Drive and north of Bunker Hills Drive in the County of Riverside, CA within the March Joint Powers Authority jurisdictional area. The project lies within the boundaries of the Upper Plateau portion Meridian South Campus Business Center. The overall project is approximately 23.7 acres. The general location of the site is illustrated on the Vicinity Map (see Appendix A of this report).

Section II

Methodology

The hydrologic analysis was completed assuming the ultimate project condition based on conceptual site plans. For both the existing and proposed conditions, the peak storm discharge for the drainage sub areas were calculated using the Riverside County Hydrology Manual. The CivilDesign Riverside County Unit Hydrograph software was used to develop hydrographs for the existing and proposed 2-year 24-Hour storm events (see calculations in Appendix C). A detention analysis was performed using Hydraflow Storm Sewers Software for the proposed storm events (see calculations in appendix D). A soil type of BC was assigned to the project site based on the Riverside County Flood Control and Water Conservation District Hydrology Manual Hydrologic Soils Group Map Plate C-1.16 (see portion of map in Appendix A). In such cases where a dual soil designation has been assigned, the more conservative value is recommended for use. For calculation purposes, a soil type of C was used for the project site. Soil group C is defined as soils having slow infiltration rates when thoroughly wetted and consisting chiefly of silty-loam soils with a layer that impedes downward movement of water, or soils with moderately fine to fine texture. These soils have a slow rate of water transmission.

Section III

Project Description

Existing Site Conditions

The pre development conditions for the site consist of rough graded land surface flowing to a desilting basin located at the northwest corner of the site. There are no sources of run-on to the site. Stormwater from the basin flows through a 24" riser and 24" RCP lateral connected to the 36" public storm drain under Airman Drive. Stormwater within the storm drain travels north under Airman Drive, west on Cactus Avenue and north on Barton Street. Stormwater outlets at a headwall to the west of Barton Street and stormwater then surface flows to a drain inlet to the east of Barton Street that conveys runoff through a parkway drain to the curb and gutter on Barton Street. Stormwater continues to gutter flow to the north through the existing residential development before heading east on Alessandro Boulevard and entering the first existing catch basin and 18" storm drain lateral per City of Riverside Storm drawing number D-579. After crossing under Alessandro Boulevard flowing to the north and converging with a 33" RCP (D-1000) flowing east, stormwater outlets through a headwall with a 10'x25' 2.7' thick rip rap pad into Sycamore Canyon Wilderness Park. The creeks within Sycamore Canyon Wilderness Park combine and flow into Sycamore Dam to the north, and later downstream the Santa Ana River.



Proposed Site Conditions

The proposed development will consist of the construction of 1,250,000 sf warehouse building along with parking, drive aisle and landscaped areas. The site will be divided into three separate watersheds. Each watershed will feature private storm drain lines collecting runoff from the surrounding site that will flow into respective detention basins. Diversion structures that feature a weir with an orifice placed at a calculated height will be installed downstream of each detention system. This design will allow the design capture volume (as calculated per MJPA/Riverside County WQMP requirements) to flow to the Modular Wetland Unit, while allowing higher flows to bypass the MWS unit while the weir and orifice hold back both the 2-year and 100-year storm to existing conditions. Detention System A will feature 3,960 linear feet of 60-inch pipe, Detention System B will feature 5,700 linear feet of 60-inch pipe, and Detention System C will feature 6,000 linear feet of 60-inch pipe. Watershed A and B will continue to flow to the existing 24" lateral serving the detention basin. Based on what is shown on the current conceptual utility plans for the upper plateau buildout, Watershed C will require an additional storm drain connection on Airman Drive to the 24" public storm drain to limit the amount of storm drain pipe on-site.

Section IV

Conclusion

The following tables summarize the data and results for the 2-year and 100-year 24-hour design storm in the existing and proposed conditions using the Riverside County Unit Hydrograph. The tables also show the approximate volume within the proposed detention systems that will be detained to meet existing flow rates.

2-YEAR 24-HOUR STORM HYDROGRAPH TABLE

| Watershed | Existing Flowrate (cfs) | Proposed Flowrate (cfs) | Volume to be detained (cf) | Flowrate After Detention (cfs) | Notes |
|--------------|-------------------------|-------------------------|----------------------------|--------------------------------|---|
| A | - | 2.440 | 46,474 | 0.274 | <ul style="list-style-type: none"> • Diversion Structure A: Weir Height: 3.45' Length: 0.75' 2.40" orifice at invert of weir • Diversion Structure B: Weir Height: 3.80' Length: 2.00' 3.10" orifice at invert of weir • Diversion Structure C: Weir Height: 3.80' Length: 2.20' 3.20" orifice at invert of weir |
| B | - | 4.100 | 82,292 | 0.479 | |
| C | - | 4.260 | 85,086 | 0.508 | |
| TOTAL | 1.279 | 10.80 | 213,852 | 1.261 | |

100-YEAR 24-HOUR STORM HYDROGRAPH TABLE

| Storm Duration | Existing Flowrate (cfs) | Proposed Flowrate (cfs) | Volume to be detained (cf) | Flowrate After Detention (cfs) | Notes |
|----------------|-------------------------|-------------------------|----------------------------|--------------------------------|---|
| A | - | 6.720 | 73,478 | 5.484 | <ul style="list-style-type: none"> • Diversion Structure A: Weir Height: 3.45' Length: 0.75' 2.40" orifice at invert of weir • Diversion Structure B: Weir Height: 3.80' Length: 2.00' 3.10" orifice at invert of weir • Diversion Structure C: Weir Height: 3.80' Length: 2.20' 3.20" orifice at invert of weir |
| B | - | 10.350 | 109,128 | 9.393 | |
| C | - | 10.760 | 113,745 | 9.811 | |
| TOTAL | 24.721 | 27.830 | 296,351 | 24.688 | |



The total proposed flow rate increased from the existing conditions prior to reaching the detention system. Hydraflow Storm Sewers Software used this hydrograph information to generate peak discharge rates for the proposed storm drain system utilizing the proposed detention system. Orifices sizes denoted in the Notes section of the table were placed at the invert of the weir to simulate both the modular wetlands outflow as well as the bypass orifice at the design capture volume height within the detention system. For the 2 year 24 hour storm, utilizing a total volume of 213,852 cf, the proposed flow rate after the detention systems dropped to 1.261 cfs which is lower than the existing flow of 1.279 cfs. For the 100 year 24 hour storm, utilizing a total volume of 296,351 cf, the proposed flow rate after the detention systems dropped to 24.688 cfs which is lower than the existing flow of 24.721 cfs.

APPENDIX A

VICINITY MAP



RAINFALL INTENSITY - INCHES PER HOUR

| MIRA LOMA | | | MURRIETA - TEMECULA & RANCHO CALIFORNIA | | | NORCO | | | PALM SPRINGS | | | PERRIS VALLEY | | |
|------------------|-------------------|--------------------|---|-------------------|--------------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|------------------|-------------------|--------------------|
| DURATION MINUTES | FREQUENCY 10 YEAR | FREQUENCY 100 YEAR | DURATION MINUTES | FREQUENCY 10 YEAR | FREQUENCY 100 YEAR | DURATION MINUTES | FREQUENCY 10 YEAR | FREQUENCY 100 YEAR | DURATION MINUTES | FREQUENCY 10 YEAR | FREQUENCY 100 YEAR | DURATION MINUTES | FREQUENCY 10 YEAR | FREQUENCY 100 YEAR |
| 5 | 2.84 | 4.48 | 5 | 3.45 | 5.10 | 5 | 2.77 | 4.16 | 5 | 4.23 | 6.76 | 5 | 2.64 | 3.78 |
| 6 | 2.58 | 4.07 | 6 | 3.12 | 4.61 | 6 | 2.53 | 3.79 | 6 | 3.80 | 6.08 | 6 | 2.41 | 3.46 |
| 7 | 2.37 | 3.75 | 7 | 2.87 | 4.24 | 7 | 2.34 | 3.51 | 7 | 3.48 | 5.56 | 7 | 2.24 | 3.21 |
| 8 | 2.21 | 3.49 | 8 | 2.67 | 3.94 | 8 | 2.19 | 3.29 | 8 | 3.22 | 5.15 | 8 | 2.09 | 3.01 |
| 9 | 2.08 | 3.28 | 9 | 2.50 | 3.69 | 9 | 2.07 | 3.10 | 9 | 3.01 | 4.81 | 9 | 1.98 | 2.84 |
| 10 | 1.96 | 3.10 | 10 | 2.36 | 3.48 | 10 | 1.96 | 2.94 | 10 | 2.83 | 4.52 | 10 | 1.88 | 2.69 |
| 11 | 1.87 | 2.95 | 11 | 2.24 | 3.30 | 11 | 1.87 | 2.80 | 11 | 2.67 | 4.28 | 11 | 1.79 | 2.57 |
| 12 | 1.78 | 2.82 | 12 | 2.13 | 3.15 | 12 | 1.79 | 2.68 | 12 | 2.54 | 4.07 | 12 | 1.72 | 2.46 |
| 13 | 1.71 | 2.70 | 13 | 2.04 | 3.01 | 13 | 1.72 | 2.58 | 13 | 2.43 | 3.88 | 13 | 1.65 | 2.37 |
| 14 | 1.64 | 2.60 | 14 | 1.96 | 2.89 | 14 | 1.66 | 2.48 | 14 | 2.33 | 3.72 | 14 | 1.59 | 2.29 |
| 15 | 1.58 | 2.50 | 15 | 1.89 | 2.79 | 15 | 1.60 | 2.40 | 15 | 2.23 | 3.58 | 15 | 1.54 | 2.21 |
| 16 | 1.53 | 2.42 | 16 | 1.82 | 2.69 | 16 | 1.55 | 2.32 | 16 | 2.15 | 3.44 | 16 | 1.49 | 2.14 |
| 17 | 1.48 | 2.34 | 17 | 1.76 | 2.60 | 17 | 1.50 | 2.25 | 17 | 2.08 | 3.32 | 17 | 1.45 | 2.08 |
| 18 | 1.44 | 2.27 | 18 | 1.71 | 2.52 | 18 | 1.46 | 2.19 | 18 | 2.01 | 3.22 | 18 | 1.41 | 2.02 |
| 19 | 1.40 | 2.21 | 19 | 1.66 | 2.45 | 19 | 1.42 | 2.13 | 19 | 1.95 | 3.12 | 19 | 1.37 | 1.97 |
| 20 | 1.36 | 2.15 | 20 | 1.61 | 2.38 | 20 | 1.39 | 2.08 | 20 | 1.89 | 3.03 | 20 | 1.34 | 1.92 |
| 22 | 1.29 | 2.04 | 22 | 1.53 | 2.26 | 22 | 1.32 | 1.98 | 22 | 1.79 | 2.86 | 22 | 1.28 | 1.83 |
| 24 | 1.24 | 1.95 | 24 | 1.46 | 2.15 | 24 | 1.26 | 1.90 | 24 | 1.70 | 2.72 | 24 | 1.22 | 1.75 |
| 26 | 1.18 | 1.87 | 26 | 1.39 | 2.06 | 26 | 1.22 | 1.82 | 26 | 1.62 | 2.60 | 26 | 1.18 | 1.69 |
| 28 | 1.14 | 1.80 | 28 | 1.34 | 1.98 | 28 | 1.17 | 1.76 | 28 | 1.56 | 2.49 | 28 | 1.13 | 1.63 |
| 30 | 1.10 | 1.73 | 30 | 1.29 | 1.90 | 30 | 1.13 | 1.70 | 30 | 1.49 | 2.39 | 30 | 1.10 | 1.57 |
| 32 | 1.06 | 1.67 | 32 | 1.24 | 1.84 | 32 | 1.10 | 1.64 | 32 | 1.44 | 2.30 | 32 | 1.06 | 1.52 |
| 34 | 1.03 | 1.62 | 34 | 1.20 | 1.78 | 34 | 1.06 | 1.59 | 34 | 1.39 | 2.22 | 34 | 1.03 | 1.48 |
| 36 | 1.00 | 1.57 | 36 | 1.17 | 1.72 | 36 | 1.03 | 1.55 | 36 | 1.34 | 2.15 | 36 | 1.00 | 1.44 |
| 38 | .97 | 1.53 | 38 | 1.13 | 1.67 | 38 | 1.01 | 1.51 | 38 | 1.30 | 2.09 | 38 | .98 | 1.40 |
| 40 | .94 | 1.49 | 40 | 1.10 | 1.62 | 40 | .98 | 1.47 | 40 | 1.27 | 2.02 | 40 | .95 | 1.37 |
| 45 | .89 | 1.40 | 45 | 1.03 | 1.52 | 45 | .92 | 1.39 | 45 | 1.18 | 1.89 | 45 | .90 | 1.29 |
| 50 | .84 | 1.32 | 50 | .97 | 1.44 | 50 | .88 | 1.31 | 50 | 1.11 | 1.78 | 50 | .85 | 1.22 |
| 55 | .80 | 1.26 | 55 | .92 | 1.36 | 55 | .84 | 1.25 | 55 | 1.05 | 1.68 | 55 | .81 | 1.17 |
| 60 | .76 | 1.20 | 60 | .88 | 1.30 | 60 | .80 | 1.20 | 60 | 1.00 | 1.60 | 60 | .78 | 1.12 |
| 65 | .73 | 1.15 | 65 | .84 | 1.24 | 65 | .77 | 1.15 | 65 | .95 | 1.53 | 65 | .75 | 1.08 |
| 70 | .70 | 1.11 | 70 | .81 | 1.19 | 70 | .74 | 1.11 | 70 | .91 | 1.46 | 70 | .72 | 1.04 |
| 75 | .68 | 1.07 | 75 | .78 | 1.15 | 75 | .72 | 1.07 | 75 | .88 | 1.41 | 75 | .70 | 1.00 |
| 80 | .65 | 1.03 | 80 | .75 | 1.11 | 80 | .69 | 1.04 | 80 | .85 | 1.35 | 80 | .68 | .97 |
| 85 | .63 | 1.00 | 85 | .73 | 1.07 | 85 | .67 | 1.01 | 85 | .82 | 1.31 | 85 | .66 | .94 |

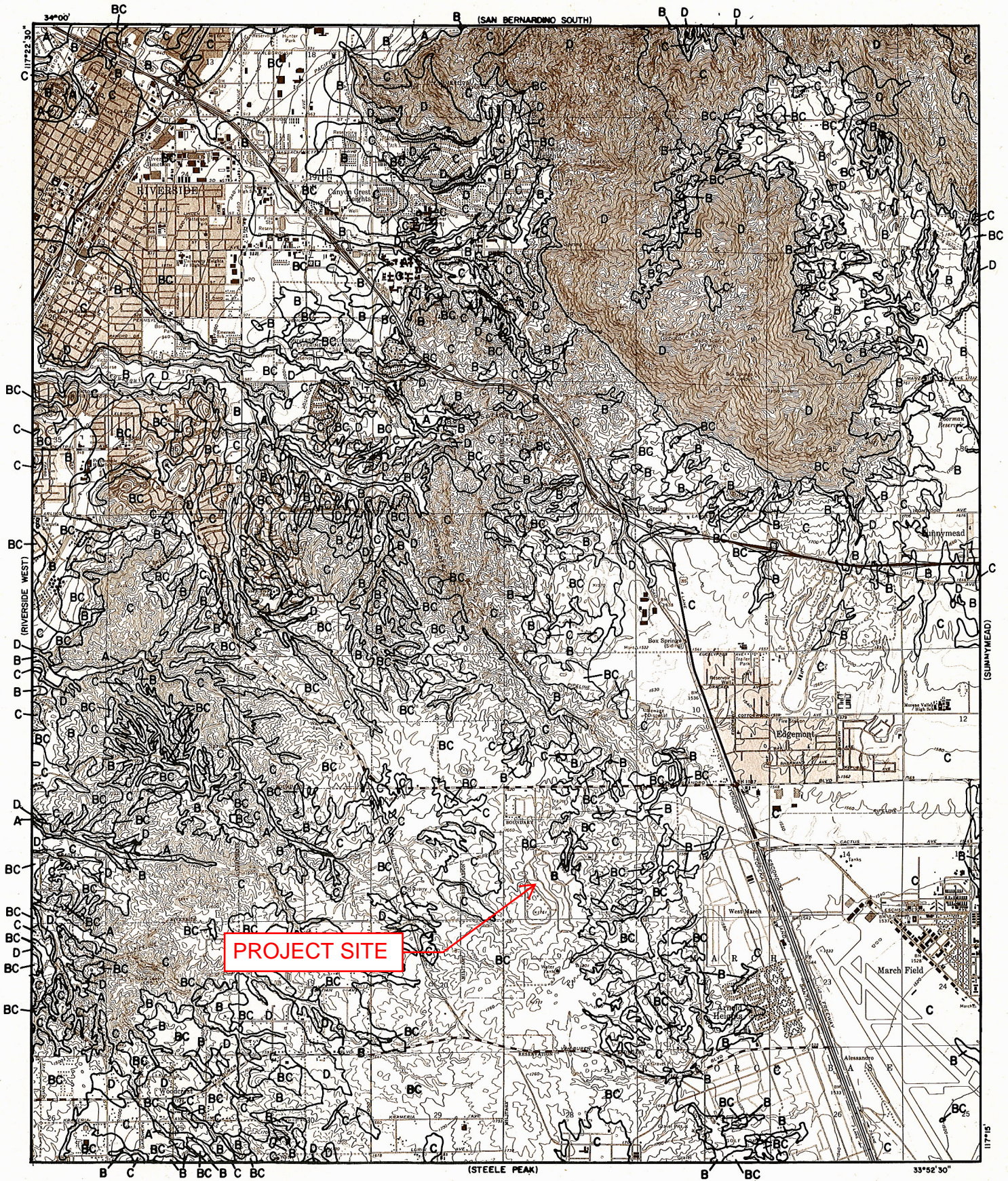
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SLOPE = .550

SLOPE = .500

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SLOPE = .490



LEGEND

— SOILS GROUP BOUNDARY
 A SOILS GROUP DESIGNATION

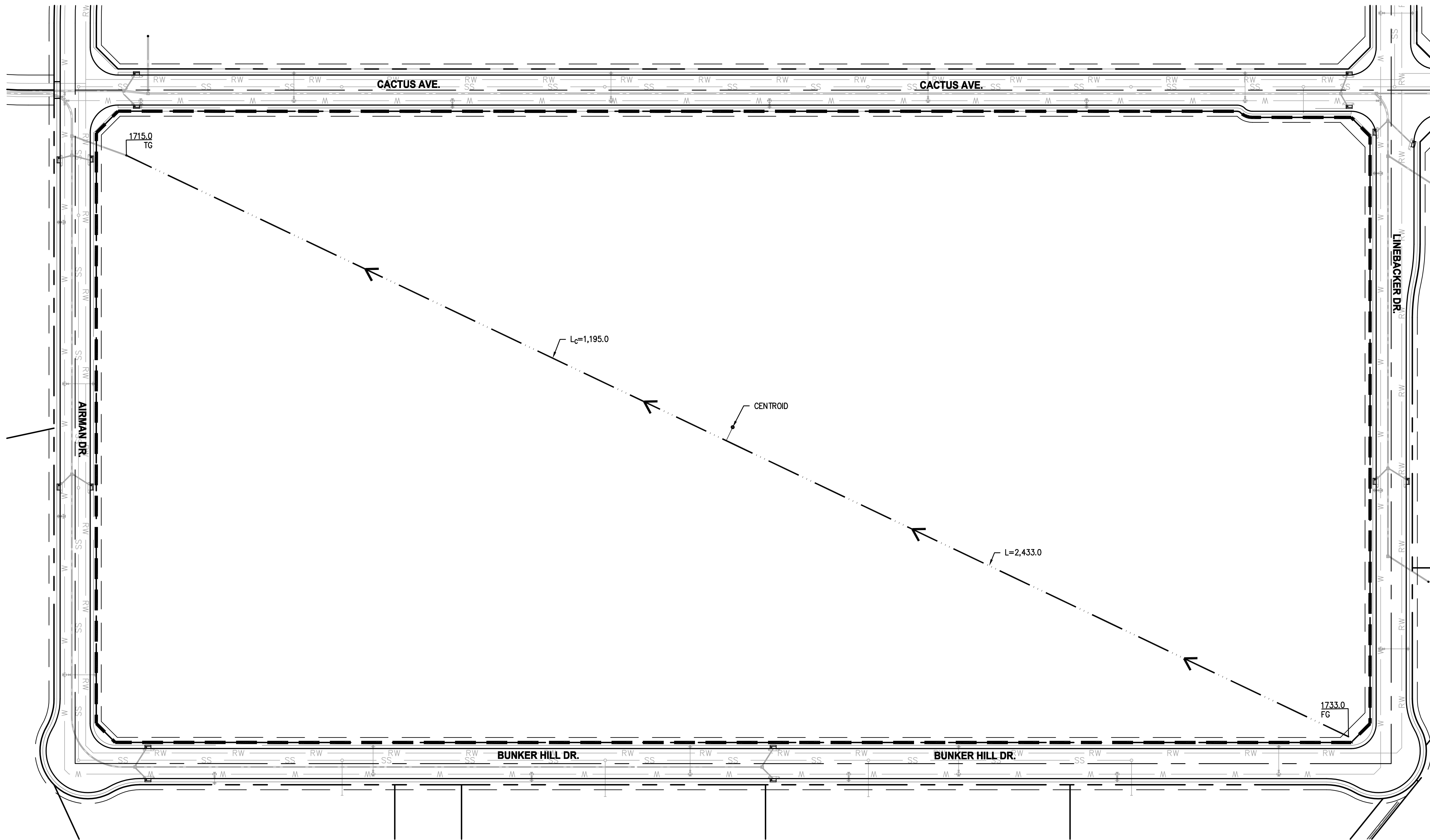
RCFC & WCD
 HYDROLOGY MANUAL

0 FEET 5000

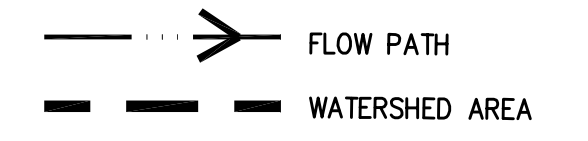
HYDROLOGIC SOILS GROUP MAP
FOR
RIVERSIDE-EAST

APPENDIX B

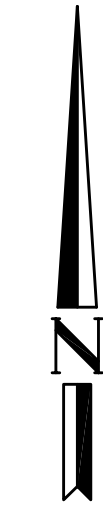
Existing Hydrology Map
Proposed Hydrology Map



LEGEND



SOIL GROUP: C [PLATE C1.30]
 AMC II RUNOFF INDEX NUMBER: 77 [OPEN BRUSH (SOFTWOOD SHRUBS - BUCKWHEAT, SAGE, ETC.)]
 IMPERVIOUS PERCENTAGE: 0.0%
 LENGTH: 2,433'
 LENGTH FROM CENTROID: 1,195'
 CHANGE IN ELEVATION: 18.0'
 LENGTH: 59.55 ACRES



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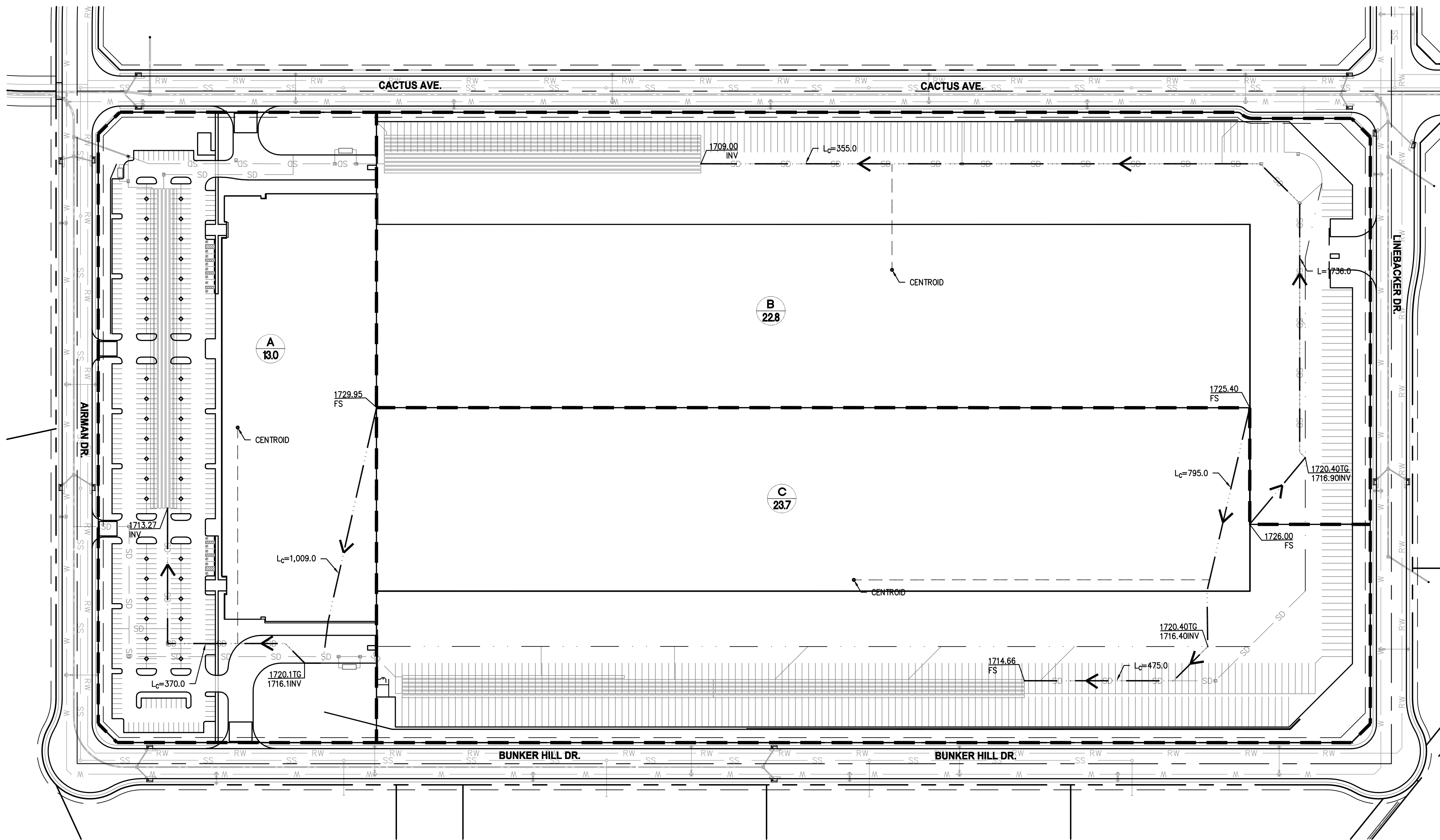
PROJECT: **MERIDIAN - UPPER PLATEAU LOT 17 - BUILDING B COUNTY OF RIVERSIDE, CALIFORNIA**

DRAWING NAME: **PROPOSED HYDROLOGY MAP**

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| ISSUE: | HYDROLOGY |
| DATE: | 05/06/2022 |
| CHECKED: KH | DRAWN: KH |
| DRAWING FILE: | |
| PROJECT NO.: | 20-760 |
| SHEET NUMBER: | 1 |
| OF | 1 SHEETS |
| SCALE: | AS SHOWN |

MDRC Engineering, Inc.
 CIVIL Engineering/Land Surveying/Land Planning

160 S. Old Springs Road
 Suite 210
 Anaheim Hills, CA 92808
 714-685-6860



LEGEND

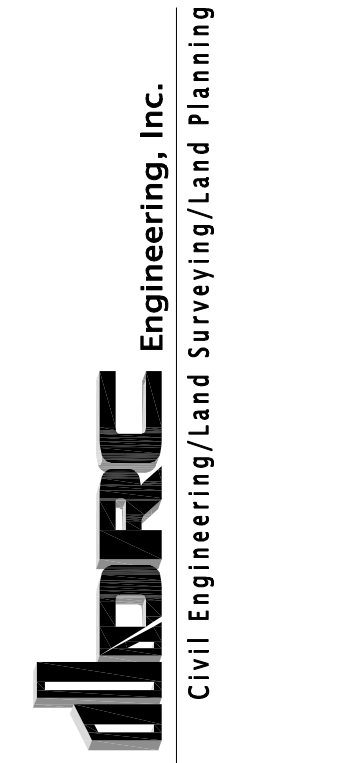
- FLOW PATH
- WATERSHED AREA
- WATERSHED NAME
- WATERSHED ACREAGE

AREA A
 SOIL GROUP: C [PLATE C1.30]
 AMC II RUNOFF INDEX NUMBER: 69 [COMMERCIAL L/S (LAWN, SHRUBS, ETC.)]
 IMPERVIOUS PERCENTAGE: 90.0%
 LENGTH: 1,009.0'
 LENGTH FROM CENTROID: 370'
 CHANGE IN ELEVATION: 12.7'
 AREA: 13.0 ACRES

AREA B
 SOIL GROUP: C [PLATE C1.30]
 AMC II RUNOFF INDEX NUMBER: 69 [COMMERCIAL L/S (LAWN, SHRUBS, ETC.)]
 IMPERVIOUS PERCENTAGE: 90.0%
 LENGTH: 1,736'
 LENGTH FROM CENTROID: 355'
 CHANGE IN ELEVATION: 13.5'
 AREA: 22.8 ACRES

AREA C
 SOIL GROUP: C [PLATE C1.30]
 AMC II RUNOFF INDEX NUMBER: 69 [COMMERCIAL L/S (LAWN, SHRUBS, ETC.)]
 IMPERVIOUS PERCENTAGE: 90.0%
 LENGTH: 795'
 LENGTH FROM CENTROID: 475'
 CHANGE IN ELEVATION: 6.8'
 AREA: 23.7 ACRES

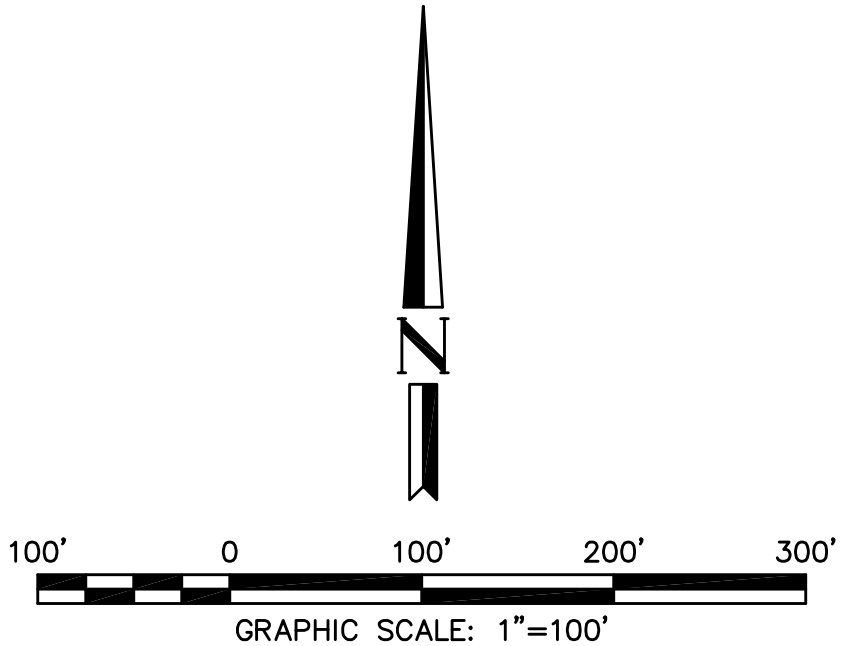
160 S. Old Springs Road
 Suite 210
 Anaheim Hills, CA 92808
 714-685-6860



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PROJECT: MERIDIAN - UPPER PLATEAU LOT 17 - BUILDING B
 COUNTY OF RIVERSIDE, CALIFORNIA
DRAWING NAME: PROPOSED HYDROLOGY MAP

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| ISSUE: | HYDROLOGY |
| DATE: | 05/06/2022 |
| CHECKED: | KH |
| DRAWN: | KH |
| DRAWING FILE: | |
| PROJECT NO.: | 20-780 |
| SHEET NUMBER: | 1 |
| OF | 1 SHEETS |
| SCALE: | AS SHOWN |



NOT FOR CONSTRUCTION

APPENDIX C

Existing Condition Hydrograph (Unit Riverside)
Proposed Condition Hydrograph (Unit Riverside)

Unit Hydrograph Analysis

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 03/24/22 File: 20750BE242.out

+++++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6310

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

20-750 Building B
Existing
2 year 24 hour

Drainage Area = 59.55(Ac.) = 0.093 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 59.55(Ac.) = 0.093
Sq. Mi.
Length along longest watercourse = 2433.00(Ft.)
Length along longest watercourse measured to centroid = 1195.00(Ft.)
Length along longest watercourse = 0.461 Mi.
Length along longest watercourse measured to centroid = 0.226 Mi.
Difference in elevation = 18.00(Ft.)
Slope along watercourse = 39.0629 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.152 Hr.
Lag time = 9.12 Min.
25% of lag time = 2.28 Min.
40% of lag time = 3.65 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

| Area(Ac.) [1] | Rainfall(In) [2] | Weighting[1*2] |
|---------------|------------------|----------------|
| 59.55 | 1.60 | 95.28 |

100 YEAR Area rainfall data:

| Area(Ac.) [1] | Rainfall(In) [2] | Weighting[1*2] |
|---------------|------------------|----------------|
| 59.55 | 4.00 | 238.20 |

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.600 (In)
 Area Averaged 100-Year Rainfall = 4.000 (In)

Point rain (area averaged) = 1.600 (In)
 Areal adjustment factor = 99.99 %
 Adjusted average point rain = 1.600 (In)

Sub-Area Data:

Area (Ac.) Runoff Index Impervious %
 59.550 77.00 0.000
 Total Area Entered = 59.55 (Ac.)

| | | | | | | |
|------|-------|-------------|------------|------------------|--------|-----------------|
| RI | RI | Infil. Rate | Impervious | Adj. Infil. Rate | Area% | F |
| AMC2 | AMC-1 | (In/Hr) | (Dec.%) | (In/Hr) | (Dec.) | (In/Hr) |
| 77.0 | 59.4 | 0.476 | 0.000 | 0.476 | 1.000 | 0.476 |
| | | | | | | Sum (F) = 0.476 |

Area averaged mean soil loss (F) (In/Hr) = 0.476
 Minimum soil loss rate ((In/Hr)) = 0.238
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.900

 U n i t H y d r o g r a p h
 VALLEY S-Curve

Unit Hydrograph Data

| Unit time period (hrs) | Time % of lag | Distribution Graph % | Unit Hydrograph (CFS) |
|---------------------------|---------------|-------------------------|--------------------------|
| 1 | 0.083 | 54.826 | 4.252 |
| 2 | 0.167 | 109.653 | 18.065 |
| 3 | 0.250 | 164.479 | 16.839 |
| 4 | 0.333 | 219.305 | 6.865 |
| 5 | 0.417 | 274.132 | 3.853 |
| 6 | 0.500 | 328.958 | 2.651 |
| 7 | 0.583 | 383.785 | 1.918 |
| 8 | 0.667 | 438.611 | 1.389 |
| 9 | 0.750 | 493.437 | 1.050 |
| 10 | 0.833 | 548.264 | 0.887 |
| 11 | 0.917 | 603.090 | 0.664 |
| 12 | 1.000 | 657.916 | 0.518 |
| 13 | 1.083 | 712.743 | 0.377 |
| 14 | 1.167 | 767.569 | 0.329 |
| 15 | 1.250 | 822.395 | 0.359 |
| | | Sum = 100.000 | Sum= 60.015 |

 The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

| Unit Time (Hr.) | Pattern Percent | Storm Rain (In/Hr) | Loss rate (In./Hr) | | Effective (In/Hr) |
|--------------------|--------------------|-----------------------|--------------------|-------|----------------------|
| | | | Max | Low | |
| 1 | 0.08 | 0.013 | (0.844) | 0.012 | 0.001 |
| 2 | 0.17 | 0.013 | (0.841) | 0.012 | 0.001 |
| 3 | 0.25 | 0.013 | (0.838) | 0.012 | 0.001 |
| 4 | 0.33 | 0.019 | (0.834) | 0.017 | 0.002 |

| | | | | | | |
|----|------|------|-------|----------|-------|-------|
| 5 | 0.42 | 0.10 | 0.019 | (0.831) | 0.017 | 0.002 |
| 6 | 0.50 | 0.10 | 0.019 | (0.828) | 0.017 | 0.002 |
| 7 | 0.58 | 0.10 | 0.019 | (0.825) | 0.017 | 0.002 |
| 8 | 0.67 | 0.10 | 0.019 | (0.821) | 0.017 | 0.002 |
| 9 | 0.75 | 0.10 | 0.019 | (0.818) | 0.017 | 0.002 |
| 10 | 0.83 | 0.13 | 0.026 | (0.815) | 0.023 | 0.003 |
| 11 | 0.92 | 0.13 | 0.026 | (0.812) | 0.023 | 0.003 |
| 12 | 1.00 | 0.13 | 0.026 | (0.808) | 0.023 | 0.003 |
| 13 | 1.08 | 0.10 | 0.019 | (0.805) | 0.017 | 0.002 |
| 14 | 1.17 | 0.10 | 0.019 | (0.802) | 0.017 | 0.002 |
| 15 | 1.25 | 0.10 | 0.019 | (0.799) | 0.017 | 0.002 |
| 16 | 1.33 | 0.10 | 0.019 | (0.796) | 0.017 | 0.002 |
| 17 | 1.42 | 0.10 | 0.019 | (0.793) | 0.017 | 0.002 |
| 18 | 1.50 | 0.10 | 0.019 | (0.789) | 0.017 | 0.002 |
| 19 | 1.58 | 0.10 | 0.019 | (0.786) | 0.017 | 0.002 |
| 20 | 1.67 | 0.10 | 0.019 | (0.783) | 0.017 | 0.002 |
| 21 | 1.75 | 0.10 | 0.019 | (0.780) | 0.017 | 0.002 |
| 22 | 1.83 | 0.13 | 0.026 | (0.777) | 0.023 | 0.003 |
| 23 | 1.92 | 0.13 | 0.026 | (0.774) | 0.023 | 0.003 |
| 24 | 2.00 | 0.13 | 0.026 | (0.771) | 0.023 | 0.003 |
| 25 | 2.08 | 0.13 | 0.026 | (0.767) | 0.023 | 0.003 |
| 26 | 2.17 | 0.13 | 0.026 | (0.764) | 0.023 | 0.003 |
| 27 | 2.25 | 0.13 | 0.026 | (0.761) | 0.023 | 0.003 |
| 28 | 2.33 | 0.13 | 0.026 | (0.758) | 0.023 | 0.003 |
| 29 | 2.42 | 0.13 | 0.026 | (0.755) | 0.023 | 0.003 |
| 30 | 2.50 | 0.13 | 0.026 | (0.752) | 0.023 | 0.003 |
| 31 | 2.58 | 0.17 | 0.032 | (0.749) | 0.029 | 0.003 |
| 32 | 2.67 | 0.17 | 0.032 | (0.746) | 0.029 | 0.003 |
| 33 | 2.75 | 0.17 | 0.032 | (0.743) | 0.029 | 0.003 |
| 34 | 2.83 | 0.17 | 0.032 | (0.740) | 0.029 | 0.003 |
| 35 | 2.92 | 0.17 | 0.032 | (0.737) | 0.029 | 0.003 |
| 36 | 3.00 | 0.17 | 0.032 | (0.734) | 0.029 | 0.003 |
| 37 | 3.08 | 0.17 | 0.032 | (0.731) | 0.029 | 0.003 |
| 38 | 3.17 | 0.17 | 0.032 | (0.728) | 0.029 | 0.003 |
| 39 | 3.25 | 0.17 | 0.032 | (0.724) | 0.029 | 0.003 |
| 40 | 3.33 | 0.17 | 0.032 | (0.721) | 0.029 | 0.003 |
| 41 | 3.42 | 0.17 | 0.032 | (0.718) | 0.029 | 0.003 |
| 42 | 3.50 | 0.17 | 0.032 | (0.715) | 0.029 | 0.003 |
| 43 | 3.58 | 0.17 | 0.032 | (0.712) | 0.029 | 0.003 |
| 44 | 3.67 | 0.17 | 0.032 | (0.709) | 0.029 | 0.003 |
| 45 | 3.75 | 0.17 | 0.032 | (0.706) | 0.029 | 0.003 |
| 46 | 3.83 | 0.20 | 0.038 | (0.704) | 0.035 | 0.004 |
| 47 | 3.92 | 0.20 | 0.038 | (0.701) | 0.035 | 0.004 |
| 48 | 4.00 | 0.20 | 0.038 | (0.698) | 0.035 | 0.004 |
| 49 | 4.08 | 0.20 | 0.038 | (0.695) | 0.035 | 0.004 |
| 50 | 4.17 | 0.20 | 0.038 | (0.692) | 0.035 | 0.004 |
| 51 | 4.25 | 0.20 | 0.038 | (0.689) | 0.035 | 0.004 |
| 52 | 4.33 | 0.23 | 0.045 | (0.686) | 0.040 | 0.004 |
| 53 | 4.42 | 0.23 | 0.045 | (0.683) | 0.040 | 0.004 |
| 54 | 4.50 | 0.23 | 0.045 | (0.680) | 0.040 | 0.004 |
| 55 | 4.58 | 0.23 | 0.045 | (0.677) | 0.040 | 0.004 |
| 56 | 4.67 | 0.23 | 0.045 | (0.674) | 0.040 | 0.004 |
| 57 | 4.75 | 0.23 | 0.045 | (0.671) | 0.040 | 0.004 |
| 58 | 4.83 | 0.27 | 0.051 | (0.668) | 0.046 | 0.005 |
| 59 | 4.92 | 0.27 | 0.051 | (0.665) | 0.046 | 0.005 |
| 60 | 5.00 | 0.27 | 0.051 | (0.663) | 0.046 | 0.005 |
| 61 | 5.08 | 0.20 | 0.038 | (0.660) | 0.035 | 0.004 |
| 62 | 5.17 | 0.20 | 0.038 | (0.657) | 0.035 | 0.004 |
| 63 | 5.25 | 0.20 | 0.038 | (0.654) | 0.035 | 0.004 |
| 64 | 5.33 | 0.23 | 0.045 | (0.651) | 0.040 | 0.004 |

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|-----|-------|------|-------|----------|-------|-------|
| 65 | 5.42 | 0.23 | 0.045 | (0.648) | 0.040 | 0.004 |
| 66 | 5.50 | 0.23 | 0.045 | (0.645) | 0.040 | 0.004 |
| 67 | 5.58 | 0.27 | 0.051 | (0.643) | 0.046 | 0.005 |
| 68 | 5.67 | 0.27 | 0.051 | (0.640) | 0.046 | 0.005 |
| 69 | 5.75 | 0.27 | 0.051 | (0.637) | 0.046 | 0.005 |
| 70 | 5.83 | 0.27 | 0.051 | (0.634) | 0.046 | 0.005 |
| 71 | 5.92 | 0.27 | 0.051 | (0.631) | 0.046 | 0.005 |
| 72 | 6.00 | 0.27 | 0.051 | (0.628) | 0.046 | 0.005 |
| 73 | 6.08 | 0.30 | 0.058 | (0.626) | 0.052 | 0.006 |
| 74 | 6.17 | 0.30 | 0.058 | (0.623) | 0.052 | 0.006 |
| 75 | 6.25 | 0.30 | 0.058 | (0.620) | 0.052 | 0.006 |
| 76 | 6.33 | 0.30 | 0.058 | (0.617) | 0.052 | 0.006 |
| 77 | 6.42 | 0.30 | 0.058 | (0.615) | 0.052 | 0.006 |
| 78 | 6.50 | 0.30 | 0.058 | (0.612) | 0.052 | 0.006 |
| 79 | 6.58 | 0.33 | 0.064 | (0.609) | 0.058 | 0.006 |
| 80 | 6.67 | 0.33 | 0.064 | (0.606) | 0.058 | 0.006 |
| 81 | 6.75 | 0.33 | 0.064 | (0.604) | 0.058 | 0.006 |
| 82 | 6.83 | 0.33 | 0.064 | (0.601) | 0.058 | 0.006 |
| 83 | 6.92 | 0.33 | 0.064 | (0.598) | 0.058 | 0.006 |
| 84 | 7.00 | 0.33 | 0.064 | (0.595) | 0.058 | 0.006 |
| 85 | 7.08 | 0.33 | 0.064 | (0.593) | 0.058 | 0.006 |
| 86 | 7.17 | 0.33 | 0.064 | (0.590) | 0.058 | 0.006 |
| 87 | 7.25 | 0.33 | 0.064 | (0.587) | 0.058 | 0.006 |
| 88 | 7.33 | 0.37 | 0.070 | (0.585) | 0.063 | 0.007 |
| 89 | 7.42 | 0.37 | 0.070 | (0.582) | 0.063 | 0.007 |
| 90 | 7.50 | 0.37 | 0.070 | (0.579) | 0.063 | 0.007 |
| 91 | 7.58 | 0.40 | 0.077 | (0.577) | 0.069 | 0.008 |
| 92 | 7.67 | 0.40 | 0.077 | (0.574) | 0.069 | 0.008 |
| 93 | 7.75 | 0.40 | 0.077 | (0.571) | 0.069 | 0.008 |
| 94 | 7.83 | 0.43 | 0.083 | (0.569) | 0.075 | 0.008 |
| 95 | 7.92 | 0.43 | 0.083 | (0.566) | 0.075 | 0.008 |
| 96 | 8.00 | 0.43 | 0.083 | (0.563) | 0.075 | 0.008 |
| 97 | 8.08 | 0.50 | 0.096 | (0.561) | 0.086 | 0.010 |
| 98 | 8.17 | 0.50 | 0.096 | (0.558) | 0.086 | 0.010 |
| 99 | 8.25 | 0.50 | 0.096 | (0.556) | 0.086 | 0.010 |
| 100 | 8.33 | 0.50 | 0.096 | (0.553) | 0.086 | 0.010 |
| 101 | 8.42 | 0.50 | 0.096 | (0.550) | 0.086 | 0.010 |
| 102 | 8.50 | 0.50 | 0.096 | (0.548) | 0.086 | 0.010 |
| 103 | 8.58 | 0.53 | 0.102 | (0.545) | 0.092 | 0.010 |
| 104 | 8.67 | 0.53 | 0.102 | (0.543) | 0.092 | 0.010 |
| 105 | 8.75 | 0.53 | 0.102 | (0.540) | 0.092 | 0.010 |
| 106 | 8.83 | 0.57 | 0.109 | (0.538) | 0.098 | 0.011 |
| 107 | 8.92 | 0.57 | 0.109 | (0.535) | 0.098 | 0.011 |
| 108 | 9.00 | 0.57 | 0.109 | (0.533) | 0.098 | 0.011 |
| 109 | 9.08 | 0.63 | 0.122 | (0.530) | 0.109 | 0.012 |
| 110 | 9.17 | 0.63 | 0.122 | (0.528) | 0.109 | 0.012 |
| 111 | 9.25 | 0.63 | 0.122 | (0.525) | 0.109 | 0.012 |
| 112 | 9.33 | 0.67 | 0.128 | (0.523) | 0.115 | 0.013 |
| 113 | 9.42 | 0.67 | 0.128 | (0.520) | 0.115 | 0.013 |
| 114 | 9.50 | 0.67 | 0.128 | (0.518) | 0.115 | 0.013 |
| 115 | 9.58 | 0.70 | 0.134 | (0.515) | 0.121 | 0.013 |
| 116 | 9.67 | 0.70 | 0.134 | (0.513) | 0.121 | 0.013 |
| 117 | 9.75 | 0.70 | 0.134 | (0.510) | 0.121 | 0.013 |
| 118 | 9.83 | 0.73 | 0.141 | (0.508) | 0.127 | 0.014 |
| 119 | 9.92 | 0.73 | 0.141 | (0.505) | 0.127 | 0.014 |
| 120 | 10.00 | 0.73 | 0.141 | (0.503) | 0.127 | 0.014 |
| 121 | 10.08 | 0.50 | 0.096 | (0.500) | 0.086 | 0.010 |
| 122 | 10.17 | 0.50 | 0.096 | (0.498) | 0.086 | 0.010 |
| 123 | 10.25 | 0.50 | 0.096 | (0.496) | 0.086 | 0.010 |
| 124 | 10.33 | 0.50 | 0.096 | (0.493) | 0.086 | 0.010 |

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|-----|-------|------|-------|----------|-------|-------|
| 125 | 10.42 | 0.50 | 0.096 | (0.491) | 0.086 | 0.010 |
| 126 | 10.50 | 0.50 | 0.096 | (0.488) | 0.086 | 0.010 |
| 127 | 10.58 | 0.67 | 0.128 | (0.486) | 0.115 | 0.013 |
| 128 | 10.67 | 0.67 | 0.128 | (0.484) | 0.115 | 0.013 |
| 129 | 10.75 | 0.67 | 0.128 | (0.481) | 0.115 | 0.013 |
| 130 | 10.83 | 0.67 | 0.128 | (0.479) | 0.115 | 0.013 |
| 131 | 10.92 | 0.67 | 0.128 | (0.476) | 0.115 | 0.013 |
| 132 | 11.00 | 0.67 | 0.128 | (0.474) | 0.115 | 0.013 |
| 133 | 11.08 | 0.63 | 0.122 | (0.472) | 0.109 | 0.012 |
| 134 | 11.17 | 0.63 | 0.122 | (0.469) | 0.109 | 0.012 |
| 135 | 11.25 | 0.63 | 0.122 | (0.467) | 0.109 | 0.012 |
| 136 | 11.33 | 0.63 | 0.122 | (0.465) | 0.109 | 0.012 |
| 137 | 11.42 | 0.63 | 0.122 | (0.463) | 0.109 | 0.012 |
| 138 | 11.50 | 0.63 | 0.122 | (0.460) | 0.109 | 0.012 |
| 139 | 11.58 | 0.57 | 0.109 | (0.458) | 0.098 | 0.011 |
| 140 | 11.67 | 0.57 | 0.109 | (0.456) | 0.098 | 0.011 |
| 141 | 11.75 | 0.57 | 0.109 | (0.453) | 0.098 | 0.011 |
| 142 | 11.83 | 0.60 | 0.115 | (0.451) | 0.104 | 0.012 |
| 143 | 11.92 | 0.60 | 0.115 | (0.449) | 0.104 | 0.012 |
| 144 | 12.00 | 0.60 | 0.115 | (0.447) | 0.104 | 0.012 |
| 145 | 12.08 | 0.83 | 0.160 | (0.444) | 0.144 | 0.016 |
| 146 | 12.17 | 0.83 | 0.160 | (0.442) | 0.144 | 0.016 |
| 147 | 12.25 | 0.83 | 0.160 | (0.440) | 0.144 | 0.016 |
| 148 | 12.33 | 0.87 | 0.166 | (0.438) | 0.150 | 0.017 |
| 149 | 12.42 | 0.87 | 0.166 | (0.436) | 0.150 | 0.017 |
| 150 | 12.50 | 0.87 | 0.166 | (0.433) | 0.150 | 0.017 |
| 151 | 12.58 | 0.93 | 0.179 | (0.431) | 0.161 | 0.018 |
| 152 | 12.67 | 0.93 | 0.179 | (0.429) | 0.161 | 0.018 |
| 153 | 12.75 | 0.93 | 0.179 | (0.427) | 0.161 | 0.018 |
| 154 | 12.83 | 0.97 | 0.186 | (0.425) | 0.167 | 0.019 |
| 155 | 12.92 | 0.97 | 0.186 | (0.423) | 0.167 | 0.019 |
| 156 | 13.00 | 0.97 | 0.186 | (0.420) | 0.167 | 0.019 |
| 157 | 13.08 | 1.13 | 0.218 | (0.418) | 0.196 | 0.022 |
| 158 | 13.17 | 1.13 | 0.218 | (0.416) | 0.196 | 0.022 |
| 159 | 13.25 | 1.13 | 0.218 | (0.414) | 0.196 | 0.022 |
| 160 | 13.33 | 1.13 | 0.218 | (0.412) | 0.196 | 0.022 |
| 161 | 13.42 | 1.13 | 0.218 | (0.410) | 0.196 | 0.022 |
| 162 | 13.50 | 1.13 | 0.218 | (0.408) | 0.196 | 0.022 |
| 163 | 13.58 | 0.77 | 0.147 | (0.406) | 0.132 | 0.015 |
| 164 | 13.67 | 0.77 | 0.147 | (0.404) | 0.132 | 0.015 |
| 165 | 13.75 | 0.77 | 0.147 | (0.402) | 0.132 | 0.015 |
| 166 | 13.83 | 0.77 | 0.147 | (0.400) | 0.132 | 0.015 |
| 167 | 13.92 | 0.77 | 0.147 | (0.398) | 0.132 | 0.015 |
| 168 | 14.00 | 0.77 | 0.147 | (0.395) | 0.132 | 0.015 |
| 169 | 14.08 | 0.90 | 0.173 | (0.393) | 0.156 | 0.017 |
| 170 | 14.17 | 0.90 | 0.173 | (0.391) | 0.156 | 0.017 |
| 171 | 14.25 | 0.90 | 0.173 | (0.389) | 0.156 | 0.017 |
| 172 | 14.33 | 0.87 | 0.166 | (0.387) | 0.150 | 0.017 |
| 173 | 14.42 | 0.87 | 0.166 | (0.385) | 0.150 | 0.017 |
| 174 | 14.50 | 0.87 | 0.166 | (0.384) | 0.150 | 0.017 |
| 175 | 14.58 | 0.87 | 0.166 | (0.382) | 0.150 | 0.017 |
| 176 | 14.67 | 0.87 | 0.166 | (0.380) | 0.150 | 0.017 |
| 177 | 14.75 | 0.87 | 0.166 | (0.378) | 0.150 | 0.017 |
| 178 | 14.83 | 0.83 | 0.160 | (0.376) | 0.144 | 0.016 |
| 179 | 14.92 | 0.83 | 0.160 | (0.374) | 0.144 | 0.016 |
| 180 | 15.00 | 0.83 | 0.160 | (0.372) | 0.144 | 0.016 |
| 181 | 15.08 | 0.80 | 0.154 | (0.370) | 0.138 | 0.015 |
| 182 | 15.17 | 0.80 | 0.154 | (0.368) | 0.138 | 0.015 |
| 183 | 15.25 | 0.80 | 0.154 | (0.366) | 0.138 | 0.015 |
| 184 | 15.33 | 0.77 | 0.147 | (0.364) | 0.132 | 0.015 |

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|-----|-------|------|-------|----------|-------|-------|
| 185 | 15.42 | 0.77 | 0.147 | (0.362) | 0.132 | 0.015 |
| 186 | 15.50 | 0.77 | 0.147 | (0.361) | 0.132 | 0.015 |
| 187 | 15.58 | 0.63 | 0.122 | (0.359) | 0.109 | 0.012 |
| 188 | 15.67 | 0.63 | 0.122 | (0.357) | 0.109 | 0.012 |
| 189 | 15.75 | 0.63 | 0.122 | (0.355) | 0.109 | 0.012 |
| 190 | 15.83 | 0.63 | 0.122 | (0.353) | 0.109 | 0.012 |
| 191 | 15.92 | 0.63 | 0.122 | (0.351) | 0.109 | 0.012 |
| 192 | 16.00 | 0.63 | 0.122 | (0.350) | 0.109 | 0.012 |
| 193 | 16.08 | 0.13 | 0.026 | (0.348) | 0.023 | 0.003 |
| 194 | 16.17 | 0.13 | 0.026 | (0.346) | 0.023 | 0.003 |
| 195 | 16.25 | 0.13 | 0.026 | (0.344) | 0.023 | 0.003 |
| 196 | 16.33 | 0.13 | 0.026 | (0.343) | 0.023 | 0.003 |
| 197 | 16.42 | 0.13 | 0.026 | (0.341) | 0.023 | 0.003 |
| 198 | 16.50 | 0.13 | 0.026 | (0.339) | 0.023 | 0.003 |
| 199 | 16.58 | 0.10 | 0.019 | (0.337) | 0.017 | 0.002 |
| 200 | 16.67 | 0.10 | 0.019 | (0.336) | 0.017 | 0.002 |
| 201 | 16.75 | 0.10 | 0.019 | (0.334) | 0.017 | 0.002 |
| 202 | 16.83 | 0.10 | 0.019 | (0.332) | 0.017 | 0.002 |
| 203 | 16.92 | 0.10 | 0.019 | (0.331) | 0.017 | 0.002 |
| 204 | 17.00 | 0.10 | 0.019 | (0.329) | 0.017 | 0.002 |
| 205 | 17.08 | 0.17 | 0.032 | (0.327) | 0.029 | 0.003 |
| 206 | 17.17 | 0.17 | 0.032 | (0.326) | 0.029 | 0.003 |
| 207 | 17.25 | 0.17 | 0.032 | (0.324) | 0.029 | 0.003 |
| 208 | 17.33 | 0.17 | 0.032 | (0.322) | 0.029 | 0.003 |
| 209 | 17.42 | 0.17 | 0.032 | (0.321) | 0.029 | 0.003 |
| 210 | 17.50 | 0.17 | 0.032 | (0.319) | 0.029 | 0.003 |
| 211 | 17.58 | 0.17 | 0.032 | (0.317) | 0.029 | 0.003 |
| 212 | 17.67 | 0.17 | 0.032 | (0.316) | 0.029 | 0.003 |
| 213 | 17.75 | 0.17 | 0.032 | (0.314) | 0.029 | 0.003 |
| 214 | 17.83 | 0.13 | 0.026 | (0.313) | 0.023 | 0.003 |
| 215 | 17.92 | 0.13 | 0.026 | (0.311) | 0.023 | 0.003 |
| 216 | 18.00 | 0.13 | 0.026 | (0.310) | 0.023 | 0.003 |
| 217 | 18.08 | 0.13 | 0.026 | (0.308) | 0.023 | 0.003 |
| 218 | 18.17 | 0.13 | 0.026 | (0.307) | 0.023 | 0.003 |
| 219 | 18.25 | 0.13 | 0.026 | (0.305) | 0.023 | 0.003 |
| 220 | 18.33 | 0.13 | 0.026 | (0.304) | 0.023 | 0.003 |
| 221 | 18.42 | 0.13 | 0.026 | (0.302) | 0.023 | 0.003 |
| 222 | 18.50 | 0.13 | 0.026 | (0.301) | 0.023 | 0.003 |
| 223 | 18.58 | 0.10 | 0.019 | (0.299) | 0.017 | 0.002 |
| 224 | 18.67 | 0.10 | 0.019 | (0.298) | 0.017 | 0.002 |
| 225 | 18.75 | 0.10 | 0.019 | (0.296) | 0.017 | 0.002 |
| 226 | 18.83 | 0.07 | 0.013 | (0.295) | 0.012 | 0.001 |
| 227 | 18.92 | 0.07 | 0.013 | (0.294) | 0.012 | 0.001 |
| 228 | 19.00 | 0.07 | 0.013 | (0.292) | 0.012 | 0.001 |
| 229 | 19.08 | 0.10 | 0.019 | (0.291) | 0.017 | 0.002 |
| 230 | 19.17 | 0.10 | 0.019 | (0.289) | 0.017 | 0.002 |
| 231 | 19.25 | 0.10 | 0.019 | (0.288) | 0.017 | 0.002 |
| 232 | 19.33 | 0.13 | 0.026 | (0.287) | 0.023 | 0.003 |
| 233 | 19.42 | 0.13 | 0.026 | (0.285) | 0.023 | 0.003 |
| 234 | 19.50 | 0.13 | 0.026 | (0.284) | 0.023 | 0.003 |
| 235 | 19.58 | 0.10 | 0.019 | (0.283) | 0.017 | 0.002 |
| 236 | 19.67 | 0.10 | 0.019 | (0.281) | 0.017 | 0.002 |
| 237 | 19.75 | 0.10 | 0.019 | (0.280) | 0.017 | 0.002 |
| 238 | 19.83 | 0.07 | 0.013 | (0.279) | 0.012 | 0.001 |
| 239 | 19.92 | 0.07 | 0.013 | (0.278) | 0.012 | 0.001 |
| 240 | 20.00 | 0.07 | 0.013 | (0.276) | 0.012 | 0.001 |
| 241 | 20.08 | 0.10 | 0.019 | (0.275) | 0.017 | 0.002 |
| 242 | 20.17 | 0.10 | 0.019 | (0.274) | 0.017 | 0.002 |
| 243 | 20.25 | 0.10 | 0.019 | (0.273) | 0.017 | 0.002 |
| 244 | 20.33 | 0.10 | 0.019 | (0.272) | 0.017 | 0.002 |

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|-----|-------|------|-------|----------|-------|-------|
| 245 | 20.42 | 0.10 | 0.019 | (0.271) | 0.017 | 0.002 |
| 246 | 20.50 | 0.10 | 0.019 | (0.269) | 0.017 | 0.002 |
| 247 | 20.58 | 0.10 | 0.019 | (0.268) | 0.017 | 0.002 |
| 248 | 20.67 | 0.10 | 0.019 | (0.267) | 0.017 | 0.002 |
| 249 | 20.75 | 0.10 | 0.019 | (0.266) | 0.017 | 0.002 |
| 250 | 20.83 | 0.07 | 0.013 | (0.265) | 0.012 | 0.001 |
| 251 | 20.92 | 0.07 | 0.013 | (0.264) | 0.012 | 0.001 |
| 252 | 21.00 | 0.07 | 0.013 | (0.263) | 0.012 | 0.001 |
| 253 | 21.08 | 0.10 | 0.019 | (0.262) | 0.017 | 0.002 |
| 254 | 21.17 | 0.10 | 0.019 | (0.261) | 0.017 | 0.002 |
| 255 | 21.25 | 0.10 | 0.019 | (0.260) | 0.017 | 0.002 |
| 256 | 21.33 | 0.07 | 0.013 | (0.259) | 0.012 | 0.001 |
| 257 | 21.42 | 0.07 | 0.013 | (0.258) | 0.012 | 0.001 |
| 258 | 21.50 | 0.07 | 0.013 | (0.257) | 0.012 | 0.001 |
| 259 | 21.58 | 0.10 | 0.019 | (0.256) | 0.017 | 0.002 |
| 260 | 21.67 | 0.10 | 0.019 | (0.255) | 0.017 | 0.002 |
| 261 | 21.75 | 0.10 | 0.019 | (0.254) | 0.017 | 0.002 |
| 262 | 21.83 | 0.07 | 0.013 | (0.253) | 0.012 | 0.001 |
| 263 | 21.92 | 0.07 | 0.013 | (0.252) | 0.012 | 0.001 |
| 264 | 22.00 | 0.07 | 0.013 | (0.251) | 0.012 | 0.001 |
| 265 | 22.08 | 0.10 | 0.019 | (0.251) | 0.017 | 0.002 |
| 266 | 22.17 | 0.10 | 0.019 | (0.250) | 0.017 | 0.002 |
| 267 | 22.25 | 0.10 | 0.019 | (0.249) | 0.017 | 0.002 |
| 268 | 22.33 | 0.07 | 0.013 | (0.248) | 0.012 | 0.001 |
| 269 | 22.42 | 0.07 | 0.013 | (0.247) | 0.012 | 0.001 |
| 270 | 22.50 | 0.07 | 0.013 | (0.247) | 0.012 | 0.001 |
| 271 | 22.58 | 0.07 | 0.013 | (0.246) | 0.012 | 0.001 |
| 272 | 22.67 | 0.07 | 0.013 | (0.245) | 0.012 | 0.001 |
| 273 | 22.75 | 0.07 | 0.013 | (0.245) | 0.012 | 0.001 |
| 274 | 22.83 | 0.07 | 0.013 | (0.244) | 0.012 | 0.001 |
| 275 | 22.92 | 0.07 | 0.013 | (0.243) | 0.012 | 0.001 |
| 276 | 23.00 | 0.07 | 0.013 | (0.243) | 0.012 | 0.001 |
| 277 | 23.08 | 0.07 | 0.013 | (0.242) | 0.012 | 0.001 |
| 278 | 23.17 | 0.07 | 0.013 | (0.242) | 0.012 | 0.001 |
| 279 | 23.25 | 0.07 | 0.013 | (0.241) | 0.012 | 0.001 |
| 280 | 23.33 | 0.07 | 0.013 | (0.241) | 0.012 | 0.001 |
| 281 | 23.42 | 0.07 | 0.013 | (0.240) | 0.012 | 0.001 |
| 282 | 23.50 | 0.07 | 0.013 | (0.240) | 0.012 | 0.001 |
| 283 | 23.58 | 0.07 | 0.013 | (0.239) | 0.012 | 0.001 |
| 284 | 23.67 | 0.07 | 0.013 | (0.239) | 0.012 | 0.001 |
| 285 | 23.75 | 0.07 | 0.013 | (0.239) | 0.012 | 0.001 |
| 286 | 23.83 | 0.07 | 0.013 | (0.238) | 0.012 | 0.001 |
| 287 | 23.92 | 0.07 | 0.013 | (0.238) | 0.012 | 0.001 |
| 288 | 24.00 | 0.07 | 0.013 | (0.238) | 0.012 | 0.001 |

(Loss Rate Not Used)

Sum = 100.0

Sum = 1.9

Flood volume = Effective rainfall 0.16(In)
times area 59.5(Ac.)/[(In)/(Ft.)] = 0.8(Ac.Ft)
Total soil loss = 1.44(In)
Total soil loss = 7.145(Ac.Ft)
Total rainfall = 1.60(In)
Flood volume = 34582.6 Cubic Feet
Total soil loss = 311243.6 Cubic Feet

Peak flow rate of this hydrograph = 1.279(CFS)

++++
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

| Time (h+m) | Volume | Ac.Ft | Q(CFS) | 0 | 2.5 | 5.0 | 7.5 | 10.0 |
|------------|--------|-------|--------|-----|-----|-----|-----|------|
| 0+ 5 | 0.0000 | | 0.01 | Q | | | | |
| 0+10 | 0.0002 | | 0.03 | Q | | | | |
| 0+15 | 0.0006 | | 0.05 | Q | | | | |
| 0+20 | 0.0010 | | 0.06 | Q | | | | |
| 0+25 | 0.0015 | | 0.08 | Q | | | | |
| 0+30 | 0.0022 | | 0.09 | Q | | | | |
| 0+35 | 0.0029 | | 0.10 | Q | | | | |
| 0+40 | 0.0036 | | 0.10 | Q | | | | |
| 0+45 | 0.0043 | | 0.11 | Q | | | | |
| 0+50 | 0.0051 | | 0.11 | Q | | | | |
| 0+55 | 0.0059 | | 0.12 | Q | | | | |
| 1+ 0 | 0.0069 | | 0.14 | Q | | | | |
| 1+ 5 | 0.0078 | | 0.14 | Q | | | | |
| 1+10 | 0.0087 | | 0.13 | Q | | | | |
| 1+15 | 0.0096 | | 0.12 | Q | | | | |
| 1+20 | 0.0104 | | 0.12 | Q | | | | |
| 1+25 | 0.0112 | | 0.12 | Q | | | | |
| 1+30 | 0.0121 | | 0.12 | Q | | | | |
| 1+35 | 0.0129 | | 0.12 | Q | | | | |
| 1+40 | 0.0137 | | 0.12 | Q | | | | |
| 1+45 | 0.0145 | | 0.12 | Q | | | | |
| 1+50 | 0.0153 | | 0.12 | Q | | | | |
| 1+55 | 0.0162 | | 0.13 | Q | | | | |
| 2+ 0 | 0.0172 | | 0.14 | Q | | | | |
| 2+ 5 | 0.0182 | | 0.15 | Q | | | | |
| 2+10 | 0.0192 | | 0.15 | Q | | | | |
| 2+15 | 0.0202 | | 0.15 | QV | | | | |
| 2+20 | 0.0212 | | 0.15 | QV | | | | |
| 2+25 | 0.0223 | | 0.15 | QV | | | | |
| 2+30 | 0.0233 | | 0.15 | QV | | | | |
| 2+35 | 0.0244 | | 0.15 | QV | | | | |
| 2+40 | 0.0255 | | 0.17 | QV | | | | |
| 2+45 | 0.0268 | | 0.18 | QV | | | | |
| 2+50 | 0.0280 | | 0.18 | QV | | | | |
| 2+55 | 0.0293 | | 0.19 | QV | | | | |
| 3+ 0 | 0.0306 | | 0.19 | QV | | | | |
| 3+ 5 | 0.0319 | | 0.19 | QV | | | | |
| 3+10 | 0.0332 | | 0.19 | QV | | | | |
| 3+15 | 0.0345 | | 0.19 | QV | | | | |
| 3+20 | 0.0358 | | 0.19 | QV | | | | |
| 3+25 | 0.0371 | | 0.19 | QV | | | | |
| 3+30 | 0.0384 | | 0.19 | QV | | | | |
| 3+35 | 0.0398 | | 0.19 | Q V | | | | |
| 3+40 | 0.0411 | | 0.19 | Q V | | | | |
| 3+45 | 0.0424 | | 0.19 | Q V | | | | |
| 3+50 | 0.0438 | | 0.19 | Q V | | | | |
| 3+55 | 0.0452 | | 0.21 | Q V | | | | |
| 4+ 0 | 0.0467 | | 0.22 | Q V | | | | |
| 4+ 5 | 0.0482 | | 0.22 | Q V | | | | |
| 4+10 | 0.0497 | | 0.22 | Q V | | | | |
| 4+15 | 0.0513 | | 0.23 | Q V | | | | |
| 4+20 | 0.0529 | | 0.23 | Q V | | | | |
| 4+25 | 0.0545 | | 0.24 | Q V | | | | |
| 4+30 | 0.0563 | | 0.25 | IQV | | | | |
| 4+35 | 0.0581 | | 0.26 | IQV | | | | |

| | | | | | | | | |
|------|--------|------|---|---|--|--|--|--|
| 4+40 | 0.0599 | 0.26 | Q | V | | | | |
| 4+45 | 0.0617 | 0.26 | Q | V | | | | |
| 4+50 | 0.0635 | 0.27 | Q | V | | | | |
| 4+55 | 0.0655 | 0.28 | Q | V | | | | |
| 5+ 0 | 0.0675 | 0.29 | Q | V | | | | |
| 5+ 5 | 0.0695 | 0.29 | Q | V | | | | |
| 5+10 | 0.0714 | 0.27 | Q | V | | | | |
| 5+15 | 0.0731 | 0.25 | Q | V | | | | |
| 5+20 | 0.0748 | 0.25 | Q | V | | | | |
| 5+25 | 0.0765 | 0.25 | Q | V | | | | |
| 5+30 | 0.0784 | 0.26 | Q | V | | | | |
| 5+35 | 0.0802 | 0.27 | Q | V | | | | |
| 5+40 | 0.0821 | 0.28 | Q | V | | | | |
| 5+45 | 0.0842 | 0.29 | Q | V | | | | |
| 5+50 | 0.0862 | 0.30 | Q | V | | | | |
| 5+55 | 0.0883 | 0.30 | Q | V | | | | |
| 6+ 0 | 0.0904 | 0.30 | Q | V | | | | |
| 6+ 5 | 0.0925 | 0.31 | Q | V | | | | |
| 6+10 | 0.0947 | 0.32 | Q | V | | | | |
| 6+15 | 0.0969 | 0.33 | Q | V | | | | |
| 6+20 | 0.0992 | 0.33 | Q | V | | | | |
| 6+25 | 0.1016 | 0.34 | Q | V | | | | |
| 6+30 | 0.1039 | 0.34 | Q | V | | | | |
| 6+35 | 0.1063 | 0.34 | Q | V | | | | |
| 6+40 | 0.1087 | 0.36 | Q | V | | | | |
| 6+45 | 0.1113 | 0.37 | Q | V | | | | |
| 6+50 | 0.1138 | 0.37 | Q | V | | | | |
| 6+55 | 0.1164 | 0.38 | Q | V | | | | |
| 7+ 0 | 0.1191 | 0.38 | Q | V | | | | |
| 7+ 5 | 0.1217 | 0.38 | Q | V | | | | |
| 7+10 | 0.1243 | 0.38 | Q | V | | | | |
| 7+15 | 0.1269 | 0.38 | Q | V | | | | |
| 7+20 | 0.1296 | 0.39 | Q | V | | | | |
| 7+25 | 0.1323 | 0.40 | Q | V | | | | |
| 7+30 | 0.1351 | 0.41 | Q | V | | | | |
| 7+35 | 0.1380 | 0.42 | Q | V | | | | |
| 7+40 | 0.1410 | 0.43 | Q | V | | | | |
| 7+45 | 0.1440 | 0.44 | Q | V | | | | |
| 7+50 | 0.1471 | 0.45 | Q | V | | | | |
| 7+55 | 0.1503 | 0.47 | Q | V | | | | |
| 8+ 0 | 0.1536 | 0.48 | Q | V | | | | |
| 8+ 5 | 0.1570 | 0.49 | Q | V | | | | |
| 8+10 | 0.1606 | 0.52 | Q | V | | | | |
| 8+15 | 0.1643 | 0.54 | Q | V | | | | |
| 8+20 | 0.1681 | 0.55 | Q | V | | | | |
| 8+25 | 0.1720 | 0.56 | Q | V | | | | |
| 8+30 | 0.1759 | 0.56 | Q | V | | | | |
| 8+35 | 0.1798 | 0.57 | Q | V | | | | |
| 8+40 | 0.1838 | 0.58 | Q | V | | | | |
| 8+45 | 0.1879 | 0.60 | Q | V | | | | |
| 8+50 | 0.1921 | 0.61 | Q | V | | | | |
| 8+55 | 0.1964 | 0.62 | Q | V | | | | |
| 9+ 0 | 0.2007 | 0.63 | Q | V | | | | |
| 9+ 5 | 0.2052 | 0.65 | Q | V | | | | |
| 9+10 | 0.2098 | 0.67 | Q | V | | | | |
| 9+15 | 0.2146 | 0.70 | Q | V | | | | |
| 9+20 | 0.2195 | 0.71 | Q | V | | | | |
| 9+25 | 0.2245 | 0.73 | Q | V | | | | |
| 9+30 | 0.2296 | 0.74 | Q | V | | | | |
| 9+35 | 0.2348 | 0.75 | Q | V | | | | |

| | | | | | | | | | |
|-------|--------|------|---|---|--|--|--|--|--|
| 9+40 | 0.2401 | 0.77 | Q | V | | | | | |
| 9+45 | 0.2455 | 0.78 | Q | V | | | | | |
| 9+50 | 0.2510 | 0.79 | Q | V | | | | | |
| 9+55 | 0.2565 | 0.81 | Q | V | | | | | |
| 10+ 0 | 0.2622 | 0.82 | Q | V | | | | | |
| 10+ 5 | 0.2678 | 0.81 | Q | V | | | | | |
| 10+10 | 0.2729 | 0.73 | Q | V | | | | | |
| 10+15 | 0.2774 | 0.66 | Q | V | | | | | |
| 10+20 | 0.2818 | 0.63 | Q | V | | | | | |
| 10+25 | 0.2861 | 0.62 | Q | V | | | | | |
| 10+30 | 0.2902 | 0.61 | Q | V | | | | | |
| 10+35 | 0.2945 | 0.61 | Q | V | | | | | |
| 10+40 | 0.2990 | 0.67 | Q | V | | | | | |
| 10+45 | 0.3040 | 0.72 | Q | V | | | | | |
| 10+50 | 0.3090 | 0.73 | Q | V | | | | | |
| 10+55 | 0.3141 | 0.74 | Q | V | | | | | |
| 11+ 0 | 0.3193 | 0.75 | Q | V | | | | | |
| 11+ 5 | 0.3245 | 0.75 | Q | V | | | | | |
| 11+10 | 0.3296 | 0.74 | Q | V | | | | | |
| 11+15 | 0.3346 | 0.73 | Q | V | | | | | |
| 11+20 | 0.3397 | 0.73 | Q | V | | | | | |
| 11+25 | 0.3447 | 0.73 | Q | V | | | | | |
| 11+30 | 0.3497 | 0.73 | Q | V | | | | | |
| 11+35 | 0.3547 | 0.73 | Q | V | | | | | |
| 11+40 | 0.3596 | 0.70 | Q | V | | | | | |
| 11+45 | 0.3643 | 0.68 | Q | V | | | | | |
| 11+50 | 0.3689 | 0.68 | Q | V | | | | | |
| 11+55 | 0.3736 | 0.68 | Q | V | | | | | |
| 12+ 0 | 0.3784 | 0.69 | Q | V | | | | | |
| 12+ 5 | 0.3833 | 0.71 | Q | V | | | | | |
| 12+10 | 0.3887 | 0.79 | Q | V | | | | | |
| 12+15 | 0.3947 | 0.87 | Q | V | | | | | |
| 12+20 | 0.4009 | 0.90 | Q | V | | | | | |
| 12+25 | 0.4073 | 0.93 | Q | V | | | | | |
| 12+30 | 0.4138 | 0.95 | Q | V | | | | | |
| 12+35 | 0.4205 | 0.97 | Q | V | | | | | |
| 12+40 | 0.4274 | 1.00 | Q | V | | | | | |
| 12+45 | 0.4345 | 1.03 | Q | V | | | | | |
| 12+50 | 0.4417 | 1.05 | Q | V | | | | | |
| 12+55 | 0.4490 | 1.07 | Q | V | | | | | |
| 13+ 0 | 0.4565 | 1.08 | Q | V | | | | | |
| 13+ 5 | 0.4641 | 1.11 | Q | V | | | | | |
| 13+10 | 0.4722 | 1.17 | Q | V | | | | | |
| 13+15 | 0.4807 | 1.23 | Q | V | | | | | |
| 13+20 | 0.4893 | 1.25 | Q | V | | | | | |
| 13+25 | 0.4981 | 1.27 | Q | V | | | | | |
| 13+30 | 0.5069 | 1.28 | Q | V | | | | | |
| 13+35 | 0.5155 | 1.26 | Q | V | | | | | |
| 13+40 | 0.5233 | 1.13 | Q | V | | | | | |
| 13+45 | 0.5304 | 1.02 | Q | V | | | | | |
| 13+50 | 0.5371 | 0.97 | Q | V | | | | | |
| 13+55 | 0.5436 | 0.95 | Q | V | | | | | |
| 14+ 0 | 0.5500 | 0.93 | Q | V | | | | | |
| 14+ 5 | 0.5565 | 0.93 | Q | V | | | | | |
| 14+10 | 0.5631 | 0.97 | Q | V | | | | | |
| 14+15 | 0.5701 | 1.01 | Q | V | | | | | |
| 14+20 | 0.5771 | 1.01 | Q | V | | | | | |
| 14+25 | 0.5840 | 1.01 | Q | V | | | | | |
| 14+30 | 0.5909 | 1.00 | Q | V | | | | | |
| 14+35 | 0.5978 | 1.00 | Q | V | | | | | |

| | | | | | | | |
|-------|--------|------|---|--|--|---|--|
| 14+40 | 0.6046 | 1.00 | Q | | | V | |
| 14+45 | 0.6115 | 1.00 | Q | | | V | |
| 14+50 | 0.6183 | 0.99 | Q | | | V | |
| 14+55 | 0.6251 | 0.98 | Q | | | V | |
| 15+ 0 | 0.6318 | 0.97 | Q | | | V | |
| 15+ 5 | 0.6385 | 0.97 | Q | | | V | |
| 15+10 | 0.6450 | 0.95 | Q | | | V | |
| 15+15 | 0.6515 | 0.94 | Q | | | V | |
| 15+20 | 0.6579 | 0.93 | Q | | | V | |
| 15+25 | 0.6643 | 0.92 | Q | | | V | |
| 15+30 | 0.6705 | 0.90 | Q | | | V | |
| 15+35 | 0.6766 | 0.89 | Q | | | V | |
| 15+40 | 0.6824 | 0.84 | Q | | | V | |
| 15+45 | 0.6878 | 0.79 | Q | | | V | |
| 15+50 | 0.6931 | 0.77 | Q | | | V | |
| 15+55 | 0.6983 | 0.76 | Q | | | V | |
| 16+ 0 | 0.7035 | 0.75 | Q | | | V | |
| 16+ 5 | 0.7084 | 0.71 | Q | | | V | |
| 16+10 | 0.7120 | 0.53 | Q | | | V | |
| 16+15 | 0.7145 | 0.36 | Q | | | V | |
| 16+20 | 0.7165 | 0.29 | Q | | | V | |
| 16+25 | 0.7183 | 0.26 | Q | | | V | |
| 16+30 | 0.7199 | 0.23 | Q | | | V | |
| 16+35 | 0.7213 | 0.21 | Q | | | V | |
| 16+40 | 0.7225 | 0.18 | Q | | | V | |
| 16+45 | 0.7236 | 0.16 | Q | | | V | |
| 16+50 | 0.7246 | 0.15 | Q | | | V | |
| 16+55 | 0.7256 | 0.14 | Q | | | V | |
| 17+ 0 | 0.7265 | 0.13 | Q | | | V | |
| 17+ 5 | 0.7274 | 0.13 | Q | | | V | |
| 17+10 | 0.7284 | 0.15 | Q | | | V | |
| 17+15 | 0.7296 | 0.17 | Q | | | V | |
| 17+20 | 0.7308 | 0.18 | Q | | | V | |
| 17+25 | 0.7320 | 0.18 | Q | | | V | |
| 17+30 | 0.7333 | 0.18 | Q | | | V | |
| 17+35 | 0.7346 | 0.19 | Q | | | V | |
| 17+40 | 0.7358 | 0.19 | Q | | | V | |
| 17+45 | 0.7371 | 0.19 | Q | | | V | |
| 17+50 | 0.7384 | 0.19 | Q | | | V | |
| 17+55 | 0.7396 | 0.18 | Q | | | V | |
| 18+ 0 | 0.7408 | 0.17 | Q | | | V | |
| 18+ 5 | 0.7419 | 0.16 | Q | | | V | |
| 18+10 | 0.7430 | 0.16 | Q | | | V | |
| 18+15 | 0.7441 | 0.16 | Q | | | V | |
| 18+20 | 0.7452 | 0.16 | Q | | | V | |
| 18+25 | 0.7462 | 0.16 | Q | | | V | |
| 18+30 | 0.7473 | 0.16 | Q | | | V | |
| 18+35 | 0.7484 | 0.15 | Q | | | V | |
| 18+40 | 0.7493 | 0.14 | Q | | | V | |
| 18+45 | 0.7502 | 0.13 | Q | | | V | |
| 18+50 | 0.7511 | 0.12 | Q | | | V | |
| 18+55 | 0.7518 | 0.11 | Q | | | V | |
| 19+ 0 | 0.7525 | 0.10 | Q | | | V | |
| 19+ 5 | 0.7531 | 0.09 | Q | | | V | |
| 19+10 | 0.7538 | 0.10 | Q | | | V | |
| 19+15 | 0.7545 | 0.11 | Q | | | V | |
| 19+20 | 0.7553 | 0.11 | Q | | | V | |
| 19+25 | 0.7562 | 0.13 | Q | | | V | |
| 19+30 | 0.7571 | 0.14 | Q | | | V | |
| 19+35 | 0.7581 | 0.14 | Q | | | V | |

| | | | | | | | | |
|-------|--------|------|---|--|--|--|---|--|
| 19+40 | 0.7590 | 0.13 | Q | | | | V | |
| 19+45 | 0.7599 | 0.12 | Q | | | | V | |
| 19+50 | 0.7607 | 0.12 | Q | | | | V | |
| 19+55 | 0.7614 | 0.10 | Q | | | | V | |
| 20+ 0 | 0.7620 | 0.09 | Q | | | | V | |
| 20+ 5 | 0.7626 | 0.09 | Q | | | | V | |
| 20+10 | 0.7633 | 0.10 | Q | | | | V | |
| 20+15 | 0.7641 | 0.11 | Q | | | | V | |
| 20+20 | 0.7648 | 0.11 | Q | | | | V | |
| 20+25 | 0.7656 | 0.11 | Q | | | | V | |
| 20+30 | 0.7664 | 0.11 | Q | | | | V | |
| 20+35 | 0.7672 | 0.11 | Q | | | | V | |
| 20+40 | 0.7679 | 0.11 | Q | | | | V | |
| 20+45 | 0.7687 | 0.11 | Q | | | | V | |
| 20+50 | 0.7695 | 0.11 | Q | | | | V | |
| 20+55 | 0.7702 | 0.10 | Q | | | | V | |
| 21+ 0 | 0.7708 | 0.09 | Q | | | | V | |
| 21+ 5 | 0.7714 | 0.09 | Q | | | | V | |
| 21+10 | 0.7721 | 0.10 | Q | | | | V | |
| 21+15 | 0.7728 | 0.11 | Q | | | | V | |
| 21+20 | 0.7736 | 0.11 | Q | | | | V | |
| 21+25 | 0.7742 | 0.10 | Q | | | | V | |
| 21+30 | 0.7748 | 0.09 | Q | | | | V | |
| 21+35 | 0.7754 | 0.09 | Q | | | | V | |
| 21+40 | 0.7761 | 0.10 | Q | | | | V | |
| 21+45 | 0.7768 | 0.11 | Q | | | | V | |
| 21+50 | 0.7775 | 0.11 | Q | | | | V | |
| 21+55 | 0.7782 | 0.10 | Q | | | | V | |
| 22+ 0 | 0.7788 | 0.09 | Q | | | | V | |
| 22+ 5 | 0.7794 | 0.09 | Q | | | | V | |
| 22+10 | 0.7800 | 0.10 | Q | | | | V | |
| 22+15 | 0.7808 | 0.11 | Q | | | | V | |
| 22+20 | 0.7815 | 0.11 | Q | | | | V | |
| 22+25 | 0.7822 | 0.10 | Q | | | | V | |
| 22+30 | 0.7828 | 0.09 | Q | | | | V | |
| 22+35 | 0.7833 | 0.08 | Q | | | | V | |
| 22+40 | 0.7839 | 0.08 | Q | | | | V | |
| 22+45 | 0.7845 | 0.08 | Q | | | | V | |
| 22+50 | 0.7850 | 0.08 | Q | | | | V | |
| 22+55 | 0.7855 | 0.08 | Q | | | | V | |
| 23+ 0 | 0.7861 | 0.08 | Q | | | | V | |
| 23+ 5 | 0.7866 | 0.08 | Q | | | | V | |
| 23+10 | 0.7872 | 0.08 | Q | | | | V | |
| 23+15 | 0.7877 | 0.08 | Q | | | | V | |
| 23+20 | 0.7882 | 0.08 | Q | | | | V | |
| 23+25 | 0.7887 | 0.08 | Q | | | | V | |
| 23+30 | 0.7893 | 0.08 | Q | | | | V | |
| 23+35 | 0.7898 | 0.08 | Q | | | | V | |
| 23+40 | 0.7903 | 0.08 | Q | | | | V | |
| 23+45 | 0.7909 | 0.08 | Q | | | | V | |
| 23+50 | 0.7914 | 0.08 | Q | | | | V | |
| 23+55 | 0.7919 | 0.08 | Q | | | | V | |
| 24+ 0 | 0.7925 | 0.08 | Q | | | | V | |
| 24+ 5 | 0.7929 | 0.07 | Q | | | | V | |
| 24+10 | 0.7933 | 0.05 | Q | | | | V | |
| 24+15 | 0.7935 | 0.03 | Q | | | | V | |
| 24+20 | 0.7936 | 0.02 | Q | | | | V | |
| 24+25 | 0.7937 | 0.01 | Q | | | | V | |
| 24+30 | 0.7937 | 0.01 | Q | | | | V | |
| 24+35 | 0.7938 | 0.01 | Q | | | | V | |

| | | | | | | | |
|-------|--------|------|---|--|--|--|---|
| 24+40 | 0.7938 | 0.01 | Q | | | | V |
| 24+45 | 0.7939 | 0.00 | Q | | | | V |
| 24+50 | 0.7939 | 0.00 | Q | | | | V |
| 24+55 | 0.7939 | 0.00 | Q | | | | V |
| 25+ 0 | 0.7939 | 0.00 | Q | | | | V |
| 25+ 5 | 0.7939 | 0.00 | Q | | | | V |
| 25+10 | 0.7939 | 0.00 | Q | | | | V |

Unit Hydrograph Analysis

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Study date 03/24/22 File: 20750BE24100.out

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6310

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

20-750 Building B
Existing
100 year 24 hour

Drainage Area = 59.55(Ac.) = 0.093 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 59.55(Ac.) = 0.093
Sq. Mi.
Length along longest watercourse = 2433.00(Ft.)
Length along longest watercourse measured to centroid = 1195.00(Ft.)
Length along longest watercourse = 0.461 Mi.
Length along longest watercourse measured to centroid = 0.226 Mi.
Difference in elevation = 18.00(Ft.)
Slope along watercourse = 39.0629 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.152 Hr.
Lag time = 9.12 Min.
25% of lag time = 2.28 Min.
40% of lag time = 3.65 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

| Area(Ac.) [1] | Rainfall(In) [2] | Weighting[1*2] |
|---------------|------------------|----------------|
| 59.55 | 1.60 | 95.28 |

100 YEAR Area rainfall data:

| Area(Ac.) [1] | Rainfall(In) [2] | Weighting[1*2] |
|---------------|------------------|----------------|
| 59.55 | 4.00 | 238.20 |

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.600 (In)
 Area Averaged 100-Year Rainfall = 4.000 (In)

Point rain (area averaged) = 4.000 (In)
 Areal adjustment factor = 99.99 %
 Adjusted average point rain = 4.000 (In)

Sub-Area Data:

Area (Ac.) Runoff Index Impervious %
 59.550 77.00 0.000
 Total Area Entered = 59.55 (Ac.)

| | | | | | | |
|------|-------|-------------|------------|------------------|--------|-----------------|
| RI | RI | Infil. Rate | Impervious | Adj. Infil. Rate | Area% | F |
| AMC2 | AMC-3 | (In/Hr) | (Dec.%) | (In/Hr) | (Dec.) | (In/Hr) |
| 77.0 | 89.2 | 0.139 | 0.000 | 0.139 | 1.000 | 0.139 |
| | | | | | | Sum (F) = 0.139 |

Area averaged mean soil loss (F) (In/Hr) = 0.139
 Minimum soil loss rate ((In/Hr)) = 0.070
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.900

 U n i t H y d r o g r a p h
 VALLEY S-Curve

Unit Hydrograph Data

| Unit time period (hrs) | Time % of lag | Distribution Graph % | Unit Hydrograph (CFS) |
|---------------------------|---------------|-------------------------|--------------------------|
| 1 | 0.083 | 54.826 | 4.252 |
| 2 | 0.167 | 109.653 | 18.065 |
| 3 | 0.250 | 164.479 | 16.839 |
| 4 | 0.333 | 219.305 | 6.865 |
| 5 | 0.417 | 274.132 | 3.853 |
| 6 | 0.500 | 328.958 | 2.651 |
| 7 | 0.583 | 383.785 | 1.918 |
| 8 | 0.667 | 438.611 | 1.389 |
| 9 | 0.750 | 493.437 | 1.050 |
| 10 | 0.833 | 548.264 | 0.887 |
| 11 | 0.917 | 603.090 | 0.664 |
| 12 | 1.000 | 657.916 | 0.518 |
| 13 | 1.083 | 712.743 | 0.377 |
| 14 | 1.167 | 767.569 | 0.329 |
| 15 | 1.250 | 822.395 | 0.359 |
| | | Sum = 100.000 | Sum= 60.015 |

 The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

| Unit Time (Hr.) | Pattern Percent | Storm Rain (In/Hr) | Loss rate (In./Hr) | | Effective (In/Hr) |
|--------------------|--------------------|-----------------------|--------------------|-------|----------------------|
| | | | Max | Low | |
| 1 | 0.08 | 0.032 | (0.247) | 0.029 | 0.003 |
| 2 | 0.17 | 0.032 | (0.246) | 0.029 | 0.003 |
| 3 | 0.25 | 0.032 | (0.245) | 0.029 | 0.003 |
| 4 | 0.33 | 0.048 | (0.244) | 0.043 | 0.005 |

| | | | | | | |
|----|------|------|-------|----------|-------|-------|
| 5 | 0.42 | 0.10 | 0.048 | (0.243) | 0.043 | 0.005 |
| 6 | 0.50 | 0.10 | 0.048 | (0.242) | 0.043 | 0.005 |
| 7 | 0.58 | 0.10 | 0.048 | (0.241) | 0.043 | 0.005 |
| 8 | 0.67 | 0.10 | 0.048 | (0.240) | 0.043 | 0.005 |
| 9 | 0.75 | 0.10 | 0.048 | (0.239) | 0.043 | 0.005 |
| 10 | 0.83 | 0.13 | 0.064 | (0.238) | 0.058 | 0.006 |
| 11 | 0.92 | 0.13 | 0.064 | (0.237) | 0.058 | 0.006 |
| 12 | 1.00 | 0.13 | 0.064 | (0.236) | 0.058 | 0.006 |
| 13 | 1.08 | 0.10 | 0.048 | (0.235) | 0.043 | 0.005 |
| 14 | 1.17 | 0.10 | 0.048 | (0.234) | 0.043 | 0.005 |
| 15 | 1.25 | 0.10 | 0.048 | (0.233) | 0.043 | 0.005 |
| 16 | 1.33 | 0.10 | 0.048 | (0.233) | 0.043 | 0.005 |
| 17 | 1.42 | 0.10 | 0.048 | (0.232) | 0.043 | 0.005 |
| 18 | 1.50 | 0.10 | 0.048 | (0.231) | 0.043 | 0.005 |
| 19 | 1.58 | 0.10 | 0.048 | (0.230) | 0.043 | 0.005 |
| 20 | 1.67 | 0.10 | 0.048 | (0.229) | 0.043 | 0.005 |
| 21 | 1.75 | 0.10 | 0.048 | (0.228) | 0.043 | 0.005 |
| 22 | 1.83 | 0.13 | 0.064 | (0.227) | 0.058 | 0.006 |
| 23 | 1.92 | 0.13 | 0.064 | (0.226) | 0.058 | 0.006 |
| 24 | 2.00 | 0.13 | 0.064 | (0.225) | 0.058 | 0.006 |
| 25 | 2.08 | 0.13 | 0.064 | (0.224) | 0.058 | 0.006 |
| 26 | 2.17 | 0.13 | 0.064 | (0.223) | 0.058 | 0.006 |
| 27 | 2.25 | 0.13 | 0.064 | (0.222) | 0.058 | 0.006 |
| 28 | 2.33 | 0.13 | 0.064 | (0.222) | 0.058 | 0.006 |
| 29 | 2.42 | 0.13 | 0.064 | (0.221) | 0.058 | 0.006 |
| 30 | 2.50 | 0.13 | 0.064 | (0.220) | 0.058 | 0.006 |
| 31 | 2.58 | 0.17 | 0.080 | (0.219) | 0.072 | 0.008 |
| 32 | 2.67 | 0.17 | 0.080 | (0.218) | 0.072 | 0.008 |
| 33 | 2.75 | 0.17 | 0.080 | (0.217) | 0.072 | 0.008 |
| 34 | 2.83 | 0.17 | 0.080 | (0.216) | 0.072 | 0.008 |
| 35 | 2.92 | 0.17 | 0.080 | (0.215) | 0.072 | 0.008 |
| 36 | 3.00 | 0.17 | 0.080 | (0.214) | 0.072 | 0.008 |
| 37 | 3.08 | 0.17 | 0.080 | (0.213) | 0.072 | 0.008 |
| 38 | 3.17 | 0.17 | 0.080 | (0.213) | 0.072 | 0.008 |
| 39 | 3.25 | 0.17 | 0.080 | (0.212) | 0.072 | 0.008 |
| 40 | 3.33 | 0.17 | 0.080 | (0.211) | 0.072 | 0.008 |
| 41 | 3.42 | 0.17 | 0.080 | (0.210) | 0.072 | 0.008 |
| 42 | 3.50 | 0.17 | 0.080 | (0.209) | 0.072 | 0.008 |
| 43 | 3.58 | 0.17 | 0.080 | (0.208) | 0.072 | 0.008 |
| 44 | 3.67 | 0.17 | 0.080 | (0.207) | 0.072 | 0.008 |
| 45 | 3.75 | 0.17 | 0.080 | (0.206) | 0.072 | 0.008 |
| 46 | 3.83 | 0.20 | 0.096 | (0.206) | 0.086 | 0.010 |
| 47 | 3.92 | 0.20 | 0.096 | (0.205) | 0.086 | 0.010 |
| 48 | 4.00 | 0.20 | 0.096 | (0.204) | 0.086 | 0.010 |
| 49 | 4.08 | 0.20 | 0.096 | (0.203) | 0.086 | 0.010 |
| 50 | 4.17 | 0.20 | 0.096 | (0.202) | 0.086 | 0.010 |
| 51 | 4.25 | 0.20 | 0.096 | (0.201) | 0.086 | 0.010 |
| 52 | 4.33 | 0.23 | 0.112 | (0.200) | 0.101 | 0.011 |
| 53 | 4.42 | 0.23 | 0.112 | (0.200) | 0.101 | 0.011 |
| 54 | 4.50 | 0.23 | 0.112 | (0.199) | 0.101 | 0.011 |
| 55 | 4.58 | 0.23 | 0.112 | (0.198) | 0.101 | 0.011 |
| 56 | 4.67 | 0.23 | 0.112 | (0.197) | 0.101 | 0.011 |
| 57 | 4.75 | 0.23 | 0.112 | (0.196) | 0.101 | 0.011 |
| 58 | 4.83 | 0.27 | 0.128 | (0.195) | 0.115 | 0.013 |
| 59 | 4.92 | 0.27 | 0.128 | (0.194) | 0.115 | 0.013 |
| 60 | 5.00 | 0.27 | 0.128 | (0.194) | 0.115 | 0.013 |
| 61 | 5.08 | 0.20 | 0.096 | (0.193) | 0.086 | 0.010 |
| 62 | 5.17 | 0.20 | 0.096 | (0.192) | 0.086 | 0.010 |
| 63 | 5.25 | 0.20 | 0.096 | (0.191) | 0.086 | 0.010 |
| 64 | 5.33 | 0.23 | 0.112 | (0.190) | 0.101 | 0.011 |

| | | | | | | |
|-----|-------|------|-------|----------|----------|-------|
| 65 | 5.42 | 0.23 | 0.112 | (0.189) | 0.101 | 0.011 |
| 66 | 5.50 | 0.23 | 0.112 | (0.189) | 0.101 | 0.011 |
| 67 | 5.58 | 0.27 | 0.128 | (0.188) | 0.115 | 0.013 |
| 68 | 5.67 | 0.27 | 0.128 | (0.187) | 0.115 | 0.013 |
| 69 | 5.75 | 0.27 | 0.128 | (0.186) | 0.115 | 0.013 |
| 70 | 5.83 | 0.27 | 0.128 | (0.185) | 0.115 | 0.013 |
| 71 | 5.92 | 0.27 | 0.128 | (0.184) | 0.115 | 0.013 |
| 72 | 6.00 | 0.27 | 0.128 | (0.184) | 0.115 | 0.013 |
| 73 | 6.08 | 0.30 | 0.144 | (0.183) | 0.130 | 0.014 |
| 74 | 6.17 | 0.30 | 0.144 | (0.182) | 0.130 | 0.014 |
| 75 | 6.25 | 0.30 | 0.144 | (0.181) | 0.130 | 0.014 |
| 76 | 6.33 | 0.30 | 0.144 | (0.180) | 0.130 | 0.014 |
| 77 | 6.42 | 0.30 | 0.144 | (0.180) | 0.130 | 0.014 |
| 78 | 6.50 | 0.30 | 0.144 | (0.179) | 0.130 | 0.014 |
| 79 | 6.58 | 0.33 | 0.160 | (0.178) | 0.144 | 0.016 |
| 80 | 6.67 | 0.33 | 0.160 | (0.177) | 0.144 | 0.016 |
| 81 | 6.75 | 0.33 | 0.160 | (0.176) | 0.144 | 0.016 |
| 82 | 6.83 | 0.33 | 0.160 | (0.176) | 0.144 | 0.016 |
| 83 | 6.92 | 0.33 | 0.160 | (0.175) | 0.144 | 0.016 |
| 84 | 7.00 | 0.33 | 0.160 | (0.174) | 0.144 | 0.016 |
| 85 | 7.08 | 0.33 | 0.160 | (0.173) | 0.144 | 0.016 |
| 86 | 7.17 | 0.33 | 0.160 | (0.172) | 0.144 | 0.016 |
| 87 | 7.25 | 0.33 | 0.160 | (0.172) | 0.144 | 0.016 |
| 88 | 7.33 | 0.37 | 0.176 | (0.171) | 0.158 | 0.018 |
| 89 | 7.42 | 0.37 | 0.176 | (0.170) | 0.158 | 0.018 |
| 90 | 7.50 | 0.37 | 0.176 | (0.169) | 0.158 | 0.018 |
| 91 | 7.58 | 0.40 | 0.192 | 0.168 | (0.173) | 0.023 |
| 92 | 7.67 | 0.40 | 0.192 | 0.168 | (0.173) | 0.024 |
| 93 | 7.75 | 0.40 | 0.192 | 0.167 | (0.173) | 0.025 |
| 94 | 7.83 | 0.43 | 0.208 | 0.166 | (0.187) | 0.042 |
| 95 | 7.92 | 0.43 | 0.208 | 0.165 | (0.187) | 0.043 |
| 96 | 8.00 | 0.43 | 0.208 | 0.165 | (0.187) | 0.043 |
| 97 | 8.08 | 0.50 | 0.240 | 0.164 | (0.216) | 0.076 |
| 98 | 8.17 | 0.50 | 0.240 | 0.163 | (0.216) | 0.077 |
| 99 | 8.25 | 0.50 | 0.240 | 0.162 | (0.216) | 0.078 |
| 100 | 8.33 | 0.50 | 0.240 | 0.162 | (0.216) | 0.078 |
| 101 | 8.42 | 0.50 | 0.240 | 0.161 | (0.216) | 0.079 |
| 102 | 8.50 | 0.50 | 0.240 | 0.160 | (0.216) | 0.080 |
| 103 | 8.58 | 0.53 | 0.256 | 0.159 | (0.230) | 0.097 |
| 104 | 8.67 | 0.53 | 0.256 | 0.159 | (0.230) | 0.097 |
| 105 | 8.75 | 0.53 | 0.256 | 0.158 | (0.230) | 0.098 |
| 106 | 8.83 | 0.57 | 0.272 | 0.157 | (0.245) | 0.115 |
| 107 | 8.92 | 0.57 | 0.272 | 0.156 | (0.245) | 0.116 |
| 108 | 9.00 | 0.57 | 0.272 | 0.156 | (0.245) | 0.116 |
| 109 | 9.08 | 0.63 | 0.304 | 0.155 | (0.274) | 0.149 |
| 110 | 9.17 | 0.63 | 0.304 | 0.154 | (0.274) | 0.150 |
| 111 | 9.25 | 0.63 | 0.304 | 0.153 | (0.274) | 0.151 |
| 112 | 9.33 | 0.67 | 0.320 | 0.153 | (0.288) | 0.167 |
| 113 | 9.42 | 0.67 | 0.320 | 0.152 | (0.288) | 0.168 |
| 114 | 9.50 | 0.67 | 0.320 | 0.151 | (0.288) | 0.169 |
| 115 | 9.58 | 0.70 | 0.336 | 0.150 | (0.302) | 0.185 |
| 116 | 9.67 | 0.70 | 0.336 | 0.150 | (0.302) | 0.186 |
| 117 | 9.75 | 0.70 | 0.336 | 0.149 | (0.302) | 0.187 |
| 118 | 9.83 | 0.73 | 0.352 | 0.148 | (0.317) | 0.204 |
| 119 | 9.92 | 0.73 | 0.352 | 0.148 | (0.317) | 0.204 |
| 120 | 10.00 | 0.73 | 0.352 | 0.147 | (0.317) | 0.205 |
| 121 | 10.08 | 0.50 | 0.240 | 0.146 | (0.216) | 0.094 |
| 122 | 10.17 | 0.50 | 0.240 | 0.145 | (0.216) | 0.094 |
| 123 | 10.25 | 0.50 | 0.240 | 0.145 | (0.216) | 0.095 |
| 124 | 10.33 | 0.50 | 0.240 | 0.144 | (0.216) | 0.096 |

| | | | | | | |
|-----|-------|------|-------|-------|----------|-------|
| 125 | 10.42 | 0.50 | 0.240 | 0.143 | (0.216) | 0.097 |
| 126 | 10.50 | 0.50 | 0.240 | 0.143 | (0.216) | 0.097 |
| 127 | 10.58 | 0.67 | 0.320 | 0.142 | (0.288) | 0.178 |
| 128 | 10.67 | 0.67 | 0.320 | 0.141 | (0.288) | 0.179 |
| 129 | 10.75 | 0.67 | 0.320 | 0.141 | (0.288) | 0.179 |
| 130 | 10.83 | 0.67 | 0.320 | 0.140 | (0.288) | 0.180 |
| 131 | 10.92 | 0.67 | 0.320 | 0.139 | (0.288) | 0.181 |
| 132 | 11.00 | 0.67 | 0.320 | 0.139 | (0.288) | 0.181 |
| 133 | 11.08 | 0.63 | 0.304 | 0.138 | (0.274) | 0.166 |
| 134 | 11.17 | 0.63 | 0.304 | 0.137 | (0.274) | 0.167 |
| 135 | 11.25 | 0.63 | 0.304 | 0.137 | (0.274) | 0.167 |
| 136 | 11.33 | 0.63 | 0.304 | 0.136 | (0.274) | 0.168 |
| 137 | 11.42 | 0.63 | 0.304 | 0.135 | (0.274) | 0.169 |
| 138 | 11.50 | 0.63 | 0.304 | 0.134 | (0.274) | 0.169 |
| 139 | 11.58 | 0.57 | 0.272 | 0.134 | (0.245) | 0.138 |
| 140 | 11.67 | 0.57 | 0.272 | 0.133 | (0.245) | 0.139 |
| 141 | 11.75 | 0.57 | 0.272 | 0.132 | (0.245) | 0.139 |
| 142 | 11.83 | 0.60 | 0.288 | 0.132 | (0.259) | 0.156 |
| 143 | 11.92 | 0.60 | 0.288 | 0.131 | (0.259) | 0.157 |
| 144 | 12.00 | 0.60 | 0.288 | 0.131 | (0.259) | 0.157 |
| 145 | 12.08 | 0.83 | 0.400 | 0.130 | (0.360) | 0.270 |
| 146 | 12.17 | 0.83 | 0.400 | 0.129 | (0.360) | 0.271 |
| 147 | 12.25 | 0.83 | 0.400 | 0.129 | (0.360) | 0.271 |
| 148 | 12.33 | 0.87 | 0.416 | 0.128 | (0.374) | 0.288 |
| 149 | 12.42 | 0.87 | 0.416 | 0.127 | (0.374) | 0.289 |
| 150 | 12.50 | 0.87 | 0.416 | 0.127 | (0.374) | 0.289 |
| 151 | 12.58 | 0.93 | 0.448 | 0.126 | (0.403) | 0.322 |
| 152 | 12.67 | 0.93 | 0.448 | 0.125 | (0.403) | 0.323 |
| 153 | 12.75 | 0.93 | 0.448 | 0.125 | (0.403) | 0.323 |
| 154 | 12.83 | 0.97 | 0.464 | 0.124 | (0.418) | 0.340 |
| 155 | 12.92 | 0.97 | 0.464 | 0.123 | (0.418) | 0.340 |
| 156 | 13.00 | 0.97 | 0.464 | 0.123 | (0.418) | 0.341 |
| 157 | 13.08 | 1.13 | 0.544 | 0.122 | (0.490) | 0.422 |
| 158 | 13.17 | 1.13 | 0.544 | 0.122 | (0.490) | 0.422 |
| 159 | 13.25 | 1.13 | 0.544 | 0.121 | (0.490) | 0.423 |
| 160 | 13.33 | 1.13 | 0.544 | 0.120 | (0.490) | 0.424 |
| 161 | 13.42 | 1.13 | 0.544 | 0.120 | (0.490) | 0.424 |
| 162 | 13.50 | 1.13 | 0.544 | 0.119 | (0.490) | 0.425 |
| 163 | 13.58 | 0.77 | 0.368 | 0.119 | (0.331) | 0.249 |
| 164 | 13.67 | 0.77 | 0.368 | 0.118 | (0.331) | 0.250 |
| 165 | 13.75 | 0.77 | 0.368 | 0.117 | (0.331) | 0.251 |
| 166 | 13.83 | 0.77 | 0.368 | 0.117 | (0.331) | 0.251 |
| 167 | 13.92 | 0.77 | 0.368 | 0.116 | (0.331) | 0.252 |
| 168 | 14.00 | 0.77 | 0.368 | 0.116 | (0.331) | 0.252 |
| 169 | 14.08 | 0.90 | 0.432 | 0.115 | (0.389) | 0.317 |
| 170 | 14.17 | 0.90 | 0.432 | 0.114 | (0.389) | 0.318 |
| 171 | 14.25 | 0.90 | 0.432 | 0.114 | (0.389) | 0.318 |
| 172 | 14.33 | 0.87 | 0.416 | 0.113 | (0.374) | 0.303 |
| 173 | 14.42 | 0.87 | 0.416 | 0.113 | (0.374) | 0.303 |
| 174 | 14.50 | 0.87 | 0.416 | 0.112 | (0.374) | 0.304 |
| 175 | 14.58 | 0.87 | 0.416 | 0.111 | (0.374) | 0.304 |
| 176 | 14.67 | 0.87 | 0.416 | 0.111 | (0.374) | 0.305 |
| 177 | 14.75 | 0.87 | 0.416 | 0.110 | (0.374) | 0.306 |
| 178 | 14.83 | 0.83 | 0.400 | 0.110 | (0.360) | 0.290 |
| 179 | 14.92 | 0.83 | 0.400 | 0.109 | (0.360) | 0.291 |
| 180 | 15.00 | 0.83 | 0.400 | 0.109 | (0.360) | 0.291 |
| 181 | 15.08 | 0.80 | 0.384 | 0.108 | (0.346) | 0.276 |
| 182 | 15.17 | 0.80 | 0.384 | 0.108 | (0.346) | 0.276 |
| 183 | 15.25 | 0.80 | 0.384 | 0.107 | (0.346) | 0.277 |
| 184 | 15.33 | 0.77 | 0.368 | 0.106 | (0.331) | 0.262 |

| | | | | | | |
|-----|-------|------|-------|----------|----------|-------|
| 185 | 15.42 | 0.77 | 0.368 | 0.106 | (0.331) | 0.262 |
| 186 | 15.50 | 0.77 | 0.368 | 0.105 | (0.331) | 0.263 |
| 187 | 15.58 | 0.63 | 0.304 | 0.105 | (0.274) | 0.199 |
| 188 | 15.67 | 0.63 | 0.304 | 0.104 | (0.274) | 0.200 |
| 189 | 15.75 | 0.63 | 0.304 | 0.104 | (0.274) | 0.200 |
| 190 | 15.83 | 0.63 | 0.304 | 0.103 | (0.274) | 0.201 |
| 191 | 15.92 | 0.63 | 0.304 | 0.103 | (0.274) | 0.201 |
| 192 | 16.00 | 0.63 | 0.304 | 0.102 | (0.274) | 0.202 |
| 193 | 16.08 | 0.13 | 0.064 | (0.102) | 0.058 | 0.006 |
| 194 | 16.17 | 0.13 | 0.064 | (0.101) | 0.058 | 0.006 |
| 195 | 16.25 | 0.13 | 0.064 | (0.101) | 0.058 | 0.006 |
| 196 | 16.33 | 0.13 | 0.064 | (0.100) | 0.058 | 0.006 |
| 197 | 16.42 | 0.13 | 0.064 | (0.100) | 0.058 | 0.006 |
| 198 | 16.50 | 0.13 | 0.064 | (0.099) | 0.058 | 0.006 |
| 199 | 16.58 | 0.10 | 0.048 | (0.099) | 0.043 | 0.005 |
| 200 | 16.67 | 0.10 | 0.048 | (0.098) | 0.043 | 0.005 |
| 201 | 16.75 | 0.10 | 0.048 | (0.098) | 0.043 | 0.005 |
| 202 | 16.83 | 0.10 | 0.048 | (0.097) | 0.043 | 0.005 |
| 203 | 16.92 | 0.10 | 0.048 | (0.097) | 0.043 | 0.005 |
| 204 | 17.00 | 0.10 | 0.048 | (0.096) | 0.043 | 0.005 |
| 205 | 17.08 | 0.17 | 0.080 | (0.096) | 0.072 | 0.008 |
| 206 | 17.17 | 0.17 | 0.080 | (0.095) | 0.072 | 0.008 |
| 207 | 17.25 | 0.17 | 0.080 | (0.095) | 0.072 | 0.008 |
| 208 | 17.33 | 0.17 | 0.080 | (0.094) | 0.072 | 0.008 |
| 209 | 17.42 | 0.17 | 0.080 | (0.094) | 0.072 | 0.008 |
| 210 | 17.50 | 0.17 | 0.080 | (0.093) | 0.072 | 0.008 |
| 211 | 17.58 | 0.17 | 0.080 | (0.093) | 0.072 | 0.008 |
| 212 | 17.67 | 0.17 | 0.080 | (0.092) | 0.072 | 0.008 |
| 213 | 17.75 | 0.17 | 0.080 | (0.092) | 0.072 | 0.008 |
| 214 | 17.83 | 0.13 | 0.064 | (0.091) | 0.058 | 0.006 |
| 215 | 17.92 | 0.13 | 0.064 | (0.091) | 0.058 | 0.006 |
| 216 | 18.00 | 0.13 | 0.064 | (0.090) | 0.058 | 0.006 |
| 217 | 18.08 | 0.13 | 0.064 | (0.090) | 0.058 | 0.006 |
| 218 | 18.17 | 0.13 | 0.064 | (0.090) | 0.058 | 0.006 |
| 219 | 18.25 | 0.13 | 0.064 | (0.089) | 0.058 | 0.006 |
| 220 | 18.33 | 0.13 | 0.064 | (0.089) | 0.058 | 0.006 |
| 221 | 18.42 | 0.13 | 0.064 | (0.088) | 0.058 | 0.006 |
| 222 | 18.50 | 0.13 | 0.064 | (0.088) | 0.058 | 0.006 |
| 223 | 18.58 | 0.10 | 0.048 | (0.087) | 0.043 | 0.005 |
| 224 | 18.67 | 0.10 | 0.048 | (0.087) | 0.043 | 0.005 |
| 225 | 18.75 | 0.10 | 0.048 | (0.087) | 0.043 | 0.005 |
| 226 | 18.83 | 0.07 | 0.032 | (0.086) | 0.029 | 0.003 |
| 227 | 18.92 | 0.07 | 0.032 | (0.086) | 0.029 | 0.003 |
| 228 | 19.00 | 0.07 | 0.032 | (0.085) | 0.029 | 0.003 |
| 229 | 19.08 | 0.10 | 0.048 | (0.085) | 0.043 | 0.005 |
| 230 | 19.17 | 0.10 | 0.048 | (0.085) | 0.043 | 0.005 |
| 231 | 19.25 | 0.10 | 0.048 | (0.084) | 0.043 | 0.005 |
| 232 | 19.33 | 0.13 | 0.064 | (0.084) | 0.058 | 0.006 |
| 233 | 19.42 | 0.13 | 0.064 | (0.083) | 0.058 | 0.006 |
| 234 | 19.50 | 0.13 | 0.064 | (0.083) | 0.058 | 0.006 |
| 235 | 19.58 | 0.10 | 0.048 | (0.083) | 0.043 | 0.005 |
| 236 | 19.67 | 0.10 | 0.048 | (0.082) | 0.043 | 0.005 |
| 237 | 19.75 | 0.10 | 0.048 | (0.082) | 0.043 | 0.005 |
| 238 | 19.83 | 0.07 | 0.032 | (0.082) | 0.029 | 0.003 |
| 239 | 19.92 | 0.07 | 0.032 | (0.081) | 0.029 | 0.003 |
| 240 | 20.00 | 0.07 | 0.032 | (0.081) | 0.029 | 0.003 |
| 241 | 20.08 | 0.10 | 0.048 | (0.080) | 0.043 | 0.005 |
| 242 | 20.17 | 0.10 | 0.048 | (0.080) | 0.043 | 0.005 |
| 243 | 20.25 | 0.10 | 0.048 | (0.080) | 0.043 | 0.005 |
| 244 | 20.33 | 0.10 | 0.048 | (0.079) | 0.043 | 0.005 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 245 | 20.42 | 0.10 | 0.048 | (0.079) | 0.043 | 0.005 |
| 246 | 20.50 | 0.10 | 0.048 | (0.079) | 0.043 | 0.005 |
| 247 | 20.58 | 0.10 | 0.048 | (0.078) | 0.043 | 0.005 |
| 248 | 20.67 | 0.10 | 0.048 | (0.078) | 0.043 | 0.005 |
| 249 | 20.75 | 0.10 | 0.048 | (0.078) | 0.043 | 0.005 |
| 250 | 20.83 | 0.07 | 0.032 | (0.077) | 0.029 | 0.003 |
| 251 | 20.92 | 0.07 | 0.032 | (0.077) | 0.029 | 0.003 |
| 252 | 21.00 | 0.07 | 0.032 | (0.077) | 0.029 | 0.003 |
| 253 | 21.08 | 0.10 | 0.048 | (0.076) | 0.043 | 0.005 |
| 254 | 21.17 | 0.10 | 0.048 | (0.076) | 0.043 | 0.005 |
| 255 | 21.25 | 0.10 | 0.048 | (0.076) | 0.043 | 0.005 |
| 256 | 21.33 | 0.07 | 0.032 | (0.076) | 0.029 | 0.003 |
| 257 | 21.42 | 0.07 | 0.032 | (0.075) | 0.029 | 0.003 |
| 258 | 21.50 | 0.07 | 0.032 | (0.075) | 0.029 | 0.003 |
| 259 | 21.58 | 0.10 | 0.048 | (0.075) | 0.043 | 0.005 |
| 260 | 21.67 | 0.10 | 0.048 | (0.074) | 0.043 | 0.005 |
| 261 | 21.75 | 0.10 | 0.048 | (0.074) | 0.043 | 0.005 |
| 262 | 21.83 | 0.07 | 0.032 | (0.074) | 0.029 | 0.003 |
| 263 | 21.92 | 0.07 | 0.032 | (0.074) | 0.029 | 0.003 |
| 264 | 22.00 | 0.07 | 0.032 | (0.073) | 0.029 | 0.003 |
| 265 | 22.08 | 0.10 | 0.048 | (0.073) | 0.043 | 0.005 |
| 266 | 22.17 | 0.10 | 0.048 | (0.073) | 0.043 | 0.005 |
| 267 | 22.25 | 0.10 | 0.048 | (0.073) | 0.043 | 0.005 |
| 268 | 22.33 | 0.07 | 0.032 | (0.073) | 0.029 | 0.003 |
| 269 | 22.42 | 0.07 | 0.032 | (0.072) | 0.029 | 0.003 |
| 270 | 22.50 | 0.07 | 0.032 | (0.072) | 0.029 | 0.003 |
| 271 | 22.58 | 0.07 | 0.032 | (0.072) | 0.029 | 0.003 |
| 272 | 22.67 | 0.07 | 0.032 | (0.072) | 0.029 | 0.003 |
| 273 | 22.75 | 0.07 | 0.032 | (0.071) | 0.029 | 0.003 |
| 274 | 22.83 | 0.07 | 0.032 | (0.071) | 0.029 | 0.003 |
| 275 | 22.92 | 0.07 | 0.032 | (0.071) | 0.029 | 0.003 |
| 276 | 23.00 | 0.07 | 0.032 | (0.071) | 0.029 | 0.003 |
| 277 | 23.08 | 0.07 | 0.032 | (0.071) | 0.029 | 0.003 |
| 278 | 23.17 | 0.07 | 0.032 | (0.071) | 0.029 | 0.003 |
| 279 | 23.25 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 280 | 23.33 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 281 | 23.42 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 282 | 23.50 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 283 | 23.58 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 284 | 23.67 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 285 | 23.75 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 286 | 23.83 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 287 | 23.92 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |
| 288 | 24.00 | 0.07 | 0.032 | (0.070) | 0.029 | 0.003 |

(Loss Rate Not Used)

Sum = 100.0

Sum = 22.5

Flood volume = Effective rainfall 1.87(In)
times area 59.5(Ac.)/[(In)/(Ft.)] = 9.3(Ac.Ft)
Total soil loss = 2.13(In)
Total soil loss = 10.550(Ac.Ft)
Total rainfall = 4.00(In)
Flood volume = 404999.1 Cubic Feet
Total soil loss = 459566.4 Cubic Feet

Peak flow rate of this hydrograph = 24.721(CFS)

+++++
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

| Time (h+m) | Volume | Ac.Ft | Q(CFS) | 0 | 7.5 | 15.0 | 22.5 | 30.0 |
|------------|--------|-------|--------|---|-----|------|------|------|
| 0+ 5 | 0.0001 | | 0.01 | Q | | | | |
| 0+10 | 0.0006 | | 0.07 | Q | | | | |
| 0+15 | 0.0014 | | 0.13 | Q | | | | |
| 0+20 | 0.0025 | | 0.15 | Q | | | | |
| 0+25 | 0.0039 | | 0.20 | Q | | | | |
| 0+30 | 0.0054 | | 0.23 | Q | | | | |
| 0+35 | 0.0072 | | 0.25 | Q | | | | |
| 0+40 | 0.0089 | | 0.26 | Q | | | | |
| 0+45 | 0.0108 | | 0.27 | Q | | | | |
| 0+50 | 0.0127 | | 0.28 | Q | | | | |
| 0+55 | 0.0148 | | 0.31 | Q | | | | |
| 1+ 0 | 0.0172 | | 0.34 | Q | | | | |
| 1+ 5 | 0.0196 | | 0.35 | Q | | | | |
| 1+10 | 0.0219 | | 0.33 | Q | | | | |
| 1+15 | 0.0240 | | 0.31 | Q | | | | |
| 1+20 | 0.0261 | | 0.30 | Q | | | | |
| 1+25 | 0.0281 | | 0.30 | Q | | | | |
| 1+30 | 0.0301 | | 0.30 | Q | | | | |
| 1+35 | 0.0322 | | 0.29 | Q | | | | |
| 1+40 | 0.0342 | | 0.29 | Q | | | | |
| 1+45 | 0.0362 | | 0.29 | Q | | | | |
| 1+50 | 0.0382 | | 0.30 | Q | | | | |
| 1+55 | 0.0405 | | 0.33 | Q | | | | |
| 2+ 0 | 0.0429 | | 0.35 | Q | | | | |
| 2+ 5 | 0.0454 | | 0.36 | Q | | | | |
| 2+10 | 0.0479 | | 0.37 | Q | | | | |
| 2+15 | 0.0505 | | 0.37 | Q | | | | |
| 2+20 | 0.0531 | | 0.38 | Q | | | | |
| 2+25 | 0.0557 | | 0.38 | Q | | | | |
| 2+30 | 0.0583 | | 0.38 | Q | | | | |
| 2+35 | 0.0610 | | 0.39 | Q | | | | |
| 2+40 | 0.0638 | | 0.42 | Q | | | | |
| 2+45 | 0.0669 | | 0.45 | Q | | | | |
| 2+50 | 0.0701 | | 0.46 | Q | | | | |
| 2+55 | 0.0732 | | 0.46 | Q | | | | |
| 3+ 0 | 0.0765 | | 0.47 | Q | | | | |
| 3+ 5 | 0.0797 | | 0.47 | Q | | | | |
| 3+10 | 0.0830 | | 0.47 | Q | | | | |
| 3+15 | 0.0863 | | 0.48 | Q | | | | |
| 3+20 | 0.0895 | | 0.48 | Q | | | | |
| 3+25 | 0.0928 | | 0.48 | Q | | | | |
| 3+30 | 0.0961 | | 0.48 | Q | | | | |
| 3+35 | 0.0994 | | 0.48 | Q | | | | |
| 3+40 | 0.1027 | | 0.48 | Q | | | | |
| 3+45 | 0.1060 | | 0.48 | Q | | | | |
| 3+50 | 0.1094 | | 0.49 | Q | | | | |
| 3+55 | 0.1129 | | 0.52 | Q | | | | |
| 4+ 0 | 0.1167 | | 0.54 | Q | | | | |
| 4+ 5 | 0.1205 | | 0.55 | Q | | | | |
| 4+10 | 0.1244 | | 0.56 | Q | | | | |
| 4+15 | 0.1282 | | 0.56 | Q | | | | |
| 4+20 | 0.1322 | | 0.57 | Q | | | | |
| 4+25 | 0.1364 | | 0.61 | Q | | | | |
| 4+30 | 0.1407 | | 0.63 | Q | | | | |
| 4+35 | 0.1452 | | 0.65 | Q | | | | |

| | | | | | | | |
|------|--------|------|-------|--|--|--|--|
| 4+40 | 0.1497 | 0.65 | Q | | | | |
| 4+45 | 0.1542 | 0.66 | Q | | | | |
| 4+50 | 0.1588 | 0.67 | Q | | | | |
| 4+55 | 0.1637 | 0.70 | Q | | | | |
| 5+ 0 | 0.1687 | 0.73 | Q | | | | |
| 5+ 5 | 0.1737 | 0.73 | Q | | | | |
| 5+10 | 0.1784 | 0.68 | Q | | | | |
| 5+15 | 0.1827 | 0.63 | Q | | | | |
| 5+20 | 0.1870 | 0.62 | Q | | | | |
| 5+25 | 0.1914 | 0.64 | Q | | | | |
| 5+30 | 0.1959 | 0.66 | Q | | | | |
| 5+35 | 0.2005 | 0.67 | Q | | | | |
| 5+40 | 0.2054 | 0.70 | Q | | | | |
| 5+45 | 0.2104 | 0.73 | Q | | | | |
| 5+50 | 0.2155 | 0.74 | Q | | | | |
| 5+55 | 0.2207 | 0.75 | VQ | | | | |
| 6+ 0 | 0.2259 | 0.75 | VQ | | | | |
| 6+ 5 | 0.2311 | 0.76 | VQ | | | | |
| 6+10 | 0.2366 | 0.80 | IQ | | | | |
| 6+15 | 0.2423 | 0.82 | IQ | | | | |
| 6+20 | 0.2481 | 0.84 | IQ | | | | |
| 6+25 | 0.2539 | 0.85 | IQ | | | | |
| 6+30 | 0.2598 | 0.85 | IQ | | | | |
| 6+35 | 0.2657 | 0.86 | IQ | | | | |
| 6+40 | 0.2718 | 0.89 | IQ | | | | |
| 6+45 | 0.2782 | 0.92 | IQ | | | | |
| 6+50 | 0.2846 | 0.93 | IQ | | | | |
| 6+55 | 0.2911 | 0.94 | IQ | | | | |
| 7+ 0 | 0.2976 | 0.95 | IQ | | | | |
| 7+ 5 | 0.3042 | 0.95 | IQ | | | | |
| 7+10 | 0.3107 | 0.95 | IQ | | | | |
| 7+15 | 0.3173 | 0.96 | IQ | | | | |
| 7+20 | 0.3240 | 0.96 | IQ | | | | |
| 7+25 | 0.3308 | 0.99 | IQ | | | | |
| 7+30 | 0.3378 | 1.02 | IQ | | | | |
| 7+35 | 0.3451 | 1.06 | IQ | | | | |
| 7+40 | 0.3532 | 1.17 | IQ | | | | |
| 7+45 | 0.3621 | 1.30 | IQ | | | | |
| 7+50 | 0.3720 | 1.44 | IQ | | | | |
| 7+55 | 0.3844 | 1.79 | IVQ | | | | |
| 8+ 0 | 0.3989 | 2.11 | IVQ | | | | |
| 8+ 5 | 0.4155 | 2.41 | IV Q | | | | |
| 8+10 | 0.4369 | 3.10 | IV Q | | | | |
| 8+15 | 0.4626 | 3.73 | IV Q | | | | |
| 8+20 | 0.4904 | 4.03 | IV Q | | | | |
| 8+25 | 0.5195 | 4.23 | IV Q | | | | |
| 8+30 | 0.5496 | 4.38 | IV Q | | | | |
| 8+35 | 0.5811 | 4.57 | IV Q | | | | |
| 8+40 | 0.6152 | 4.96 | IV Q | | | | |
| 8+45 | 0.6519 | 5.32 | IV Q | | | | |
| 8+50 | 0.6903 | 5.57 | IV Q | | | | |
| 8+55 | 0.7316 | 6.00 | IV Q | | | | |
| 9+ 0 | 0.7755 | 6.38 | IV Q | | | | |
| 9+ 5 | 0.8217 | 6.71 | IV Q | | | | |
| 9+10 | 0.8728 | 7.43 | IV Q | | | | |
| 9+15 | 0.9285 | 8.08 | IV Q | | | | |
| 9+20 | 0.9867 | 8.46 | IV IQ | | | | |
| 9+25 | 1.0483 | 8.95 | IV IQ | | | | |
| 9+30 | 1.1129 | 9.37 | IV IQ | | | | |
| 9+35 | 1.1795 | 9.67 | IV IQ | | | | |

| | | | | | | | | |
|-------|--------|-------|--|--|---|---|---|--|
| 14+40 | 7.1106 | 18.18 | | | | Q | V | |
| 14+45 | 7.2357 | 18.18 | | | | Q | V | |
| 14+50 | 7.3608 | 18.17 | | | | Q | V | |
| 14+55 | 7.4844 | 17.93 | | | | Q | V | |
| 15+ 0 | 7.6063 | 17.71 | | | | Q | V | |
| 15+ 5 | 7.7274 | 17.58 | | | | Q | V | |
| 15+10 | 7.8464 | 17.27 | | | | Q | V | |
| 15+15 | 7.9635 | 17.01 | | | | Q | V | |
| 15+20 | 8.0794 | 16.83 | | | | Q | V | |
| 15+25 | 8.1929 | 16.48 | | | | Q | V | |
| 15+30 | 8.3044 | 16.18 | | | | Q | V | |
| 15+35 | 8.4131 | 15.79 | | | | Q | V | |
| 15+40 | 8.5134 | 14.57 | | | | Q | V | |
| 15+45 | 8.6061 | 13.46 | | | | Q | V | |
| 15+50 | 8.6956 | 13.00 | | | | Q | V | |
| 15+55 | 8.7834 | 12.75 | | | | Q | V | |
| 16+ 0 | 8.8700 | 12.58 | | | | Q | V | |
| 16+ 5 | 8.9501 | 11.63 | | | | Q | V | |
| 16+10 | 9.0053 | 8.02 | | | Q | | V | |
| 16+15 | 9.0374 | 4.65 | | | Q | | V | |
| 16+20 | 9.0598 | 3.26 | | | Q | | V | |
| 16+25 | 9.0768 | 2.46 | | | Q | | V | |
| 16+30 | 9.0899 | 1.91 | | | Q | | V | |
| 16+35 | 9.1002 | 1.50 | | | Q | | V | |
| 16+40 | 9.1084 | 1.18 | | | Q | | V | |
| 16+45 | 9.1148 | 0.93 | | | Q | | V | |
| 16+50 | 9.1200 | 0.75 | | | Q | | V | |
| 16+55 | 9.1242 | 0.61 | | | Q | | V | |
| 17+ 0 | 9.1277 | 0.51 | | | Q | | V | |
| 17+ 5 | 9.1307 | 0.45 | | | Q | | V | |
| 17+10 | 9.1338 | 0.44 | | | Q | | V | |
| 17+15 | 9.1366 | 0.42 | | | Q | | V | |
| 17+20 | 9.1397 | 0.44 | | | Q | | V | |
| 17+25 | 9.1428 | 0.45 | | | Q | | V | |
| 17+30 | 9.1459 | 0.46 | | | Q | | V | |
| 17+35 | 9.1491 | 0.46 | | | Q | | V | |
| 17+40 | 9.1523 | 0.47 | | | Q | | V | |
| 17+45 | 9.1556 | 0.47 | | | Q | | V | |
| 17+50 | 9.1588 | 0.47 | | | Q | | V | |
| 17+55 | 9.1618 | 0.44 | | | Q | | V | |
| 18+ 0 | 9.1647 | 0.41 | | | Q | | V | |
| 18+ 5 | 9.1674 | 0.40 | | | Q | | V | |
| 18+10 | 9.1702 | 0.40 | | | Q | | V | |
| 18+15 | 9.1729 | 0.40 | | | Q | | V | |
| 18+20 | 9.1756 | 0.39 | | | Q | | V | |
| 18+25 | 9.1783 | 0.39 | | | Q | | V | |
| 18+30 | 9.1810 | 0.39 | | | Q | | V | |
| 18+35 | 9.1836 | 0.38 | | | Q | | V | |
| 18+40 | 9.1860 | 0.35 | | | Q | | V | |
| 18+45 | 9.1883 | 0.32 | | | Q | | V | |
| 18+50 | 9.1904 | 0.30 | | | Q | | V | |
| 18+55 | 9.1922 | 0.27 | | | Q | | V | |
| 19+ 0 | 9.1939 | 0.24 | | | Q | | V | |
| 19+ 5 | 9.1955 | 0.23 | | | Q | | V | |
| 19+10 | 9.1972 | 0.25 | | | Q | | V | |
| 19+15 | 9.1990 | 0.27 | | | Q | | V | |
| 19+20 | 9.2010 | 0.29 | | | Q | | V | |
| 19+25 | 9.2032 | 0.32 | | | Q | | V | |
| 19+30 | 9.2056 | 0.35 | | | Q | | V | |
| 19+35 | 9.2080 | 0.35 | | | Q | | V | |

| | | | | | | | |
|-------|--------|------|---|--|--|--|---|
| 19+40 | 9.2103 | 0.33 | Q | | | | V |
| 19+45 | 9.2124 | 0.31 | Q | | | | V |
| 19+50 | 9.2144 | 0.29 | Q | | | | V |
| 19+55 | 9.2162 | 0.26 | Q | | | | V |
| 20+ 0 | 9.2178 | 0.23 | Q | | | | V |
| 20+ 5 | 9.2193 | 0.23 | Q | | | | V |
| 20+10 | 9.2210 | 0.25 | Q | | | | V |
| 20+15 | 9.2229 | 0.27 | Q | | | | V |
| 20+20 | 9.2248 | 0.28 | Q | | | | V |
| 20+25 | 9.2267 | 0.28 | Q | | | | V |
| 20+30 | 9.2287 | 0.28 | Q | | | | V |
| 20+35 | 9.2306 | 0.28 | Q | | | | V |
| 20+40 | 9.2326 | 0.28 | Q | | | | V |
| 20+45 | 9.2345 | 0.28 | Q | | | | V |
| 20+50 | 9.2365 | 0.28 | Q | | | | V |
| 20+55 | 9.2382 | 0.25 | Q | | | | V |
| 21+ 0 | 9.2397 | 0.22 | Q | | | | V |
| 21+ 5 | 9.2412 | 0.22 | Q | | | | V |
| 21+10 | 9.2429 | 0.24 | Q | | | | V |
| 21+15 | 9.2448 | 0.27 | Q | | | | V |
| 21+20 | 9.2466 | 0.27 | Q | | | | V |
| 21+25 | 9.2483 | 0.24 | Q | | | | V |
| 21+30 | 9.2498 | 0.22 | Q | | | | V |
| 21+35 | 9.2513 | 0.22 | Q | | | | V |
| 21+40 | 9.2529 | 0.24 | Q | | | | V |
| 21+45 | 9.2547 | 0.26 | Q | | | | V |
| 21+50 | 9.2566 | 0.27 | Q | | | | V |
| 21+55 | 9.2582 | 0.24 | Q | | | | V |
| 22+ 0 | 9.2597 | 0.22 | Q | | | | V |
| 22+ 5 | 9.2612 | 0.21 | Q | | | | V |
| 22+10 | 9.2629 | 0.24 | Q | | | | V |
| 22+15 | 9.2647 | 0.26 | Q | | | | V |
| 22+20 | 9.2665 | 0.27 | Q | | | | V |
| 22+25 | 9.2682 | 0.24 | Q | | | | V |
| 22+30 | 9.2696 | 0.22 | Q | | | | V |
| 22+35 | 9.2711 | 0.21 | Q | | | | V |
| 22+40 | 9.2725 | 0.20 | Q | | | | V |
| 22+45 | 9.2739 | 0.20 | Q | | | | V |
| 22+50 | 9.2752 | 0.20 | Q | | | | V |
| 22+55 | 9.2766 | 0.20 | Q | | | | V |
| 23+ 0 | 9.2779 | 0.20 | Q | | | | V |
| 23+ 5 | 9.2793 | 0.19 | Q | | | | V |
| 23+10 | 9.2806 | 0.19 | Q | | | | V |
| 23+15 | 9.2819 | 0.19 | Q | | | | V |
| 23+20 | 9.2833 | 0.19 | Q | | | | V |
| 23+25 | 9.2846 | 0.19 | Q | | | | V |
| 23+30 | 9.2859 | 0.19 | Q | | | | V |
| 23+35 | 9.2873 | 0.19 | Q | | | | V |
| 23+40 | 9.2886 | 0.19 | Q | | | | V |
| 23+45 | 9.2899 | 0.19 | Q | | | | V |
| 23+50 | 9.2912 | 0.19 | Q | | | | V |
| 23+55 | 9.2925 | 0.19 | Q | | | | V |
| 24+ 0 | 9.2939 | 0.19 | Q | | | | V |
| 24+ 5 | 9.2951 | 0.18 | Q | | | | V |
| 24+10 | 9.2959 | 0.12 | Q | | | | V |
| 24+15 | 9.2964 | 0.07 | Q | | | | V |
| 24+20 | 9.2967 | 0.04 | Q | | | | V |
| 24+25 | 9.2969 | 0.03 | Q | | | | V |
| 24+30 | 9.2971 | 0.02 | Q | | | | V |
| 24+35 | 9.2972 | 0.02 | Q | | | | V |

| | | | | | | | |
|-------|--------|------|---|--|--|--|---|
| 24+40 | 9.2973 | 0.01 | Q | | | | V |
| 24+45 | 9.2974 | 0.01 | Q | | | | V |
| 24+50 | 9.2974 | 0.01 | Q | | | | V |
| 24+55 | 9.2975 | 0.01 | Q | | | | V |
| 25+ 0 | 9.2975 | 0.00 | Q | | | | V |
| 25+ 5 | 9.2975 | 0.00 | Q | | | | V |
| 25+10 | 9.2975 | 0.00 | Q | | | | V |

Unit Hydrograph Analysis

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Study date 03/24/22 File: 20750bpa242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6310

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

20-750 Building B
Proposed - Area A
2 year 24 hour

Drainage Area = 13.00 (Ac.) = 0.020 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 13.00 (Ac.) = 0.020
Sq. Mi.
Length along longest watercourse = 1009.00 (Ft.)
Length along longest watercourse measured to centroid = 370.00 (Ft.)
Length along longest watercourse = 0.191 Mi.
Length along longest watercourse measured to centroid = 0.070 Mi.
Difference in elevation = 12.70 (Ft.)
Slope along watercourse = 66.4579 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.031 Hr.
Lag time = 1.89 Min.
25% of lag time = 0.47 Min.
40% of lag time = 0.76 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00 (CFS)

2 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 13.00 | 1.60 | 20.80 |

100 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 13.00 | 4.00 | 52.00 |

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.600 (In)
 Area Averaged 100-Year Rainfall = 4.000 (In)

Point rain (area averaged) = 1.600 (In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.600 (In)

Sub-Area Data:

Area (Ac.) Runoff Index Impervious %
 13.000 69.00 0.900
 Total Area Entered = 13.00 (Ac.)

| | | | | | | |
|------|-------|-------------|------------|------------------|--------|-----------------|
| RI | RI | Infil. Rate | Impervious | Adj. Infil. Rate | Area% | F |
| AMC2 | AMC-1 | (In/Hr) | (Dec.%) | (In/Hr) | (Dec.) | (In/Hr) |
| 69.0 | 49.8 | 0.574 | 0.900 | 0.109 | 1.000 | 0.109 |
| | | | | | | Sum (F) = 0.109 |

Area averaged mean soil loss (F) (In/Hr) = 0.037

Minimum soil loss rate ((In/Hr)) = 0.018
 (for 24 hour storm duration)

Note: User entry of the f value
 Soil low loss rate (decimal) = 0.180

 U n i t H y d r o g r a p h
 VALLEY S-Curve

Unit Hydrograph Data

| Unit time period (hrs) | Time % of lag | Distribution Graph % | Unit Hydrograph (CFS) |
|---------------------------|---------------|-------------------------|--------------------------|
| 1 | 0.083 | 264.610 | 52.732 |
| 2 | 0.167 | 529.220 | 39.165 |
| 3 | 0.250 | 793.831 | 6.567 |
| 4 | 0.333 | 1058.441 | 1.536 |
| | | Sum = 100.000 | Sum= 13.102 |

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

| Unit Time (Hr.) | Pattern Percent | Storm Rain (In/Hr) | Loss rate (In./Hr) | | Effective (In/Hr) |
|--------------------|--------------------|-----------------------|--------------------|-------|----------------------|
| | | | Max | Low | |
| 1 | 0.08 | 0.07 | (0.065) | 0.002 | 0.010 |
| 2 | 0.17 | 0.07 | (0.065) | 0.002 | 0.010 |
| 3 | 0.25 | 0.07 | (0.065) | 0.002 | 0.010 |
| 4 | 0.33 | 0.10 | (0.065) | 0.003 | 0.016 |
| 5 | 0.42 | 0.10 | (0.064) | 0.003 | 0.016 |
| 6 | 0.50 | 0.10 | (0.064) | 0.003 | 0.016 |
| 7 | 0.58 | 0.10 | (0.064) | 0.003 | 0.016 |
| 8 | 0.67 | 0.10 | (0.064) | 0.003 | 0.016 |
| 9 | 0.75 | 0.10 | (0.063) | 0.003 | 0.016 |
| 10 | 0.83 | 0.13 | (0.063) | 0.005 | 0.021 |
| 11 | 0.92 | 0.13 | (0.063) | 0.005 | 0.021 |
| 12 | 1.00 | 0.13 | (0.063) | 0.005 | 0.021 |
| 13 | 1.08 | 0.10 | (0.062) | 0.003 | 0.016 |
| 14 | 1.17 | 0.10 | (0.062) | 0.003 | 0.016 |

| | | | | | | |
|----|------|------|-------|----------|-------|-------|
| 15 | 1.25 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 16 | 1.33 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 17 | 1.42 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 18 | 1.50 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 19 | 1.58 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 20 | 1.67 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 21 | 1.75 | 0.10 | 0.019 | (0.060) | 0.003 | 0.016 |
| 22 | 1.83 | 0.13 | 0.026 | (0.060) | 0.005 | 0.021 |
| 23 | 1.92 | 0.13 | 0.026 | (0.060) | 0.005 | 0.021 |
| 24 | 2.00 | 0.13 | 0.026 | (0.060) | 0.005 | 0.021 |
| 25 | 2.08 | 0.13 | 0.026 | (0.059) | 0.005 | 0.021 |
| 26 | 2.17 | 0.13 | 0.026 | (0.059) | 0.005 | 0.021 |
| 27 | 2.25 | 0.13 | 0.026 | (0.059) | 0.005 | 0.021 |
| 28 | 2.33 | 0.13 | 0.026 | (0.059) | 0.005 | 0.021 |
| 29 | 2.42 | 0.13 | 0.026 | (0.058) | 0.005 | 0.021 |
| 30 | 2.50 | 0.13 | 0.026 | (0.058) | 0.005 | 0.021 |
| 31 | 2.58 | 0.17 | 0.032 | (0.058) | 0.006 | 0.026 |
| 32 | 2.67 | 0.17 | 0.032 | (0.058) | 0.006 | 0.026 |
| 33 | 2.75 | 0.17 | 0.032 | (0.057) | 0.006 | 0.026 |
| 34 | 2.83 | 0.17 | 0.032 | (0.057) | 0.006 | 0.026 |
| 35 | 2.92 | 0.17 | 0.032 | (0.057) | 0.006 | 0.026 |
| 36 | 3.00 | 0.17 | 0.032 | (0.057) | 0.006 | 0.026 |
| 37 | 3.08 | 0.17 | 0.032 | (0.057) | 0.006 | 0.026 |
| 38 | 3.17 | 0.17 | 0.032 | (0.056) | 0.006 | 0.026 |
| 39 | 3.25 | 0.17 | 0.032 | (0.056) | 0.006 | 0.026 |
| 40 | 3.33 | 0.17 | 0.032 | (0.056) | 0.006 | 0.026 |
| 41 | 3.42 | 0.17 | 0.032 | (0.056) | 0.006 | 0.026 |
| 42 | 3.50 | 0.17 | 0.032 | (0.055) | 0.006 | 0.026 |
| 43 | 3.58 | 0.17 | 0.032 | (0.055) | 0.006 | 0.026 |
| 44 | 3.67 | 0.17 | 0.032 | (0.055) | 0.006 | 0.026 |
| 45 | 3.75 | 0.17 | 0.032 | (0.055) | 0.006 | 0.026 |
| 46 | 3.83 | 0.20 | 0.038 | (0.054) | 0.007 | 0.031 |
| 47 | 3.92 | 0.20 | 0.038 | (0.054) | 0.007 | 0.031 |
| 48 | 4.00 | 0.20 | 0.038 | (0.054) | 0.007 | 0.031 |
| 49 | 4.08 | 0.20 | 0.038 | (0.054) | 0.007 | 0.031 |
| 50 | 4.17 | 0.20 | 0.038 | (0.054) | 0.007 | 0.031 |
| 51 | 4.25 | 0.20 | 0.038 | (0.053) | 0.007 | 0.031 |
| 52 | 4.33 | 0.23 | 0.045 | (0.053) | 0.008 | 0.037 |
| 53 | 4.42 | 0.23 | 0.045 | (0.053) | 0.008 | 0.037 |
| 54 | 4.50 | 0.23 | 0.045 | (0.053) | 0.008 | 0.037 |
| 55 | 4.58 | 0.23 | 0.045 | (0.052) | 0.008 | 0.037 |
| 56 | 4.67 | 0.23 | 0.045 | (0.052) | 0.008 | 0.037 |
| 57 | 4.75 | 0.23 | 0.045 | (0.052) | 0.008 | 0.037 |
| 58 | 4.83 | 0.27 | 0.051 | (0.052) | 0.009 | 0.042 |
| 59 | 4.92 | 0.27 | 0.051 | (0.051) | 0.009 | 0.042 |
| 60 | 5.00 | 0.27 | 0.051 | (0.051) | 0.009 | 0.042 |
| 61 | 5.08 | 0.20 | 0.038 | (0.051) | 0.007 | 0.031 |
| 62 | 5.17 | 0.20 | 0.038 | (0.051) | 0.007 | 0.031 |
| 63 | 5.25 | 0.20 | 0.038 | (0.051) | 0.007 | 0.031 |
| 64 | 5.33 | 0.23 | 0.045 | (0.050) | 0.008 | 0.037 |
| 65 | 5.42 | 0.23 | 0.045 | (0.050) | 0.008 | 0.037 |
| 66 | 5.50 | 0.23 | 0.045 | (0.050) | 0.008 | 0.037 |
| 67 | 5.58 | 0.27 | 0.051 | (0.050) | 0.009 | 0.042 |
| 68 | 5.67 | 0.27 | 0.051 | (0.049) | 0.009 | 0.042 |
| 69 | 5.75 | 0.27 | 0.051 | (0.049) | 0.009 | 0.042 |
| 70 | 5.83 | 0.27 | 0.051 | (0.049) | 0.009 | 0.042 |
| 71 | 5.92 | 0.27 | 0.051 | (0.049) | 0.009 | 0.042 |
| 72 | 6.00 | 0.27 | 0.051 | (0.049) | 0.009 | 0.042 |
| 73 | 6.08 | 0.30 | 0.058 | (0.048) | 0.010 | 0.047 |
| 74 | 6.17 | 0.30 | 0.058 | (0.048) | 0.010 | 0.047 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 75 | 6.25 | 0.30 | 0.058 | (0.048) | 0.010 | 0.047 |
| 76 | 6.33 | 0.30 | 0.058 | (0.048) | 0.010 | 0.047 |
| 77 | 6.42 | 0.30 | 0.058 | (0.048) | 0.010 | 0.047 |
| 78 | 6.50 | 0.30 | 0.058 | (0.047) | 0.010 | 0.047 |
| 79 | 6.58 | 0.33 | 0.064 | (0.047) | 0.012 | 0.052 |
| 80 | 6.67 | 0.33 | 0.064 | (0.047) | 0.012 | 0.052 |
| 81 | 6.75 | 0.33 | 0.064 | (0.047) | 0.012 | 0.052 |
| 82 | 6.83 | 0.33 | 0.064 | (0.046) | 0.012 | 0.052 |
| 83 | 6.92 | 0.33 | 0.064 | (0.046) | 0.012 | 0.052 |
| 84 | 7.00 | 0.33 | 0.064 | (0.046) | 0.012 | 0.052 |
| 85 | 7.08 | 0.33 | 0.064 | (0.046) | 0.012 | 0.052 |
| 86 | 7.17 | 0.33 | 0.064 | (0.046) | 0.012 | 0.052 |
| 87 | 7.25 | 0.33 | 0.064 | (0.045) | 0.012 | 0.052 |
| 88 | 7.33 | 0.37 | 0.070 | (0.045) | 0.013 | 0.058 |
| 89 | 7.42 | 0.37 | 0.070 | (0.045) | 0.013 | 0.058 |
| 90 | 7.50 | 0.37 | 0.070 | (0.045) | 0.013 | 0.058 |
| 91 | 7.58 | 0.40 | 0.077 | (0.045) | 0.014 | 0.063 |
| 92 | 7.67 | 0.40 | 0.077 | (0.044) | 0.014 | 0.063 |
| 93 | 7.75 | 0.40 | 0.077 | (0.044) | 0.014 | 0.063 |
| 94 | 7.83 | 0.43 | 0.083 | (0.044) | 0.015 | 0.068 |
| 95 | 7.92 | 0.43 | 0.083 | (0.044) | 0.015 | 0.068 |
| 96 | 8.00 | 0.43 | 0.083 | (0.044) | 0.015 | 0.068 |
| 97 | 8.08 | 0.50 | 0.096 | (0.043) | 0.017 | 0.079 |
| 98 | 8.17 | 0.50 | 0.096 | (0.043) | 0.017 | 0.079 |
| 99 | 8.25 | 0.50 | 0.096 | (0.043) | 0.017 | 0.079 |
| 100 | 8.33 | 0.50 | 0.096 | (0.043) | 0.017 | 0.079 |
| 101 | 8.42 | 0.50 | 0.096 | (0.043) | 0.017 | 0.079 |
| 102 | 8.50 | 0.50 | 0.096 | (0.042) | 0.017 | 0.079 |
| 103 | 8.58 | 0.53 | 0.102 | (0.042) | 0.018 | 0.084 |
| 104 | 8.67 | 0.53 | 0.102 | (0.042) | 0.018 | 0.084 |
| 105 | 8.75 | 0.53 | 0.102 | (0.042) | 0.018 | 0.084 |
| 106 | 8.83 | 0.57 | 0.109 | (0.042) | 0.020 | 0.089 |
| 107 | 8.92 | 0.57 | 0.109 | (0.041) | 0.020 | 0.089 |
| 108 | 9.00 | 0.57 | 0.109 | (0.041) | 0.020 | 0.089 |
| 109 | 9.08 | 0.63 | 0.122 | (0.041) | 0.022 | 0.100 |
| 110 | 9.17 | 0.63 | 0.122 | (0.041) | 0.022 | 0.100 |
| 111 | 9.25 | 0.63 | 0.122 | (0.041) | 0.022 | 0.100 |
| 112 | 9.33 | 0.67 | 0.128 | (0.040) | 0.023 | 0.105 |
| 113 | 9.42 | 0.67 | 0.128 | (0.040) | 0.023 | 0.105 |
| 114 | 9.50 | 0.67 | 0.128 | (0.040) | 0.023 | 0.105 |
| 115 | 9.58 | 0.70 | 0.134 | (0.040) | 0.024 | 0.110 |
| 116 | 9.67 | 0.70 | 0.134 | (0.040) | 0.024 | 0.110 |
| 117 | 9.75 | 0.70 | 0.134 | (0.039) | 0.024 | 0.110 |
| 118 | 9.83 | 0.73 | 0.141 | (0.039) | 0.025 | 0.115 |
| 119 | 9.92 | 0.73 | 0.141 | (0.039) | 0.025 | 0.115 |
| 120 | 10.00 | 0.73 | 0.141 | (0.039) | 0.025 | 0.115 |
| 121 | 10.08 | 0.50 | 0.096 | (0.039) | 0.017 | 0.079 |
| 122 | 10.17 | 0.50 | 0.096 | (0.039) | 0.017 | 0.079 |
| 123 | 10.25 | 0.50 | 0.096 | (0.038) | 0.017 | 0.079 |
| 124 | 10.33 | 0.50 | 0.096 | (0.038) | 0.017 | 0.079 |
| 125 | 10.42 | 0.50 | 0.096 | (0.038) | 0.017 | 0.079 |
| 126 | 10.50 | 0.50 | 0.096 | (0.038) | 0.017 | 0.079 |
| 127 | 10.58 | 0.67 | 0.128 | (0.038) | 0.023 | 0.105 |
| 128 | 10.67 | 0.67 | 0.128 | (0.037) | 0.023 | 0.105 |
| 129 | 10.75 | 0.67 | 0.128 | (0.037) | 0.023 | 0.105 |
| 130 | 10.83 | 0.67 | 0.128 | (0.037) | 0.023 | 0.105 |
| 131 | 10.92 | 0.67 | 0.128 | (0.037) | 0.023 | 0.105 |
| 132 | 11.00 | 0.67 | 0.128 | (0.037) | 0.023 | 0.105 |
| 133 | 11.08 | 0.63 | 0.122 | (0.036) | 0.022 | 0.100 |
| 134 | 11.17 | 0.63 | 0.122 | (0.036) | 0.022 | 0.100 |

| | | | | | | |
|-----|-------|------|-------|----------|----------|-------|
| 135 | 11.25 | 0.63 | 0.122 | (0.036) | 0.022 | 0.100 |
| 136 | 11.33 | 0.63 | 0.122 | (0.036) | 0.022 | 0.100 |
| 137 | 11.42 | 0.63 | 0.122 | (0.036) | 0.022 | 0.100 |
| 138 | 11.50 | 0.63 | 0.122 | (0.036) | 0.022 | 0.100 |
| 139 | 11.58 | 0.57 | 0.109 | (0.035) | 0.020 | 0.089 |
| 140 | 11.67 | 0.57 | 0.109 | (0.035) | 0.020 | 0.089 |
| 141 | 11.75 | 0.57 | 0.109 | (0.035) | 0.020 | 0.089 |
| 142 | 11.83 | 0.60 | 0.115 | (0.035) | 0.021 | 0.094 |
| 143 | 11.92 | 0.60 | 0.115 | (0.035) | 0.021 | 0.094 |
| 144 | 12.00 | 0.60 | 0.115 | (0.035) | 0.021 | 0.094 |
| 145 | 12.08 | 0.83 | 0.160 | (0.034) | 0.029 | 0.131 |
| 146 | 12.17 | 0.83 | 0.160 | (0.034) | 0.029 | 0.131 |
| 147 | 12.25 | 0.83 | 0.160 | (0.034) | 0.029 | 0.131 |
| 148 | 12.33 | 0.87 | 0.166 | (0.034) | 0.030 | 0.136 |
| 149 | 12.42 | 0.87 | 0.166 | (0.034) | 0.030 | 0.136 |
| 150 | 12.50 | 0.87 | 0.166 | (0.034) | 0.030 | 0.136 |
| 151 | 12.58 | 0.93 | 0.179 | (0.033) | 0.032 | 0.147 |
| 152 | 12.67 | 0.93 | 0.179 | (0.033) | 0.032 | 0.147 |
| 153 | 12.75 | 0.93 | 0.179 | (0.033) | 0.032 | 0.147 |
| 154 | 12.83 | 0.97 | 0.186 | 0.033 | (0.033) | 0.153 |
| 155 | 12.92 | 0.97 | 0.186 | 0.033 | (0.033) | 0.153 |
| 156 | 13.00 | 0.97 | 0.186 | 0.033 | (0.033) | 0.153 |
| 157 | 13.08 | 1.13 | 0.218 | 0.032 | (0.039) | 0.185 |
| 158 | 13.17 | 1.13 | 0.218 | 0.032 | (0.039) | 0.185 |
| 159 | 13.25 | 1.13 | 0.218 | 0.032 | (0.039) | 0.186 |
| 160 | 13.33 | 1.13 | 0.218 | 0.032 | (0.039) | 0.186 |
| 161 | 13.42 | 1.13 | 0.218 | 0.032 | (0.039) | 0.186 |
| 162 | 13.50 | 1.13 | 0.218 | 0.032 | (0.039) | 0.186 |
| 163 | 13.58 | 0.77 | 0.147 | (0.031) | 0.026 | 0.121 |
| 164 | 13.67 | 0.77 | 0.147 | (0.031) | 0.026 | 0.121 |
| 165 | 13.75 | 0.77 | 0.147 | (0.031) | 0.026 | 0.121 |
| 166 | 13.83 | 0.77 | 0.147 | (0.031) | 0.026 | 0.121 |
| 167 | 13.92 | 0.77 | 0.147 | (0.031) | 0.026 | 0.121 |
| 168 | 14.00 | 0.77 | 0.147 | (0.031) | 0.026 | 0.121 |
| 169 | 14.08 | 0.90 | 0.173 | 0.030 | (0.031) | 0.142 |
| 170 | 14.17 | 0.90 | 0.173 | 0.030 | (0.031) | 0.143 |
| 171 | 14.25 | 0.90 | 0.173 | 0.030 | (0.031) | 0.143 |
| 172 | 14.33 | 0.87 | 0.166 | (0.030) | 0.030 | 0.136 |
| 173 | 14.42 | 0.87 | 0.166 | 0.030 | (0.030) | 0.137 |
| 174 | 14.50 | 0.87 | 0.166 | 0.030 | (0.030) | 0.137 |
| 175 | 14.58 | 0.87 | 0.166 | 0.030 | (0.030) | 0.137 |
| 176 | 14.67 | 0.87 | 0.166 | 0.029 | (0.030) | 0.137 |
| 177 | 14.75 | 0.87 | 0.166 | 0.029 | (0.030) | 0.137 |
| 178 | 14.83 | 0.83 | 0.160 | (0.029) | 0.029 | 0.131 |
| 179 | 14.92 | 0.83 | 0.160 | (0.029) | 0.029 | 0.131 |
| 180 | 15.00 | 0.83 | 0.160 | 0.029 | (0.029) | 0.131 |
| 181 | 15.08 | 0.80 | 0.154 | (0.029) | 0.028 | 0.126 |
| 182 | 15.17 | 0.80 | 0.154 | (0.028) | 0.028 | 0.126 |
| 183 | 15.25 | 0.80 | 0.154 | (0.028) | 0.028 | 0.126 |
| 184 | 15.33 | 0.77 | 0.147 | (0.028) | 0.026 | 0.121 |
| 185 | 15.42 | 0.77 | 0.147 | (0.028) | 0.026 | 0.121 |
| 186 | 15.50 | 0.77 | 0.147 | (0.028) | 0.026 | 0.121 |
| 187 | 15.58 | 0.63 | 0.122 | (0.028) | 0.022 | 0.100 |
| 188 | 15.67 | 0.63 | 0.122 | (0.028) | 0.022 | 0.100 |
| 189 | 15.75 | 0.63 | 0.122 | (0.027) | 0.022 | 0.100 |
| 190 | 15.83 | 0.63 | 0.122 | (0.027) | 0.022 | 0.100 |
| 191 | 15.92 | 0.63 | 0.122 | (0.027) | 0.022 | 0.100 |
| 192 | 16.00 | 0.63 | 0.122 | (0.027) | 0.022 | 0.100 |
| 193 | 16.08 | 0.13 | 0.026 | (0.027) | 0.005 | 0.021 |
| 194 | 16.17 | 0.13 | 0.026 | (0.027) | 0.005 | 0.021 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 195 | 16.25 | 0.13 | 0.026 | (0.027) | 0.005 | 0.021 |
| 196 | 16.33 | 0.13 | 0.026 | (0.026) | 0.005 | 0.021 |
| 197 | 16.42 | 0.13 | 0.026 | (0.026) | 0.005 | 0.021 |
| 198 | 16.50 | 0.13 | 0.026 | (0.026) | 0.005 | 0.021 |
| 199 | 16.58 | 0.10 | 0.019 | (0.026) | 0.003 | 0.016 |
| 200 | 16.67 | 0.10 | 0.019 | (0.026) | 0.003 | 0.016 |
| 201 | 16.75 | 0.10 | 0.019 | (0.026) | 0.003 | 0.016 |
| 202 | 16.83 | 0.10 | 0.019 | (0.026) | 0.003 | 0.016 |
| 203 | 16.92 | 0.10 | 0.019 | (0.026) | 0.003 | 0.016 |
| 204 | 17.00 | 0.10 | 0.019 | (0.025) | 0.003 | 0.016 |
| 205 | 17.08 | 0.17 | 0.032 | (0.025) | 0.006 | 0.026 |
| 206 | 17.17 | 0.17 | 0.032 | (0.025) | 0.006 | 0.026 |
| 207 | 17.25 | 0.17 | 0.032 | (0.025) | 0.006 | 0.026 |
| 208 | 17.33 | 0.17 | 0.032 | (0.025) | 0.006 | 0.026 |
| 209 | 17.42 | 0.17 | 0.032 | (0.025) | 0.006 | 0.026 |
| 210 | 17.50 | 0.17 | 0.032 | (0.025) | 0.006 | 0.026 |
| 211 | 17.58 | 0.17 | 0.032 | (0.025) | 0.006 | 0.026 |
| 212 | 17.67 | 0.17 | 0.032 | (0.024) | 0.006 | 0.026 |
| 213 | 17.75 | 0.17 | 0.032 | (0.024) | 0.006 | 0.026 |
| 214 | 17.83 | 0.13 | 0.026 | (0.024) | 0.005 | 0.021 |
| 215 | 17.92 | 0.13 | 0.026 | (0.024) | 0.005 | 0.021 |
| 216 | 18.00 | 0.13 | 0.026 | (0.024) | 0.005 | 0.021 |
| 217 | 18.08 | 0.13 | 0.026 | (0.024) | 0.005 | 0.021 |
| 218 | 18.17 | 0.13 | 0.026 | (0.024) | 0.005 | 0.021 |
| 219 | 18.25 | 0.13 | 0.026 | (0.024) | 0.005 | 0.021 |
| 220 | 18.33 | 0.13 | 0.026 | (0.023) | 0.005 | 0.021 |
| 221 | 18.42 | 0.13 | 0.026 | (0.023) | 0.005 | 0.021 |
| 222 | 18.50 | 0.13 | 0.026 | (0.023) | 0.005 | 0.021 |
| 223 | 18.58 | 0.10 | 0.019 | (0.023) | 0.003 | 0.016 |
| 224 | 18.67 | 0.10 | 0.019 | (0.023) | 0.003 | 0.016 |
| 225 | 18.75 | 0.10 | 0.019 | (0.023) | 0.003 | 0.016 |
| 226 | 18.83 | 0.07 | 0.013 | (0.023) | 0.002 | 0.010 |
| 227 | 18.92 | 0.07 | 0.013 | (0.023) | 0.002 | 0.010 |
| 228 | 19.00 | 0.07 | 0.013 | (0.023) | 0.002 | 0.010 |
| 229 | 19.08 | 0.10 | 0.019 | (0.022) | 0.003 | 0.016 |
| 230 | 19.17 | 0.10 | 0.019 | (0.022) | 0.003 | 0.016 |
| 231 | 19.25 | 0.10 | 0.019 | (0.022) | 0.003 | 0.016 |
| 232 | 19.33 | 0.13 | 0.026 | (0.022) | 0.005 | 0.021 |
| 233 | 19.42 | 0.13 | 0.026 | (0.022) | 0.005 | 0.021 |
| 234 | 19.50 | 0.13 | 0.026 | (0.022) | 0.005 | 0.021 |
| 235 | 19.58 | 0.10 | 0.019 | (0.022) | 0.003 | 0.016 |
| 236 | 19.67 | 0.10 | 0.019 | (0.022) | 0.003 | 0.016 |
| 237 | 19.75 | 0.10 | 0.019 | (0.022) | 0.003 | 0.016 |
| 238 | 19.83 | 0.07 | 0.013 | (0.022) | 0.002 | 0.010 |
| 239 | 19.92 | 0.07 | 0.013 | (0.021) | 0.002 | 0.010 |
| 240 | 20.00 | 0.07 | 0.013 | (0.021) | 0.002 | 0.010 |
| 241 | 20.08 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 242 | 20.17 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 243 | 20.25 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 244 | 20.33 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 245 | 20.42 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 246 | 20.50 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 247 | 20.58 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 248 | 20.67 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 249 | 20.75 | 0.10 | 0.019 | (0.021) | 0.003 | 0.016 |
| 250 | 20.83 | 0.07 | 0.013 | (0.020) | 0.002 | 0.010 |
| 251 | 20.92 | 0.07 | 0.013 | (0.020) | 0.002 | 0.010 |
| 252 | 21.00 | 0.07 | 0.013 | (0.020) | 0.002 | 0.010 |
| 253 | 21.08 | 0.10 | 0.019 | (0.020) | 0.003 | 0.016 |
| 254 | 21.17 | 0.10 | 0.019 | (0.020) | 0.003 | 0.016 |

| | | | | | | | |
|------|--------|------|------|--|--|--|--|
| 0+30 | 0.0063 | 0.21 | Q | | | | |
| 0+35 | 0.0077 | 0.21 | Q | | | | |
| 0+40 | 0.0091 | 0.21 | Q | | | | |
| 0+45 | 0.0106 | 0.21 | Q | | | | |
| 0+50 | 0.0122 | 0.24 | Q | | | | |
| 0+55 | 0.0141 | 0.27 | VQ | | | | |
| 1+ 0 | 0.0160 | 0.27 | VQ | | | | |
| 1+ 5 | 0.0176 | 0.24 | Q | | | | |
| 1+10 | 0.0191 | 0.21 | Q | | | | |
| 1+15 | 0.0205 | 0.21 | Q | | | | |
| 1+20 | 0.0219 | 0.21 | Q | | | | |
| 1+25 | 0.0234 | 0.21 | Q | | | | |
| 1+30 | 0.0248 | 0.21 | Q | | | | |
| 1+35 | 0.0262 | 0.21 | Q | | | | |
| 1+40 | 0.0276 | 0.21 | Q | | | | |
| 1+45 | 0.0290 | 0.21 | Q | | | | |
| 1+50 | 0.0307 | 0.24 | Q | | | | |
| 1+55 | 0.0326 | 0.27 | VQ | | | | |
| 2+ 0 | 0.0345 | 0.27 | VQ | | | | |
| 2+ 5 | 0.0363 | 0.28 | IQ | | | | |
| 2+10 | 0.0382 | 0.28 | IQ | | | | |
| 2+15 | 0.0401 | 0.28 | IQ | | | | |
| 2+20 | 0.0420 | 0.28 | IQ | | | | |
| 2+25 | 0.0439 | 0.28 | IQ | | | | |
| 2+30 | 0.0458 | 0.28 | IQ | | | | |
| 2+35 | 0.0480 | 0.31 | IQ | | | | |
| 2+40 | 0.0503 | 0.34 | IQ | | | | |
| 2+45 | 0.0527 | 0.34 | IQ | | | | |
| 2+50 | 0.0550 | 0.34 | IQ | | | | |
| 2+55 | 0.0574 | 0.34 | IQ | | | | |
| 3+ 0 | 0.0598 | 0.34 | IQ | | | | |
| 3+ 5 | 0.0621 | 0.34 | IQ | | | | |
| 3+10 | 0.0645 | 0.34 | IQ | | | | |
| 3+15 | 0.0669 | 0.34 | IQ | | | | |
| 3+20 | 0.0692 | 0.34 | IQ | | | | |
| 3+25 | 0.0716 | 0.34 | IQV | | | | |
| 3+30 | 0.0740 | 0.34 | IQV | | | | |
| 3+35 | 0.0763 | 0.34 | IQV | | | | |
| 3+40 | 0.0787 | 0.34 | IQV | | | | |
| 3+45 | 0.0811 | 0.34 | IQV | | | | |
| 3+50 | 0.0837 | 0.38 | IQV | | | | |
| 3+55 | 0.0865 | 0.41 | IQV | | | | |
| 4+ 0 | 0.0893 | 0.41 | IQV | | | | |
| 4+ 5 | 0.0922 | 0.41 | IQV | | | | |
| 4+10 | 0.0950 | 0.41 | IQV | | | | |
| 4+15 | 0.0979 | 0.41 | IQV | | | | |
| 4+20 | 0.1010 | 0.45 | IQV | | | | |
| 4+25 | 0.1042 | 0.48 | IQV | | | | |
| 4+30 | 0.1076 | 0.48 | IQ V | | | | |
| 4+35 | 0.1109 | 0.48 | IQ V | | | | |
| 4+40 | 0.1142 | 0.48 | IQ V | | | | |
| 4+45 | 0.1175 | 0.48 | IQ V | | | | |
| 4+50 | 0.1211 | 0.52 | IQV | | | | |
| 4+55 | 0.1248 | 0.54 | IQV | | | | |
| 5+ 0 | 0.1286 | 0.55 | IQV | | | | |
| 5+ 5 | 0.1319 | 0.48 | IQ V | | | | |
| 5+10 | 0.1348 | 0.42 | IQ V | | | | |
| 5+15 | 0.1377 | 0.41 | IQ V | | | | |
| 5+20 | 0.1408 | 0.45 | IQ V | | | | |
| 5+25 | 0.1440 | 0.48 | IQ V | | | | |

| | | | | | | | | | |
|-------|--------|------|---|---|---|--|--|--|--|
| 5+30 | 0.1473 | 0.48 | Q | V | | | | | |
| 5+35 | 0.1509 | 0.52 | | Q | V | | | | |
| 5+40 | 0.1547 | 0.54 | | Q | V | | | | |
| 5+45 | 0.1584 | 0.55 | | Q | V | | | | |
| 5+50 | 0.1622 | 0.55 | | Q | V | | | | |
| 5+55 | 0.1660 | 0.55 | | Q | V | | | | |
| 6+ 0 | 0.1698 | 0.55 | | Q | V | | | | |
| 6+ 5 | 0.1739 | 0.59 | | Q | V | | | | |
| 6+10 | 0.1781 | 0.61 | | Q | V | | | | |
| 6+15 | 0.1823 | 0.62 | | Q | V | | | | |
| 6+20 | 0.1866 | 0.62 | | Q | V | | | | |
| 6+25 | 0.1909 | 0.62 | | Q | V | | | | |
| 6+30 | 0.1951 | 0.62 | | Q | V | | | | |
| 6+35 | 0.1996 | 0.66 | | Q | V | | | | |
| 6+40 | 0.2043 | 0.68 | | Q | V | | | | |
| 6+45 | 0.2091 | 0.69 | | Q | V | | | | |
| 6+50 | 0.2138 | 0.69 | | Q | V | | | | |
| 6+55 | 0.2186 | 0.69 | | Q | V | | | | |
| 7+ 0 | 0.2233 | 0.69 | | Q | V | | | | |
| 7+ 5 | 0.2280 | 0.69 | | Q | V | | | | |
| 7+10 | 0.2328 | 0.69 | | Q | V | | | | |
| 7+15 | 0.2375 | 0.69 | | Q | V | | | | |
| 7+20 | 0.2425 | 0.72 | | Q | V | | | | |
| 7+25 | 0.2477 | 0.75 | | Q | V | | | | |
| 7+30 | 0.2529 | 0.76 | | Q | V | | | | |
| 7+35 | 0.2583 | 0.79 | | Q | V | | | | |
| 7+40 | 0.2640 | 0.82 | | Q | V | | | | |
| 7+45 | 0.2697 | 0.82 | | Q | V | | | | |
| 7+50 | 0.2756 | 0.86 | | Q | V | | | | |
| 7+55 | 0.2817 | 0.89 | | Q | V | | | | |
| 8+ 0 | 0.2879 | 0.89 | | Q | V | | | | |
| 8+ 5 | 0.2945 | 0.97 | | Q | V | | | | |
| 8+10 | 0.3015 | 1.02 | | Q | V | | | | |
| 8+15 | 0.3086 | 1.03 | | Q | V | | | | |
| 8+20 | 0.3157 | 1.03 | | Q | V | | | | |
| 8+25 | 0.3229 | 1.03 | | Q | V | | | | |
| 8+30 | 0.3300 | 1.03 | | Q | V | | | | |
| 8+35 | 0.3373 | 1.07 | | Q | V | | | | |
| 8+40 | 0.3449 | 1.10 | | Q | V | | | | |
| 8+45 | 0.3524 | 1.10 | | Q | V | | | | |
| 8+50 | 0.3603 | 1.14 | | Q | V | | | | |
| 8+55 | 0.3683 | 1.16 | | Q | V | | | | |
| 9+ 0 | 0.3763 | 1.17 | | Q | V | | | | |
| 9+ 5 | 0.3849 | 1.24 | | Q | V | | | | |
| 9+10 | 0.3938 | 1.30 | | Q | V | | | | |
| 9+15 | 0.4028 | 1.30 | | Q | V | | | | |
| 9+20 | 0.4120 | 1.34 | | Q | V | | | | |
| 9+25 | 0.4215 | 1.37 | | Q | V | | | | |
| 9+30 | 0.4309 | 1.37 | | Q | V | | | | |
| 9+35 | 0.4407 | 1.41 | | Q | V | | | | |
| 9+40 | 0.4506 | 1.44 | | Q | V | | | | |
| 9+45 | 0.4605 | 1.44 | | Q | V | | | | |
| 9+50 | 0.4707 | 1.48 | | Q | V | | | | |
| 9+55 | 0.4811 | 1.51 | | Q | V | | | | |
| 10+ 0 | 0.4915 | 1.51 | | Q | V | | | | |
| 10+ 5 | 0.5002 | 1.26 | | Q | V | | | | |
| 10+10 | 0.5076 | 1.07 | | Q | V | | | | |
| 10+15 | 0.5147 | 1.04 | | Q | V | | | | |
| 10+20 | 0.5218 | 1.03 | | Q | V | | | | |
| 10+25 | 0.5289 | 1.03 | | Q | V | | | | |

| | | | | | | | | | |
|-------|--------|------|---|---|--|--|--|--|--|
| 10+30 | 0.5360 | 1.03 | Q | V | | | | | |
| 10+35 | 0.5444 | 1.21 | Q | V | | | | | |
| 10+40 | 0.5537 | 1.35 | Q | V | | | | | |
| 10+45 | 0.5631 | 1.37 | Q | V | | | | | |
| 10+50 | 0.5726 | 1.38 | Q | V | | | | | |
| 10+55 | 0.5821 | 1.38 | Q | V | | | | | |
| 11+ 0 | 0.5916 | 1.38 | Q | V | | | | | |
| 11+ 5 | 0.6008 | 1.34 | Q | V | | | | | |
| 11+10 | 0.6098 | 1.31 | Q | V | | | | | |
| 11+15 | 0.6188 | 1.31 | Q | V | | | | | |
| 11+20 | 0.6278 | 1.31 | Q | V | | | | | |
| 11+25 | 0.6368 | 1.31 | Q | V | | | | | |
| 11+30 | 0.6458 | 1.31 | Q | V | | | | | |
| 11+35 | 0.6543 | 1.23 | Q | V | | | | | |
| 11+40 | 0.6625 | 1.18 | Q | V | | | | | |
| 11+45 | 0.6705 | 1.17 | Q | V | | | | | |
| 11+50 | 0.6788 | 1.21 | Q | V | | | | | |
| 11+55 | 0.6873 | 1.23 | Q | V | | | | | |
| 12+ 0 | 0.6958 | 1.24 | Q | V | | | | | |
| 12+ 5 | 0.7061 | 1.49 | Q | V | | | | | |
| 12+10 | 0.7177 | 1.68 | Q | V | | | | | |
| 12+15 | 0.7295 | 1.71 | Q | V | | | | | |
| 12+20 | 0.7416 | 1.76 | Q | V | | | | | |
| 12+25 | 0.7539 | 1.78 | Q | V | | | | | |
| 12+30 | 0.7662 | 1.79 | Q | V | | | | | |
| 12+35 | 0.7790 | 1.86 | Q | V | | | | | |
| 12+40 | 0.7922 | 1.91 | Q | V | | | | | |
| 12+45 | 0.8054 | 1.92 | Q | V | | | | | |
| 12+50 | 0.8190 | 1.97 | Q | V | | | | | |
| 12+55 | 0.8327 | 2.00 | Q | V | | | | | |
| 13+ 0 | 0.8465 | 2.00 | Q | V | | | | | |
| 13+ 5 | 0.8619 | 2.23 | Q | V | | | | | |
| 13+10 | 0.8784 | 2.40 | Q | V | | | | | |
| 13+15 | 0.8951 | 2.42 | Q | V | | | | | |
| 13+20 | 0.9118 | 2.43 | Q | V | | | | | |
| 13+25 | 0.9286 | 2.44 | Q | V | | | | | |
| 13+30 | 0.9454 | 2.44 | Q | V | | | | | |
| 13+35 | 0.9591 | 1.99 | Q | V | | | | | |
| 13+40 | 0.9705 | 1.65 | Q | V | | | | | |
| 13+45 | 0.9814 | 1.60 | Q | V | | | | | |
| 13+50 | 0.9923 | 1.58 | Q | V | | | | | |
| 13+55 | 1.0032 | 1.58 | Q | V | | | | | |
| 14+ 0 | 1.0141 | 1.58 | Q | V | | | | | |
| 14+ 5 | 1.0261 | 1.73 | Q | V | | | | | |
| 14+10 | 1.0388 | 1.84 | Q | V | | | | | |
| 14+15 | 1.0516 | 1.86 | Q | V | | | | | |
| 14+20 | 1.0642 | 1.83 | Q | V | | | | | |
| 14+25 | 1.0766 | 1.80 | Q | V | | | | | |
| 14+30 | 1.0889 | 1.79 | Q | V | | | | | |
| 14+35 | 1.1012 | 1.79 | Q | V | | | | | |
| 14+40 | 1.1136 | 1.80 | Q | V | | | | | |
| 14+45 | 1.1260 | 1.80 | Q | V | | | | | |
| 14+50 | 1.1381 | 1.76 | Q | V | | | | | |
| 14+55 | 1.1500 | 1.73 | Q | V | | | | | |
| 15+ 0 | 1.1618 | 1.72 | Q | V | | | | | |
| 15+ 5 | 1.1734 | 1.68 | Q | V | | | | | |
| 15+10 | 1.1848 | 1.66 | Q | V | | | | | |
| 15+15 | 1.1962 | 1.65 | Q | V | | | | | |
| 15+20 | 1.2073 | 1.61 | Q | V | | | | | |
| 15+25 | 1.2183 | 1.59 | Q | V | | | | | |

| | | | | | | | | | |
|-------|--------|------|---|---|--|--|--|---|--|
| 15+30 | 1.2292 | 1.58 | | Q | | | | V | |
| 15+35 | 1.2391 | 1.44 | | Q | | | | V | |
| 15+40 | 1.2482 | 1.33 | | Q | | | | V | |
| 15+45 | 1.2573 | 1.31 | | Q | | | | V | |
| 15+50 | 1.2663 | 1.31 | | Q | | | | V | |
| 15+55 | 1.2753 | 1.31 | | Q | | | | V | |
| 16+ 0 | 1.2843 | 1.31 | | Q | | | | V | |
| 16+ 5 | 1.2895 | 0.76 | | Q | | | | V | |
| 16+10 | 1.2920 | 0.36 | Q | | | | | V | |
| 16+15 | 1.2940 | 0.29 | Q | | | | | V | |
| 16+20 | 1.2959 | 0.28 | Q | | | | | V | |
| 16+25 | 1.2978 | 0.28 | Q | | | | | V | |
| 16+30 | 1.2997 | 0.28 | Q | | | | | V | |
| 16+35 | 1.3013 | 0.24 | Q | | | | | V | |
| 16+40 | 1.3028 | 0.21 | Q | | | | | V | |
| 16+45 | 1.3042 | 0.21 | Q | | | | | V | |
| 16+50 | 1.3056 | 0.21 | Q | | | | | V | |
| 16+55 | 1.3070 | 0.21 | Q | | | | | V | |
| 17+ 0 | 1.3085 | 0.21 | Q | | | | | V | |
| 17+ 5 | 1.3104 | 0.28 | Q | | | | | V | |
| 17+10 | 1.3127 | 0.33 | Q | | | | | V | |
| 17+15 | 1.3150 | 0.34 | Q | | | | | V | |
| 17+20 | 1.3174 | 0.34 | Q | | | | | V | |
| 17+25 | 1.3198 | 0.34 | Q | | | | | V | |
| 17+30 | 1.3221 | 0.34 | Q | | | | | V | |
| 17+35 | 1.3245 | 0.34 | Q | | | | | V | |
| 17+40 | 1.3269 | 0.34 | Q | | | | | V | |
| 17+45 | 1.3292 | 0.34 | Q | | | | | V | |
| 17+50 | 1.3314 | 0.31 | Q | | | | | V | |
| 17+55 | 1.3333 | 0.28 | Q | | | | | V | |
| 18+ 0 | 1.3352 | 0.28 | Q | | | | | V | |
| 18+ 5 | 1.3371 | 0.28 | Q | | | | | V | |
| 18+10 | 1.3390 | 0.28 | Q | | | | | V | |
| 18+15 | 1.3409 | 0.28 | Q | | | | | V | |
| 18+20 | 1.3428 | 0.28 | Q | | | | | V | |
| 18+25 | 1.3447 | 0.28 | Q | | | | | V | |
| 18+30 | 1.3466 | 0.28 | Q | | | | | V | |
| 18+35 | 1.3482 | 0.24 | Q | | | | | V | |
| 18+40 | 1.3497 | 0.21 | Q | | | | | V | |
| 18+45 | 1.3511 | 0.21 | Q | | | | | V | |
| 18+50 | 1.3523 | 0.17 | Q | | | | | V | |
| 18+55 | 1.3533 | 0.14 | Q | | | | | V | |
| 19+ 0 | 1.3542 | 0.14 | Q | | | | | V | |
| 19+ 5 | 1.3554 | 0.17 | Q | | | | | V | |
| 19+10 | 1.3568 | 0.20 | Q | | | | | V | |
| 19+15 | 1.3582 | 0.21 | Q | | | | | V | |
| 19+20 | 1.3599 | 0.24 | Q | | | | | V | |
| 19+25 | 1.3617 | 0.27 | Q | | | | | V | |
| 19+30 | 1.3636 | 0.27 | Q | | | | | V | |
| 19+35 | 1.3653 | 0.24 | Q | | | | | V | |
| 19+40 | 1.3667 | 0.21 | Q | | | | | V | |
| 19+45 | 1.3682 | 0.21 | Q | | | | | V | |
| 19+50 | 1.3693 | 0.17 | Q | | | | | V | |
| 19+55 | 1.3703 | 0.14 | Q | | | | | V | |
| 20+ 0 | 1.3713 | 0.14 | Q | | | | | V | |
| 20+ 5 | 1.3725 | 0.17 | Q | | | | | V | |
| 20+10 | 1.3739 | 0.20 | Q | | | | | V | |
| 20+15 | 1.3753 | 0.21 | Q | | | | | V | |
| 20+20 | 1.3767 | 0.21 | Q | | | | | V | |
| 20+25 | 1.3781 | 0.21 | Q | | | | | V | |

| | | | | | | | | |
|-------|--------|------|---|--|--|--|---|--|
| 20+30 | 1.3795 | 0.21 | Q | | | | V | |
| 20+35 | 1.3810 | 0.21 | Q | | | | V | |
| 20+40 | 1.3824 | 0.21 | Q | | | | V | |
| 20+45 | 1.3838 | 0.21 | Q | | | | V | |
| 20+50 | 1.3850 | 0.17 | Q | | | | V | |
| 20+55 | 1.3860 | 0.14 | Q | | | | V | |
| 21+ 0 | 1.3869 | 0.14 | Q | | | | V | |
| 21+ 5 | 1.3881 | 0.17 | Q | | | | V | |
| 21+10 | 1.3895 | 0.20 | Q | | | | V | |
| 21+15 | 1.3909 | 0.21 | Q | | | | V | |
| 21+20 | 1.3921 | 0.17 | Q | | | | V | |
| 21+25 | 1.3931 | 0.14 | Q | | | | V | |
| 21+30 | 1.3940 | 0.14 | Q | | | | V | |
| 21+35 | 1.3952 | 0.17 | Q | | | | V | |
| 21+40 | 1.3966 | 0.20 | Q | | | | V | |
| 21+45 | 1.3980 | 0.21 | Q | | | | V | |
| 21+50 | 1.3992 | 0.17 | Q | | | | V | |
| 21+55 | 1.4002 | 0.14 | Q | | | | V | |
| 22+ 0 | 1.4011 | 0.14 | Q | | | | V | |
| 22+ 5 | 1.4023 | 0.17 | Q | | | | V | |
| 22+10 | 1.4037 | 0.20 | Q | | | | V | |
| 22+15 | 1.4051 | 0.21 | Q | | | | V | |
| 22+20 | 1.4063 | 0.17 | Q | | | | V | |
| 22+25 | 1.4073 | 0.14 | Q | | | | V | |
| 22+30 | 1.4082 | 0.14 | Q | | | | V | |
| 22+35 | 1.4092 | 0.14 | Q | | | | V | |
| 22+40 | 1.4101 | 0.14 | Q | | | | V | |
| 22+45 | 1.4111 | 0.14 | Q | | | | V | |
| 22+50 | 1.4120 | 0.14 | Q | | | | V | |
| 22+55 | 1.4130 | 0.14 | Q | | | | V | |
| 23+ 0 | 1.4139 | 0.14 | Q | | | | V | |
| 23+ 5 | 1.4149 | 0.14 | Q | | | | V | |
| 23+10 | 1.4158 | 0.14 | Q | | | | V | |
| 23+15 | 1.4168 | 0.14 | Q | | | | V | |
| 23+20 | 1.4177 | 0.14 | Q | | | | V | |
| 23+25 | 1.4187 | 0.14 | Q | | | | V | |
| 23+30 | 1.4196 | 0.14 | Q | | | | V | |
| 23+35 | 1.4205 | 0.14 | Q | | | | V | |
| 23+40 | 1.4215 | 0.14 | Q | | | | V | |
| 23+45 | 1.4224 | 0.14 | Q | | | | V | |
| 23+50 | 1.4234 | 0.14 | Q | | | | V | |
| 23+55 | 1.4243 | 0.14 | Q | | | | V | |
| 24+ 0 | 1.4253 | 0.14 | Q | | | | V | |
| 24+ 5 | 1.4257 | 0.07 | Q | | | | V | |
| 24+10 | 1.4258 | 0.01 | Q | | | | V | |
| 24+15 | 1.4258 | 0.00 | Q | | | | V | |

Unit Hydrograph Analysis

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Study date 03/24/22 File: 20750bpa24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6310

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

20-750 Building B
Proposed - Area A
100 year 24 hour

Drainage Area = 13.00 (Ac.) = 0.020 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 13.00 (Ac.) = 0.020
Sq. Mi.
Length along longest watercourse = 1009.00 (Ft.)
Length along longest watercourse measured to centroid = 370.00 (Ft.)
Length along longest watercourse = 0.191 Mi.
Length along longest watercourse measured to centroid = 0.070 Mi.
Difference in elevation = 12.70 (Ft.)
Slope along watercourse = 66.4579 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.031 Hr.
Lag time = 1.89 Min.
25% of lag time = 0.47 Min.
40% of lag time = 0.76 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00 (CFS)

2 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 13.00 | 1.60 | 20.80 |

100 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 13.00 | 4.00 | 52.00 |

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.600 (In)
 Area Averaged 100-Year Rainfall = 4.000 (In)

Point rain (area averaged) = 4.000 (In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 4.000 (In)

Sub-Area Data:

| | | |
|----------------------------------|--------------|--------------|
| Area (Ac.) | Runoff Index | Impervious % |
| 13.000 | 69.00 | 0.900 |
| Total Area Entered = 13.00 (Ac.) | | |

| | | | | | | |
|------|-------|-------------|------------|------------------|--------|-----------------|
| RI | RI | Infil. Rate | Impervious | Adj. Infil. Rate | Area% | F |
| AMC2 | AMC-3 | (In/Hr) | (Dec.%) | (In/Hr) | (Dec.) | (In/Hr) |
| 69.0 | 84.4 | 0.194 | 0.900 | 0.037 | 1.000 | 0.037 |
| | | | | | | Sum (F) = 0.037 |

Area averaged mean soil loss (F) (In/Hr) = 0.037
 Minimum soil loss rate ((In/Hr)) = 0.018
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.180

 U n i t H y d r o g r a p h
 VALLEY S-Curve

Unit Hydrograph Data

| Unit time period (hrs) | Time % of lag | Distribution Graph % | Unit Hydrograph (CFS) |
|---------------------------|---------------|-------------------------|--------------------------|
| 1 | 0.083 | 264.610 | 6.909 |
| 2 | 0.167 | 529.220 | 5.131 |
| 3 | 0.250 | 793.831 | 0.860 |
| 4 | 0.333 | 1058.441 | 0.201 |
| | | Sum = 100.000 | Sum= 13.102 |

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

| Unit Time (Hr.) | Pattern Percent | Storm Rain (In/Hr) | Loss rate (In./Hr) | | Effective (In/Hr) |
|--------------------|--------------------|-----------------------|--------------------|-------|----------------------|
| | | | Max | Low | |
| 1 | 0.08 | 0.032 | (0.065) | 0.006 | 0.026 |
| 2 | 0.17 | 0.032 | (0.065) | 0.006 | 0.026 |
| 3 | 0.25 | 0.032 | (0.065) | 0.006 | 0.026 |
| 4 | 0.33 | 0.048 | (0.065) | 0.009 | 0.039 |
| 5 | 0.42 | 0.048 | (0.064) | 0.009 | 0.039 |
| 6 | 0.50 | 0.048 | (0.064) | 0.009 | 0.039 |
| 7 | 0.58 | 0.048 | (0.064) | 0.009 | 0.039 |
| 8 | 0.67 | 0.048 | (0.064) | 0.009 | 0.039 |
| 9 | 0.75 | 0.048 | (0.063) | 0.009 | 0.039 |
| 10 | 0.83 | 0.064 | (0.063) | 0.012 | 0.052 |
| 11 | 0.92 | 0.064 | (0.063) | 0.012 | 0.052 |
| 12 | 1.00 | 0.064 | (0.063) | 0.012 | 0.052 |
| 13 | 1.08 | 0.048 | (0.062) | 0.009 | 0.039 |
| 14 | 1.17 | 0.048 | (0.062) | 0.009 | 0.039 |
| 15 | 1.25 | 0.048 | (0.062) | 0.009 | 0.039 |

| | | | | | | |
|----|------|------|-------|----------|-------|-------|
| 16 | 1.33 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 17 | 1.42 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 18 | 1.50 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 19 | 1.58 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 20 | 1.67 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 21 | 1.75 | 0.10 | 0.048 | (0.060) | 0.009 | 0.039 |
| 22 | 1.83 | 0.13 | 0.064 | (0.060) | 0.012 | 0.052 |
| 23 | 1.92 | 0.13 | 0.064 | (0.060) | 0.012 | 0.052 |
| 24 | 2.00 | 0.13 | 0.064 | (0.060) | 0.012 | 0.052 |
| 25 | 2.08 | 0.13 | 0.064 | (0.059) | 0.012 | 0.052 |
| 26 | 2.17 | 0.13 | 0.064 | (0.059) | 0.012 | 0.052 |
| 27 | 2.25 | 0.13 | 0.064 | (0.059) | 0.012 | 0.052 |
| 28 | 2.33 | 0.13 | 0.064 | (0.059) | 0.012 | 0.052 |
| 29 | 2.42 | 0.13 | 0.064 | (0.058) | 0.012 | 0.052 |
| 30 | 2.50 | 0.13 | 0.064 | (0.058) | 0.012 | 0.052 |
| 31 | 2.58 | 0.17 | 0.080 | (0.058) | 0.014 | 0.066 |
| 32 | 2.67 | 0.17 | 0.080 | (0.058) | 0.014 | 0.066 |
| 33 | 2.75 | 0.17 | 0.080 | (0.057) | 0.014 | 0.066 |
| 34 | 2.83 | 0.17 | 0.080 | (0.057) | 0.014 | 0.066 |
| 35 | 2.92 | 0.17 | 0.080 | (0.057) | 0.014 | 0.066 |
| 36 | 3.00 | 0.17 | 0.080 | (0.057) | 0.014 | 0.066 |
| 37 | 3.08 | 0.17 | 0.080 | (0.057) | 0.014 | 0.066 |
| 38 | 3.17 | 0.17 | 0.080 | (0.056) | 0.014 | 0.066 |
| 39 | 3.25 | 0.17 | 0.080 | (0.056) | 0.014 | 0.066 |
| 40 | 3.33 | 0.17 | 0.080 | (0.056) | 0.014 | 0.066 |
| 41 | 3.42 | 0.17 | 0.080 | (0.056) | 0.014 | 0.066 |
| 42 | 3.50 | 0.17 | 0.080 | (0.055) | 0.014 | 0.066 |
| 43 | 3.58 | 0.17 | 0.080 | (0.055) | 0.014 | 0.066 |
| 44 | 3.67 | 0.17 | 0.080 | (0.055) | 0.014 | 0.066 |
| 45 | 3.75 | 0.17 | 0.080 | (0.055) | 0.014 | 0.066 |
| 46 | 3.83 | 0.20 | 0.096 | (0.054) | 0.017 | 0.079 |
| 47 | 3.92 | 0.20 | 0.096 | (0.054) | 0.017 | 0.079 |
| 48 | 4.00 | 0.20 | 0.096 | (0.054) | 0.017 | 0.079 |
| 49 | 4.08 | 0.20 | 0.096 | (0.054) | 0.017 | 0.079 |
| 50 | 4.17 | 0.20 | 0.096 | (0.054) | 0.017 | 0.079 |
| 51 | 4.25 | 0.20 | 0.096 | (0.053) | 0.017 | 0.079 |
| 52 | 4.33 | 0.23 | 0.112 | (0.053) | 0.020 | 0.092 |
| 53 | 4.42 | 0.23 | 0.112 | (0.053) | 0.020 | 0.092 |
| 54 | 4.50 | 0.23 | 0.112 | (0.053) | 0.020 | 0.092 |
| 55 | 4.58 | 0.23 | 0.112 | (0.052) | 0.020 | 0.092 |
| 56 | 4.67 | 0.23 | 0.112 | (0.052) | 0.020 | 0.092 |
| 57 | 4.75 | 0.23 | 0.112 | (0.052) | 0.020 | 0.092 |
| 58 | 4.83 | 0.27 | 0.128 | (0.052) | 0.023 | 0.105 |
| 59 | 4.92 | 0.27 | 0.128 | (0.051) | 0.023 | 0.105 |
| 60 | 5.00 | 0.27 | 0.128 | (0.051) | 0.023 | 0.105 |
| 61 | 5.08 | 0.20 | 0.096 | (0.051) | 0.017 | 0.079 |
| 62 | 5.17 | 0.20 | 0.096 | (0.051) | 0.017 | 0.079 |
| 63 | 5.25 | 0.20 | 0.096 | (0.051) | 0.017 | 0.079 |
| 64 | 5.33 | 0.23 | 0.112 | (0.050) | 0.020 | 0.092 |
| 65 | 5.42 | 0.23 | 0.112 | (0.050) | 0.020 | 0.092 |
| 66 | 5.50 | 0.23 | 0.112 | (0.050) | 0.020 | 0.092 |
| 67 | 5.58 | 0.27 | 0.128 | (0.050) | 0.023 | 0.105 |
| 68 | 5.67 | 0.27 | 0.128 | (0.049) | 0.023 | 0.105 |
| 69 | 5.75 | 0.27 | 0.128 | (0.049) | 0.023 | 0.105 |
| 70 | 5.83 | 0.27 | 0.128 | (0.049) | 0.023 | 0.105 |
| 71 | 5.92 | 0.27 | 0.128 | (0.049) | 0.023 | 0.105 |
| 72 | 6.00 | 0.27 | 0.128 | (0.049) | 0.023 | 0.105 |
| 73 | 6.08 | 0.30 | 0.144 | (0.048) | 0.026 | 0.118 |
| 74 | 6.17 | 0.30 | 0.144 | (0.048) | 0.026 | 0.118 |
| 75 | 6.25 | 0.30 | 0.144 | (0.048) | 0.026 | 0.118 |

| | | | | | | |
|-----|-------|------|-------|----------|----------|-------|
| 76 | 6.33 | 0.30 | 0.144 | (0.048) | 0.026 | 0.118 |
| 77 | 6.42 | 0.30 | 0.144 | (0.048) | 0.026 | 0.118 |
| 78 | 6.50 | 0.30 | 0.144 | (0.047) | 0.026 | 0.118 |
| 79 | 6.58 | 0.33 | 0.160 | (0.047) | 0.029 | 0.131 |
| 80 | 6.67 | 0.33 | 0.160 | (0.047) | 0.029 | 0.131 |
| 81 | 6.75 | 0.33 | 0.160 | (0.047) | 0.029 | 0.131 |
| 82 | 6.83 | 0.33 | 0.160 | (0.046) | 0.029 | 0.131 |
| 83 | 6.92 | 0.33 | 0.160 | (0.046) | 0.029 | 0.131 |
| 84 | 7.00 | 0.33 | 0.160 | (0.046) | 0.029 | 0.131 |
| 85 | 7.08 | 0.33 | 0.160 | (0.046) | 0.029 | 0.131 |
| 86 | 7.17 | 0.33 | 0.160 | (0.046) | 0.029 | 0.131 |
| 87 | 7.25 | 0.33 | 0.160 | (0.045) | 0.029 | 0.131 |
| 88 | 7.33 | 0.37 | 0.176 | (0.045) | 0.032 | 0.144 |
| 89 | 7.42 | 0.37 | 0.176 | (0.045) | 0.032 | 0.144 |
| 90 | 7.50 | 0.37 | 0.176 | (0.045) | 0.032 | 0.144 |
| 91 | 7.58 | 0.40 | 0.192 | (0.045) | 0.035 | 0.157 |
| 92 | 7.67 | 0.40 | 0.192 | (0.044) | 0.035 | 0.157 |
| 93 | 7.75 | 0.40 | 0.192 | (0.044) | 0.035 | 0.157 |
| 94 | 7.83 | 0.43 | 0.208 | (0.044) | 0.037 | 0.171 |
| 95 | 7.92 | 0.43 | 0.208 | (0.044) | 0.037 | 0.171 |
| 96 | 8.00 | 0.43 | 0.208 | (0.044) | 0.037 | 0.171 |
| 97 | 8.08 | 0.50 | 0.240 | (0.043) | 0.043 | 0.197 |
| 98 | 8.17 | 0.50 | 0.240 | 0.043 | (0.043) | 0.197 |
| 99 | 8.25 | 0.50 | 0.240 | 0.043 | (0.043) | 0.197 |
| 100 | 8.33 | 0.50 | 0.240 | 0.043 | (0.043) | 0.197 |
| 101 | 8.42 | 0.50 | 0.240 | 0.043 | (0.043) | 0.197 |
| 102 | 8.50 | 0.50 | 0.240 | 0.042 | (0.043) | 0.198 |
| 103 | 8.58 | 0.53 | 0.256 | 0.042 | (0.046) | 0.214 |
| 104 | 8.67 | 0.53 | 0.256 | 0.042 | (0.046) | 0.214 |
| 105 | 8.75 | 0.53 | 0.256 | 0.042 | (0.046) | 0.214 |
| 106 | 8.83 | 0.57 | 0.272 | 0.042 | (0.049) | 0.230 |
| 107 | 8.92 | 0.57 | 0.272 | 0.041 | (0.049) | 0.231 |
| 108 | 9.00 | 0.57 | 0.272 | 0.041 | (0.049) | 0.231 |
| 109 | 9.08 | 0.63 | 0.304 | 0.041 | (0.055) | 0.263 |
| 110 | 9.17 | 0.63 | 0.304 | 0.041 | (0.055) | 0.263 |
| 111 | 9.25 | 0.63 | 0.304 | 0.041 | (0.055) | 0.263 |
| 112 | 9.33 | 0.67 | 0.320 | 0.040 | (0.058) | 0.280 |
| 113 | 9.42 | 0.67 | 0.320 | 0.040 | (0.058) | 0.280 |
| 114 | 9.50 | 0.67 | 0.320 | 0.040 | (0.058) | 0.280 |
| 115 | 9.58 | 0.70 | 0.336 | 0.040 | (0.060) | 0.296 |
| 116 | 9.67 | 0.70 | 0.336 | 0.040 | (0.060) | 0.296 |
| 117 | 9.75 | 0.70 | 0.336 | 0.039 | (0.060) | 0.297 |
| 118 | 9.83 | 0.73 | 0.352 | 0.039 | (0.063) | 0.313 |
| 119 | 9.92 | 0.73 | 0.352 | 0.039 | (0.063) | 0.313 |
| 120 | 10.00 | 0.73 | 0.352 | 0.039 | (0.063) | 0.313 |
| 121 | 10.08 | 0.50 | 0.240 | 0.039 | (0.043) | 0.201 |
| 122 | 10.17 | 0.50 | 0.240 | 0.039 | (0.043) | 0.201 |
| 123 | 10.25 | 0.50 | 0.240 | 0.038 | (0.043) | 0.202 |
| 124 | 10.33 | 0.50 | 0.240 | 0.038 | (0.043) | 0.202 |
| 125 | 10.42 | 0.50 | 0.240 | 0.038 | (0.043) | 0.202 |
| 126 | 10.50 | 0.50 | 0.240 | 0.038 | (0.043) | 0.202 |
| 127 | 10.58 | 0.67 | 0.320 | 0.038 | (0.058) | 0.282 |
| 128 | 10.67 | 0.67 | 0.320 | 0.037 | (0.058) | 0.283 |
| 129 | 10.75 | 0.67 | 0.320 | 0.037 | (0.058) | 0.283 |
| 130 | 10.83 | 0.67 | 0.320 | 0.037 | (0.058) | 0.283 |
| 131 | 10.92 | 0.67 | 0.320 | 0.037 | (0.058) | 0.283 |
| 132 | 11.00 | 0.67 | 0.320 | 0.037 | (0.058) | 0.283 |
| 133 | 11.08 | 0.63 | 0.304 | 0.036 | (0.055) | 0.267 |
| 134 | 11.17 | 0.63 | 0.304 | 0.036 | (0.055) | 0.268 |
| 135 | 11.25 | 0.63 | 0.304 | 0.036 | (0.055) | 0.268 |

| | | | | | | |
|-----|-------|------|-------|----------|----------|-------|
| 136 | 11.33 | 0.63 | 0.304 | 0.036 | (0.055) | 0.268 |
| 137 | 11.42 | 0.63 | 0.304 | 0.036 | (0.055) | 0.268 |
| 138 | 11.50 | 0.63 | 0.304 | 0.036 | (0.055) | 0.268 |
| 139 | 11.58 | 0.57 | 0.272 | 0.035 | (0.049) | 0.237 |
| 140 | 11.67 | 0.57 | 0.272 | 0.035 | (0.049) | 0.237 |
| 141 | 11.75 | 0.57 | 0.272 | 0.035 | (0.049) | 0.237 |
| 142 | 11.83 | 0.60 | 0.288 | 0.035 | (0.052) | 0.253 |
| 143 | 11.92 | 0.60 | 0.288 | 0.035 | (0.052) | 0.253 |
| 144 | 12.00 | 0.60 | 0.288 | 0.035 | (0.052) | 0.253 |
| 145 | 12.08 | 0.83 | 0.400 | 0.034 | (0.072) | 0.366 |
| 146 | 12.17 | 0.83 | 0.400 | 0.034 | (0.072) | 0.366 |
| 147 | 12.25 | 0.83 | 0.400 | 0.034 | (0.072) | 0.366 |
| 148 | 12.33 | 0.87 | 0.416 | 0.034 | (0.075) | 0.382 |
| 149 | 12.42 | 0.87 | 0.416 | 0.034 | (0.075) | 0.382 |
| 150 | 12.50 | 0.87 | 0.416 | 0.034 | (0.075) | 0.382 |
| 151 | 12.58 | 0.93 | 0.448 | 0.033 | (0.081) | 0.415 |
| 152 | 12.67 | 0.93 | 0.448 | 0.033 | (0.081) | 0.415 |
| 153 | 12.75 | 0.93 | 0.448 | 0.033 | (0.081) | 0.415 |
| 154 | 12.83 | 0.97 | 0.464 | 0.033 | (0.084) | 0.431 |
| 155 | 12.92 | 0.97 | 0.464 | 0.033 | (0.084) | 0.431 |
| 156 | 13.00 | 0.97 | 0.464 | 0.033 | (0.084) | 0.431 |
| 157 | 13.08 | 1.13 | 0.544 | 0.032 | (0.098) | 0.512 |
| 158 | 13.17 | 1.13 | 0.544 | 0.032 | (0.098) | 0.512 |
| 159 | 13.25 | 1.13 | 0.544 | 0.032 | (0.098) | 0.512 |
| 160 | 13.33 | 1.13 | 0.544 | 0.032 | (0.098) | 0.512 |
| 161 | 13.42 | 1.13 | 0.544 | 0.032 | (0.098) | 0.512 |
| 162 | 13.50 | 1.13 | 0.544 | 0.032 | (0.098) | 0.512 |
| 163 | 13.58 | 0.77 | 0.368 | 0.031 | (0.066) | 0.337 |
| 164 | 13.67 | 0.77 | 0.368 | 0.031 | (0.066) | 0.337 |
| 165 | 13.75 | 0.77 | 0.368 | 0.031 | (0.066) | 0.337 |
| 166 | 13.83 | 0.77 | 0.368 | 0.031 | (0.066) | 0.337 |
| 167 | 13.92 | 0.77 | 0.368 | 0.031 | (0.066) | 0.337 |
| 168 | 14.00 | 0.77 | 0.368 | 0.031 | (0.066) | 0.337 |
| 169 | 14.08 | 0.90 | 0.432 | 0.030 | (0.078) | 0.402 |
| 170 | 14.17 | 0.90 | 0.432 | 0.030 | (0.078) | 0.402 |
| 171 | 14.25 | 0.90 | 0.432 | 0.030 | (0.078) | 0.402 |
| 172 | 14.33 | 0.87 | 0.416 | 0.030 | (0.075) | 0.386 |
| 173 | 14.42 | 0.87 | 0.416 | 0.030 | (0.075) | 0.386 |
| 174 | 14.50 | 0.87 | 0.416 | 0.030 | (0.075) | 0.386 |
| 175 | 14.58 | 0.87 | 0.416 | 0.030 | (0.075) | 0.386 |
| 176 | 14.67 | 0.87 | 0.416 | 0.029 | (0.075) | 0.387 |
| 177 | 14.75 | 0.87 | 0.416 | 0.029 | (0.075) | 0.387 |
| 178 | 14.83 | 0.83 | 0.400 | 0.029 | (0.072) | 0.371 |
| 179 | 14.92 | 0.83 | 0.400 | 0.029 | (0.072) | 0.371 |
| 180 | 15.00 | 0.83 | 0.400 | 0.029 | (0.072) | 0.371 |
| 181 | 15.08 | 0.80 | 0.384 | 0.029 | (0.069) | 0.355 |
| 182 | 15.17 | 0.80 | 0.384 | 0.028 | (0.069) | 0.356 |
| 183 | 15.25 | 0.80 | 0.384 | 0.028 | (0.069) | 0.356 |
| 184 | 15.33 | 0.77 | 0.368 | 0.028 | (0.066) | 0.340 |
| 185 | 15.42 | 0.77 | 0.368 | 0.028 | (0.066) | 0.340 |
| 186 | 15.50 | 0.77 | 0.368 | 0.028 | (0.066) | 0.340 |
| 187 | 15.58 | 0.63 | 0.304 | 0.028 | (0.055) | 0.276 |
| 188 | 15.67 | 0.63 | 0.304 | 0.028 | (0.055) | 0.276 |
| 189 | 15.75 | 0.63 | 0.304 | 0.027 | (0.055) | 0.277 |
| 190 | 15.83 | 0.63 | 0.304 | 0.027 | (0.055) | 0.277 |
| 191 | 15.92 | 0.63 | 0.304 | 0.027 | (0.055) | 0.277 |
| 192 | 16.00 | 0.63 | 0.304 | 0.027 | (0.055) | 0.277 |
| 193 | 16.08 | 0.13 | 0.064 | (0.027) | 0.012 | 0.052 |
| 194 | 16.17 | 0.13 | 0.064 | (0.027) | 0.012 | 0.052 |
| 195 | 16.25 | 0.13 | 0.064 | (0.027) | 0.012 | 0.052 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 196 | 16.33 | 0.13 | 0.064 | (0.026) | 0.012 | 0.052 |
| 197 | 16.42 | 0.13 | 0.064 | (0.026) | 0.012 | 0.052 |
| 198 | 16.50 | 0.13 | 0.064 | (0.026) | 0.012 | 0.052 |
| 199 | 16.58 | 0.10 | 0.048 | (0.026) | 0.009 | 0.039 |
| 200 | 16.67 | 0.10 | 0.048 | (0.026) | 0.009 | 0.039 |
| 201 | 16.75 | 0.10 | 0.048 | (0.026) | 0.009 | 0.039 |
| 202 | 16.83 | 0.10 | 0.048 | (0.026) | 0.009 | 0.039 |
| 203 | 16.92 | 0.10 | 0.048 | (0.026) | 0.009 | 0.039 |
| 204 | 17.00 | 0.10 | 0.048 | (0.025) | 0.009 | 0.039 |
| 205 | 17.08 | 0.17 | 0.080 | (0.025) | 0.014 | 0.066 |
| 206 | 17.17 | 0.17 | 0.080 | (0.025) | 0.014 | 0.066 |
| 207 | 17.25 | 0.17 | 0.080 | (0.025) | 0.014 | 0.066 |
| 208 | 17.33 | 0.17 | 0.080 | (0.025) | 0.014 | 0.066 |
| 209 | 17.42 | 0.17 | 0.080 | (0.025) | 0.014 | 0.066 |
| 210 | 17.50 | 0.17 | 0.080 | (0.025) | 0.014 | 0.066 |
| 211 | 17.58 | 0.17 | 0.080 | (0.025) | 0.014 | 0.066 |
| 212 | 17.67 | 0.17 | 0.080 | (0.024) | 0.014 | 0.066 |
| 213 | 17.75 | 0.17 | 0.080 | (0.024) | 0.014 | 0.066 |
| 214 | 17.83 | 0.13 | 0.064 | (0.024) | 0.012 | 0.052 |
| 215 | 17.92 | 0.13 | 0.064 | (0.024) | 0.012 | 0.052 |
| 216 | 18.00 | 0.13 | 0.064 | (0.024) | 0.012 | 0.052 |
| 217 | 18.08 | 0.13 | 0.064 | (0.024) | 0.012 | 0.052 |
| 218 | 18.17 | 0.13 | 0.064 | (0.024) | 0.012 | 0.052 |
| 219 | 18.25 | 0.13 | 0.064 | (0.024) | 0.012 | 0.052 |
| 220 | 18.33 | 0.13 | 0.064 | (0.023) | 0.012 | 0.052 |
| 221 | 18.42 | 0.13 | 0.064 | (0.023) | 0.012 | 0.052 |
| 222 | 18.50 | 0.13 | 0.064 | (0.023) | 0.012 | 0.052 |
| 223 | 18.58 | 0.10 | 0.048 | (0.023) | 0.009 | 0.039 |
| 224 | 18.67 | 0.10 | 0.048 | (0.023) | 0.009 | 0.039 |
| 225 | 18.75 | 0.10 | 0.048 | (0.023) | 0.009 | 0.039 |
| 226 | 18.83 | 0.07 | 0.032 | (0.023) | 0.006 | 0.026 |
| 227 | 18.92 | 0.07 | 0.032 | (0.023) | 0.006 | 0.026 |
| 228 | 19.00 | 0.07 | 0.032 | (0.023) | 0.006 | 0.026 |
| 229 | 19.08 | 0.10 | 0.048 | (0.022) | 0.009 | 0.039 |
| 230 | 19.17 | 0.10 | 0.048 | (0.022) | 0.009 | 0.039 |
| 231 | 19.25 | 0.10 | 0.048 | (0.022) | 0.009 | 0.039 |
| 232 | 19.33 | 0.13 | 0.064 | (0.022) | 0.012 | 0.052 |
| 233 | 19.42 | 0.13 | 0.064 | (0.022) | 0.012 | 0.052 |
| 234 | 19.50 | 0.13 | 0.064 | (0.022) | 0.012 | 0.052 |
| 235 | 19.58 | 0.10 | 0.048 | (0.022) | 0.009 | 0.039 |
| 236 | 19.67 | 0.10 | 0.048 | (0.022) | 0.009 | 0.039 |
| 237 | 19.75 | 0.10 | 0.048 | (0.022) | 0.009 | 0.039 |
| 238 | 19.83 | 0.07 | 0.032 | (0.022) | 0.006 | 0.026 |
| 239 | 19.92 | 0.07 | 0.032 | (0.021) | 0.006 | 0.026 |
| 240 | 20.00 | 0.07 | 0.032 | (0.021) | 0.006 | 0.026 |
| 241 | 20.08 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 242 | 20.17 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 243 | 20.25 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 244 | 20.33 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 245 | 20.42 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 246 | 20.50 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 247 | 20.58 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 248 | 20.67 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 249 | 20.75 | 0.10 | 0.048 | (0.021) | 0.009 | 0.039 |
| 250 | 20.83 | 0.07 | 0.032 | (0.020) | 0.006 | 0.026 |
| 251 | 20.92 | 0.07 | 0.032 | (0.020) | 0.006 | 0.026 |
| 252 | 21.00 | 0.07 | 0.032 | (0.020) | 0.006 | 0.026 |
| 253 | 21.08 | 0.10 | 0.048 | (0.020) | 0.009 | 0.039 |
| 254 | 21.17 | 0.10 | 0.048 | (0.020) | 0.009 | 0.039 |
| 255 | 21.25 | 0.10 | 0.048 | (0.020) | 0.009 | 0.039 |

| | | | | | | | |
|------|--------|------|-----|--|--|--|--|
| 0+35 | 0.0193 | 0.52 | V Q | | | | |
| 0+40 | 0.0229 | 0.52 | V Q | | | | |
| 0+45 | 0.0264 | 0.52 | V Q | | | | |
| 0+50 | 0.0306 | 0.61 | V Q | | | | |
| 0+55 | 0.0352 | 0.67 | V Q | | | | |
| 1+ 0 | 0.0399 | 0.69 | V Q | | | | |
| 1+ 5 | 0.0441 | 0.60 | V Q | | | | |
| 1+10 | 0.0477 | 0.53 | V Q | | | | |
| 1+15 | 0.0513 | 0.52 | V Q | | | | |
| 1+20 | 0.0548 | 0.52 | V Q | | | | |
| 1+25 | 0.0584 | 0.52 | V Q | | | | |
| 1+30 | 0.0619 | 0.52 | V Q | | | | |
| 1+35 | 0.0655 | 0.52 | V Q | | | | |
| 1+40 | 0.0690 | 0.52 | V Q | | | | |
| 1+45 | 0.0726 | 0.52 | V Q | | | | |
| 1+50 | 0.0768 | 0.61 | V Q | | | | |
| 1+55 | 0.0814 | 0.67 | V Q | | | | |
| 2+ 0 | 0.0861 | 0.69 | V Q | | | | |
| 2+ 5 | 0.0909 | 0.69 | V Q | | | | |
| 2+10 | 0.0956 | 0.69 | VQ | | | | |
| 2+15 | 0.1003 | 0.69 | VQ | | | | |
| 2+20 | 0.1051 | 0.69 | VQ | | | | |
| 2+25 | 0.1098 | 0.69 | VQ | | | | |
| 2+30 | 0.1146 | 0.69 | VQ | | | | |
| 2+35 | 0.1199 | 0.78 | V Q | | | | |
| 2+40 | 0.1257 | 0.85 | V Q | | | | |
| 2+45 | 0.1317 | 0.86 | V Q | | | | |
| 2+50 | 0.1376 | 0.86 | V Q | | | | |
| 2+55 | 0.1435 | 0.86 | V Q | | | | |
| 3+ 0 | 0.1494 | 0.86 | V Q | | | | |
| 3+ 5 | 0.1553 | 0.86 | V Q | | | | |
| 3+10 | 0.1613 | 0.86 | V Q | | | | |
| 3+15 | 0.1672 | 0.86 | V Q | | | | |
| 3+20 | 0.1731 | 0.86 | V Q | | | | |
| 3+25 | 0.1790 | 0.86 | V Q | | | | |
| 3+30 | 0.1850 | 0.86 | V Q | | | | |
| 3+35 | 0.1909 | 0.86 | VQ | | | | |
| 3+40 | 0.1968 | 0.86 | VQ | | | | |
| 3+45 | 0.2027 | 0.86 | VQ | | | | |
| 3+50 | 0.2093 | 0.95 | VQ | | | | |
| 3+55 | 0.2163 | 1.02 | V Q | | | | |
| 4+ 0 | 0.2234 | 1.03 | V Q | | | | |
| 4+ 5 | 0.2305 | 1.03 | V Q | | | | |
| 4+10 | 0.2376 | 1.03 | V Q | | | | |
| 4+15 | 0.2447 | 1.03 | V Q | | | | |
| 4+20 | 0.2524 | 1.12 | V Q | | | | |
| 4+25 | 0.2606 | 1.19 | V Q | | | | |
| 4+30 | 0.2689 | 1.20 | V Q | | | | |
| 4+35 | 0.2772 | 1.20 | V Q | | | | |
| 4+40 | 0.2855 | 1.20 | VQ | | | | |
| 4+45 | 0.2938 | 1.20 | VQ | | | | |
| 4+50 | 0.3027 | 1.29 | V Q | | | | |
| 4+55 | 0.3120 | 1.36 | V Q | | | | |
| 5+ 0 | 0.3215 | 1.37 | V Q | | | | |
| 5+ 5 | 0.3297 | 1.19 | VQ | | | | |
| 5+10 | 0.3370 | 1.06 | VQ | | | | |
| 5+15 | 0.3442 | 1.04 | VQ | | | | |
| 5+20 | 0.3519 | 1.12 | VQ | | | | |
| 5+25 | 0.3601 | 1.19 | VQ | | | | |
| 5+30 | 0.3684 | 1.20 | VQ | | | | |

| | | | | | | | |
|-------|--------|------|------|--|--|--|--|
| 5+35 | 0.3773 | 1.29 | V Q | | | | |
| 5+40 | 0.3867 | 1.36 | VQ | | | | |
| 5+45 | 0.3961 | 1.37 | VQ | | | | |
| 5+50 | 0.4056 | 1.38 | VQ | | | | |
| 5+55 | 0.4151 | 1.38 | VQ | | | | |
| 6+ 0 | 0.4246 | 1.38 | VQ | | | | |
| 6+ 5 | 0.4347 | 1.47 | VQ | | | | |
| 6+10 | 0.4452 | 1.53 | V Q | | | | |
| 6+15 | 0.4559 | 1.55 | V Q | | | | |
| 6+20 | 0.4665 | 1.55 | V Q | | | | |
| 6+25 | 0.4772 | 1.55 | VQ | | | | |
| 6+30 | 0.4878 | 1.55 | VQ | | | | |
| 6+35 | 0.4991 | 1.64 | VQ | | | | |
| 6+40 | 0.5109 | 1.71 | VQ | | | | |
| 6+45 | 0.5227 | 1.72 | VQ | | | | |
| 6+50 | 0.5345 | 1.72 | VQ | | | | |
| 6+55 | 0.5464 | 1.72 | VQ | | | | |
| 7+ 0 | 0.5582 | 1.72 | VQ | | | | |
| 7+ 5 | 0.5701 | 1.72 | Q | | | | |
| 7+10 | 0.5819 | 1.72 | Q | | | | |
| 7+15 | 0.5938 | 1.72 | Q | | | | |
| 7+20 | 0.6062 | 1.81 | VQ | | | | |
| 7+25 | 0.6192 | 1.88 | VQ | | | | |
| 7+30 | 0.6322 | 1.89 | VQ | | | | |
| 7+35 | 0.6458 | 1.98 | VQ | | | | |
| 7+40 | 0.6599 | 2.05 | V Q | | | | |
| 7+45 | 0.6741 | 2.06 | VQ | | | | |
| 7+50 | 0.6890 | 2.15 | VQ | | | | |
| 7+55 | 0.7043 | 2.22 | VQ | | | | |
| 8+ 0 | 0.7197 | 2.23 | VQ | | | | |
| 8+ 5 | 0.7363 | 2.42 | V Q | | | | |
| 8+10 | 0.7539 | 2.55 | V Q | | | | |
| 8+15 | 0.7716 | 2.58 | V Q | | | | |
| 8+20 | 0.7894 | 2.58 | V Q | | | | |
| 8+25 | 0.8072 | 2.59 | V Q | | | | |
| 8+30 | 0.8251 | 2.59 | V Q | | | | |
| 8+35 | 0.8437 | 2.70 | V Q | | | | |
| 8+40 | 0.8629 | 2.79 | V Q | | | | |
| 8+45 | 0.8822 | 2.80 | V Q | | | | |
| 8+50 | 0.9023 | 2.92 | V Q | | | | |
| 8+55 | 0.9230 | 3.00 | V Q | | | | |
| 9+ 0 | 0.9438 | 3.02 | V Q | | | | |
| 9+ 5 | 0.9661 | 3.25 | V Q | | | | |
| 9+10 | 0.9896 | 3.41 | V Q | | | | |
| 9+15 | 1.0134 | 3.44 | V Q | | | | |
| 9+20 | 1.0379 | 3.56 | V Q | | | | |
| 9+25 | 1.0630 | 3.65 | V Q | | | | |
| 9+30 | 1.0883 | 3.67 | V Q | | | | |
| 9+35 | 1.1143 | 3.78 | V Q | | | | |
| 9+40 | 1.1410 | 3.87 | V Q | | | | |
| 9+45 | 1.1677 | 3.88 | V Q | | | | |
| 9+50 | 1.1952 | 4.00 | V Q | | | | |
| 9+55 | 1.2234 | 4.08 | V Q | | | | |
| 10+ 0 | 1.2516 | 4.10 | V Q | | | | |
| 10+ 5 | 1.2745 | 3.33 | Q | | | | |
| 10+10 | 1.2935 | 2.76 | Q V | | | | |
| 10+15 | 1.3119 | 2.66 | Q V | | | | |
| 10+20 | 1.3301 | 2.64 | Q V | | | | |
| 10+25 | 1.3483 | 2.65 | Q V | | | | |
| 10+30 | 1.3666 | 2.65 | Q V | | | | |

| | | | | | | | | |
|-------|--------|------|---|----|----|---|--|--|
| 10+35 | 1.3886 | 3.20 | Q | V | | | | |
| 10+40 | 1.4136 | 3.62 | | Q | | | | |
| 10+45 | 1.4390 | 3.69 | | QV | | | | |
| 10+50 | 1.4645 | 3.71 | | QV | | | | |
| 10+55 | 1.4901 | 3.71 | | QV | | | | |
| 11+ 0 | 1.5156 | 3.71 | | QV | | | | |
| 11+ 5 | 1.5404 | 3.60 | | Q | V | | | |
| 11+10 | 1.5647 | 3.52 | | Q | V | | | |
| 11+15 | 1.5889 | 3.51 | | Q | V | | | |
| 11+20 | 1.6131 | 3.51 | | Q | V | | | |
| 11+25 | 1.6373 | 3.51 | | Q | V | | | |
| 11+30 | 1.6615 | 3.52 | | Q | V | | | |
| 11+35 | 1.6842 | 3.30 | | Q | V | | | |
| 11+40 | 1.7058 | 3.14 | Q | V | | | | |
| 11+45 | 1.7273 | 3.11 | Q | V | | | | |
| 11+50 | 1.7494 | 3.22 | Q | V | | | | |
| 11+55 | 1.7722 | 3.30 | Q | V | | | | |
| 12+ 0 | 1.7950 | 3.32 | Q | V | | | | |
| 12+ 5 | 1.8232 | 4.10 | | Q | V | | | |
| 12+10 | 1.8554 | 4.67 | | | QV | | | |
| 12+15 | 1.8883 | 4.77 | | | Q | | | |
| 12+20 | 1.9221 | 4.91 | | | QV | | | |
| 12+25 | 1.9565 | 4.99 | | | QV | | | |
| 12+30 | 1.9910 | 5.01 | | | Q | | | |
| 12+35 | 2.0270 | 5.24 | | | QV | | | |
| 12+40 | 2.0642 | 5.40 | | | Q | | | |
| 12+45 | 2.1016 | 5.43 | | | QV | | | |
| 12+50 | 2.1399 | 5.55 | | | Q | | | |
| 12+55 | 2.1787 | 5.64 | | | Q | | | |
| 13+ 0 | 2.2176 | 5.65 | | | QV | | | |
| 13+ 5 | 2.2604 | 6.21 | | | VQ | | | |
| 13+10 | 2.3060 | 6.62 | | | V | Q | | |
| 13+15 | 2.3521 | 6.69 | | | V | Q | | |
| 13+20 | 2.3983 | 6.71 | | | VQ | | | |
| 13+25 | 2.4445 | 6.71 | | | VQ | | | |
| 13+30 | 2.4908 | 6.72 | | | Q | | | |
| 13+35 | 2.5287 | 5.50 | | Q | V | | | |
| 13+40 | 2.5604 | 4.60 | Q | | V | | | |
| 13+45 | 2.5910 | 4.45 | Q | | V | | | |
| 13+50 | 2.6214 | 4.42 | Q | | V | | | |
| 13+55 | 2.6519 | 4.42 | Q | | V | | | |
| 14+ 0 | 2.6823 | 4.42 | Q | | V | | | |
| 14+ 5 | 2.7159 | 4.87 | | Q | V | | | |
| 14+10 | 2.7516 | 5.20 | | Q | V | | | |
| 14+15 | 2.7878 | 5.25 | | Q | V | | | |
| 14+20 | 2.8233 | 5.16 | | Q | V | | | |
| 14+25 | 2.8583 | 5.08 | | Q | V | | | |
| 14+30 | 2.8932 | 5.07 | | Q | V | | | |
| 14+35 | 2.9281 | 5.06 | | Q | V | | | |
| 14+40 | 2.9630 | 5.07 | | Q | V | | | |
| 14+45 | 2.9979 | 5.07 | | Q | V | | | |
| 14+50 | 3.0321 | 4.96 | | Q | V | | | |
| 14+55 | 3.0657 | 4.88 | | Q | V | | | |
| 15+ 0 | 3.0992 | 4.87 | | Q | V | | | |
| 15+ 5 | 3.1320 | 4.76 | | Q | V | | | |
| 15+10 | 3.1642 | 4.68 | Q | | V | | | |
| 15+15 | 3.1963 | 4.66 | Q | | V | | | |
| 15+20 | 3.2276 | 4.55 | Q | | V | | | |
| 15+25 | 3.2584 | 4.47 | Q | | V | | | |
| 15+30 | 3.2892 | 4.46 | Q | | V | | | |

| | | | | | | | |
|-------|--------|------|--|---|---|--|---|
| 15+35 | 3.3168 | 4.02 | | | Q | | V |
| 15+40 | 3.3422 | 3.69 | | | Q | | V |
| 15+45 | 3.3673 | 3.64 | | | Q | | V |
| 15+50 | 3.3922 | 3.63 | | | Q | | V |
| 15+55 | 3.4172 | 3.63 | | | Q | | V |
| 16+ 0 | 3.4422 | 3.63 | | | Q | | V |
| 16+ 5 | 3.4565 | 2.08 | | Q | | | V |
| 16+10 | 3.4629 | 0.93 | | Q | | | V |
| 16+15 | 3.4680 | 0.73 | | Q | | | V |
| 16+20 | 3.4727 | 0.69 | | Q | | | V |
| 16+25 | 3.4774 | 0.69 | | Q | | | V |
| 16+30 | 3.4822 | 0.69 | | Q | | | V |
| 16+35 | 3.4863 | 0.60 | | Q | | | V |
| 16+40 | 3.4899 | 0.53 | | Q | | | V |
| 16+45 | 3.4935 | 0.52 | | Q | | | V |
| 16+50 | 3.4971 | 0.52 | | Q | | | V |
| 16+55 | 3.5006 | 0.52 | | Q | | | V |
| 17+ 0 | 3.5042 | 0.52 | | Q | | | V |
| 17+ 5 | 3.5090 | 0.70 | | Q | | | V |
| 17+10 | 3.5147 | 0.83 | | Q | | | V |
| 17+15 | 3.5206 | 0.85 | | Q | | | V |
| 17+20 | 3.5265 | 0.86 | | Q | | | V |
| 17+25 | 3.5324 | 0.86 | | Q | | | V |
| 17+30 | 3.5384 | 0.86 | | Q | | | V |
| 17+35 | 3.5443 | 0.86 | | Q | | | V |
| 17+40 | 3.5502 | 0.86 | | Q | | | V |
| 17+45 | 3.5561 | 0.86 | | Q | | | V |
| 17+50 | 3.5614 | 0.77 | | Q | | | V |
| 17+55 | 3.5663 | 0.70 | | Q | | | V |
| 18+ 0 | 3.5710 | 0.69 | | Q | | | V |
| 18+ 5 | 3.5757 | 0.69 | | Q | | | V |
| 18+10 | 3.5805 | 0.69 | | Q | | | V |
| 18+15 | 3.5852 | 0.69 | | Q | | | V |
| 18+20 | 3.5900 | 0.69 | | Q | | | V |
| 18+25 | 3.5947 | 0.69 | | Q | | | V |
| 18+30 | 3.5994 | 0.69 | | Q | | | V |
| 18+35 | 3.6035 | 0.60 | | Q | | | V |
| 18+40 | 3.6072 | 0.53 | | Q | | | V |
| 18+45 | 3.6108 | 0.52 | | Q | | | V |
| 18+50 | 3.6137 | 0.43 | | Q | | | V |
| 18+55 | 3.6162 | 0.36 | | Q | | | V |
| 19+ 0 | 3.6185 | 0.35 | | Q | | | V |
| 19+ 5 | 3.6215 | 0.43 | | Q | | | V |
| 19+10 | 3.6250 | 0.50 | | Q | | | V |
| 19+15 | 3.6285 | 0.51 | | Q | | | V |
| 19+20 | 3.6327 | 0.61 | | Q | | | V |
| 19+25 | 3.6374 | 0.67 | | Q | | | V |
| 19+30 | 3.6421 | 0.69 | | Q | | | V |
| 19+35 | 3.6462 | 0.60 | | Q | | | V |
| 19+40 | 3.6498 | 0.53 | | Q | | | V |
| 19+45 | 3.6534 | 0.52 | | Q | | | V |
| 19+50 | 3.6563 | 0.43 | | Q | | | V |
| 19+55 | 3.6588 | 0.36 | | Q | | | V |
| 20+ 0 | 3.6612 | 0.35 | | Q | | | V |
| 20+ 5 | 3.6642 | 0.43 | | Q | | | V |
| 20+10 | 3.6676 | 0.50 | | Q | | | V |
| 20+15 | 3.6712 | 0.51 | | Q | | | V |
| 20+20 | 3.6747 | 0.52 | | Q | | | V |
| 20+25 | 3.6783 | 0.52 | | Q | | | V |
| 20+30 | 3.6818 | 0.52 | | Q | | | V |

| | | | | | | | |
|-------|--------|------|---|--|--|--|---|
| 20+35 | 3.6854 | 0.52 | Q | | | | V |
| 20+40 | 3.6889 | 0.52 | Q | | | | V |
| 20+45 | 3.6925 | 0.52 | Q | | | | V |
| 20+50 | 3.6954 | 0.43 | Q | | | | V |
| 20+55 | 3.6979 | 0.36 | Q | | | | V |
| 21+ 0 | 3.7003 | 0.35 | Q | | | | V |
| 21+ 5 | 3.7033 | 0.43 | Q | | | | V |
| 21+10 | 3.7067 | 0.50 | Q | | | | V |
| 21+15 | 3.7103 | 0.51 | Q | | | | V |
| 21+20 | 3.7132 | 0.43 | Q | | | | V |
| 21+25 | 3.7157 | 0.36 | Q | | | | V |
| 21+30 | 3.7180 | 0.35 | Q | | | | V |
| 21+35 | 3.7210 | 0.43 | Q | | | | V |
| 21+40 | 3.7245 | 0.50 | Q | | | | V |
| 21+45 | 3.7280 | 0.51 | Q | | | | V |
| 21+50 | 3.7310 | 0.43 | Q | | | | V |
| 21+55 | 3.7334 | 0.36 | Q | | | | V |
| 22+ 0 | 3.7358 | 0.35 | Q | | | | V |
| 22+ 5 | 3.7388 | 0.43 | Q | | | | V |
| 22+10 | 3.7423 | 0.50 | Q | | | | V |
| 22+15 | 3.7458 | 0.51 | Q | | | | V |
| 22+20 | 3.7487 | 0.43 | Q | | | | V |
| 22+25 | 3.7512 | 0.36 | Q | | | | V |
| 22+30 | 3.7536 | 0.35 | Q | | | | V |
| 22+35 | 3.7559 | 0.34 | Q | | | | V |
| 22+40 | 3.7583 | 0.34 | Q | | | | V |
| 22+45 | 3.7607 | 0.34 | Q | | | | V |
| 22+50 | 3.7630 | 0.34 | Q | | | | V |
| 22+55 | 3.7654 | 0.34 | Q | | | | V |
| 23+ 0 | 3.7678 | 0.34 | Q | | | | V |
| 23+ 5 | 3.7702 | 0.34 | Q | | | | V |
| 23+10 | 3.7725 | 0.34 | Q | | | | V |
| 23+15 | 3.7749 | 0.34 | Q | | | | V |
| 23+20 | 3.7773 | 0.34 | Q | | | | V |
| 23+25 | 3.7796 | 0.34 | Q | | | | V |
| 23+30 | 3.7820 | 0.34 | Q | | | | V |
| 23+35 | 3.7844 | 0.34 | Q | | | | V |
| 23+40 | 3.7867 | 0.34 | Q | | | | V |
| 23+45 | 3.7891 | 0.34 | Q | | | | V |
| 23+50 | 3.7915 | 0.34 | Q | | | | V |
| 23+55 | 3.7938 | 0.34 | Q | | | | V |
| 24+ 0 | 3.7962 | 0.34 | Q | | | | V |
| 24+ 5 | 3.7973 | 0.16 | Q | | | | V |
| 24+10 | 3.7975 | 0.03 | Q | | | | V |
| 24+15 | 3.7976 | 0.01 | Q | | | | V |

Unit Hydrograph Analysis

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 03/24/22 File: 20750bpb242.out

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6310

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

20-750 Building B
Proposed Area B
2 year 24 hour

Drainage Area = 22.80 (Ac.) = 0.036 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 22.80 (Ac.) = 0.036
Sq. Mi.
Length along longest watercourse = 1736.00 (Ft.)
Length along longest watercourse measured to centroid = 355.00 (Ft.)
Length along longest watercourse = 0.329 Mi.
Length along longest watercourse measured to centroid = 0.067 Mi.
Difference in elevation = 13.50 (Ft.)
Slope along watercourse = 41.0599 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.042 Hr.
Lag time = 2.51 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.00 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 1.00 (CFS)

2 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 22.80 | 1.60 | 36.48 |

100 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 22.80 | 4.00 | 91.20 |

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.600 (In)
 Area Averaged 100-Year Rainfall = 4.000 (In)

Point rain (area averaged) = 1.600 (In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.600 (In)

Sub-Area Data:

| | | |
|----------------------------------|--------------|--------------|
| Area (Ac.) | Runoff Index | Impervious % |
| 22.800 | 69.00 | 0.900 |
| Total Area Entered = 22.80 (Ac.) | | |

| | | | | | | |
|-----------|-------|-------------|------------|------------------|--------|---------|
| RI | RI | Infil. Rate | Impervious | Adj. Infil. Rate | Area% | F |
| AMC2 | AMC-1 | (In/Hr) | (Dec.%) | (In/Hr) | (Dec.) | (In/Hr) |
| 69.0 | 49.8 | 0.574 | 0.900 | 0.109 | 1.000 | 0.109 |
| Sum (F) = | | | | | | 0.109 |

Area averaged mean soil loss (F) (In/Hr) = 0.109
 Minimum soil loss rate ((In/Hr)) = 0.055
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.180

 U n i t H y d r o g r a p h
 VALLEY S-Curve

Unit Hydrograph Data

| Unit time period (hrs) | Time % of lag | Distribution Graph % | Unit Hydrograph (CFS) |
|---------------------------|---------------|-------------------------|--------------------------|
| 1 | 0.083 | 199.596 | 9.957 |
| 2 | 0.167 | 399.192 | 9.972 |
| 3 | 0.250 | 598.788 | 2.024 |
| 4 | 0.333 | 798.384 | 0.786 |
| 5 | 0.417 | 997.980 | 0.239 |
| | | Sum = 100.000 | Sum= 22.978 |

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

| Unit Time (Hr.) | Pattern Percent | Storm Rain (In/Hr) | Loss rate (In./Hr) | | Effective (In/Hr) |
|--------------------|--------------------|-----------------------|--------------------|-------|----------------------|
| | | | Max | Low | |
| 1 | 0.08 | 0.013 | (0.193) | 0.002 | 0.010 |
| 2 | 0.17 | 0.013 | (0.193) | 0.002 | 0.010 |
| 3 | 0.25 | 0.013 | (0.192) | 0.002 | 0.010 |
| 4 | 0.33 | 0.019 | (0.191) | 0.003 | 0.016 |
| 5 | 0.42 | 0.019 | (0.190) | 0.003 | 0.016 |
| 6 | 0.50 | 0.019 | (0.190) | 0.003 | 0.016 |
| 7 | 0.58 | 0.019 | (0.189) | 0.003 | 0.016 |
| 8 | 0.67 | 0.019 | (0.188) | 0.003 | 0.016 |
| 9 | 0.75 | 0.019 | (0.187) | 0.003 | 0.016 |
| 10 | 0.83 | 0.026 | (0.187) | 0.005 | 0.021 |
| 11 | 0.92 | 0.026 | (0.186) | 0.005 | 0.021 |
| 12 | 1.00 | 0.026 | (0.185) | 0.005 | 0.021 |
| 13 | 1.08 | 0.019 | (0.184) | 0.003 | 0.016 |
| 14 | 1.17 | 0.019 | (0.184) | 0.003 | 0.016 |

| | | | | | | |
|----|------|------|-------|----------|-------|-------|
| 15 | 1.25 | 0.10 | 0.019 | (0.183) | 0.003 | 0.016 |
| 16 | 1.33 | 0.10 | 0.019 | (0.182) | 0.003 | 0.016 |
| 17 | 1.42 | 0.10 | 0.019 | (0.182) | 0.003 | 0.016 |
| 18 | 1.50 | 0.10 | 0.019 | (0.181) | 0.003 | 0.016 |
| 19 | 1.58 | 0.10 | 0.019 | (0.180) | 0.003 | 0.016 |
| 20 | 1.67 | 0.10 | 0.019 | (0.179) | 0.003 | 0.016 |
| 21 | 1.75 | 0.10 | 0.019 | (0.179) | 0.003 | 0.016 |
| 22 | 1.83 | 0.13 | 0.026 | (0.178) | 0.005 | 0.021 |
| 23 | 1.92 | 0.13 | 0.026 | (0.177) | 0.005 | 0.021 |
| 24 | 2.00 | 0.13 | 0.026 | (0.176) | 0.005 | 0.021 |
| 25 | 2.08 | 0.13 | 0.026 | (0.176) | 0.005 | 0.021 |
| 26 | 2.17 | 0.13 | 0.026 | (0.175) | 0.005 | 0.021 |
| 27 | 2.25 | 0.13 | 0.026 | (0.174) | 0.005 | 0.021 |
| 28 | 2.33 | 0.13 | 0.026 | (0.174) | 0.005 | 0.021 |
| 29 | 2.42 | 0.13 | 0.026 | (0.173) | 0.005 | 0.021 |
| 30 | 2.50 | 0.13 | 0.026 | (0.172) | 0.005 | 0.021 |
| 31 | 2.58 | 0.17 | 0.032 | (0.172) | 0.006 | 0.026 |
| 32 | 2.67 | 0.17 | 0.032 | (0.171) | 0.006 | 0.026 |
| 33 | 2.75 | 0.17 | 0.032 | (0.170) | 0.006 | 0.026 |
| 34 | 2.83 | 0.17 | 0.032 | (0.169) | 0.006 | 0.026 |
| 35 | 2.92 | 0.17 | 0.032 | (0.169) | 0.006 | 0.026 |
| 36 | 3.00 | 0.17 | 0.032 | (0.168) | 0.006 | 0.026 |
| 37 | 3.08 | 0.17 | 0.032 | (0.167) | 0.006 | 0.026 |
| 38 | 3.17 | 0.17 | 0.032 | (0.167) | 0.006 | 0.026 |
| 39 | 3.25 | 0.17 | 0.032 | (0.166) | 0.006 | 0.026 |
| 40 | 3.33 | 0.17 | 0.032 | (0.165) | 0.006 | 0.026 |
| 41 | 3.42 | 0.17 | 0.032 | (0.165) | 0.006 | 0.026 |
| 42 | 3.50 | 0.17 | 0.032 | (0.164) | 0.006 | 0.026 |
| 43 | 3.58 | 0.17 | 0.032 | (0.163) | 0.006 | 0.026 |
| 44 | 3.67 | 0.17 | 0.032 | (0.162) | 0.006 | 0.026 |
| 45 | 3.75 | 0.17 | 0.032 | (0.162) | 0.006 | 0.026 |
| 46 | 3.83 | 0.20 | 0.038 | (0.161) | 0.007 | 0.031 |
| 47 | 3.92 | 0.20 | 0.038 | (0.160) | 0.007 | 0.031 |
| 48 | 4.00 | 0.20 | 0.038 | (0.160) | 0.007 | 0.031 |
| 49 | 4.08 | 0.20 | 0.038 | (0.159) | 0.007 | 0.031 |
| 50 | 4.17 | 0.20 | 0.038 | (0.158) | 0.007 | 0.031 |
| 51 | 4.25 | 0.20 | 0.038 | (0.158) | 0.007 | 0.031 |
| 52 | 4.33 | 0.23 | 0.045 | (0.157) | 0.008 | 0.037 |
| 53 | 4.42 | 0.23 | 0.045 | (0.156) | 0.008 | 0.037 |
| 54 | 4.50 | 0.23 | 0.045 | (0.156) | 0.008 | 0.037 |
| 55 | 4.58 | 0.23 | 0.045 | (0.155) | 0.008 | 0.037 |
| 56 | 4.67 | 0.23 | 0.045 | (0.154) | 0.008 | 0.037 |
| 57 | 4.75 | 0.23 | 0.045 | (0.154) | 0.008 | 0.037 |
| 58 | 4.83 | 0.27 | 0.051 | (0.153) | 0.009 | 0.042 |
| 59 | 4.92 | 0.27 | 0.051 | (0.152) | 0.009 | 0.042 |
| 60 | 5.00 | 0.27 | 0.051 | (0.152) | 0.009 | 0.042 |
| 61 | 5.08 | 0.20 | 0.038 | (0.151) | 0.007 | 0.031 |
| 62 | 5.17 | 0.20 | 0.038 | (0.150) | 0.007 | 0.031 |
| 63 | 5.25 | 0.20 | 0.038 | (0.150) | 0.007 | 0.031 |
| 64 | 5.33 | 0.23 | 0.045 | (0.149) | 0.008 | 0.037 |
| 65 | 5.42 | 0.23 | 0.045 | (0.148) | 0.008 | 0.037 |
| 66 | 5.50 | 0.23 | 0.045 | (0.148) | 0.008 | 0.037 |
| 67 | 5.58 | 0.27 | 0.051 | (0.147) | 0.009 | 0.042 |
| 68 | 5.67 | 0.27 | 0.051 | (0.147) | 0.009 | 0.042 |
| 69 | 5.75 | 0.27 | 0.051 | (0.146) | 0.009 | 0.042 |
| 70 | 5.83 | 0.27 | 0.051 | (0.145) | 0.009 | 0.042 |
| 71 | 5.92 | 0.27 | 0.051 | (0.145) | 0.009 | 0.042 |
| 72 | 6.00 | 0.27 | 0.051 | (0.144) | 0.009 | 0.042 |
| 73 | 6.08 | 0.30 | 0.058 | (0.143) | 0.010 | 0.047 |
| 74 | 6.17 | 0.30 | 0.058 | (0.143) | 0.010 | 0.047 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 75 | 6.25 | 0.30 | 0.058 | (0.142) | 0.010 | 0.047 |
| 76 | 6.33 | 0.30 | 0.058 | (0.141) | 0.010 | 0.047 |
| 77 | 6.42 | 0.30 | 0.058 | (0.141) | 0.010 | 0.047 |
| 78 | 6.50 | 0.30 | 0.058 | (0.140) | 0.010 | 0.047 |
| 79 | 6.58 | 0.33 | 0.064 | (0.140) | 0.012 | 0.052 |
| 80 | 6.67 | 0.33 | 0.064 | (0.139) | 0.012 | 0.052 |
| 81 | 6.75 | 0.33 | 0.064 | (0.138) | 0.012 | 0.052 |
| 82 | 6.83 | 0.33 | 0.064 | (0.138) | 0.012 | 0.052 |
| 83 | 6.92 | 0.33 | 0.064 | (0.137) | 0.012 | 0.052 |
| 84 | 7.00 | 0.33 | 0.064 | (0.136) | 0.012 | 0.052 |
| 85 | 7.08 | 0.33 | 0.064 | (0.136) | 0.012 | 0.052 |
| 86 | 7.17 | 0.33 | 0.064 | (0.135) | 0.012 | 0.052 |
| 87 | 7.25 | 0.33 | 0.064 | (0.135) | 0.012 | 0.052 |
| 88 | 7.33 | 0.37 | 0.070 | (0.134) | 0.013 | 0.058 |
| 89 | 7.42 | 0.37 | 0.070 | (0.133) | 0.013 | 0.058 |
| 90 | 7.50 | 0.37 | 0.070 | (0.133) | 0.013 | 0.058 |
| 91 | 7.58 | 0.40 | 0.077 | (0.132) | 0.014 | 0.063 |
| 92 | 7.67 | 0.40 | 0.077 | (0.131) | 0.014 | 0.063 |
| 93 | 7.75 | 0.40 | 0.077 | (0.131) | 0.014 | 0.063 |
| 94 | 7.83 | 0.43 | 0.083 | (0.130) | 0.015 | 0.068 |
| 95 | 7.92 | 0.43 | 0.083 | (0.130) | 0.015 | 0.068 |
| 96 | 8.00 | 0.43 | 0.083 | (0.129) | 0.015 | 0.068 |
| 97 | 8.08 | 0.50 | 0.096 | (0.128) | 0.017 | 0.079 |
| 98 | 8.17 | 0.50 | 0.096 | (0.128) | 0.017 | 0.079 |
| 99 | 8.25 | 0.50 | 0.096 | (0.127) | 0.017 | 0.079 |
| 100 | 8.33 | 0.50 | 0.096 | (0.127) | 0.017 | 0.079 |
| 101 | 8.42 | 0.50 | 0.096 | (0.126) | 0.017 | 0.079 |
| 102 | 8.50 | 0.50 | 0.096 | (0.125) | 0.017 | 0.079 |
| 103 | 8.58 | 0.53 | 0.102 | (0.125) | 0.018 | 0.084 |
| 104 | 8.67 | 0.53 | 0.102 | (0.124) | 0.018 | 0.084 |
| 105 | 8.75 | 0.53 | 0.102 | (0.124) | 0.018 | 0.084 |
| 106 | 8.83 | 0.57 | 0.109 | (0.123) | 0.020 | 0.089 |
| 107 | 8.92 | 0.57 | 0.109 | (0.123) | 0.020 | 0.089 |
| 108 | 9.00 | 0.57 | 0.109 | (0.122) | 0.020 | 0.089 |
| 109 | 9.08 | 0.63 | 0.122 | (0.121) | 0.022 | 0.100 |
| 110 | 9.17 | 0.63 | 0.122 | (0.121) | 0.022 | 0.100 |
| 111 | 9.25 | 0.63 | 0.122 | (0.120) | 0.022 | 0.100 |
| 112 | 9.33 | 0.67 | 0.128 | (0.120) | 0.023 | 0.105 |
| 113 | 9.42 | 0.67 | 0.128 | (0.119) | 0.023 | 0.105 |
| 114 | 9.50 | 0.67 | 0.128 | (0.119) | 0.023 | 0.105 |
| 115 | 9.58 | 0.70 | 0.134 | (0.118) | 0.024 | 0.110 |
| 116 | 9.67 | 0.70 | 0.134 | (0.117) | 0.024 | 0.110 |
| 117 | 9.75 | 0.70 | 0.134 | (0.117) | 0.024 | 0.110 |
| 118 | 9.83 | 0.73 | 0.141 | (0.116) | 0.025 | 0.115 |
| 119 | 9.92 | 0.73 | 0.141 | (0.116) | 0.025 | 0.115 |
| 120 | 10.00 | 0.73 | 0.141 | (0.115) | 0.025 | 0.115 |
| 121 | 10.08 | 0.50 | 0.096 | (0.115) | 0.017 | 0.079 |
| 122 | 10.17 | 0.50 | 0.096 | (0.114) | 0.017 | 0.079 |
| 123 | 10.25 | 0.50 | 0.096 | (0.113) | 0.017 | 0.079 |
| 124 | 10.33 | 0.50 | 0.096 | (0.113) | 0.017 | 0.079 |
| 125 | 10.42 | 0.50 | 0.096 | (0.112) | 0.017 | 0.079 |
| 126 | 10.50 | 0.50 | 0.096 | (0.112) | 0.017 | 0.079 |
| 127 | 10.58 | 0.67 | 0.128 | (0.111) | 0.023 | 0.105 |
| 128 | 10.67 | 0.67 | 0.128 | (0.111) | 0.023 | 0.105 |
| 129 | 10.75 | 0.67 | 0.128 | (0.110) | 0.023 | 0.105 |
| 130 | 10.83 | 0.67 | 0.128 | (0.110) | 0.023 | 0.105 |
| 131 | 10.92 | 0.67 | 0.128 | (0.109) | 0.023 | 0.105 |
| 132 | 11.00 | 0.67 | 0.128 | (0.109) | 0.023 | 0.105 |
| 133 | 11.08 | 0.63 | 0.122 | (0.108) | 0.022 | 0.100 |
| 134 | 11.17 | 0.63 | 0.122 | (0.108) | 0.022 | 0.100 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 135 | 11.25 | 0.63 | 0.122 | (0.107) | 0.022 | 0.100 |
| 136 | 11.33 | 0.63 | 0.122 | (0.106) | 0.022 | 0.100 |
| 137 | 11.42 | 0.63 | 0.122 | (0.106) | 0.022 | 0.100 |
| 138 | 11.50 | 0.63 | 0.122 | (0.105) | 0.022 | 0.100 |
| 139 | 11.58 | 0.57 | 0.109 | (0.105) | 0.020 | 0.089 |
| 140 | 11.67 | 0.57 | 0.109 | (0.104) | 0.020 | 0.089 |
| 141 | 11.75 | 0.57 | 0.109 | (0.104) | 0.020 | 0.089 |
| 142 | 11.83 | 0.60 | 0.115 | (0.103) | 0.021 | 0.094 |
| 143 | 11.92 | 0.60 | 0.115 | (0.103) | 0.021 | 0.094 |
| 144 | 12.00 | 0.60 | 0.115 | (0.102) | 0.021 | 0.094 |
| 145 | 12.08 | 0.83 | 0.160 | (0.102) | 0.029 | 0.131 |
| 146 | 12.17 | 0.83 | 0.160 | (0.101) | 0.029 | 0.131 |
| 147 | 12.25 | 0.83 | 0.160 | (0.101) | 0.029 | 0.131 |
| 148 | 12.33 | 0.87 | 0.166 | (0.100) | 0.030 | 0.136 |
| 149 | 12.42 | 0.87 | 0.166 | (0.100) | 0.030 | 0.136 |
| 150 | 12.50 | 0.87 | 0.166 | (0.099) | 0.030 | 0.136 |
| 151 | 12.58 | 0.93 | 0.179 | (0.099) | 0.032 | 0.147 |
| 152 | 12.67 | 0.93 | 0.179 | (0.098) | 0.032 | 0.147 |
| 153 | 12.75 | 0.93 | 0.179 | (0.098) | 0.032 | 0.147 |
| 154 | 12.83 | 0.97 | 0.186 | (0.097) | 0.033 | 0.152 |
| 155 | 12.92 | 0.97 | 0.186 | (0.097) | 0.033 | 0.152 |
| 156 | 13.00 | 0.97 | 0.186 | (0.096) | 0.033 | 0.152 |
| 157 | 13.08 | 1.13 | 0.218 | (0.096) | 0.039 | 0.178 |
| 158 | 13.17 | 1.13 | 0.218 | (0.095) | 0.039 | 0.178 |
| 159 | 13.25 | 1.13 | 0.218 | (0.095) | 0.039 | 0.178 |
| 160 | 13.33 | 1.13 | 0.218 | (0.094) | 0.039 | 0.178 |
| 161 | 13.42 | 1.13 | 0.218 | (0.094) | 0.039 | 0.178 |
| 162 | 13.50 | 1.13 | 0.218 | (0.093) | 0.039 | 0.178 |
| 163 | 13.58 | 0.77 | 0.147 | (0.093) | 0.026 | 0.121 |
| 164 | 13.67 | 0.77 | 0.147 | (0.092) | 0.026 | 0.121 |
| 165 | 13.75 | 0.77 | 0.147 | (0.092) | 0.026 | 0.121 |
| 166 | 13.83 | 0.77 | 0.147 | (0.092) | 0.026 | 0.121 |
| 167 | 13.92 | 0.77 | 0.147 | (0.091) | 0.026 | 0.121 |
| 168 | 14.00 | 0.77 | 0.147 | (0.091) | 0.026 | 0.121 |
| 169 | 14.08 | 0.90 | 0.173 | (0.090) | 0.031 | 0.142 |
| 170 | 14.17 | 0.90 | 0.173 | (0.090) | 0.031 | 0.142 |
| 171 | 14.25 | 0.90 | 0.173 | (0.089) | 0.031 | 0.142 |
| 172 | 14.33 | 0.87 | 0.166 | (0.089) | 0.030 | 0.136 |
| 173 | 14.42 | 0.87 | 0.166 | (0.088) | 0.030 | 0.136 |
| 174 | 14.50 | 0.87 | 0.166 | (0.088) | 0.030 | 0.136 |
| 175 | 14.58 | 0.87 | 0.166 | (0.087) | 0.030 | 0.136 |
| 176 | 14.67 | 0.87 | 0.166 | (0.087) | 0.030 | 0.136 |
| 177 | 14.75 | 0.87 | 0.166 | (0.086) | 0.030 | 0.136 |
| 178 | 14.83 | 0.83 | 0.160 | (0.086) | 0.029 | 0.131 |
| 179 | 14.92 | 0.83 | 0.160 | (0.086) | 0.029 | 0.131 |
| 180 | 15.00 | 0.83 | 0.160 | (0.085) | 0.029 | 0.131 |
| 181 | 15.08 | 0.80 | 0.154 | (0.085) | 0.028 | 0.126 |
| 182 | 15.17 | 0.80 | 0.154 | (0.084) | 0.028 | 0.126 |
| 183 | 15.25 | 0.80 | 0.154 | (0.084) | 0.028 | 0.126 |
| 184 | 15.33 | 0.77 | 0.147 | (0.083) | 0.026 | 0.121 |
| 185 | 15.42 | 0.77 | 0.147 | (0.083) | 0.026 | 0.121 |
| 186 | 15.50 | 0.77 | 0.147 | (0.083) | 0.026 | 0.121 |
| 187 | 15.58 | 0.63 | 0.122 | (0.082) | 0.022 | 0.100 |
| 188 | 15.67 | 0.63 | 0.122 | (0.082) | 0.022 | 0.100 |
| 189 | 15.75 | 0.63 | 0.122 | (0.081) | 0.022 | 0.100 |
| 190 | 15.83 | 0.63 | 0.122 | (0.081) | 0.022 | 0.100 |
| 191 | 15.92 | 0.63 | 0.122 | (0.080) | 0.022 | 0.100 |
| 192 | 16.00 | 0.63 | 0.122 | (0.080) | 0.022 | 0.100 |
| 193 | 16.08 | 0.13 | 0.026 | (0.080) | 0.005 | 0.021 |
| 194 | 16.17 | 0.13 | 0.026 | (0.079) | 0.005 | 0.021 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 195 | 16.25 | 0.13 | 0.026 | (0.079) | 0.005 | 0.021 |
| 196 | 16.33 | 0.13 | 0.026 | (0.078) | 0.005 | 0.021 |
| 197 | 16.42 | 0.13 | 0.026 | (0.078) | 0.005 | 0.021 |
| 198 | 16.50 | 0.13 | 0.026 | (0.078) | 0.005 | 0.021 |
| 199 | 16.58 | 0.10 | 0.019 | (0.077) | 0.003 | 0.016 |
| 200 | 16.67 | 0.10 | 0.019 | (0.077) | 0.003 | 0.016 |
| 201 | 16.75 | 0.10 | 0.019 | (0.076) | 0.003 | 0.016 |
| 202 | 16.83 | 0.10 | 0.019 | (0.076) | 0.003 | 0.016 |
| 203 | 16.92 | 0.10 | 0.019 | (0.076) | 0.003 | 0.016 |
| 204 | 17.00 | 0.10 | 0.019 | (0.075) | 0.003 | 0.016 |
| 205 | 17.08 | 0.17 | 0.032 | (0.075) | 0.006 | 0.026 |
| 206 | 17.17 | 0.17 | 0.032 | (0.075) | 0.006 | 0.026 |
| 207 | 17.25 | 0.17 | 0.032 | (0.074) | 0.006 | 0.026 |
| 208 | 17.33 | 0.17 | 0.032 | (0.074) | 0.006 | 0.026 |
| 209 | 17.42 | 0.17 | 0.032 | (0.073) | 0.006 | 0.026 |
| 210 | 17.50 | 0.17 | 0.032 | (0.073) | 0.006 | 0.026 |
| 211 | 17.58 | 0.17 | 0.032 | (0.073) | 0.006 | 0.026 |
| 212 | 17.67 | 0.17 | 0.032 | (0.072) | 0.006 | 0.026 |
| 213 | 17.75 | 0.17 | 0.032 | (0.072) | 0.006 | 0.026 |
| 214 | 17.83 | 0.13 | 0.026 | (0.072) | 0.005 | 0.021 |
| 215 | 17.92 | 0.13 | 0.026 | (0.071) | 0.005 | 0.021 |
| 216 | 18.00 | 0.13 | 0.026 | (0.071) | 0.005 | 0.021 |
| 217 | 18.08 | 0.13 | 0.026 | (0.071) | 0.005 | 0.021 |
| 218 | 18.17 | 0.13 | 0.026 | (0.070) | 0.005 | 0.021 |
| 219 | 18.25 | 0.13 | 0.026 | (0.070) | 0.005 | 0.021 |
| 220 | 18.33 | 0.13 | 0.026 | (0.070) | 0.005 | 0.021 |
| 221 | 18.42 | 0.13 | 0.026 | (0.069) | 0.005 | 0.021 |
| 222 | 18.50 | 0.13 | 0.026 | (0.069) | 0.005 | 0.021 |
| 223 | 18.58 | 0.10 | 0.019 | (0.069) | 0.003 | 0.016 |
| 224 | 18.67 | 0.10 | 0.019 | (0.068) | 0.003 | 0.016 |
| 225 | 18.75 | 0.10 | 0.019 | (0.068) | 0.003 | 0.016 |
| 226 | 18.83 | 0.07 | 0.013 | (0.068) | 0.002 | 0.010 |
| 227 | 18.92 | 0.07 | 0.013 | (0.067) | 0.002 | 0.010 |
| 228 | 19.00 | 0.07 | 0.013 | (0.067) | 0.002 | 0.010 |
| 229 | 19.08 | 0.10 | 0.019 | (0.067) | 0.003 | 0.016 |
| 230 | 19.17 | 0.10 | 0.019 | (0.066) | 0.003 | 0.016 |
| 231 | 19.25 | 0.10 | 0.019 | (0.066) | 0.003 | 0.016 |
| 232 | 19.33 | 0.13 | 0.026 | (0.066) | 0.005 | 0.021 |
| 233 | 19.42 | 0.13 | 0.026 | (0.065) | 0.005 | 0.021 |
| 234 | 19.50 | 0.13 | 0.026 | (0.065) | 0.005 | 0.021 |
| 235 | 19.58 | 0.10 | 0.019 | (0.065) | 0.003 | 0.016 |
| 236 | 19.67 | 0.10 | 0.019 | (0.064) | 0.003 | 0.016 |
| 237 | 19.75 | 0.10 | 0.019 | (0.064) | 0.003 | 0.016 |
| 238 | 19.83 | 0.07 | 0.013 | (0.064) | 0.002 | 0.010 |
| 239 | 19.92 | 0.07 | 0.013 | (0.064) | 0.002 | 0.010 |
| 240 | 20.00 | 0.07 | 0.013 | (0.063) | 0.002 | 0.010 |
| 241 | 20.08 | 0.10 | 0.019 | (0.063) | 0.003 | 0.016 |
| 242 | 20.17 | 0.10 | 0.019 | (0.063) | 0.003 | 0.016 |
| 243 | 20.25 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 244 | 20.33 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 245 | 20.42 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 246 | 20.50 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 247 | 20.58 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 248 | 20.67 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 249 | 20.75 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 250 | 20.83 | 0.07 | 0.013 | (0.061) | 0.002 | 0.010 |
| 251 | 20.92 | 0.07 | 0.013 | (0.060) | 0.002 | 0.010 |
| 252 | 21.00 | 0.07 | 0.013 | (0.060) | 0.002 | 0.010 |
| 253 | 21.08 | 0.10 | 0.019 | (0.060) | 0.003 | 0.016 |
| 254 | 21.17 | 0.10 | 0.019 | (0.060) | 0.003 | 0.016 |

| | | | | | | | | |
|------|--------|------|----|---|--|--|--|--|
| 0+30 | 0.0519 | 1.36 | V | Q | | | | |
| 0+35 | 0.0613 | 1.36 | V | Q | | | | |
| 0+40 | 0.0707 | 1.36 | V | Q | | | | |
| 0+45 | 0.0800 | 1.36 | V | Q | | | | |
| 0+50 | 0.0898 | 1.41 | V | Q | | | | |
| 0+55 | 0.0999 | 1.47 | V | Q | | | | |
| 1+ 0 | 0.1101 | 1.48 | V | Q | | | | |
| 1+ 5 | 0.1199 | 1.43 | V | Q | | | | |
| 1+10 | 0.1294 | 1.38 | V | Q | | | | |
| 1+15 | 0.1388 | 1.37 | V | Q | | | | |
| 1+20 | 0.1482 | 1.36 | V | Q | | | | |
| 1+25 | 0.1576 | 1.36 | V | Q | | | | |
| 1+30 | 0.1670 | 1.36 | V | Q | | | | |
| 1+35 | 0.1763 | 1.36 | V | Q | | | | |
| 1+40 | 0.1857 | 1.36 | V | Q | | | | |
| 1+45 | 0.1951 | 1.36 | V | Q | | | | |
| 1+50 | 0.2048 | 1.41 | V | Q | | | | |
| 1+55 | 0.2149 | 1.47 | V | Q | | | | |
| 2+ 0 | 0.2251 | 1.48 | V | Q | | | | |
| 2+ 5 | 0.2353 | 1.48 | V | Q | | | | |
| 2+10 | 0.2455 | 1.48 | V | Q | | | | |
| 2+15 | 0.2557 | 1.48 | V | Q | | | | |
| 2+20 | 0.2659 | 1.48 | V | Q | | | | |
| 2+25 | 0.2762 | 1.48 | V | Q | | | | |
| 2+30 | 0.2864 | 1.48 | V | Q | | | | |
| 2+35 | 0.2969 | 1.53 | V | Q | | | | |
| 2+40 | 0.3079 | 1.59 | V | Q | | | | |
| 2+45 | 0.3189 | 1.60 | V | Q | | | | |
| 2+50 | 0.3299 | 1.60 | V | Q | | | | |
| 2+55 | 0.3409 | 1.60 | V | Q | | | | |
| 3+ 0 | 0.3520 | 1.60 | V | Q | | | | |
| 3+ 5 | 0.3630 | 1.60 | V | Q | | | | |
| 3+10 | 0.3741 | 1.60 | V | Q | | | | |
| 3+15 | 0.3851 | 1.60 | V | Q | | | | |
| 3+20 | 0.3962 | 1.60 | V | Q | | | | |
| 3+25 | 0.4072 | 1.60 | V | Q | | | | |
| 3+30 | 0.4182 | 1.60 | V | Q | | | | |
| 3+35 | 0.4293 | 1.60 | V | Q | | | | |
| 3+40 | 0.4403 | 1.60 | V | Q | | | | |
| 3+45 | 0.4514 | 1.60 | V | Q | | | | |
| 3+50 | 0.4628 | 1.66 | V | Q | | | | |
| 3+55 | 0.4745 | 1.71 | V | Q | | | | |
| 4+ 0 | 0.4864 | 1.72 | V | Q | | | | |
| 4+ 5 | 0.4982 | 1.72 | V | Q | | | | |
| 4+10 | 0.5101 | 1.72 | V | Q | | | | |
| 4+15 | 0.5220 | 1.72 | V | Q | | | | |
| 4+20 | 0.5342 | 1.78 | V | Q | | | | |
| 4+25 | 0.5468 | 1.83 | V | Q | | | | |
| 4+30 | 0.5595 | 1.84 | V | Q | | | | |
| 4+35 | 0.5722 | 1.84 | V | Q | | | | |
| 4+40 | 0.5849 | 1.84 | V | Q | | | | |
| 4+45 | 0.5976 | 1.84 | V | Q | | | | |
| 4+50 | 0.6106 | 1.90 | V | Q | | | | |
| 4+55 | 0.6240 | 1.95 | V | Q | | | | |
| 5+ 0 | 0.6375 | 1.96 | V | Q | | | | |
| 5+ 5 | 0.6503 | 1.86 | V | Q | | | | |
| 5+10 | 0.6624 | 1.76 | V | Q | | | | |
| 5+15 | 0.6744 | 1.73 | VQ | | | | | |
| 5+20 | 0.6866 | 1.78 | VQ | | | | | |
| 5+25 | 0.6992 | 1.83 | VQ | | | | | |

| | | | | | | | |
|-------|--------|------|----|---|--|--|--|
| 5+30 | 0.7119 | 1.84 | VQ | | | | |
| 5+35 | 0.7250 | 1.90 | VQ | | | | |
| 5+40 | 0.7384 | 1.95 | VQ | | | | |
| 5+45 | 0.7519 | 1.96 | VQ | | | | |
| 5+50 | 0.7654 | 1.96 | VQ | | | | |
| 5+55 | 0.7789 | 1.97 | VQ | | | | |
| 6+ 0 | 0.7925 | 1.97 | Q | | | | |
| 6+ 5 | 0.8064 | 2.02 | VQ | | | | |
| 6+10 | 0.8206 | 2.07 | VQ | | | | |
| 6+15 | 0.8349 | 2.08 | VQ | | | | |
| 6+20 | 0.8493 | 2.08 | VQ | | | | |
| 6+25 | 0.8637 | 2.09 | VQ | | | | |
| 6+30 | 0.8780 | 2.09 | VQ | | | | |
| 6+35 | 0.8928 | 2.14 | VQ | | | | |
| 6+40 | 0.9078 | 2.19 | Q | | | | |
| 6+45 | 0.9230 | 2.20 | Q | | | | |
| 6+50 | 0.9382 | 2.21 | Q | | | | |
| 6+55 | 0.9534 | 2.21 | Q | | | | |
| 7+ 0 | 0.9686 | 2.21 | Q | | | | |
| 7+ 5 | 0.9838 | 2.21 | Q | | | | |
| 7+10 | 0.9990 | 2.21 | Q | | | | |
| 7+15 | 1.0142 | 2.21 | QV | | | | |
| 7+20 | 1.0297 | 2.26 | Q | | | | |
| 7+25 | 1.0456 | 2.31 | Q | | | | |
| 7+30 | 1.0616 | 2.32 | Q | | | | |
| 7+35 | 1.0780 | 2.38 | Q | | | | |
| 7+40 | 1.0948 | 2.43 | Q | | | | |
| 7+45 | 1.1116 | 2.44 | Q | | | | |
| 7+50 | 1.1288 | 2.50 | QV | | | | |
| 7+55 | 1.1464 | 2.55 | Q | | | | |
| 8+ 0 | 1.1640 | 2.56 | Q | | | | |
| 8+ 5 | 1.1824 | 2.67 | Q | | | | |
| 8+10 | 1.2015 | 2.78 | VQ | | | | |
| 8+15 | 1.2208 | 2.80 | VQ | | | | |
| 8+20 | 1.2402 | 2.81 | Q | | | | |
| 8+25 | 1.2595 | 2.81 | Q | | | | |
| 8+30 | 1.2789 | 2.81 | Q | | | | |
| 8+35 | 1.2986 | 2.86 | Q | | | | |
| 8+40 | 1.3186 | 2.91 | Q | | | | |
| 8+45 | 1.3388 | 2.92 | Q | | | | |
| 8+50 | 1.3593 | 2.98 | QV | | | | |
| 8+55 | 1.3802 | 3.03 | Q | | | | |
| 9+ 0 | 1.4012 | 3.05 | Q | | | | |
| 9+ 5 | 1.4229 | 3.15 | Q | | | | |
| 9+10 | 1.4454 | 3.26 | VQ | | | | |
| 9+15 | 1.4680 | 3.28 | Q | | | | |
| 9+20 | 1.4910 | 3.34 | Q | | | | |
| 9+25 | 1.5144 | 3.40 | Q | | | | |
| 9+30 | 1.5379 | 3.41 | Q | | | | |
| 9+35 | 1.5617 | 3.46 | Q | | | | |
| 9+40 | 1.5859 | 3.52 | Q | | | | |
| 9+45 | 1.6102 | 3.53 | Q | | | | |
| 9+50 | 1.6349 | 3.58 | Q | | | | |
| 9+55 | 1.6600 | 3.64 | Q | | | | |
| 10+ 0 | 1.6851 | 3.65 | Q | | | | |
| 10+ 5 | 1.7077 | 3.29 | Q | V | | | |
| 10+10 | 1.7279 | 2.92 | Q | V | | | |
| 10+15 | 1.7475 | 2.85 | Q | V | | | |
| 10+20 | 1.7669 | 2.82 | Q | V | | | |
| 10+25 | 1.7862 | 2.81 | Q | V | | | |

| | | | | | | | | | |
|-------|--------|------|--|---|---|--|--|--|--|
| 10+30 | 1.8056 | 2.81 | | Q | V | | | | |
| 10+35 | 1.8267 | 3.07 | | Q | V | | | | |
| 10+40 | 1.8497 | 3.33 | | Q | V | | | | |
| 10+45 | 1.8730 | 3.39 | | Q | V | | | | |
| 10+50 | 1.8965 | 3.41 | | Q | V | | | | |
| 10+55 | 1.9200 | 3.41 | | Q | V | | | | |
| 11+ 0 | 1.9435 | 3.41 | | Q | V | | | | |
| 11+ 5 | 1.9666 | 3.36 | | Q | V | | | | |
| 11+10 | 1.9894 | 3.31 | | Q | V | | | | |
| 11+15 | 2.0121 | 3.30 | | Q | V | | | | |
| 11+20 | 2.0348 | 3.29 | | Q | V | | | | |
| 11+25 | 2.0575 | 3.29 | | Q | V | | | | |
| 11+30 | 2.0802 | 3.29 | | Q | V | | | | |
| 11+35 | 2.1021 | 3.19 | | Q | V | | | | |
| 11+40 | 2.1233 | 3.08 | | Q | V | | | | |
| 11+45 | 2.1444 | 3.06 | | Q | V | | | | |
| 11+50 | 2.1658 | 3.11 | | Q | V | | | | |
| 11+55 | 2.1876 | 3.16 | | Q | V | | | | |
| 12+ 0 | 2.2094 | 3.17 | | Q | V | | | | |
| 12+ 5 | 2.2337 | 3.54 | | Q | V | | | | |
| 12+10 | 2.2606 | 3.90 | | Q | V | | | | |
| 12+15 | 2.2880 | 3.98 | | Q | V | | | | |
| 12+20 | 2.3160 | 4.06 | | Q | V | | | | |
| 12+25 | 2.3443 | 4.12 | | Q | V | | | | |
| 12+30 | 2.3728 | 4.13 | | Q | V | | | | |
| 12+35 | 2.4020 | 4.24 | | Q | V | | | | |
| 12+40 | 2.4319 | 4.35 | | Q | V | | | | |
| 12+45 | 2.4620 | 4.37 | | Q | V | | | | |
| 12+50 | 2.4925 | 4.43 | | Q | V | | | | |
| 12+55 | 2.5234 | 4.48 | | Q | V | | | | |
| 13+ 0 | 2.5543 | 4.49 | | Q | V | | | | |
| 13+ 5 | 2.5871 | 4.76 | | Q | V | | | | |
| 13+10 | 2.6217 | 5.02 | | Q | V | | | | |
| 13+15 | 2.6566 | 5.08 | | Q | V | | | | |
| 13+20 | 2.6917 | 5.10 | | Q | V | | | | |
| 13+25 | 2.7269 | 5.10 | | Q | V | | | | |
| 13+30 | 2.7620 | 5.10 | | Q | V | | | | |
| 13+35 | 2.7932 | 4.53 | | Q | V | | | | |
| 13+40 | 2.8204 | 3.95 | | Q | V | | | | |
| 13+45 | 2.8468 | 3.83 | | Q | V | | | | |
| 13+50 | 2.8729 | 3.79 | | Q | V | | | | |
| 13+55 | 2.8989 | 3.77 | | Q | V | | | | |
| 14+ 0 | 2.9249 | 3.77 | | Q | V | | | | |
| 14+ 5 | 2.9523 | 3.98 | | Q | V | | | | |
| 14+10 | 2.9812 | 4.19 | | Q | V | | | | |
| 14+15 | 3.0104 | 4.24 | | Q | V | | | | |
| 14+20 | 3.0393 | 4.20 | | Q | V | | | | |
| 14+25 | 3.0679 | 4.15 | | Q | V | | | | |
| 14+30 | 3.0964 | 4.14 | | Q | V | | | | |
| 14+35 | 3.1249 | 4.14 | | Q | V | | | | |
| 14+40 | 3.1534 | 4.14 | | Q | V | | | | |
| 14+45 | 3.1819 | 4.14 | | Q | V | | | | |
| 14+50 | 3.2100 | 4.08 | | Q | V | | | | |
| 14+55 | 3.2378 | 4.03 | | Q | V | | | | |
| 15+ 0 | 3.2655 | 4.02 | | Q | V | | | | |
| 15+ 5 | 3.2928 | 3.97 | | Q | V | | | | |
| 15+10 | 3.3197 | 3.91 | | Q | V | | | | |
| 15+15 | 3.3466 | 3.90 | | Q | V | | | | |
| 15+20 | 3.3731 | 3.84 | | Q | V | | | | |
| 15+25 | 3.3992 | 3.79 | | Q | V | | | | |

| | | | | | | |
|-------|--------|------|--|---|--|---|
| 15+30 | 3.4252 | 3.78 | | | | V |
| 15+35 | 3.4498 | 3.57 | | | | V |
| 15+40 | 3.4729 | 3.36 | | | | V |
| 15+45 | 3.4957 | 3.31 | | | | V |
| 15+50 | 3.5184 | 3.30 | | | | V |
| 15+55 | 3.5411 | 3.29 | | | | V |
| 16+ 0 | 3.5638 | 3.29 | | | | V |
| 16+ 5 | 3.5811 | 2.51 | | Q | | V |
| 16+10 | 3.5929 | 1.72 | | Q | | V |
| 16+15 | 3.6037 | 1.56 | | Q | | V |
| 16+20 | 3.6140 | 1.50 | | Q | | V |
| 16+25 | 3.6243 | 1.48 | | Q | | V |
| 16+30 | 3.6345 | 1.48 | | Q | | V |
| 16+35 | 3.6443 | 1.43 | | Q | | V |
| 16+40 | 3.6538 | 1.38 | | Q | | V |
| 16+45 | 3.6632 | 1.37 | | Q | | V |
| 16+50 | 3.6726 | 1.36 | | Q | | V |
| 16+55 | 3.6820 | 1.36 | | Q | | V |
| 17+ 0 | 3.6914 | 1.36 | | Q | | V |
| 17+ 5 | 3.7015 | 1.47 | | Q | | V |
| 17+10 | 3.7123 | 1.57 | | Q | | V |
| 17+15 | 3.7233 | 1.59 | | Q | | V |
| 17+20 | 3.7343 | 1.60 | | Q | | V |
| 17+25 | 3.7453 | 1.60 | | Q | | V |
| 17+30 | 3.7564 | 1.60 | | Q | | V |
| 17+35 | 3.7674 | 1.60 | | Q | | V |
| 17+40 | 3.7784 | 1.60 | | Q | | V |
| 17+45 | 3.7895 | 1.60 | | Q | | V |
| 17+50 | 3.8002 | 1.55 | | Q | | V |
| 17+55 | 3.8105 | 1.50 | | Q | | V |
| 18+ 0 | 3.8207 | 1.49 | | Q | | V |
| 18+ 5 | 3.8310 | 1.48 | | Q | | V |
| 18+10 | 3.8412 | 1.48 | | Q | | V |
| 18+15 | 3.8514 | 1.48 | | Q | | V |
| 18+20 | 3.8616 | 1.48 | | Q | | V |
| 18+25 | 3.8718 | 1.48 | | Q | | V |
| 18+30 | 3.8820 | 1.48 | | Q | | V |
| 18+35 | 3.8919 | 1.43 | | Q | | V |
| 18+40 | 3.9013 | 1.38 | | Q | | V |
| 18+45 | 3.9108 | 1.37 | | Q | | V |
| 18+50 | 3.9198 | 1.31 | | Q | | V |
| 18+55 | 3.9285 | 1.26 | | Q | | V |
| 19+ 0 | 3.9370 | 1.25 | | Q | | V |
| 19+ 5 | 3.9460 | 1.29 | | Q | | V |
| 19+10 | 3.9552 | 1.35 | | Q | | V |
| 19+15 | 3.9646 | 1.36 | | Q | | V |
| 19+20 | 3.9743 | 1.41 | | Q | | V |
| 19+25 | 3.9844 | 1.47 | | Q | | V |
| 19+30 | 3.9946 | 1.48 | | Q | | V |
| 19+35 | 4.0044 | 1.43 | | Q | | V |
| 19+40 | 4.0139 | 1.38 | | Q | | V |
| 19+45 | 4.0233 | 1.37 | | Q | | V |
| 19+50 | 4.0324 | 1.31 | | Q | | V |
| 19+55 | 4.0410 | 1.26 | | Q | | V |
| 20+ 0 | 4.0496 | 1.25 | | Q | | V |
| 20+ 5 | 4.0585 | 1.29 | | Q | | V |
| 20+10 | 4.0678 | 1.35 | | Q | | V |
| 20+15 | 4.0771 | 1.36 | | Q | | V |
| 20+20 | 4.0865 | 1.36 | | Q | | V |
| 20+25 | 4.0959 | 1.36 | | Q | | V |

| | | | | | | |
|-------|--------|------|---|--|--|---|
| 20+30 | 4.1053 | 1.36 | Q | | | V |
| 20+35 | 4.1146 | 1.36 | Q | | | V |
| 20+40 | 4.1240 | 1.36 | Q | | | V |
| 20+45 | 4.1334 | 1.36 | Q | | | V |
| 20+50 | 4.1424 | 1.31 | Q | | | V |
| 20+55 | 4.1511 | 1.26 | Q | | | V |
| 21+ 0 | 4.1597 | 1.25 | Q | | | V |
| 21+ 5 | 4.1686 | 1.29 | Q | | | V |
| 21+10 | 4.1778 | 1.35 | Q | | | V |
| 21+15 | 4.1872 | 1.36 | Q | | | V |
| 21+20 | 4.1962 | 1.31 | Q | | | V |
| 21+25 | 4.2049 | 1.26 | Q | | | V |
| 21+30 | 4.2134 | 1.25 | Q | | | V |
| 21+35 | 4.2224 | 1.29 | Q | | | V |
| 21+40 | 4.2316 | 1.35 | Q | | | V |
| 21+45 | 4.2410 | 1.36 | Q | | | V |
| 21+50 | 4.2500 | 1.31 | Q | | | V |
| 21+55 | 4.2586 | 1.26 | Q | | | V |
| 22+ 0 | 4.2672 | 1.25 | Q | | | V |
| 22+ 5 | 4.2762 | 1.29 | Q | | | V |
| 22+10 | 4.2854 | 1.35 | Q | | | V |
| 22+15 | 4.2948 | 1.36 | Q | | | V |
| 22+20 | 4.3038 | 1.31 | Q | | | V |
| 22+25 | 4.3124 | 1.26 | Q | | | V |
| 22+30 | 4.3210 | 1.25 | Q | | | V |
| 22+35 | 4.3296 | 1.24 | Q | | | V |
| 22+40 | 4.3381 | 1.24 | Q | | | V |
| 22+45 | 4.3467 | 1.24 | Q | | | V |
| 22+50 | 4.3552 | 1.24 | Q | | | V |
| 22+55 | 4.3638 | 1.24 | Q | | | V |
| 23+ 0 | 4.3723 | 1.24 | Q | | | V |
| 23+ 5 | 4.3809 | 1.24 | Q | | | V |
| 23+10 | 4.3894 | 1.24 | Q | | | V |
| 23+15 | 4.3980 | 1.24 | Q | | | V |
| 23+20 | 4.4065 | 1.24 | Q | | | V |
| 23+25 | 4.4151 | 1.24 | Q | | | V |
| 23+30 | 4.4236 | 1.24 | Q | | | V |
| 23+35 | 4.4322 | 1.24 | Q | | | V |
| 23+40 | 4.4407 | 1.24 | Q | | | V |
| 23+45 | 4.4493 | 1.24 | Q | | | V |
| 23+50 | 4.4578 | 1.24 | Q | | | V |
| 23+55 | 4.4664 | 1.24 | Q | | | V |
| 24+ 0 | 4.4749 | 1.24 | Q | | | V |
| 24+ 5 | 4.4827 | 1.14 | Q | | | V |
| 24+10 | 4.4898 | 1.03 | Q | | | V |
| 24+15 | 4.4968 | 1.01 | Q | | | V |
| 24+20 | 4.5037 | 1.00 | Q | | | V |

Unit Hydrograph Analysis

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Study date 03/31/22 File: 20750BPB24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6310

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

20-750 Building B
Proposed Area B
100 year 24 hour

Drainage Area = 22.80 (Ac.) = 0.036 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 22.80 (Ac.) = 0.036
Sq. Mi.
Length along longest watercourse = 1736.00 (Ft.)
Length along longest watercourse measured to centroid = 355.00 (Ft.)
Length along longest watercourse = 0.329 Mi.
Length along longest watercourse measured to centroid = 0.067 Mi.
Difference in elevation = 13.50 (Ft.)
Slope along watercourse = 41.0599 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.042 Hr.
Lag time = 2.51 Min.
25% of lag time = 0.63 Min.
40% of lag time = 1.00 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00 (CFS)

2 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 22.80 | 1.60 | 36.48 |

100 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 22.80 | 4.00 | 91.20 |

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.600 (In)
 Area Averaged 100-Year Rainfall = 4.000 (In)

Point rain (area averaged) = 4.000 (In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 4.000 (In)

Sub-Area Data:

Area (Ac.) Runoff Index Impervious %
 22.800 69.00 0.900
 Total Area Entered = 22.80 (Ac.)

| | | | | | | |
|------|-------|-------------|------------|------------------|--------|-----------------|
| RI | RI | Infil. Rate | Impervious | Adj. Infil. Rate | Area% | F |
| AMC2 | AMC-3 | (In/Hr) | (Dec.%) | (In/Hr) | (Dec.) | (In/Hr) |
| 69.0 | 84.4 | 0.194 | 0.900 | 0.037 | 1.000 | 0.037 |
| | | | | | | Sum (F) = 0.037 |

Area averaged mean soil loss (F) (In/Hr) = 0.109

Minimum soil loss rate ((In/Hr)) = 0.055

(for 24 hour storm duration)

Note: User entry of the f value

Soil low loss rate (decimal) = 0.180

U n i t H y d r o g r a p h
 VALLEY S-Curve

Unit Hydrograph Data

| Unit time period (hrs) | Time % of lag | Distribution Graph % | Unit Hydrograph (CFS) |
|---------------------------|---------------|-------------------------|--------------------------|
| 1 | 0.083 | 199.596 | 9.957 |
| 2 | 0.167 | 399.192 | 9.972 |
| 3 | 0.250 | 598.788 | 2.024 |
| 4 | 0.333 | 798.384 | 0.786 |
| 5 | 0.417 | 997.980 | 0.239 |
| | | Sum = 100.000 | Sum= 22.978 |

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

| Unit Time (Hr.) | Pattern Percent | Storm Rain (In/Hr) | Loss rate (In./Hr) | | Effective (In/Hr) |
|--------------------|--------------------|-----------------------|--------------------|-------|----------------------|
| | | | Max | Low | |
| 1 | 0.08 | 0.032 | (0.193) | 0.006 | 0.026 |
| 2 | 0.17 | 0.032 | (0.193) | 0.006 | 0.026 |
| 3 | 0.25 | 0.032 | (0.192) | 0.006 | 0.026 |
| 4 | 0.33 | 0.048 | (0.191) | 0.009 | 0.039 |
| 5 | 0.42 | 0.048 | (0.190) | 0.009 | 0.039 |
| 6 | 0.50 | 0.048 | (0.190) | 0.009 | 0.039 |
| 7 | 0.58 | 0.048 | (0.189) | 0.009 | 0.039 |
| 8 | 0.67 | 0.048 | (0.188) | 0.009 | 0.039 |
| 9 | 0.75 | 0.048 | (0.187) | 0.009 | 0.039 |
| 10 | 0.83 | 0.064 | (0.187) | 0.012 | 0.052 |
| 11 | 0.92 | 0.064 | (0.186) | 0.012 | 0.052 |
| 12 | 1.00 | 0.064 | (0.185) | 0.012 | 0.052 |
| 13 | 1.08 | 0.048 | (0.184) | 0.009 | 0.039 |

| | | | | | | |
|----|------|------|-------|----------|-------|-------|
| 14 | 1.17 | 0.10 | 0.048 | (0.184) | 0.009 | 0.039 |
| 15 | 1.25 | 0.10 | 0.048 | (0.183) | 0.009 | 0.039 |
| 16 | 1.33 | 0.10 | 0.048 | (0.182) | 0.009 | 0.039 |
| 17 | 1.42 | 0.10 | 0.048 | (0.182) | 0.009 | 0.039 |
| 18 | 1.50 | 0.10 | 0.048 | (0.181) | 0.009 | 0.039 |
| 19 | 1.58 | 0.10 | 0.048 | (0.180) | 0.009 | 0.039 |
| 20 | 1.67 | 0.10 | 0.048 | (0.179) | 0.009 | 0.039 |
| 21 | 1.75 | 0.10 | 0.048 | (0.179) | 0.009 | 0.039 |
| 22 | 1.83 | 0.13 | 0.064 | (0.178) | 0.012 | 0.052 |
| 23 | 1.92 | 0.13 | 0.064 | (0.177) | 0.012 | 0.052 |
| 24 | 2.00 | 0.13 | 0.064 | (0.176) | 0.012 | 0.052 |
| 25 | 2.08 | 0.13 | 0.064 | (0.176) | 0.012 | 0.052 |
| 26 | 2.17 | 0.13 | 0.064 | (0.175) | 0.012 | 0.052 |
| 27 | 2.25 | 0.13 | 0.064 | (0.174) | 0.012 | 0.052 |
| 28 | 2.33 | 0.13 | 0.064 | (0.174) | 0.012 | 0.052 |
| 29 | 2.42 | 0.13 | 0.064 | (0.173) | 0.012 | 0.052 |
| 30 | 2.50 | 0.13 | 0.064 | (0.172) | 0.012 | 0.052 |
| 31 | 2.58 | 0.17 | 0.080 | (0.172) | 0.014 | 0.066 |
| 32 | 2.67 | 0.17 | 0.080 | (0.171) | 0.014 | 0.066 |
| 33 | 2.75 | 0.17 | 0.080 | (0.170) | 0.014 | 0.066 |
| 34 | 2.83 | 0.17 | 0.080 | (0.169) | 0.014 | 0.066 |
| 35 | 2.92 | 0.17 | 0.080 | (0.169) | 0.014 | 0.066 |
| 36 | 3.00 | 0.17 | 0.080 | (0.168) | 0.014 | 0.066 |
| 37 | 3.08 | 0.17 | 0.080 | (0.167) | 0.014 | 0.066 |
| 38 | 3.17 | 0.17 | 0.080 | (0.167) | 0.014 | 0.066 |
| 39 | 3.25 | 0.17 | 0.080 | (0.166) | 0.014 | 0.066 |
| 40 | 3.33 | 0.17 | 0.080 | (0.165) | 0.014 | 0.066 |
| 41 | 3.42 | 0.17 | 0.080 | (0.165) | 0.014 | 0.066 |
| 42 | 3.50 | 0.17 | 0.080 | (0.164) | 0.014 | 0.066 |
| 43 | 3.58 | 0.17 | 0.080 | (0.163) | 0.014 | 0.066 |
| 44 | 3.67 | 0.17 | 0.080 | (0.162) | 0.014 | 0.066 |
| 45 | 3.75 | 0.17 | 0.080 | (0.162) | 0.014 | 0.066 |
| 46 | 3.83 | 0.20 | 0.096 | (0.161) | 0.017 | 0.079 |
| 47 | 3.92 | 0.20 | 0.096 | (0.160) | 0.017 | 0.079 |
| 48 | 4.00 | 0.20 | 0.096 | (0.160) | 0.017 | 0.079 |
| 49 | 4.08 | 0.20 | 0.096 | (0.159) | 0.017 | 0.079 |
| 50 | 4.17 | 0.20 | 0.096 | (0.158) | 0.017 | 0.079 |
| 51 | 4.25 | 0.20 | 0.096 | (0.158) | 0.017 | 0.079 |
| 52 | 4.33 | 0.23 | 0.112 | (0.157) | 0.020 | 0.092 |
| 53 | 4.42 | 0.23 | 0.112 | (0.156) | 0.020 | 0.092 |
| 54 | 4.50 | 0.23 | 0.112 | (0.156) | 0.020 | 0.092 |
| 55 | 4.58 | 0.23 | 0.112 | (0.155) | 0.020 | 0.092 |
| 56 | 4.67 | 0.23 | 0.112 | (0.154) | 0.020 | 0.092 |
| 57 | 4.75 | 0.23 | 0.112 | (0.154) | 0.020 | 0.092 |
| 58 | 4.83 | 0.27 | 0.128 | (0.153) | 0.023 | 0.105 |
| 59 | 4.92 | 0.27 | 0.128 | (0.152) | 0.023 | 0.105 |
| 60 | 5.00 | 0.27 | 0.128 | (0.152) | 0.023 | 0.105 |
| 61 | 5.08 | 0.20 | 0.096 | (0.151) | 0.017 | 0.079 |
| 62 | 5.17 | 0.20 | 0.096 | (0.150) | 0.017 | 0.079 |
| 63 | 5.25 | 0.20 | 0.096 | (0.150) | 0.017 | 0.079 |
| 64 | 5.33 | 0.23 | 0.112 | (0.149) | 0.020 | 0.092 |
| 65 | 5.42 | 0.23 | 0.112 | (0.148) | 0.020 | 0.092 |
| 66 | 5.50 | 0.23 | 0.112 | (0.148) | 0.020 | 0.092 |
| 67 | 5.58 | 0.27 | 0.128 | (0.147) | 0.023 | 0.105 |
| 68 | 5.67 | 0.27 | 0.128 | (0.147) | 0.023 | 0.105 |
| 69 | 5.75 | 0.27 | 0.128 | (0.146) | 0.023 | 0.105 |
| 70 | 5.83 | 0.27 | 0.128 | (0.145) | 0.023 | 0.105 |
| 71 | 5.92 | 0.27 | 0.128 | (0.145) | 0.023 | 0.105 |
| 72 | 6.00 | 0.27 | 0.128 | (0.144) | 0.023 | 0.105 |
| 73 | 6.08 | 0.30 | 0.144 | (0.143) | 0.026 | 0.118 |

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|-----|-------|------|-------|----------|-------|-------|
| 74 | 6.17 | 0.30 | 0.144 | (0.143) | 0.026 | 0.118 |
| 75 | 6.25 | 0.30 | 0.144 | (0.142) | 0.026 | 0.118 |
| 76 | 6.33 | 0.30 | 0.144 | (0.141) | 0.026 | 0.118 |
| 77 | 6.42 | 0.30 | 0.144 | (0.141) | 0.026 | 0.118 |
| 78 | 6.50 | 0.30 | 0.144 | (0.140) | 0.026 | 0.118 |
| 79 | 6.58 | 0.33 | 0.160 | (0.140) | 0.029 | 0.131 |
| 80 | 6.67 | 0.33 | 0.160 | (0.139) | 0.029 | 0.131 |
| 81 | 6.75 | 0.33 | 0.160 | (0.138) | 0.029 | 0.131 |
| 82 | 6.83 | 0.33 | 0.160 | (0.138) | 0.029 | 0.131 |
| 83 | 6.92 | 0.33 | 0.160 | (0.137) | 0.029 | 0.131 |
| 84 | 7.00 | 0.33 | 0.160 | (0.136) | 0.029 | 0.131 |
| 85 | 7.08 | 0.33 | 0.160 | (0.136) | 0.029 | 0.131 |
| 86 | 7.17 | 0.33 | 0.160 | (0.135) | 0.029 | 0.131 |
| 87 | 7.25 | 0.33 | 0.160 | (0.135) | 0.029 | 0.131 |
| 88 | 7.33 | 0.37 | 0.176 | (0.134) | 0.032 | 0.144 |
| 89 | 7.42 | 0.37 | 0.176 | (0.133) | 0.032 | 0.144 |
| 90 | 7.50 | 0.37 | 0.176 | (0.133) | 0.032 | 0.144 |
| 91 | 7.58 | 0.40 | 0.192 | (0.132) | 0.035 | 0.157 |
| 92 | 7.67 | 0.40 | 0.192 | (0.131) | 0.035 | 0.157 |
| 93 | 7.75 | 0.40 | 0.192 | (0.131) | 0.035 | 0.157 |
| 94 | 7.83 | 0.43 | 0.208 | (0.130) | 0.037 | 0.171 |
| 95 | 7.92 | 0.43 | 0.208 | (0.130) | 0.037 | 0.171 |
| 96 | 8.00 | 0.43 | 0.208 | (0.129) | 0.037 | 0.171 |
| 97 | 8.08 | 0.50 | 0.240 | (0.128) | 0.043 | 0.197 |
| 98 | 8.17 | 0.50 | 0.240 | (0.128) | 0.043 | 0.197 |
| 99 | 8.25 | 0.50 | 0.240 | (0.127) | 0.043 | 0.197 |
| 100 | 8.33 | 0.50 | 0.240 | (0.127) | 0.043 | 0.197 |
| 101 | 8.42 | 0.50 | 0.240 | (0.126) | 0.043 | 0.197 |
| 102 | 8.50 | 0.50 | 0.240 | (0.125) | 0.043 | 0.197 |
| 103 | 8.58 | 0.53 | 0.256 | (0.125) | 0.046 | 0.210 |
| 104 | 8.67 | 0.53 | 0.256 | (0.124) | 0.046 | 0.210 |
| 105 | 8.75 | 0.53 | 0.256 | (0.124) | 0.046 | 0.210 |
| 106 | 8.83 | 0.57 | 0.272 | (0.123) | 0.049 | 0.223 |
| 107 | 8.92 | 0.57 | 0.272 | (0.123) | 0.049 | 0.223 |
| 108 | 9.00 | 0.57 | 0.272 | (0.122) | 0.049 | 0.223 |
| 109 | 9.08 | 0.63 | 0.304 | (0.121) | 0.055 | 0.249 |
| 110 | 9.17 | 0.63 | 0.304 | (0.121) | 0.055 | 0.249 |
| 111 | 9.25 | 0.63 | 0.304 | (0.120) | 0.055 | 0.249 |
| 112 | 9.33 | 0.67 | 0.320 | (0.120) | 0.058 | 0.262 |
| 113 | 9.42 | 0.67 | 0.320 | (0.119) | 0.058 | 0.262 |
| 114 | 9.50 | 0.67 | 0.320 | (0.119) | 0.058 | 0.262 |
| 115 | 9.58 | 0.70 | 0.336 | (0.118) | 0.060 | 0.276 |
| 116 | 9.67 | 0.70 | 0.336 | (0.117) | 0.060 | 0.276 |
| 117 | 9.75 | 0.70 | 0.336 | (0.117) | 0.060 | 0.276 |
| 118 | 9.83 | 0.73 | 0.352 | (0.116) | 0.063 | 0.289 |
| 119 | 9.92 | 0.73 | 0.352 | (0.116) | 0.063 | 0.289 |
| 120 | 10.00 | 0.73 | 0.352 | (0.115) | 0.063 | 0.289 |
| 121 | 10.08 | 0.50 | 0.240 | (0.115) | 0.043 | 0.197 |
| 122 | 10.17 | 0.50 | 0.240 | (0.114) | 0.043 | 0.197 |
| 123 | 10.25 | 0.50 | 0.240 | (0.113) | 0.043 | 0.197 |
| 124 | 10.33 | 0.50 | 0.240 | (0.113) | 0.043 | 0.197 |
| 125 | 10.42 | 0.50 | 0.240 | (0.112) | 0.043 | 0.197 |
| 126 | 10.50 | 0.50 | 0.240 | (0.112) | 0.043 | 0.197 |
| 127 | 10.58 | 0.67 | 0.320 | (0.111) | 0.058 | 0.262 |
| 128 | 10.67 | 0.67 | 0.320 | (0.111) | 0.058 | 0.262 |
| 129 | 10.75 | 0.67 | 0.320 | (0.110) | 0.058 | 0.262 |
| 130 | 10.83 | 0.67 | 0.320 | (0.110) | 0.058 | 0.262 |
| 131 | 10.92 | 0.67 | 0.320 | (0.109) | 0.058 | 0.262 |
| 132 | 11.00 | 0.67 | 0.320 | (0.109) | 0.058 | 0.262 |
| 133 | 11.08 | 0.63 | 0.304 | (0.108) | 0.055 | 0.249 |

| | | | | | | |
|-----|-------|------|-------|----------------|-------|-------|
| 134 | 11.17 | 0.63 | 0.304 | (0.108) | 0.055 | 0.249 |
| 135 | 11.25 | 0.63 | 0.304 | (0.107) | 0.055 | 0.249 |
| 136 | 11.33 | 0.63 | 0.304 | (0.106) | 0.055 | 0.249 |
| 137 | 11.42 | 0.63 | 0.304 | (0.106) | 0.055 | 0.249 |
| 138 | 11.50 | 0.63 | 0.304 | (0.105) | 0.055 | 0.249 |
| 139 | 11.58 | 0.57 | 0.272 | (0.105) | 0.049 | 0.223 |
| 140 | 11.67 | 0.57 | 0.272 | (0.104) | 0.049 | 0.223 |
| 141 | 11.75 | 0.57 | 0.272 | (0.104) | 0.049 | 0.223 |
| 142 | 11.83 | 0.60 | 0.288 | (0.103) | 0.052 | 0.236 |
| 143 | 11.92 | 0.60 | 0.288 | (0.103) | 0.052 | 0.236 |
| 144 | 12.00 | 0.60 | 0.288 | (0.102) | 0.052 | 0.236 |
| 145 | 12.08 | 0.83 | 0.400 | (0.102) | 0.072 | 0.328 |
| 146 | 12.17 | 0.83 | 0.400 | (0.101) | 0.072 | 0.328 |
| 147 | 12.25 | 0.83 | 0.400 | (0.101) | 0.072 | 0.328 |
| 148 | 12.33 | 0.87 | 0.416 | (0.100) | 0.075 | 0.341 |
| 149 | 12.42 | 0.87 | 0.416 | (0.100) | 0.075 | 0.341 |
| 150 | 12.50 | 0.87 | 0.416 | (0.099) | 0.075 | 0.341 |
| 151 | 12.58 | 0.93 | 0.448 | (0.099) | 0.081 | 0.367 |
| 152 | 12.67 | 0.93 | 0.448 | (0.098) | 0.081 | 0.367 |
| 153 | 12.75 | 0.93 | 0.448 | (0.098) | 0.081 | 0.367 |
| 154 | 12.83 | 0.97 | 0.464 | (0.097) | 0.084 | 0.380 |
| 155 | 12.92 | 0.97 | 0.464 | (0.097) | 0.084 | 0.380 |
| 156 | 13.00 | 0.97 | 0.464 | (0.096) | 0.084 | 0.380 |
| 157 | 13.08 | 1.13 | 0.544 | 0.096 (0.098) | | 0.448 |
| 158 | 13.17 | 1.13 | 0.544 | 0.095 (0.098) | | 0.449 |
| 159 | 13.25 | 1.13 | 0.544 | 0.095 (0.098) | | 0.449 |
| 160 | 13.33 | 1.13 | 0.544 | 0.094 (0.098) | | 0.450 |
| 161 | 13.42 | 1.13 | 0.544 | 0.094 (0.098) | | 0.450 |
| 162 | 13.50 | 1.13 | 0.544 | 0.093 (0.098) | | 0.451 |
| 163 | 13.58 | 0.77 | 0.368 | (0.093) | 0.066 | 0.302 |
| 164 | 13.67 | 0.77 | 0.368 | (0.092) | 0.066 | 0.302 |
| 165 | 13.75 | 0.77 | 0.368 | (0.092) | 0.066 | 0.302 |
| 166 | 13.83 | 0.77 | 0.368 | (0.092) | 0.066 | 0.302 |
| 167 | 13.92 | 0.77 | 0.368 | (0.091) | 0.066 | 0.302 |
| 168 | 14.00 | 0.77 | 0.368 | (0.091) | 0.066 | 0.302 |
| 169 | 14.08 | 0.90 | 0.432 | (0.090) | 0.078 | 0.354 |
| 170 | 14.17 | 0.90 | 0.432 | (0.090) | 0.078 | 0.354 |
| 171 | 14.25 | 0.90 | 0.432 | (0.089) | 0.078 | 0.354 |
| 172 | 14.33 | 0.87 | 0.416 | (0.089) | 0.075 | 0.341 |
| 173 | 14.42 | 0.87 | 0.416 | (0.088) | 0.075 | 0.341 |
| 174 | 14.50 | 0.87 | 0.416 | (0.088) | 0.075 | 0.341 |
| 175 | 14.58 | 0.87 | 0.416 | (0.087) | 0.075 | 0.341 |
| 176 | 14.67 | 0.87 | 0.416 | (0.087) | 0.075 | 0.341 |
| 177 | 14.75 | 0.87 | 0.416 | (0.086) | 0.075 | 0.341 |
| 178 | 14.83 | 0.83 | 0.400 | (0.086) | 0.072 | 0.328 |
| 179 | 14.92 | 0.83 | 0.400 | (0.086) | 0.072 | 0.328 |
| 180 | 15.00 | 0.83 | 0.400 | (0.085) | 0.072 | 0.328 |
| 181 | 15.08 | 0.80 | 0.384 | (0.085) | 0.069 | 0.315 |
| 182 | 15.17 | 0.80 | 0.384 | (0.084) | 0.069 | 0.315 |
| 183 | 15.25 | 0.80 | 0.384 | (0.084) | 0.069 | 0.315 |
| 184 | 15.33 | 0.77 | 0.368 | (0.083) | 0.066 | 0.302 |
| 185 | 15.42 | 0.77 | 0.368 | (0.083) | 0.066 | 0.302 |
| 186 | 15.50 | 0.77 | 0.368 | (0.083) | 0.066 | 0.302 |
| 187 | 15.58 | 0.63 | 0.304 | (0.082) | 0.055 | 0.249 |
| 188 | 15.67 | 0.63 | 0.304 | (0.082) | 0.055 | 0.249 |
| 189 | 15.75 | 0.63 | 0.304 | (0.081) | 0.055 | 0.249 |
| 190 | 15.83 | 0.63 | 0.304 | (0.081) | 0.055 | 0.249 |
| 191 | 15.92 | 0.63 | 0.304 | (0.080) | 0.055 | 0.249 |
| 192 | 16.00 | 0.63 | 0.304 | (0.080) | 0.055 | 0.249 |
| 193 | 16.08 | 0.13 | 0.064 | (0.080) | 0.012 | 0.052 |

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|-----|-------|------|-------|----------|-------|-------|
| 194 | 16.17 | 0.13 | 0.064 | (0.079) | 0.012 | 0.052 |
| 195 | 16.25 | 0.13 | 0.064 | (0.079) | 0.012 | 0.052 |
| 196 | 16.33 | 0.13 | 0.064 | (0.078) | 0.012 | 0.052 |
| 197 | 16.42 | 0.13 | 0.064 | (0.078) | 0.012 | 0.052 |
| 198 | 16.50 | 0.13 | 0.064 | (0.078) | 0.012 | 0.052 |
| 199 | 16.58 | 0.10 | 0.048 | (0.077) | 0.009 | 0.039 |
| 200 | 16.67 | 0.10 | 0.048 | (0.077) | 0.009 | 0.039 |
| 201 | 16.75 | 0.10 | 0.048 | (0.076) | 0.009 | 0.039 |
| 202 | 16.83 | 0.10 | 0.048 | (0.076) | 0.009 | 0.039 |
| 203 | 16.92 | 0.10 | 0.048 | (0.076) | 0.009 | 0.039 |
| 204 | 17.00 | 0.10 | 0.048 | (0.075) | 0.009 | 0.039 |
| 205 | 17.08 | 0.17 | 0.080 | (0.075) | 0.014 | 0.066 |
| 206 | 17.17 | 0.17 | 0.080 | (0.075) | 0.014 | 0.066 |
| 207 | 17.25 | 0.17 | 0.080 | (0.074) | 0.014 | 0.066 |
| 208 | 17.33 | 0.17 | 0.080 | (0.074) | 0.014 | 0.066 |
| 209 | 17.42 | 0.17 | 0.080 | (0.073) | 0.014 | 0.066 |
| 210 | 17.50 | 0.17 | 0.080 | (0.073) | 0.014 | 0.066 |
| 211 | 17.58 | 0.17 | 0.080 | (0.073) | 0.014 | 0.066 |
| 212 | 17.67 | 0.17 | 0.080 | (0.072) | 0.014 | 0.066 |
| 213 | 17.75 | 0.17 | 0.080 | (0.072) | 0.014 | 0.066 |
| 214 | 17.83 | 0.13 | 0.064 | (0.072) | 0.012 | 0.052 |
| 215 | 17.92 | 0.13 | 0.064 | (0.071) | 0.012 | 0.052 |
| 216 | 18.00 | 0.13 | 0.064 | (0.071) | 0.012 | 0.052 |
| 217 | 18.08 | 0.13 | 0.064 | (0.071) | 0.012 | 0.052 |
| 218 | 18.17 | 0.13 | 0.064 | (0.070) | 0.012 | 0.052 |
| 219 | 18.25 | 0.13 | 0.064 | (0.070) | 0.012 | 0.052 |
| 220 | 18.33 | 0.13 | 0.064 | (0.070) | 0.012 | 0.052 |
| 221 | 18.42 | 0.13 | 0.064 | (0.069) | 0.012 | 0.052 |
| 222 | 18.50 | 0.13 | 0.064 | (0.069) | 0.012 | 0.052 |
| 223 | 18.58 | 0.10 | 0.048 | (0.069) | 0.009 | 0.039 |
| 224 | 18.67 | 0.10 | 0.048 | (0.068) | 0.009 | 0.039 |
| 225 | 18.75 | 0.10 | 0.048 | (0.068) | 0.009 | 0.039 |
| 226 | 18.83 | 0.07 | 0.032 | (0.068) | 0.006 | 0.026 |
| 227 | 18.92 | 0.07 | 0.032 | (0.067) | 0.006 | 0.026 |
| 228 | 19.00 | 0.07 | 0.032 | (0.067) | 0.006 | 0.026 |
| 229 | 19.08 | 0.10 | 0.048 | (0.067) | 0.009 | 0.039 |
| 230 | 19.17 | 0.10 | 0.048 | (0.066) | 0.009 | 0.039 |
| 231 | 19.25 | 0.10 | 0.048 | (0.066) | 0.009 | 0.039 |
| 232 | 19.33 | 0.13 | 0.064 | (0.066) | 0.012 | 0.052 |
| 233 | 19.42 | 0.13 | 0.064 | (0.065) | 0.012 | 0.052 |
| 234 | 19.50 | 0.13 | 0.064 | (0.065) | 0.012 | 0.052 |
| 235 | 19.58 | 0.10 | 0.048 | (0.065) | 0.009 | 0.039 |
| 236 | 19.67 | 0.10 | 0.048 | (0.064) | 0.009 | 0.039 |
| 237 | 19.75 | 0.10 | 0.048 | (0.064) | 0.009 | 0.039 |
| 238 | 19.83 | 0.07 | 0.032 | (0.064) | 0.006 | 0.026 |
| 239 | 19.92 | 0.07 | 0.032 | (0.064) | 0.006 | 0.026 |
| 240 | 20.00 | 0.07 | 0.032 | (0.063) | 0.006 | 0.026 |
| 241 | 20.08 | 0.10 | 0.048 | (0.063) | 0.009 | 0.039 |
| 242 | 20.17 | 0.10 | 0.048 | (0.063) | 0.009 | 0.039 |
| 243 | 20.25 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 244 | 20.33 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 245 | 20.42 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 246 | 20.50 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 247 | 20.58 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 248 | 20.67 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 249 | 20.75 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 250 | 20.83 | 0.07 | 0.032 | (0.061) | 0.006 | 0.026 |
| 251 | 20.92 | 0.07 | 0.032 | (0.060) | 0.006 | 0.026 |
| 252 | 21.00 | 0.07 | 0.032 | (0.060) | 0.006 | 0.026 |
| 253 | 21.08 | 0.10 | 0.048 | (0.060) | 0.009 | 0.039 |

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|------|--------|------|-----|--|--|--|--|
| 0+25 | 0.0203 | 0.86 | VQ | | | | |
| 0+30 | 0.0265 | 0.89 | VQ | | | | |
| 0+35 | 0.0327 | 0.90 | VQ | | | | |
| 0+40 | 0.0389 | 0.90 | VQ | | | | |
| 0+45 | 0.0452 | 0.90 | VQ | | | | |
| 0+50 | 0.0523 | 1.04 | V Q | | | | |
| 0+55 | 0.0603 | 1.17 | V Q | | | | |
| 1+ 0 | 0.0685 | 1.19 | V Q | | | | |
| 1+ 5 | 0.0759 | 1.07 | V Q | | | | |
| 1+10 | 0.0824 | 0.94 | VQ | | | | |
| 1+15 | 0.0888 | 0.92 | VQ | | | | |
| 1+20 | 0.0950 | 0.91 | VQ | | | | |
| 1+25 | 0.1012 | 0.90 | VQ | | | | |
| 1+30 | 0.1075 | 0.90 | VQ | | | | |
| 1+35 | 0.1137 | 0.90 | VQ | | | | |
| 1+40 | 0.1199 | 0.90 | VQ | | | | |
| 1+45 | 0.1262 | 0.90 | VQ | | | | |
| 1+50 | 0.1333 | 1.04 | V Q | | | | |
| 1+55 | 0.1413 | 1.17 | V Q | | | | |
| 2+ 0 | 0.1495 | 1.19 | V Q | | | | |
| 2+ 5 | 0.1578 | 1.20 | VQ | | | | |
| 2+10 | 0.1661 | 1.21 | VQ | | | | |
| 2+15 | 0.1745 | 1.21 | VQ | | | | |
| 2+20 | 0.1828 | 1.21 | VQ | | | | |
| 2+25 | 0.1911 | 1.21 | VQ | | | | |
| 2+30 | 0.1994 | 1.21 | VQ | | | | |
| 2+35 | 0.2086 | 1.34 | VQ | | | | |
| 2+40 | 0.2187 | 1.47 | VQ | | | | |
| 2+45 | 0.2290 | 1.49 | VQ | | | | |
| 2+50 | 0.2394 | 1.50 | V Q | | | | |
| 2+55 | 0.2497 | 1.51 | V Q | | | | |
| 3+ 0 | 0.2601 | 1.51 | V Q | | | | |
| 3+ 5 | 0.2705 | 1.51 | V Q | | | | |
| 3+10 | 0.2809 | 1.51 | V Q | | | | |
| 3+15 | 0.2913 | 1.51 | V Q | | | | |
| 3+20 | 0.3017 | 1.51 | V Q | | | | |
| 3+25 | 0.3121 | 1.51 | VQ | | | | |
| 3+30 | 0.3224 | 1.51 | VQ | | | | |
| 3+35 | 0.3328 | 1.51 | VQ | | | | |
| 3+40 | 0.3432 | 1.51 | VQ | | | | |
| 3+45 | 0.3536 | 1.51 | VQ | | | | |
| 3+50 | 0.3649 | 1.64 | VQ | | | | |
| 3+55 | 0.3771 | 1.77 | VQ | | | | |
| 4+ 0 | 0.3894 | 1.80 | VQ | | | | |
| 4+ 5 | 0.4019 | 1.81 | VQ | | | | |
| 4+10 | 0.4144 | 1.81 | VQ | | | | |
| 4+15 | 0.4268 | 1.81 | VQ | | | | |
| 4+20 | 0.4402 | 1.94 | VQ | | | | |
| 4+25 | 0.4544 | 2.07 | V Q | | | | |
| 4+30 | 0.4689 | 2.10 | VQ | | | | |
| 4+35 | 0.4834 | 2.11 | VQ | | | | |
| 4+40 | 0.4980 | 2.11 | VQ | | | | |
| 4+45 | 0.5125 | 2.11 | VQ | | | | |
| 4+50 | 0.5279 | 2.24 | VQ | | | | |
| 4+55 | 0.5443 | 2.37 | VQ | | | | |
| 5+ 0 | 0.5608 | 2.40 | VQ | | | | |
| 5+ 5 | 0.5756 | 2.15 | VQ | | | | |
| 5+10 | 0.5886 | 1.89 | Q | | | | |
| 5+15 | 0.6013 | 1.84 | Q | | | | |
| 5+20 | 0.6147 | 1.95 | Q | | | | |

| | | | | | | | |
|-------|--------|------|----|---|--|--|--|
| 5+25 | 0.6289 | 2.07 | Q | | | | |
| 5+30 | 0.6434 | 2.10 | Q | | | | |
| 5+35 | 0.6588 | 2.24 | Q | | | | |
| 5+40 | 0.6751 | 2.37 | Q | | | | |
| 5+45 | 0.6917 | 2.40 | Q | | | | |
| 5+50 | 0.7083 | 2.41 | Q | | | | |
| 5+55 | 0.7249 | 2.41 | Q | | | | |
| 6+ 0 | 0.7415 | 2.41 | Q | | | | |
| 6+ 5 | 0.7590 | 2.54 | VQ | | | | |
| 6+10 | 0.7774 | 2.67 | VQ | | | | |
| 6+15 | 0.7960 | 2.70 | Q | | | | |
| 6+20 | 0.8147 | 2.71 | Q | | | | |
| 6+25 | 0.8334 | 2.71 | Q | | | | |
| 6+30 | 0.8521 | 2.71 | Q | | | | |
| 6+35 | 0.8717 | 2.85 | Q | | | | |
| 6+40 | 0.8922 | 2.98 | Q | | | | |
| 6+45 | 0.9129 | 3.00 | VQ | | | | |
| 6+50 | 0.9336 | 3.01 | VQ | | | | |
| 6+55 | 0.9544 | 3.02 | Q | | | | |
| 7+ 0 | 0.9752 | 3.02 | Q | | | | |
| 7+ 5 | 0.9959 | 3.02 | Q | | | | |
| 7+10 | 1.0167 | 3.02 | Q | | | | |
| 7+15 | 1.0375 | 3.02 | Q | | | | |
| 7+20 | 1.0592 | 3.15 | Q | | | | |
| 7+25 | 1.0817 | 3.28 | Q | | | | |
| 7+30 | 1.1045 | 3.30 | QV | | | | |
| 7+35 | 1.1282 | 3.45 | QV | | | | |
| 7+40 | 1.1529 | 3.58 | Q | | | | |
| 7+45 | 1.1777 | 3.61 | Q | | | | |
| 7+50 | 1.2035 | 3.75 | Q | | | | |
| 7+55 | 1.2302 | 3.88 | Q | | | | |
| 8+ 0 | 1.2572 | 3.91 | QV | | | | |
| 8+ 5 | 1.2859 | 4.18 | Q | | | | |
| 8+10 | 1.3165 | 4.44 | Q | | | | |
| 8+15 | 1.3475 | 4.50 | Q | | | | |
| 8+20 | 1.3786 | 4.52 | VQ | | | | |
| 8+25 | 1.4098 | 4.52 | Q | | | | |
| 8+30 | 1.4409 | 4.52 | Q | | | | |
| 8+35 | 1.4730 | 4.65 | Q | | | | |
| 8+40 | 1.5060 | 4.79 | Q | | | | |
| 8+45 | 1.5391 | 4.81 | Q | | | | |
| 8+50 | 1.5732 | 4.95 | QV | | | | |
| 8+55 | 1.6083 | 5.09 | Q | | | | |
| 9+ 0 | 1.6435 | 5.11 | Q | | | | |
| 9+ 5 | 1.6806 | 5.39 | Q | | | | |
| 9+10 | 1.7195 | 5.65 | Q | | | | |
| 9+15 | 1.7588 | 5.70 | Q | | | | |
| 9+20 | 1.7991 | 5.86 | Q | | | | |
| 9+25 | 1.8404 | 5.99 | Q | | | | |
| 9+30 | 1.8818 | 6.02 | Q | | | | |
| 9+35 | 1.9242 | 6.16 | Q | | | | |
| 9+40 | 1.9676 | 6.29 | Q | | | | |
| 9+45 | 2.0111 | 6.32 | Q | | | | |
| 9+50 | 2.0556 | 6.46 | QV | | | | |
| 9+55 | 2.1010 | 6.60 | Q | | | | |
| 10+ 0 | 2.1466 | 6.62 | Q | | | | |
| 10+ 5 | 2.1860 | 5.72 | Q | V | | | |
| 10+10 | 2.2191 | 4.80 | Q | V | | | |
| 10+15 | 2.2509 | 4.62 | Q | V | | | |
| 10+20 | 2.2822 | 4.55 | Q | V | | | |

| | | | | | | | | | |
|-------|--------|-------|---|---|--|--|--|--|--|
| 10+25 | 2.3134 | 4.52 | Q | V | | | | | |
| 10+30 | 2.3445 | 4.52 | Q | V | | | | | |
| 10+35 | 2.3802 | 5.18 | Q | V | | | | | |
| 10+40 | 2.4204 | 5.83 | Q | V | | | | | |
| 10+45 | 2.4615 | 5.97 | Q | V | | | | | |
| 10+50 | 2.5029 | 6.02 | Q | V | | | | | |
| 10+55 | 2.5444 | 6.03 | Q | V | | | | | |
| 11+ 0 | 2.5860 | 6.03 | Q | V | | | | | |
| 11+ 5 | 2.6266 | 5.90 | Q | V | | | | | |
| 11+10 | 2.6664 | 5.77 | Q | V | | | | | |
| 11+15 | 2.7059 | 5.74 | Q | V | | | | | |
| 11+20 | 2.7454 | 5.73 | Q | V | | | | | |
| 11+25 | 2.7849 | 5.73 | Q | V | | | | | |
| 11+30 | 2.8244 | 5.73 | Q | V | | | | | |
| 11+35 | 2.8620 | 5.47 | Q | V | | | | | |
| 11+40 | 2.8979 | 5.21 | Q | V | | | | | |
| 11+45 | 2.9334 | 5.15 | Q | V | | | | | |
| 11+50 | 2.9696 | 5.26 | Q | V | | | | | |
| 11+55 | 3.0068 | 5.39 | Q | V | | | | | |
| 12+ 0 | 3.0441 | 5.42 | Q | V | | | | | |
| 12+ 5 | 3.0877 | 6.34 | Q | V | | | | | |
| 12+10 | 3.1377 | 7.26 | Q | V | | | | | |
| 12+15 | 3.1890 | 7.45 | Q | V | | | | | |
| 12+20 | 3.2417 | 7.65 | Q | V | | | | | |
| 12+25 | 3.2954 | 7.80 | Q | V | | | | | |
| 12+30 | 3.3493 | 7.83 | Q | V | | | | | |
| 12+35 | 3.4051 | 8.10 | Q | V | | | | | |
| 12+40 | 3.4627 | 8.37 | Q | V | | | | | |
| 12+45 | 3.5207 | 8.42 | Q | V | | | | | |
| 12+50 | 3.5797 | 8.57 | Q | V | | | | | |
| 12+55 | 3.6397 | 8.71 | Q | V | | | | | |
| 13+ 0 | 3.6998 | 8.73 | Q | V | | | | | |
| 13+ 5 | 3.7647 | 9.42 | Q | V | | | | | |
| 13+10 | 3.8343 | 10.10 | Q | V | | | | | |
| 13+15 | 3.9049 | 10.25 | Q | V | | | | | |
| 13+20 | 3.9759 | 10.31 | Q | V | | | | | |
| 13+25 | 4.0471 | 10.34 | Q | V | | | | | |
| 13+30 | 4.1184 | 10.35 | Q | V | | | | | |
| 13+35 | 4.1795 | 8.87 | Q | V | | | | | |
| 13+40 | 4.2304 | 7.39 | Q | V | | | | | |
| 13+45 | 4.2792 | 7.09 | Q | V | | | | | |
| 13+50 | 4.3272 | 6.97 | Q | V | | | | | |
| 13+55 | 4.3750 | 6.94 | Q | V | | | | | |
| 14+ 0 | 4.4228 | 6.94 | Q | V | | | | | |
| 14+ 5 | 4.4742 | 7.46 | Q | V | | | | | |
| 14+10 | 4.5291 | 7.98 | Q | V | | | | | |
| 14+15 | 4.5849 | 8.09 | Q | V | | | | | |
| 14+20 | 4.6400 | 8.00 | Q | V | | | | | |
| 14+25 | 4.6942 | 7.88 | Q | V | | | | | |
| 14+30 | 4.7483 | 7.86 | Q | V | | | | | |
| 14+35 | 4.8024 | 7.85 | Q | V | | | | | |
| 14+40 | 4.8564 | 7.84 | Q | V | | | | | |
| 14+45 | 4.9104 | 7.84 | Q | V | | | | | |
| 14+50 | 4.9635 | 7.71 | Q | V | | | | | |
| 14+55 | 5.0157 | 7.58 | Q | V | | | | | |
| 15+ 0 | 5.0677 | 7.55 | Q | V | | | | | |
| 15+ 5 | 5.1188 | 7.41 | Q | V | | | | | |
| 15+10 | 5.1689 | 7.28 | Q | V | | | | | |
| 15+15 | 5.2189 | 7.25 | Q | V | | | | | |
| 15+20 | 5.2678 | 7.11 | Q | V | | | | | |

| | | | | | | | | |
|-------|--------|------|--|---|---|--|---|--|
| 15+25 | 5.3159 | 6.98 | | | Q | | V | |
| 15+30 | 5.3637 | 6.95 | | | Q | | V | |
| 15+35 | 5.4079 | 6.42 | | | Q | | V | |
| 15+40 | 5.4485 | 5.89 | | | Q | | V | |
| 15+45 | 5.4884 | 5.78 | | | Q | | V | |
| 15+50 | 5.5279 | 5.74 | | | Q | | V | |
| 15+55 | 5.5674 | 5.73 | | | Q | | V | |
| 16+ 0 | 5.6068 | 5.73 | | | Q | | V | |
| 16+ 5 | 5.6328 | 3.77 | | Q | | | V | |
| 16+10 | 5.6453 | 1.81 | | Q | | | V | |
| 16+15 | 5.6550 | 1.41 | | Q | | | V | |
| 16+20 | 5.6636 | 1.25 | | Q | | | V | |
| 16+25 | 5.6719 | 1.21 | | Q | | | V | |
| 16+30 | 5.6802 | 1.21 | | Q | | | V | |
| 16+35 | 5.6876 | 1.08 | | Q | | | V | |
| 16+40 | 5.6941 | 0.94 | | Q | | | V | |
| 16+45 | 5.7004 | 0.92 | | Q | | | V | |
| 16+50 | 5.7067 | 0.91 | | Q | | | V | |
| 16+55 | 5.7129 | 0.90 | | Q | | | V | |
| 17+ 0 | 5.7192 | 0.90 | | Q | | | V | |
| 17+ 5 | 5.7272 | 1.17 | | Q | | | V | |
| 17+10 | 5.7370 | 1.43 | | Q | | | V | |
| 17+15 | 5.7472 | 1.48 | | Q | | | V | |
| 17+20 | 5.7576 | 1.50 | | Q | | | V | |
| 17+25 | 5.7680 | 1.51 | | Q | | | V | |
| 17+30 | 5.7783 | 1.51 | | Q | | | V | |
| 17+35 | 5.7887 | 1.51 | | Q | | | V | |
| 17+40 | 5.7991 | 1.51 | | Q | | | V | |
| 17+45 | 5.8095 | 1.51 | | Q | | | V | |
| 17+50 | 5.8190 | 1.38 | | Q | | | V | |
| 17+55 | 5.8276 | 1.25 | | Q | | | V | |
| 18+ 0 | 5.8360 | 1.22 | | Q | | | V | |
| 18+ 5 | 5.8443 | 1.21 | | Q | | | V | |
| 18+10 | 5.8526 | 1.21 | | Q | | | V | |
| 18+15 | 5.8609 | 1.21 | | Q | | | V | |
| 18+20 | 5.8692 | 1.21 | | Q | | | V | |
| 18+25 | 5.8775 | 1.21 | | Q | | | V | |
| 18+30 | 5.8859 | 1.21 | | Q | | | V | |
| 18+35 | 5.8933 | 1.08 | | Q | | | V | |
| 18+40 | 5.8998 | 0.94 | | Q | | | V | |
| 18+45 | 5.9061 | 0.92 | | Q | | | V | |
| 18+50 | 5.9114 | 0.78 | | Q | | | V | |
| 18+55 | 5.9159 | 0.64 | | Q | | | V | |
| 19+ 0 | 5.9201 | 0.62 | | Q | | | V | |
| 19+ 5 | 5.9252 | 0.74 | | Q | | | V | |
| 19+10 | 5.9312 | 0.86 | | Q | | | V | |
| 19+15 | 5.9373 | 0.89 | | Q | | | V | |
| 19+20 | 5.9444 | 1.03 | | Q | | | V | |
| 19+25 | 5.9524 | 1.17 | | Q | | | V | |
| 19+30 | 5.9607 | 1.19 | | Q | | | V | |
| 19+35 | 5.9680 | 1.07 | | Q | | | V | |
| 19+40 | 5.9746 | 0.94 | | Q | | | V | |
| 19+45 | 5.9809 | 0.92 | | Q | | | V | |
| 19+50 | 5.9862 | 0.78 | | Q | | | V | |
| 19+55 | 5.9907 | 0.64 | | Q | | | V | |
| 20+ 0 | 5.9949 | 0.62 | | Q | | | V | |
| 20+ 5 | 6.0000 | 0.74 | | Q | | | V | |
| 20+10 | 6.0059 | 0.86 | | Q | | | V | |
| 20+15 | 6.0121 | 0.89 | | Q | | | V | |
| 20+20 | 6.0183 | 0.90 | | Q | | | V | |

| | | | | | | | | |
|-------|--------|------|---|--|--|--|---|--|
| 20+25 | 6.0245 | 0.90 | Q | | | | V | |
| 20+30 | 6.0307 | 0.90 | Q | | | | V | |
| 20+35 | 6.0370 | 0.90 | Q | | | | V | |
| 20+40 | 6.0432 | 0.90 | Q | | | | V | |
| 20+45 | 6.0494 | 0.90 | Q | | | | V | |
| 20+50 | 6.0548 | 0.77 | Q | | | | V | |
| 20+55 | 6.0592 | 0.64 | Q | | | | V | |
| 21+ 0 | 6.0635 | 0.62 | Q | | | | V | |
| 21+ 5 | 6.0685 | 0.74 | Q | | | | V | |
| 21+10 | 6.0745 | 0.86 | Q | | | | V | |
| 21+15 | 6.0806 | 0.89 | Q | | | | V | |
| 21+20 | 6.0859 | 0.77 | Q | | | | V | |
| 21+25 | 6.0904 | 0.64 | Q | | | | V | |
| 21+30 | 6.0946 | 0.62 | Q | | | | V | |
| 21+35 | 6.0997 | 0.74 | Q | | | | V | |
| 21+40 | 6.1056 | 0.86 | Q | | | | V | |
| 21+45 | 6.1118 | 0.89 | Q | | | | V | |
| 21+50 | 6.1171 | 0.77 | Q | | | | V | |
| 21+55 | 6.1215 | 0.64 | Q | | | | V | |
| 22+ 0 | 6.1258 | 0.62 | Q | | | | V | |
| 22+ 5 | 6.1308 | 0.74 | Q | | | | V | |
| 22+10 | 6.1368 | 0.86 | Q | | | | V | |
| 22+15 | 6.1429 | 0.89 | Q | | | | V | |
| 22+20 | 6.1483 | 0.77 | Q | | | | V | |
| 22+25 | 6.1527 | 0.64 | Q | | | | V | |
| 22+30 | 6.1569 | 0.62 | Q | | | | V | |
| 22+35 | 6.1611 | 0.61 | Q | | | | V | |
| 22+40 | 6.1653 | 0.60 | Q | | | | V | |
| 22+45 | 6.1694 | 0.60 | Q | | | | V | |
| 22+50 | 6.1736 | 0.60 | Q | | | | V | |
| 22+55 | 6.1777 | 0.60 | Q | | | | V | |
| 23+ 0 | 6.1819 | 0.60 | Q | | | | V | |
| 23+ 5 | 6.1860 | 0.60 | Q | | | | V | |
| 23+10 | 6.1902 | 0.60 | Q | | | | V | |
| 23+15 | 6.1943 | 0.60 | Q | | | | V | |
| 23+20 | 6.1985 | 0.60 | Q | | | | V | |
| 23+25 | 6.2027 | 0.60 | Q | | | | V | |
| 23+30 | 6.2068 | 0.60 | Q | | | | V | |
| 23+35 | 6.2110 | 0.60 | Q | | | | V | |
| 23+40 | 6.2151 | 0.60 | Q | | | | V | |
| 23+45 | 6.2193 | 0.60 | Q | | | | V | |
| 23+50 | 6.2234 | 0.60 | Q | | | | V | |
| 23+55 | 6.2276 | 0.60 | Q | | | | V | |
| 24+ 0 | 6.2317 | 0.60 | Q | | | | V | |
| 24+ 5 | 6.2341 | 0.34 | Q | | | | V | |
| 24+10 | 6.2346 | 0.08 | Q | | | | V | |
| 24+15 | 6.2348 | 0.03 | Q | | | | V | |
| 24+20 | 6.2349 | 0.01 | Q | | | | V | |

Unit Hydrograph Analysis

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Study date 03/24/22 File: 20750BPC242.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6310

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

20-750 Building B
PROPOSED
2 YEAR 24 HOUR

Drainage Area = 23.70 (Ac.) = 0.037 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 23.70 (Ac.) = 0.037
Sq. Mi.
Length along longest watercourse = 795.00 (Ft.)
Length along longest watercourse measured to centroid = 475.00 (Ft.)
Length along longest watercourse = 0.151 Mi.
Length along longest watercourse measured to centroid = 0.090 Mi.
Difference in elevation = 6.80 (Ft.)
Slope along watercourse = 45.1623 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.034 Hr.
Lag time = 2.04 Min.
25% of lag time = 0.51 Min.
40% of lag time = 0.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00 (CFS)

2 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 23.70 | 1.60 | 37.92 |

100 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 23.70 | 4.00 | 94.80 |

STORM EVENT (YEAR) = 2.00
 Area Averaged 2-Year Rainfall = 1.600 (In)
 Area Averaged 100-Year Rainfall = 4.000 (In)

Point rain (area averaged) = 1.600 (In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 1.600 (In)

Sub-Area Data:

Area (Ac.) Runoff Index Impervious %
 23.700 69.00 0.900
 Total Area Entered = 23.70 (Ac.)

| | | | | | | |
|------|-------|-------------|------------|------------------|--------|-----------------|
| RI | RI | Infil. Rate | Impervious | Adj. Infil. Rate | Area% | F |
| AMC2 | AMC-1 | (In/Hr) | (Dec.%) | (In/Hr) | (Dec.) | (In/Hr) |
| 69.0 | 49.8 | 0.574 | 0.900 | 0.109 | 1.000 | 0.109 |
| | | | | | | Sum (F) = 0.109 |

Area averaged mean soil loss (F) (In/Hr) = 0.109
 Minimum soil loss rate ((In/Hr)) = 0.055
 (for 24 hour storm duration)
 Soil low loss rate (decimal) = 0.180

 U n i t H y d r o g r a p h
 VALLEY S-Curve

Unit Hydrograph Data

| Unit time period (hrs) | Time % of lag | Distribution Graph % | Unit Hydrograph (CFS) |
|---------------------------|---------------|-------------------------|--------------------------|
| 1 | 0.083 | 244.817 | 11.993 |
| 2 | 0.167 | 489.635 | 9.644 |
| 3 | 0.250 | 734.452 | 1.718 |
| 4 | 0.333 | 979.270 | 0.530 |
| | | Sum = 100.000 | Sum= 23.885 |

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

| Unit Time (Hr.) | Pattern Percent | Storm Rain (In/Hr) | Loss rate (In./Hr) | | Effective (In/Hr) |
|--------------------|--------------------|-----------------------|--------------------|-------|----------------------|
| | | | Max | Low | |
| 1 | 0.08 | 0.07 | (0.193) | 0.002 | 0.010 |
| 2 | 0.17 | 0.07 | (0.193) | 0.002 | 0.010 |
| 3 | 0.25 | 0.07 | (0.192) | 0.002 | 0.010 |
| 4 | 0.33 | 0.10 | (0.191) | 0.003 | 0.016 |
| 5 | 0.42 | 0.10 | (0.190) | 0.003 | 0.016 |
| 6 | 0.50 | 0.10 | (0.190) | 0.003 | 0.016 |
| 7 | 0.58 | 0.10 | (0.189) | 0.003 | 0.016 |
| 8 | 0.67 | 0.10 | (0.188) | 0.003 | 0.016 |
| 9 | 0.75 | 0.10 | (0.187) | 0.003 | 0.016 |
| 10 | 0.83 | 0.13 | (0.187) | 0.005 | 0.021 |
| 11 | 0.92 | 0.13 | (0.186) | 0.005 | 0.021 |
| 12 | 1.00 | 0.13 | (0.185) | 0.005 | 0.021 |
| 13 | 1.08 | 0.10 | (0.184) | 0.003 | 0.016 |
| 14 | 1.17 | 0.10 | (0.184) | 0.003 | 0.016 |
| 15 | 1.25 | 0.10 | (0.183) | 0.003 | 0.016 |

| | | | | | | |
|----|------|------|-------|----------|-------|-------|
| 16 | 1.33 | 0.10 | 0.019 | (0.182) | 0.003 | 0.016 |
| 17 | 1.42 | 0.10 | 0.019 | (0.182) | 0.003 | 0.016 |
| 18 | 1.50 | 0.10 | 0.019 | (0.181) | 0.003 | 0.016 |
| 19 | 1.58 | 0.10 | 0.019 | (0.180) | 0.003 | 0.016 |
| 20 | 1.67 | 0.10 | 0.019 | (0.179) | 0.003 | 0.016 |
| 21 | 1.75 | 0.10 | 0.019 | (0.179) | 0.003 | 0.016 |
| 22 | 1.83 | 0.13 | 0.026 | (0.178) | 0.005 | 0.021 |
| 23 | 1.92 | 0.13 | 0.026 | (0.177) | 0.005 | 0.021 |
| 24 | 2.00 | 0.13 | 0.026 | (0.176) | 0.005 | 0.021 |
| 25 | 2.08 | 0.13 | 0.026 | (0.176) | 0.005 | 0.021 |
| 26 | 2.17 | 0.13 | 0.026 | (0.175) | 0.005 | 0.021 |
| 27 | 2.25 | 0.13 | 0.026 | (0.174) | 0.005 | 0.021 |
| 28 | 2.33 | 0.13 | 0.026 | (0.174) | 0.005 | 0.021 |
| 29 | 2.42 | 0.13 | 0.026 | (0.173) | 0.005 | 0.021 |
| 30 | 2.50 | 0.13 | 0.026 | (0.172) | 0.005 | 0.021 |
| 31 | 2.58 | 0.17 | 0.032 | (0.172) | 0.006 | 0.026 |
| 32 | 2.67 | 0.17 | 0.032 | (0.171) | 0.006 | 0.026 |
| 33 | 2.75 | 0.17 | 0.032 | (0.170) | 0.006 | 0.026 |
| 34 | 2.83 | 0.17 | 0.032 | (0.169) | 0.006 | 0.026 |
| 35 | 2.92 | 0.17 | 0.032 | (0.169) | 0.006 | 0.026 |
| 36 | 3.00 | 0.17 | 0.032 | (0.168) | 0.006 | 0.026 |
| 37 | 3.08 | 0.17 | 0.032 | (0.167) | 0.006 | 0.026 |
| 38 | 3.17 | 0.17 | 0.032 | (0.167) | 0.006 | 0.026 |
| 39 | 3.25 | 0.17 | 0.032 | (0.166) | 0.006 | 0.026 |
| 40 | 3.33 | 0.17 | 0.032 | (0.165) | 0.006 | 0.026 |
| 41 | 3.42 | 0.17 | 0.032 | (0.165) | 0.006 | 0.026 |
| 42 | 3.50 | 0.17 | 0.032 | (0.164) | 0.006 | 0.026 |
| 43 | 3.58 | 0.17 | 0.032 | (0.163) | 0.006 | 0.026 |
| 44 | 3.67 | 0.17 | 0.032 | (0.162) | 0.006 | 0.026 |
| 45 | 3.75 | 0.17 | 0.032 | (0.162) | 0.006 | 0.026 |
| 46 | 3.83 | 0.20 | 0.038 | (0.161) | 0.007 | 0.031 |
| 47 | 3.92 | 0.20 | 0.038 | (0.160) | 0.007 | 0.031 |
| 48 | 4.00 | 0.20 | 0.038 | (0.160) | 0.007 | 0.031 |
| 49 | 4.08 | 0.20 | 0.038 | (0.159) | 0.007 | 0.031 |
| 50 | 4.17 | 0.20 | 0.038 | (0.158) | 0.007 | 0.031 |
| 51 | 4.25 | 0.20 | 0.038 | (0.158) | 0.007 | 0.031 |
| 52 | 4.33 | 0.23 | 0.045 | (0.157) | 0.008 | 0.037 |
| 53 | 4.42 | 0.23 | 0.045 | (0.156) | 0.008 | 0.037 |
| 54 | 4.50 | 0.23 | 0.045 | (0.156) | 0.008 | 0.037 |
| 55 | 4.58 | 0.23 | 0.045 | (0.155) | 0.008 | 0.037 |
| 56 | 4.67 | 0.23 | 0.045 | (0.154) | 0.008 | 0.037 |
| 57 | 4.75 | 0.23 | 0.045 | (0.154) | 0.008 | 0.037 |
| 58 | 4.83 | 0.27 | 0.051 | (0.153) | 0.009 | 0.042 |
| 59 | 4.92 | 0.27 | 0.051 | (0.152) | 0.009 | 0.042 |
| 60 | 5.00 | 0.27 | 0.051 | (0.152) | 0.009 | 0.042 |
| 61 | 5.08 | 0.20 | 0.038 | (0.151) | 0.007 | 0.031 |
| 62 | 5.17 | 0.20 | 0.038 | (0.150) | 0.007 | 0.031 |
| 63 | 5.25 | 0.20 | 0.038 | (0.150) | 0.007 | 0.031 |
| 64 | 5.33 | 0.23 | 0.045 | (0.149) | 0.008 | 0.037 |
| 65 | 5.42 | 0.23 | 0.045 | (0.148) | 0.008 | 0.037 |
| 66 | 5.50 | 0.23 | 0.045 | (0.148) | 0.008 | 0.037 |
| 67 | 5.58 | 0.27 | 0.051 | (0.147) | 0.009 | 0.042 |
| 68 | 5.67 | 0.27 | 0.051 | (0.147) | 0.009 | 0.042 |
| 69 | 5.75 | 0.27 | 0.051 | (0.146) | 0.009 | 0.042 |
| 70 | 5.83 | 0.27 | 0.051 | (0.145) | 0.009 | 0.042 |
| 71 | 5.92 | 0.27 | 0.051 | (0.145) | 0.009 | 0.042 |
| 72 | 6.00 | 0.27 | 0.051 | (0.144) | 0.009 | 0.042 |
| 73 | 6.08 | 0.30 | 0.058 | (0.143) | 0.010 | 0.047 |
| 74 | 6.17 | 0.30 | 0.058 | (0.143) | 0.010 | 0.047 |
| 75 | 6.25 | 0.30 | 0.058 | (0.142) | 0.010 | 0.047 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 76 | 6.33 | 0.30 | 0.058 | (0.141) | 0.010 | 0.047 |
| 77 | 6.42 | 0.30 | 0.058 | (0.141) | 0.010 | 0.047 |
| 78 | 6.50 | 0.30 | 0.058 | (0.140) | 0.010 | 0.047 |
| 79 | 6.58 | 0.33 | 0.064 | (0.140) | 0.012 | 0.052 |
| 80 | 6.67 | 0.33 | 0.064 | (0.139) | 0.012 | 0.052 |
| 81 | 6.75 | 0.33 | 0.064 | (0.138) | 0.012 | 0.052 |
| 82 | 6.83 | 0.33 | 0.064 | (0.138) | 0.012 | 0.052 |
| 83 | 6.92 | 0.33 | 0.064 | (0.137) | 0.012 | 0.052 |
| 84 | 7.00 | 0.33 | 0.064 | (0.136) | 0.012 | 0.052 |
| 85 | 7.08 | 0.33 | 0.064 | (0.136) | 0.012 | 0.052 |
| 86 | 7.17 | 0.33 | 0.064 | (0.135) | 0.012 | 0.052 |
| 87 | 7.25 | 0.33 | 0.064 | (0.135) | 0.012 | 0.052 |
| 88 | 7.33 | 0.37 | 0.070 | (0.134) | 0.013 | 0.058 |
| 89 | 7.42 | 0.37 | 0.070 | (0.133) | 0.013 | 0.058 |
| 90 | 7.50 | 0.37 | 0.070 | (0.133) | 0.013 | 0.058 |
| 91 | 7.58 | 0.40 | 0.077 | (0.132) | 0.014 | 0.063 |
| 92 | 7.67 | 0.40 | 0.077 | (0.131) | 0.014 | 0.063 |
| 93 | 7.75 | 0.40 | 0.077 | (0.131) | 0.014 | 0.063 |
| 94 | 7.83 | 0.43 | 0.083 | (0.130) | 0.015 | 0.068 |
| 95 | 7.92 | 0.43 | 0.083 | (0.130) | 0.015 | 0.068 |
| 96 | 8.00 | 0.43 | 0.083 | (0.129) | 0.015 | 0.068 |
| 97 | 8.08 | 0.50 | 0.096 | (0.128) | 0.017 | 0.079 |
| 98 | 8.17 | 0.50 | 0.096 | (0.128) | 0.017 | 0.079 |
| 99 | 8.25 | 0.50 | 0.096 | (0.127) | 0.017 | 0.079 |
| 100 | 8.33 | 0.50 | 0.096 | (0.127) | 0.017 | 0.079 |
| 101 | 8.42 | 0.50 | 0.096 | (0.126) | 0.017 | 0.079 |
| 102 | 8.50 | 0.50 | 0.096 | (0.125) | 0.017 | 0.079 |
| 103 | 8.58 | 0.53 | 0.102 | (0.125) | 0.018 | 0.084 |
| 104 | 8.67 | 0.53 | 0.102 | (0.124) | 0.018 | 0.084 |
| 105 | 8.75 | 0.53 | 0.102 | (0.124) | 0.018 | 0.084 |
| 106 | 8.83 | 0.57 | 0.109 | (0.123) | 0.020 | 0.089 |
| 107 | 8.92 | 0.57 | 0.109 | (0.123) | 0.020 | 0.089 |
| 108 | 9.00 | 0.57 | 0.109 | (0.122) | 0.020 | 0.089 |
| 109 | 9.08 | 0.63 | 0.122 | (0.121) | 0.022 | 0.100 |
| 110 | 9.17 | 0.63 | 0.122 | (0.121) | 0.022 | 0.100 |
| 111 | 9.25 | 0.63 | 0.122 | (0.120) | 0.022 | 0.100 |
| 112 | 9.33 | 0.67 | 0.128 | (0.120) | 0.023 | 0.105 |
| 113 | 9.42 | 0.67 | 0.128 | (0.119) | 0.023 | 0.105 |
| 114 | 9.50 | 0.67 | 0.128 | (0.119) | 0.023 | 0.105 |
| 115 | 9.58 | 0.70 | 0.134 | (0.118) | 0.024 | 0.110 |
| 116 | 9.67 | 0.70 | 0.134 | (0.117) | 0.024 | 0.110 |
| 117 | 9.75 | 0.70 | 0.134 | (0.117) | 0.024 | 0.110 |
| 118 | 9.83 | 0.73 | 0.141 | (0.116) | 0.025 | 0.115 |
| 119 | 9.92 | 0.73 | 0.141 | (0.116) | 0.025 | 0.115 |
| 120 | 10.00 | 0.73 | 0.141 | (0.115) | 0.025 | 0.115 |
| 121 | 10.08 | 0.50 | 0.096 | (0.115) | 0.017 | 0.079 |
| 122 | 10.17 | 0.50 | 0.096 | (0.114) | 0.017 | 0.079 |
| 123 | 10.25 | 0.50 | 0.096 | (0.113) | 0.017 | 0.079 |
| 124 | 10.33 | 0.50 | 0.096 | (0.113) | 0.017 | 0.079 |
| 125 | 10.42 | 0.50 | 0.096 | (0.112) | 0.017 | 0.079 |
| 126 | 10.50 | 0.50 | 0.096 | (0.112) | 0.017 | 0.079 |
| 127 | 10.58 | 0.67 | 0.128 | (0.111) | 0.023 | 0.105 |
| 128 | 10.67 | 0.67 | 0.128 | (0.111) | 0.023 | 0.105 |
| 129 | 10.75 | 0.67 | 0.128 | (0.110) | 0.023 | 0.105 |
| 130 | 10.83 | 0.67 | 0.128 | (0.110) | 0.023 | 0.105 |
| 131 | 10.92 | 0.67 | 0.128 | (0.109) | 0.023 | 0.105 |
| 132 | 11.00 | 0.67 | 0.128 | (0.109) | 0.023 | 0.105 |
| 133 | 11.08 | 0.63 | 0.122 | (0.108) | 0.022 | 0.100 |
| 134 | 11.17 | 0.63 | 0.122 | (0.108) | 0.022 | 0.100 |
| 135 | 11.25 | 0.63 | 0.122 | (0.107) | 0.022 | 0.100 |

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|-----|-------|------|-------|----------|-------|-------|
| 136 | 11.33 | 0.63 | 0.122 | (0.106) | 0.022 | 0.100 |
| 137 | 11.42 | 0.63 | 0.122 | (0.106) | 0.022 | 0.100 |
| 138 | 11.50 | 0.63 | 0.122 | (0.105) | 0.022 | 0.100 |
| 139 | 11.58 | 0.57 | 0.109 | (0.105) | 0.020 | 0.089 |
| 140 | 11.67 | 0.57 | 0.109 | (0.104) | 0.020 | 0.089 |
| 141 | 11.75 | 0.57 | 0.109 | (0.104) | 0.020 | 0.089 |
| 142 | 11.83 | 0.60 | 0.115 | (0.103) | 0.021 | 0.094 |
| 143 | 11.92 | 0.60 | 0.115 | (0.103) | 0.021 | 0.094 |
| 144 | 12.00 | 0.60 | 0.115 | (0.102) | 0.021 | 0.094 |
| 145 | 12.08 | 0.83 | 0.160 | (0.102) | 0.029 | 0.131 |
| 146 | 12.17 | 0.83 | 0.160 | (0.101) | 0.029 | 0.131 |
| 147 | 12.25 | 0.83 | 0.160 | (0.101) | 0.029 | 0.131 |
| 148 | 12.33 | 0.87 | 0.166 | (0.100) | 0.030 | 0.136 |
| 149 | 12.42 | 0.87 | 0.166 | (0.100) | 0.030 | 0.136 |
| 150 | 12.50 | 0.87 | 0.166 | (0.099) | 0.030 | 0.136 |
| 151 | 12.58 | 0.93 | 0.179 | (0.099) | 0.032 | 0.147 |
| 152 | 12.67 | 0.93 | 0.179 | (0.098) | 0.032 | 0.147 |
| 153 | 12.75 | 0.93 | 0.179 | (0.098) | 0.032 | 0.147 |
| 154 | 12.83 | 0.97 | 0.186 | (0.097) | 0.033 | 0.152 |
| 155 | 12.92 | 0.97 | 0.186 | (0.097) | 0.033 | 0.152 |
| 156 | 13.00 | 0.97 | 0.186 | (0.096) | 0.033 | 0.152 |
| 157 | 13.08 | 1.13 | 0.218 | (0.096) | 0.039 | 0.178 |
| 158 | 13.17 | 1.13 | 0.218 | (0.095) | 0.039 | 0.178 |
| 159 | 13.25 | 1.13 | 0.218 | (0.095) | 0.039 | 0.178 |
| 160 | 13.33 | 1.13 | 0.218 | (0.094) | 0.039 | 0.178 |
| 161 | 13.42 | 1.13 | 0.218 | (0.094) | 0.039 | 0.178 |
| 162 | 13.50 | 1.13 | 0.218 | (0.093) | 0.039 | 0.178 |
| 163 | 13.58 | 0.77 | 0.147 | (0.093) | 0.026 | 0.121 |
| 164 | 13.67 | 0.77 | 0.147 | (0.092) | 0.026 | 0.121 |
| 165 | 13.75 | 0.77 | 0.147 | (0.092) | 0.026 | 0.121 |
| 166 | 13.83 | 0.77 | 0.147 | (0.092) | 0.026 | 0.121 |
| 167 | 13.92 | 0.77 | 0.147 | (0.091) | 0.026 | 0.121 |
| 168 | 14.00 | 0.77 | 0.147 | (0.091) | 0.026 | 0.121 |
| 169 | 14.08 | 0.90 | 0.173 | (0.090) | 0.031 | 0.142 |
| 170 | 14.17 | 0.90 | 0.173 | (0.090) | 0.031 | 0.142 |
| 171 | 14.25 | 0.90 | 0.173 | (0.089) | 0.031 | 0.142 |
| 172 | 14.33 | 0.87 | 0.166 | (0.089) | 0.030 | 0.136 |
| 173 | 14.42 | 0.87 | 0.166 | (0.088) | 0.030 | 0.136 |
| 174 | 14.50 | 0.87 | 0.166 | (0.088) | 0.030 | 0.136 |
| 175 | 14.58 | 0.87 | 0.166 | (0.087) | 0.030 | 0.136 |
| 176 | 14.67 | 0.87 | 0.166 | (0.087) | 0.030 | 0.136 |
| 177 | 14.75 | 0.87 | 0.166 | (0.086) | 0.030 | 0.136 |
| 178 | 14.83 | 0.83 | 0.160 | (0.086) | 0.029 | 0.131 |
| 179 | 14.92 | 0.83 | 0.160 | (0.086) | 0.029 | 0.131 |
| 180 | 15.00 | 0.83 | 0.160 | (0.085) | 0.029 | 0.131 |
| 181 | 15.08 | 0.80 | 0.154 | (0.085) | 0.028 | 0.126 |
| 182 | 15.17 | 0.80 | 0.154 | (0.084) | 0.028 | 0.126 |
| 183 | 15.25 | 0.80 | 0.154 | (0.084) | 0.028 | 0.126 |
| 184 | 15.33 | 0.77 | 0.147 | (0.083) | 0.026 | 0.121 |
| 185 | 15.42 | 0.77 | 0.147 | (0.083) | 0.026 | 0.121 |
| 186 | 15.50 | 0.77 | 0.147 | (0.083) | 0.026 | 0.121 |
| 187 | 15.58 | 0.63 | 0.122 | (0.082) | 0.022 | 0.100 |
| 188 | 15.67 | 0.63 | 0.122 | (0.082) | 0.022 | 0.100 |
| 189 | 15.75 | 0.63 | 0.122 | (0.081) | 0.022 | 0.100 |
| 190 | 15.83 | 0.63 | 0.122 | (0.081) | 0.022 | 0.100 |
| 191 | 15.92 | 0.63 | 0.122 | (0.080) | 0.022 | 0.100 |
| 192 | 16.00 | 0.63 | 0.122 | (0.080) | 0.022 | 0.100 |
| 193 | 16.08 | 0.13 | 0.026 | (0.080) | 0.005 | 0.021 |
| 194 | 16.17 | 0.13 | 0.026 | (0.079) | 0.005 | 0.021 |
| 195 | 16.25 | 0.13 | 0.026 | (0.079) | 0.005 | 0.021 |

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|-----|-------|------|-------|----------|-------|-------|
| 196 | 16.33 | 0.13 | 0.026 | (0.078) | 0.005 | 0.021 |
| 197 | 16.42 | 0.13 | 0.026 | (0.078) | 0.005 | 0.021 |
| 198 | 16.50 | 0.13 | 0.026 | (0.078) | 0.005 | 0.021 |
| 199 | 16.58 | 0.10 | 0.019 | (0.077) | 0.003 | 0.016 |
| 200 | 16.67 | 0.10 | 0.019 | (0.077) | 0.003 | 0.016 |
| 201 | 16.75 | 0.10 | 0.019 | (0.076) | 0.003 | 0.016 |
| 202 | 16.83 | 0.10 | 0.019 | (0.076) | 0.003 | 0.016 |
| 203 | 16.92 | 0.10 | 0.019 | (0.076) | 0.003 | 0.016 |
| 204 | 17.00 | 0.10 | 0.019 | (0.075) | 0.003 | 0.016 |
| 205 | 17.08 | 0.17 | 0.032 | (0.075) | 0.006 | 0.026 |
| 206 | 17.17 | 0.17 | 0.032 | (0.075) | 0.006 | 0.026 |
| 207 | 17.25 | 0.17 | 0.032 | (0.074) | 0.006 | 0.026 |
| 208 | 17.33 | 0.17 | 0.032 | (0.074) | 0.006 | 0.026 |
| 209 | 17.42 | 0.17 | 0.032 | (0.073) | 0.006 | 0.026 |
| 210 | 17.50 | 0.17 | 0.032 | (0.073) | 0.006 | 0.026 |
| 211 | 17.58 | 0.17 | 0.032 | (0.073) | 0.006 | 0.026 |
| 212 | 17.67 | 0.17 | 0.032 | (0.072) | 0.006 | 0.026 |
| 213 | 17.75 | 0.17 | 0.032 | (0.072) | 0.006 | 0.026 |
| 214 | 17.83 | 0.13 | 0.026 | (0.072) | 0.005 | 0.021 |
| 215 | 17.92 | 0.13 | 0.026 | (0.071) | 0.005 | 0.021 |
| 216 | 18.00 | 0.13 | 0.026 | (0.071) | 0.005 | 0.021 |
| 217 | 18.08 | 0.13 | 0.026 | (0.071) | 0.005 | 0.021 |
| 218 | 18.17 | 0.13 | 0.026 | (0.070) | 0.005 | 0.021 |
| 219 | 18.25 | 0.13 | 0.026 | (0.070) | 0.005 | 0.021 |
| 220 | 18.33 | 0.13 | 0.026 | (0.070) | 0.005 | 0.021 |
| 221 | 18.42 | 0.13 | 0.026 | (0.069) | 0.005 | 0.021 |
| 222 | 18.50 | 0.13 | 0.026 | (0.069) | 0.005 | 0.021 |
| 223 | 18.58 | 0.10 | 0.019 | (0.069) | 0.003 | 0.016 |
| 224 | 18.67 | 0.10 | 0.019 | (0.068) | 0.003 | 0.016 |
| 225 | 18.75 | 0.10 | 0.019 | (0.068) | 0.003 | 0.016 |
| 226 | 18.83 | 0.07 | 0.013 | (0.068) | 0.002 | 0.010 |
| 227 | 18.92 | 0.07 | 0.013 | (0.067) | 0.002 | 0.010 |
| 228 | 19.00 | 0.07 | 0.013 | (0.067) | 0.002 | 0.010 |
| 229 | 19.08 | 0.10 | 0.019 | (0.067) | 0.003 | 0.016 |
| 230 | 19.17 | 0.10 | 0.019 | (0.066) | 0.003 | 0.016 |
| 231 | 19.25 | 0.10 | 0.019 | (0.066) | 0.003 | 0.016 |
| 232 | 19.33 | 0.13 | 0.026 | (0.066) | 0.005 | 0.021 |
| 233 | 19.42 | 0.13 | 0.026 | (0.065) | 0.005 | 0.021 |
| 234 | 19.50 | 0.13 | 0.026 | (0.065) | 0.005 | 0.021 |
| 235 | 19.58 | 0.10 | 0.019 | (0.065) | 0.003 | 0.016 |
| 236 | 19.67 | 0.10 | 0.019 | (0.064) | 0.003 | 0.016 |
| 237 | 19.75 | 0.10 | 0.019 | (0.064) | 0.003 | 0.016 |
| 238 | 19.83 | 0.07 | 0.013 | (0.064) | 0.002 | 0.010 |
| 239 | 19.92 | 0.07 | 0.013 | (0.064) | 0.002 | 0.010 |
| 240 | 20.00 | 0.07 | 0.013 | (0.063) | 0.002 | 0.010 |
| 241 | 20.08 | 0.10 | 0.019 | (0.063) | 0.003 | 0.016 |
| 242 | 20.17 | 0.10 | 0.019 | (0.063) | 0.003 | 0.016 |
| 243 | 20.25 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 244 | 20.33 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 245 | 20.42 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 246 | 20.50 | 0.10 | 0.019 | (0.062) | 0.003 | 0.016 |
| 247 | 20.58 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 248 | 20.67 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 249 | 20.75 | 0.10 | 0.019 | (0.061) | 0.003 | 0.016 |
| 250 | 20.83 | 0.07 | 0.013 | (0.061) | 0.002 | 0.010 |
| 251 | 20.92 | 0.07 | 0.013 | (0.060) | 0.002 | 0.010 |
| 252 | 21.00 | 0.07 | 0.013 | (0.060) | 0.002 | 0.010 |
| 253 | 21.08 | 0.10 | 0.019 | (0.060) | 0.003 | 0.016 |
| 254 | 21.17 | 0.10 | 0.019 | (0.060) | 0.003 | 0.016 |
| 255 | 21.25 | 0.10 | 0.019 | (0.059) | 0.003 | 0.016 |

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|-----|-------|------|-------|----------|-------|-------|
| 256 | 21.33 | 0.07 | 0.013 | (0.059) | 0.002 | 0.010 |
| 257 | 21.42 | 0.07 | 0.013 | (0.059) | 0.002 | 0.010 |
| 258 | 21.50 | 0.07 | 0.013 | (0.059) | 0.002 | 0.010 |
| 259 | 21.58 | 0.10 | 0.019 | (0.059) | 0.003 | 0.016 |
| 260 | 21.67 | 0.10 | 0.019 | (0.058) | 0.003 | 0.016 |
| 261 | 21.75 | 0.10 | 0.019 | (0.058) | 0.003 | 0.016 |
| 262 | 21.83 | 0.07 | 0.013 | (0.058) | 0.002 | 0.010 |
| 263 | 21.92 | 0.07 | 0.013 | (0.058) | 0.002 | 0.010 |
| 264 | 22.00 | 0.07 | 0.013 | (0.058) | 0.002 | 0.010 |
| 265 | 22.08 | 0.10 | 0.019 | (0.057) | 0.003 | 0.016 |
| 266 | 22.17 | 0.10 | 0.019 | (0.057) | 0.003 | 0.016 |
| 267 | 22.25 | 0.10 | 0.019 | (0.057) | 0.003 | 0.016 |
| 268 | 22.33 | 0.07 | 0.013 | (0.057) | 0.002 | 0.010 |
| 269 | 22.42 | 0.07 | 0.013 | (0.057) | 0.002 | 0.010 |
| 270 | 22.50 | 0.07 | 0.013 | (0.057) | 0.002 | 0.010 |
| 271 | 22.58 | 0.07 | 0.013 | (0.056) | 0.002 | 0.010 |
| 272 | 22.67 | 0.07 | 0.013 | (0.056) | 0.002 | 0.010 |
| 273 | 22.75 | 0.07 | 0.013 | (0.056) | 0.002 | 0.010 |
| 274 | 22.83 | 0.07 | 0.013 | (0.056) | 0.002 | 0.010 |
| 275 | 22.92 | 0.07 | 0.013 | (0.056) | 0.002 | 0.010 |
| 276 | 23.00 | 0.07 | 0.013 | (0.056) | 0.002 | 0.010 |
| 277 | 23.08 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 278 | 23.17 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 279 | 23.25 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 280 | 23.33 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 281 | 23.42 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 282 | 23.50 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 283 | 23.58 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 284 | 23.67 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 285 | 23.75 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 286 | 23.83 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 287 | 23.92 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |
| 288 | 24.00 | 0.07 | 0.013 | (0.055) | 0.002 | 0.010 |

(Loss Rate Not Used)

Sum = 100.0 Sum = 15.7

Flood volume = Effective rainfall 1.31(In)
times area 23.7(Ac.)/[(In)/(Ft.)] = 2.6(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 0.569(Ac.Ft)
Total rainfall = 1.60(In)
Flood volume = 112867.4 Cubic Feet
Total soil loss = 24775.8 Cubic Feet

Peak flow rate of this hydrograph = 4.264(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

| Time(h+m) | Volume Ac.Ft | Q(CFS) | 0 | 2.5 | 5.0 | 7.5 | 10.0 |
|-----------|--------------|--------|----|-----|-----|-----|------|
| 0+ 5 | 0.0009 | 0.13 | Q | | | | |
| 0+10 | 0.0024 | 0.23 | Q | | | | |
| 0+15 | 0.0041 | 0.25 | Q | | | | |
| 0+20 | 0.0063 | 0.31 | VQ | | | | |
| 0+25 | 0.0088 | 0.36 | VQ | | | | |
| 0+30 | 0.0114 | 0.37 | VQ | | | | |

| | | | | | | | |
|------|--------|------|----|--|--|--|--|
| 0+35 | 0.0140 | 0.38 | VQ | | | | |
| 0+40 | 0.0165 | 0.38 | VQ | | | | |
| 0+45 | 0.0191 | 0.38 | VQ | | | | |
| 0+50 | 0.0222 | 0.44 | VQ | | | | |
| 0+55 | 0.0255 | 0.49 | VQ | | | | |
| 1+ 0 | 0.0290 | 0.50 | VQ | | | | |
| 1+ 5 | 0.0320 | 0.44 | VQ | | | | |
| 1+10 | 0.0347 | 0.39 | VQ | | | | |
| 1+15 | 0.0373 | 0.38 | VQ | | | | |
| 1+20 | 0.0399 | 0.38 | VQ | | | | |
| 1+25 | 0.0425 | 0.38 | VQ | | | | |
| 1+30 | 0.0450 | 0.38 | VQ | | | | |
| 1+35 | 0.0476 | 0.38 | VQ | | | | |
| 1+40 | 0.0502 | 0.38 | VQ | | | | |
| 1+45 | 0.0528 | 0.38 | VQ | | | | |
| 1+50 | 0.0558 | 0.44 | VQ | | | | |
| 1+55 | 0.0592 | 0.49 | VQ | | | | |
| 2+ 0 | 0.0627 | 0.50 | VQ | | | | |
| 2+ 5 | 0.0661 | 0.50 | VQ | | | | |
| 2+10 | 0.0696 | 0.50 | VQ | | | | |
| 2+15 | 0.0730 | 0.50 | VQ | | | | |
| 2+20 | 0.0765 | 0.50 | VQ | | | | |
| 2+25 | 0.0799 | 0.50 | VQ | | | | |
| 2+30 | 0.0834 | 0.50 | VQ | | | | |
| 2+35 | 0.0873 | 0.56 | VQ | | | | |
| 2+40 | 0.0915 | 0.62 | VQ | | | | |
| 2+45 | 0.0958 | 0.62 | VQ | | | | |
| 2+50 | 0.1001 | 0.63 | VQ | | | | |
| 2+55 | 0.1044 | 0.63 | VQ | | | | |
| 3+ 0 | 0.1088 | 0.63 | VQ | | | | |
| 3+ 5 | 0.1131 | 0.63 | VQ | | | | |
| 3+10 | 0.1174 | 0.63 | VQ | | | | |
| 3+15 | 0.1217 | 0.63 | VQ | | | | |
| 3+20 | 0.1260 | 0.63 | VQ | | | | |
| 3+25 | 0.1304 | 0.63 | Q | | | | |
| 3+30 | 0.1347 | 0.63 | Q | | | | |
| 3+35 | 0.1390 | 0.63 | Q | | | | |
| 3+40 | 0.1433 | 0.63 | Q | | | | |
| 3+45 | 0.1476 | 0.63 | Q | | | | |
| 3+50 | 0.1524 | 0.69 | Q | | | | |
| 3+55 | 0.1575 | 0.74 | Q | | | | |
| 4+ 0 | 0.1626 | 0.75 | Q | | | | |
| 4+ 5 | 0.1678 | 0.75 | VQ | | | | |
| 4+10 | 0.1730 | 0.75 | VQ | | | | |
| 4+15 | 0.1782 | 0.75 | VQ | | | | |
| 4+20 | 0.1838 | 0.82 | VQ | | | | |
| 4+25 | 0.1898 | 0.87 | VQ | | | | |
| 4+30 | 0.1958 | 0.88 | Q | | | | |
| 4+35 | 0.2018 | 0.88 | Q | | | | |
| 4+40 | 0.2079 | 0.88 | Q | | | | |
| 4+45 | 0.2139 | 0.88 | Q | | | | |
| 4+50 | 0.2204 | 0.94 | Q | | | | |
| 4+55 | 0.2272 | 0.99 | Q | | | | |
| 5+ 0 | 0.2341 | 1.00 | VQ | | | | |
| 5+ 5 | 0.2402 | 0.88 | Q | | | | |
| 5+10 | 0.2455 | 0.78 | Q | | | | |
| 5+15 | 0.2507 | 0.76 | Q | | | | |
| 5+20 | 0.2564 | 0.82 | Q | | | | |
| 5+25 | 0.2623 | 0.87 | QV | | | | |
| 5+30 | 0.2683 | 0.88 | QV | | | | |

| | | | | | | | |
|-------|--------|------|-----|---|--|--|--|
| 5+35 | 0.2748 | 0.94 | QV | | | | |
| 5+40 | 0.2817 | 0.99 | QV | | | | |
| 5+45 | 0.2885 | 1.00 | Q | | | | |
| 5+50 | 0.2955 | 1.00 | Q | | | | |
| 5+55 | 0.3024 | 1.00 | Q | | | | |
| 6+ 0 | 0.3093 | 1.00 | Q | | | | |
| 6+ 5 | 0.3166 | 1.07 | Q | | | | |
| 6+10 | 0.3243 | 1.12 | QV | | | | |
| 6+15 | 0.3321 | 1.13 | QV | | | | |
| 6+20 | 0.3398 | 1.13 | QV | | | | |
| 6+25 | 0.3476 | 1.13 | QV | | | | |
| 6+30 | 0.3554 | 1.13 | QV | | | | |
| 6+35 | 0.3636 | 1.19 | QV | | | | |
| 6+40 | 0.3721 | 1.24 | QV | | | | |
| 6+45 | 0.3808 | 1.25 | Q | | | | |
| 6+50 | 0.3894 | 1.25 | QV | | | | |
| 6+55 | 0.3980 | 1.25 | QV | | | | |
| 7+ 0 | 0.4067 | 1.25 | QV | | | | |
| 7+ 5 | 0.4153 | 1.25 | QV | | | | |
| 7+10 | 0.4240 | 1.25 | QV | | | | |
| 7+15 | 0.4326 | 1.25 | QV | | | | |
| 7+20 | 0.4417 | 1.32 | QV | | | | |
| 7+25 | 0.4511 | 1.37 | QV | | | | |
| 7+30 | 0.4606 | 1.38 | Q V | | | | |
| 7+35 | 0.4705 | 1.44 | Q V | | | | |
| 7+40 | 0.4808 | 1.49 | Q V | | | | |
| 7+45 | 0.4911 | 1.50 | QV | | | | |
| 7+50 | 0.5019 | 1.57 | QV | | | | |
| 7+55 | 0.5131 | 1.62 | QV | | | | |
| 8+ 0 | 0.5243 | 1.63 | Q V | | | | |
| 8+ 5 | 0.5364 | 1.76 | QV | | | | |
| 8+10 | 0.5492 | 1.86 | QV | | | | |
| 8+15 | 0.5621 | 1.88 | QV | | | | |
| 8+20 | 0.5750 | 1.88 | QV | | | | |
| 8+25 | 0.5880 | 1.88 | Q V | | | | |
| 8+30 | 0.6009 | 1.88 | Q V | | | | |
| 8+35 | 0.6143 | 1.94 | Q V | | | | |
| 8+40 | 0.6281 | 1.99 | Q V | | | | |
| 8+45 | 0.6419 | 2.00 | QV | | | | |
| 8+50 | 0.6561 | 2.07 | Q V | | | | |
| 8+55 | 0.6707 | 2.12 | Q V | | | | |
| 9+ 0 | 0.6854 | 2.13 | Q V | | | | |
| 9+ 5 | 0.7009 | 2.26 | QV | | | | |
| 9+10 | 0.7172 | 2.36 | Q V | | | | |
| 9+15 | 0.7336 | 2.38 | Q V | | | | |
| 9+20 | 0.7504 | 2.45 | Q V | | | | |
| 9+25 | 0.7676 | 2.50 | Q V | | | | |
| 9+30 | 0.7849 | 2.51 | Q V | | | | |
| 9+35 | 0.8026 | 2.57 | Q V | | | | |
| 9+40 | 0.8206 | 2.62 | Q V | | | | |
| 9+45 | 0.8387 | 2.63 | Q V | | | | |
| 9+50 | 0.8573 | 2.70 | Q V | | | | |
| 9+55 | 0.8762 | 2.75 | Q V | | | | |
| 10+ 0 | 0.8952 | 2.76 | Q V | | | | |
| 10+ 5 | 0.9112 | 2.32 | Q | V | | | |
| 10+10 | 0.9247 | 1.96 | Q | V | | | |
| 10+15 | 0.9378 | 1.90 | Q | V | | | |
| 10+20 | 0.9507 | 1.88 | Q | V | | | |
| 10+25 | 0.9637 | 1.88 | Q | V | | | |
| 10+30 | 0.9767 | 1.88 | Q | V | | | |

| | | | | | | | | |
|-------|--------|------|---|---|--|--|--|--|
| 10+35 | 0.9918 | 2.20 | Q | V | | | | |
| 10+40 | 1.0086 | 2.45 | Q | V | | | | |
| 10+45 | 1.0258 | 2.49 | Q | V | | | | |
| 10+50 | 1.0431 | 2.51 | Q | V | | | | |
| 10+55 | 1.0604 | 2.51 | Q | V | | | | |
| 11+ 0 | 1.0776 | 2.51 | Q | V | | | | |
| 11+ 5 | 1.0945 | 2.45 | Q | V | | | | |
| 11+10 | 1.1110 | 2.39 | Q | V | | | | |
| 11+15 | 1.1274 | 2.39 | Q | V | | | | |
| 11+20 | 1.1438 | 2.38 | Q | V | | | | |
| 11+25 | 1.1602 | 2.38 | Q | V | | | | |
| 11+30 | 1.1766 | 2.38 | Q | V | | | | |
| 11+35 | 1.1922 | 2.26 | Q | V | | | | |
| 11+40 | 1.2070 | 2.16 | Q | V | | | | |
| 11+45 | 1.2217 | 2.14 | Q | V | | | | |
| 11+50 | 1.2369 | 2.19 | Q | V | | | | |
| 11+55 | 1.2523 | 2.25 | Q | V | | | | |
| 12+ 0 | 1.2679 | 2.25 | Q | V | | | | |
| 12+ 5 | 1.2864 | 2.70 | Q | V | | | | |
| 12+10 | 1.3075 | 3.05 | Q | V | | | | |
| 12+15 | 1.3289 | 3.12 | Q | V | | | | |
| 12+20 | 1.3509 | 3.20 | Q | V | | | | |
| 12+25 | 1.3733 | 3.25 | Q | V | | | | |
| 12+30 | 1.3958 | 3.26 | Q | V | | | | |
| 12+35 | 1.4191 | 3.39 | Q | V | | | | |
| 12+40 | 1.4431 | 3.49 | Q | V | | | | |
| 12+45 | 1.4672 | 3.51 | Q | V | | | | |
| 12+50 | 1.4919 | 3.57 | Q | V | | | | |
| 12+55 | 1.5168 | 3.63 | Q | V | | | | |
| 13+ 0 | 1.5419 | 3.63 | Q | V | | | | |
| 13+ 5 | 1.5691 | 3.95 | Q | V | | | | |
| 13+10 | 1.5980 | 4.20 | Q | V | | | | |
| 13+15 | 1.6273 | 4.25 | Q | V | | | | |
| 13+20 | 1.6567 | 4.26 | Q | V | | | | |
| 13+25 | 1.6860 | 4.26 | Q | V | | | | |
| 13+30 | 1.7154 | 4.26 | Q | V | | | | |
| 13+35 | 1.7400 | 3.57 | Q | V | | | | |
| 13+40 | 1.7608 | 3.01 | Q | V | | | | |
| 13+45 | 1.7808 | 2.92 | Q | V | | | | |
| 13+50 | 1.8007 | 2.88 | Q | V | | | | |
| 13+55 | 1.8206 | 2.88 | Q | V | | | | |
| 14+ 0 | 1.8404 | 2.88 | Q | V | | | | |
| 14+ 5 | 1.8620 | 3.14 | Q | V | | | | |
| 14+10 | 1.8850 | 3.34 | Q | V | | | | |
| 14+15 | 1.9083 | 3.37 | Q | V | | | | |
| 14+20 | 1.9311 | 3.32 | Q | V | | | | |
| 14+25 | 1.9537 | 3.27 | Q | V | | | | |
| 14+30 | 1.9762 | 3.26 | Q | V | | | | |
| 14+35 | 1.9986 | 3.26 | Q | V | | | | |
| 14+40 | 2.0211 | 3.26 | Q | V | | | | |
| 14+45 | 2.0435 | 3.26 | Q | V | | | | |
| 14+50 | 2.0655 | 3.20 | Q | V | | | | |
| 14+55 | 2.0872 | 3.15 | Q | V | | | | |
| 15+ 0 | 2.1088 | 3.14 | Q | V | | | | |
| 15+ 5 | 2.1300 | 3.07 | Q | V | | | | |
| 15+10 | 2.1508 | 3.02 | Q | V | | | | |
| 15+15 | 2.1715 | 3.01 | Q | V | | | | |
| 15+20 | 2.1918 | 2.95 | Q | V | | | | |
| 15+25 | 2.2118 | 2.90 | Q | V | | | | |
| 15+30 | 2.2317 | 2.89 | Q | V | | | | |

| | | | | | | |
|-------|--------|------|---|---|--|---|
| 15+35 | 2.2498 | 2.63 | | Q | | V |
| 15+40 | 2.2665 | 2.43 | | Q | | V |
| 15+45 | 2.2830 | 2.39 | | Q | | V |
| 15+50 | 2.2994 | 2.38 | | Q | | V |
| 15+55 | 2.3158 | 2.38 | | Q | | V |
| 16+ 0 | 2.3323 | 2.38 | | Q | | V |
| 16+ 5 | 2.3422 | 1.44 | Q | | | V |
| 16+10 | 2.3468 | 0.68 | Q | | | V |
| 16+15 | 2.3506 | 0.54 | Q | | | V |
| 16+20 | 2.3540 | 0.50 | Q | | | V |
| 16+25 | 2.3575 | 0.50 | Q | | | V |
| 16+30 | 2.3609 | 0.50 | Q | | | V |
| 16+35 | 2.3640 | 0.44 | Q | | | V |
| 16+40 | 2.3666 | 0.39 | Q | | | V |
| 16+45 | 2.3692 | 0.38 | Q | | | V |
| 16+50 | 2.3718 | 0.38 | Q | | | V |
| 16+55 | 2.3744 | 0.38 | Q | | | V |
| 17+ 0 | 2.3770 | 0.38 | Q | | | V |
| 17+ 5 | 2.3805 | 0.50 | Q | | | V |
| 17+10 | 2.3846 | 0.60 | Q | | | V |
| 17+15 | 2.3889 | 0.62 | Q | | | V |
| 17+20 | 2.3932 | 0.63 | Q | | | V |
| 17+25 | 2.3976 | 0.63 | Q | | | V |
| 17+30 | 2.4019 | 0.63 | Q | | | V |
| 17+35 | 2.4062 | 0.63 | Q | | | V |
| 17+40 | 2.4105 | 0.63 | Q | | | V |
| 17+45 | 2.4148 | 0.63 | Q | | | V |
| 17+50 | 2.4187 | 0.56 | Q | | | V |
| 17+55 | 2.4222 | 0.51 | Q | | | V |
| 18+ 0 | 2.4257 | 0.50 | Q | | | V |
| 18+ 5 | 2.4292 | 0.50 | Q | | | V |
| 18+10 | 2.4326 | 0.50 | Q | | | V |
| 18+15 | 2.4361 | 0.50 | Q | | | V |
| 18+20 | 2.4395 | 0.50 | Q | | | V |
| 18+25 | 2.4430 | 0.50 | Q | | | V |
| 18+30 | 2.4464 | 0.50 | Q | | | V |
| 18+35 | 2.4495 | 0.44 | Q | | | V |
| 18+40 | 2.4521 | 0.39 | Q | | | V |
| 18+45 | 2.4548 | 0.38 | Q | | | V |
| 18+50 | 2.4569 | 0.31 | Q | | | V |
| 18+55 | 2.4587 | 0.26 | Q | | | V |
| 19+ 0 | 2.4605 | 0.25 | Q | | | V |
| 19+ 5 | 2.4626 | 0.31 | Q | | | V |
| 19+10 | 2.4651 | 0.36 | Q | | | V |
| 19+15 | 2.4677 | 0.37 | Q | | | V |
| 19+20 | 2.4707 | 0.44 | Q | | | V |
| 19+25 | 2.4741 | 0.49 | Q | | | V |
| 19+30 | 2.4775 | 0.50 | Q | | | V |
| 19+35 | 2.4806 | 0.44 | Q | | | V |
| 19+40 | 2.4832 | 0.39 | Q | | | V |
| 19+45 | 2.4858 | 0.38 | Q | | | V |
| 19+50 | 2.4880 | 0.31 | Q | | | V |
| 19+55 | 2.4898 | 0.26 | Q | | | V |
| 20+ 0 | 2.4916 | 0.25 | Q | | | V |
| 20+ 5 | 2.4937 | 0.31 | Q | | | V |
| 20+10 | 2.4962 | 0.36 | Q | | | V |
| 20+15 | 2.4988 | 0.37 | Q | | | V |
| 20+20 | 2.5014 | 0.38 | Q | | | V |
| 20+25 | 2.5040 | 0.38 | Q | | | V |
| 20+30 | 2.5066 | 0.38 | Q | | | V |

| | | | | | | | | |
|-------|--------|------|---|--|--|--|---|--|
| 20+35 | 2.5092 | 0.38 | Q | | | | V | |
| 20+40 | 2.5118 | 0.38 | Q | | | | V | |
| 20+45 | 2.5143 | 0.38 | Q | | | | V | |
| 20+50 | 2.5165 | 0.31 | Q | | | | V | |
| 20+55 | 2.5183 | 0.26 | Q | | | | V | |
| 21+ 0 | 2.5201 | 0.25 | Q | | | | V | |
| 21+ 5 | 2.5222 | 0.31 | Q | | | | V | |
| 21+10 | 2.5247 | 0.36 | Q | | | | V | |
| 21+15 | 2.5273 | 0.37 | Q | | | | V | |
| 21+20 | 2.5295 | 0.31 | Q | | | | V | |
| 21+25 | 2.5313 | 0.26 | Q | | | | V | |
| 21+30 | 2.5330 | 0.25 | Q | | | | V | |
| 21+35 | 2.5352 | 0.31 | Q | | | | V | |
| 21+40 | 2.5377 | 0.36 | Q | | | | V | |
| 21+45 | 2.5403 | 0.37 | Q | | | | V | |
| 21+50 | 2.5424 | 0.31 | Q | | | | V | |
| 21+55 | 2.5442 | 0.26 | Q | | | | V | |
| 22+ 0 | 2.5460 | 0.25 | Q | | | | V | |
| 22+ 5 | 2.5481 | 0.31 | Q | | | | V | |
| 22+10 | 2.5506 | 0.36 | Q | | | | V | |
| 22+15 | 2.5532 | 0.37 | Q | | | | V | |
| 22+20 | 2.5554 | 0.31 | Q | | | | V | |
| 22+25 | 2.5572 | 0.26 | Q | | | | V | |
| 22+30 | 2.5589 | 0.25 | Q | | | | V | |
| 22+35 | 2.5607 | 0.25 | Q | | | | V | |
| 22+40 | 2.5624 | 0.25 | Q | | | | V | |
| 22+45 | 2.5641 | 0.25 | Q | | | | V | |
| 22+50 | 2.5658 | 0.25 | Q | | | | V | |
| 22+55 | 2.5676 | 0.25 | Q | | | | V | |
| 23+ 0 | 2.5693 | 0.25 | Q | | | | V | |
| 23+ 5 | 2.5710 | 0.25 | Q | | | | V | |
| 23+10 | 2.5727 | 0.25 | Q | | | | V | |
| 23+15 | 2.5745 | 0.25 | Q | | | | V | |
| 23+20 | 2.5762 | 0.25 | Q | | | | V | |
| 23+25 | 2.5779 | 0.25 | Q | | | | V | |
| 23+30 | 2.5797 | 0.25 | Q | | | | V | |
| 23+35 | 2.5814 | 0.25 | Q | | | | V | |
| 23+40 | 2.5831 | 0.25 | Q | | | | V | |
| 23+45 | 2.5848 | 0.25 | Q | | | | V | |
| 23+50 | 2.5866 | 0.25 | Q | | | | V | |
| 23+55 | 2.5883 | 0.25 | Q | | | | V | |
| 24+ 0 | 2.5900 | 0.25 | Q | | | | V | |
| 24+ 5 | 2.5909 | 0.12 | Q | | | | V | |
| 24+10 | 2.5910 | 0.02 | Q | | | | V | |
| 24+15 | 2.5911 | 0.01 | Q | | | | V | |

Unit Hydrograph Analysis

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Study date 03/24/22 File: 20750BPC24100.out

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Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6310

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

20-750 Building B
PROPOSED
100 YEAR 24 HOUR

Drainage Area = 23.70 (Ac.) = 0.037 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 23.70 (Ac.) = 0.037
Sq. Mi.
Length along longest watercourse = 795.00 (Ft.)
Length along longest watercourse measured to centroid = 475.00 (Ft.)
Length along longest watercourse = 0.151 Mi.
Length along longest watercourse measured to centroid = 0.090 Mi.
Difference in elevation = 6.80 (Ft.)
Slope along watercourse = 45.1623 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.034 Hr.
Lag time = 2.04 Min.
25% of lag time = 0.51 Min.
40% of lag time = 0.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00 (CFS)

2 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 23.70 | 1.60 | 37.92 |

100 YEAR Area rainfall data:

| Area (Ac.) [1] | Rainfall (In) [2] | Weighting [1*2] |
|----------------|-------------------|-----------------|
| 23.70 | 4.00 | 94.80 |

STORM EVENT (YEAR) = 100.00
 Area Averaged 2-Year Rainfall = 1.600 (In)
 Area Averaged 100-Year Rainfall = 4.000 (In)

Point rain (area averaged) = 4.000 (In)
 Areal adjustment factor = 100.00 %
 Adjusted average point rain = 4.000 (In)

Sub-Area Data:

Area (Ac.) Runoff Index Impervious %
 23.700 69.00 0.900
 Total Area Entered = 23.70 (Ac.)

| RI | RI | Infil. Rate | Impervious | Adj. Infil. Rate | Area% | F |
|-----------|-------|-------------|------------|------------------|--------|---------|
| AMC2 | AMC-3 | (In/Hr) | (Dec.%) | (In/Hr) | (Dec.) | (In/Hr) |
| 69.0 | 84.4 | 0.194 | 0.900 | 0.037 | 1.000 | 0.037 |
| Sum (F) = | | | | | | 0.037 |

Area averaged mean soil loss (F) (In/Hr) = 0.109
 Minimum soil loss rate ((In/Hr)) = 0.055
 (for 24 hour storm duration)
 Note: User entry of the f value
 Soil low loss rate (decimal) = 0.180

 U n i t H y d r o g r a p h
 VALLEY S-Curve

Unit Hydrograph Data

| Unit time period (hrs) | Time % of lag | Distribution Graph % | Unit Hydrograph (CFS) |
|---------------------------|---------------|-------------------------|--------------------------|
| 1 | 0.083 | 244.817 | 11.993 |
| 2 | 0.167 | 489.635 | 9.644 |
| 3 | 0.250 | 734.452 | 1.718 |
| 4 | 0.333 | 979.270 | 0.530 |
| Sum = | | 100.000 | Sum= 23.885 |

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

| Unit Time (Hr.) | Pattern Percent | Storm Rain (In/Hr) | Loss rate (In./Hr) | | Effective (In/Hr) |
|--------------------|--------------------|-----------------------|--------------------|-------|----------------------|
| | | | Max | Low | |
| 1 | 0.08 | 0.032 | (0.193) | 0.006 | 0.026 |
| 2 | 0.17 | 0.032 | (0.193) | 0.006 | 0.026 |
| 3 | 0.25 | 0.032 | (0.192) | 0.006 | 0.026 |
| 4 | 0.33 | 0.048 | (0.191) | 0.009 | 0.039 |
| 5 | 0.42 | 0.048 | (0.190) | 0.009 | 0.039 |
| 6 | 0.50 | 0.048 | (0.190) | 0.009 | 0.039 |
| 7 | 0.58 | 0.048 | (0.189) | 0.009 | 0.039 |
| 8 | 0.67 | 0.048 | (0.188) | 0.009 | 0.039 |
| 9 | 0.75 | 0.048 | (0.187) | 0.009 | 0.039 |
| 10 | 0.83 | 0.064 | (0.187) | 0.012 | 0.052 |
| 11 | 0.92 | 0.064 | (0.186) | 0.012 | 0.052 |
| 12 | 1.00 | 0.064 | (0.185) | 0.012 | 0.052 |
| 13 | 1.08 | 0.048 | (0.184) | 0.009 | 0.039 |
| 14 | 1.17 | 0.048 | (0.184) | 0.009 | 0.039 |

| | | | | | | |
|----|------|------|-------|----------|-------|-------|
| 15 | 1.25 | 0.10 | 0.048 | (0.183) | 0.009 | 0.039 |
| 16 | 1.33 | 0.10 | 0.048 | (0.182) | 0.009 | 0.039 |
| 17 | 1.42 | 0.10 | 0.048 | (0.182) | 0.009 | 0.039 |
| 18 | 1.50 | 0.10 | 0.048 | (0.181) | 0.009 | 0.039 |
| 19 | 1.58 | 0.10 | 0.048 | (0.180) | 0.009 | 0.039 |
| 20 | 1.67 | 0.10 | 0.048 | (0.179) | 0.009 | 0.039 |
| 21 | 1.75 | 0.10 | 0.048 | (0.179) | 0.009 | 0.039 |
| 22 | 1.83 | 0.13 | 0.064 | (0.178) | 0.012 | 0.052 |
| 23 | 1.92 | 0.13 | 0.064 | (0.177) | 0.012 | 0.052 |
| 24 | 2.00 | 0.13 | 0.064 | (0.176) | 0.012 | 0.052 |
| 25 | 2.08 | 0.13 | 0.064 | (0.176) | 0.012 | 0.052 |
| 26 | 2.17 | 0.13 | 0.064 | (0.175) | 0.012 | 0.052 |
| 27 | 2.25 | 0.13 | 0.064 | (0.174) | 0.012 | 0.052 |
| 28 | 2.33 | 0.13 | 0.064 | (0.174) | 0.012 | 0.052 |
| 29 | 2.42 | 0.13 | 0.064 | (0.173) | 0.012 | 0.052 |
| 30 | 2.50 | 0.13 | 0.064 | (0.172) | 0.012 | 0.052 |
| 31 | 2.58 | 0.17 | 0.080 | (0.172) | 0.014 | 0.066 |
| 32 | 2.67 | 0.17 | 0.080 | (0.171) | 0.014 | 0.066 |
| 33 | 2.75 | 0.17 | 0.080 | (0.170) | 0.014 | 0.066 |
| 34 | 2.83 | 0.17 | 0.080 | (0.169) | 0.014 | 0.066 |
| 35 | 2.92 | 0.17 | 0.080 | (0.169) | 0.014 | 0.066 |
| 36 | 3.00 | 0.17 | 0.080 | (0.168) | 0.014 | 0.066 |
| 37 | 3.08 | 0.17 | 0.080 | (0.167) | 0.014 | 0.066 |
| 38 | 3.17 | 0.17 | 0.080 | (0.167) | 0.014 | 0.066 |
| 39 | 3.25 | 0.17 | 0.080 | (0.166) | 0.014 | 0.066 |
| 40 | 3.33 | 0.17 | 0.080 | (0.165) | 0.014 | 0.066 |
| 41 | 3.42 | 0.17 | 0.080 | (0.165) | 0.014 | 0.066 |
| 42 | 3.50 | 0.17 | 0.080 | (0.164) | 0.014 | 0.066 |
| 43 | 3.58 | 0.17 | 0.080 | (0.163) | 0.014 | 0.066 |
| 44 | 3.67 | 0.17 | 0.080 | (0.162) | 0.014 | 0.066 |
| 45 | 3.75 | 0.17 | 0.080 | (0.162) | 0.014 | 0.066 |
| 46 | 3.83 | 0.20 | 0.096 | (0.161) | 0.017 | 0.079 |
| 47 | 3.92 | 0.20 | 0.096 | (0.160) | 0.017 | 0.079 |
| 48 | 4.00 | 0.20 | 0.096 | (0.160) | 0.017 | 0.079 |
| 49 | 4.08 | 0.20 | 0.096 | (0.159) | 0.017 | 0.079 |
| 50 | 4.17 | 0.20 | 0.096 | (0.158) | 0.017 | 0.079 |
| 51 | 4.25 | 0.20 | 0.096 | (0.158) | 0.017 | 0.079 |
| 52 | 4.33 | 0.23 | 0.112 | (0.157) | 0.020 | 0.092 |
| 53 | 4.42 | 0.23 | 0.112 | (0.156) | 0.020 | 0.092 |
| 54 | 4.50 | 0.23 | 0.112 | (0.156) | 0.020 | 0.092 |
| 55 | 4.58 | 0.23 | 0.112 | (0.155) | 0.020 | 0.092 |
| 56 | 4.67 | 0.23 | 0.112 | (0.154) | 0.020 | 0.092 |
| 57 | 4.75 | 0.23 | 0.112 | (0.154) | 0.020 | 0.092 |
| 58 | 4.83 | 0.27 | 0.128 | (0.153) | 0.023 | 0.105 |
| 59 | 4.92 | 0.27 | 0.128 | (0.152) | 0.023 | 0.105 |
| 60 | 5.00 | 0.27 | 0.128 | (0.152) | 0.023 | 0.105 |
| 61 | 5.08 | 0.20 | 0.096 | (0.151) | 0.017 | 0.079 |
| 62 | 5.17 | 0.20 | 0.096 | (0.150) | 0.017 | 0.079 |
| 63 | 5.25 | 0.20 | 0.096 | (0.150) | 0.017 | 0.079 |
| 64 | 5.33 | 0.23 | 0.112 | (0.149) | 0.020 | 0.092 |
| 65 | 5.42 | 0.23 | 0.112 | (0.148) | 0.020 | 0.092 |
| 66 | 5.50 | 0.23 | 0.112 | (0.148) | 0.020 | 0.092 |
| 67 | 5.58 | 0.27 | 0.128 | (0.147) | 0.023 | 0.105 |
| 68 | 5.67 | 0.27 | 0.128 | (0.147) | 0.023 | 0.105 |
| 69 | 5.75 | 0.27 | 0.128 | (0.146) | 0.023 | 0.105 |
| 70 | 5.83 | 0.27 | 0.128 | (0.145) | 0.023 | 0.105 |
| 71 | 5.92 | 0.27 | 0.128 | (0.145) | 0.023 | 0.105 |
| 72 | 6.00 | 0.27 | 0.128 | (0.144) | 0.023 | 0.105 |
| 73 | 6.08 | 0.30 | 0.144 | (0.143) | 0.026 | 0.118 |
| 74 | 6.17 | 0.30 | 0.144 | (0.143) | 0.026 | 0.118 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 75 | 6.25 | 0.30 | 0.144 | (0.142) | 0.026 | 0.118 |
| 76 | 6.33 | 0.30 | 0.144 | (0.141) | 0.026 | 0.118 |
| 77 | 6.42 | 0.30 | 0.144 | (0.141) | 0.026 | 0.118 |
| 78 | 6.50 | 0.30 | 0.144 | (0.140) | 0.026 | 0.118 |
| 79 | 6.58 | 0.33 | 0.160 | (0.140) | 0.029 | 0.131 |
| 80 | 6.67 | 0.33 | 0.160 | (0.139) | 0.029 | 0.131 |
| 81 | 6.75 | 0.33 | 0.160 | (0.138) | 0.029 | 0.131 |
| 82 | 6.83 | 0.33 | 0.160 | (0.138) | 0.029 | 0.131 |
| 83 | 6.92 | 0.33 | 0.160 | (0.137) | 0.029 | 0.131 |
| 84 | 7.00 | 0.33 | 0.160 | (0.136) | 0.029 | 0.131 |
| 85 | 7.08 | 0.33 | 0.160 | (0.136) | 0.029 | 0.131 |
| 86 | 7.17 | 0.33 | 0.160 | (0.135) | 0.029 | 0.131 |
| 87 | 7.25 | 0.33 | 0.160 | (0.135) | 0.029 | 0.131 |
| 88 | 7.33 | 0.37 | 0.176 | (0.134) | 0.032 | 0.144 |
| 89 | 7.42 | 0.37 | 0.176 | (0.133) | 0.032 | 0.144 |
| 90 | 7.50 | 0.37 | 0.176 | (0.133) | 0.032 | 0.144 |
| 91 | 7.58 | 0.40 | 0.192 | (0.132) | 0.035 | 0.157 |
| 92 | 7.67 | 0.40 | 0.192 | (0.131) | 0.035 | 0.157 |
| 93 | 7.75 | 0.40 | 0.192 | (0.131) | 0.035 | 0.157 |
| 94 | 7.83 | 0.43 | 0.208 | (0.130) | 0.037 | 0.171 |
| 95 | 7.92 | 0.43 | 0.208 | (0.130) | 0.037 | 0.171 |
| 96 | 8.00 | 0.43 | 0.208 | (0.129) | 0.037 | 0.171 |
| 97 | 8.08 | 0.50 | 0.240 | (0.128) | 0.043 | 0.197 |
| 98 | 8.17 | 0.50 | 0.240 | (0.128) | 0.043 | 0.197 |
| 99 | 8.25 | 0.50 | 0.240 | (0.127) | 0.043 | 0.197 |
| 100 | 8.33 | 0.50 | 0.240 | (0.127) | 0.043 | 0.197 |
| 101 | 8.42 | 0.50 | 0.240 | (0.126) | 0.043 | 0.197 |
| 102 | 8.50 | 0.50 | 0.240 | (0.125) | 0.043 | 0.197 |
| 103 | 8.58 | 0.53 | 0.256 | (0.125) | 0.046 | 0.210 |
| 104 | 8.67 | 0.53 | 0.256 | (0.124) | 0.046 | 0.210 |
| 105 | 8.75 | 0.53 | 0.256 | (0.124) | 0.046 | 0.210 |
| 106 | 8.83 | 0.57 | 0.272 | (0.123) | 0.049 | 0.223 |
| 107 | 8.92 | 0.57 | 0.272 | (0.123) | 0.049 | 0.223 |
| 108 | 9.00 | 0.57 | 0.272 | (0.122) | 0.049 | 0.223 |
| 109 | 9.08 | 0.63 | 0.304 | (0.121) | 0.055 | 0.249 |
| 110 | 9.17 | 0.63 | 0.304 | (0.121) | 0.055 | 0.249 |
| 111 | 9.25 | 0.63 | 0.304 | (0.120) | 0.055 | 0.249 |
| 112 | 9.33 | 0.67 | 0.320 | (0.120) | 0.058 | 0.262 |
| 113 | 9.42 | 0.67 | 0.320 | (0.119) | 0.058 | 0.262 |
| 114 | 9.50 | 0.67 | 0.320 | (0.119) | 0.058 | 0.262 |
| 115 | 9.58 | 0.70 | 0.336 | (0.118) | 0.060 | 0.276 |
| 116 | 9.67 | 0.70 | 0.336 | (0.117) | 0.060 | 0.276 |
| 117 | 9.75 | 0.70 | 0.336 | (0.117) | 0.060 | 0.276 |
| 118 | 9.83 | 0.73 | 0.352 | (0.116) | 0.063 | 0.289 |
| 119 | 9.92 | 0.73 | 0.352 | (0.116) | 0.063 | 0.289 |
| 120 | 10.00 | 0.73 | 0.352 | (0.115) | 0.063 | 0.289 |
| 121 | 10.08 | 0.50 | 0.240 | (0.115) | 0.043 | 0.197 |
| 122 | 10.17 | 0.50 | 0.240 | (0.114) | 0.043 | 0.197 |
| 123 | 10.25 | 0.50 | 0.240 | (0.113) | 0.043 | 0.197 |
| 124 | 10.33 | 0.50 | 0.240 | (0.113) | 0.043 | 0.197 |
| 125 | 10.42 | 0.50 | 0.240 | (0.112) | 0.043 | 0.197 |
| 126 | 10.50 | 0.50 | 0.240 | (0.112) | 0.043 | 0.197 |
| 127 | 10.58 | 0.67 | 0.320 | (0.111) | 0.058 | 0.262 |
| 128 | 10.67 | 0.67 | 0.320 | (0.111) | 0.058 | 0.262 |
| 129 | 10.75 | 0.67 | 0.320 | (0.110) | 0.058 | 0.262 |
| 130 | 10.83 | 0.67 | 0.320 | (0.110) | 0.058 | 0.262 |
| 131 | 10.92 | 0.67 | 0.320 | (0.109) | 0.058 | 0.262 |
| 132 | 11.00 | 0.67 | 0.320 | (0.109) | 0.058 | 0.262 |
| 133 | 11.08 | 0.63 | 0.304 | (0.108) | 0.055 | 0.249 |
| 134 | 11.17 | 0.63 | 0.304 | (0.108) | 0.055 | 0.249 |

| | | | | | | |
|-----|-------|------|-------|----------------|-------|-------|
| 135 | 11.25 | 0.63 | 0.304 | (0.107) | 0.055 | 0.249 |
| 136 | 11.33 | 0.63 | 0.304 | (0.106) | 0.055 | 0.249 |
| 137 | 11.42 | 0.63 | 0.304 | (0.106) | 0.055 | 0.249 |
| 138 | 11.50 | 0.63 | 0.304 | (0.105) | 0.055 | 0.249 |
| 139 | 11.58 | 0.57 | 0.272 | (0.105) | 0.049 | 0.223 |
| 140 | 11.67 | 0.57 | 0.272 | (0.104) | 0.049 | 0.223 |
| 141 | 11.75 | 0.57 | 0.272 | (0.104) | 0.049 | 0.223 |
| 142 | 11.83 | 0.60 | 0.288 | (0.103) | 0.052 | 0.236 |
| 143 | 11.92 | 0.60 | 0.288 | (0.103) | 0.052 | 0.236 |
| 144 | 12.00 | 0.60 | 0.288 | (0.102) | 0.052 | 0.236 |
| 145 | 12.08 | 0.83 | 0.400 | (0.102) | 0.072 | 0.328 |
| 146 | 12.17 | 0.83 | 0.400 | (0.101) | 0.072 | 0.328 |
| 147 | 12.25 | 0.83 | 0.400 | (0.101) | 0.072 | 0.328 |
| 148 | 12.33 | 0.87 | 0.416 | (0.100) | 0.075 | 0.341 |
| 149 | 12.42 | 0.87 | 0.416 | (0.100) | 0.075 | 0.341 |
| 150 | 12.50 | 0.87 | 0.416 | (0.099) | 0.075 | 0.341 |
| 151 | 12.58 | 0.93 | 0.448 | (0.099) | 0.081 | 0.367 |
| 152 | 12.67 | 0.93 | 0.448 | (0.098) | 0.081 | 0.367 |
| 153 | 12.75 | 0.93 | 0.448 | (0.098) | 0.081 | 0.367 |
| 154 | 12.83 | 0.97 | 0.464 | (0.097) | 0.084 | 0.380 |
| 155 | 12.92 | 0.97 | 0.464 | (0.097) | 0.084 | 0.380 |
| 156 | 13.00 | 0.97 | 0.464 | (0.096) | 0.084 | 0.380 |
| 157 | 13.08 | 1.13 | 0.544 | 0.096 (0.098) | | 0.448 |
| 158 | 13.17 | 1.13 | 0.544 | 0.095 (0.098) | | 0.449 |
| 159 | 13.25 | 1.13 | 0.544 | 0.095 (0.098) | | 0.449 |
| 160 | 13.33 | 1.13 | 0.544 | 0.094 (0.098) | | 0.450 |
| 161 | 13.42 | 1.13 | 0.544 | 0.094 (0.098) | | 0.450 |
| 162 | 13.50 | 1.13 | 0.544 | 0.093 (0.098) | | 0.451 |
| 163 | 13.58 | 0.77 | 0.368 | (0.093) | 0.066 | 0.302 |
| 164 | 13.67 | 0.77 | 0.368 | (0.092) | 0.066 | 0.302 |
| 165 | 13.75 | 0.77 | 0.368 | (0.092) | 0.066 | 0.302 |
| 166 | 13.83 | 0.77 | 0.368 | (0.092) | 0.066 | 0.302 |
| 167 | 13.92 | 0.77 | 0.368 | (0.091) | 0.066 | 0.302 |
| 168 | 14.00 | 0.77 | 0.368 | (0.091) | 0.066 | 0.302 |
| 169 | 14.08 | 0.90 | 0.432 | (0.090) | 0.078 | 0.354 |
| 170 | 14.17 | 0.90 | 0.432 | (0.090) | 0.078 | 0.354 |
| 171 | 14.25 | 0.90 | 0.432 | (0.089) | 0.078 | 0.354 |
| 172 | 14.33 | 0.87 | 0.416 | (0.089) | 0.075 | 0.341 |
| 173 | 14.42 | 0.87 | 0.416 | (0.088) | 0.075 | 0.341 |
| 174 | 14.50 | 0.87 | 0.416 | (0.088) | 0.075 | 0.341 |
| 175 | 14.58 | 0.87 | 0.416 | (0.087) | 0.075 | 0.341 |
| 176 | 14.67 | 0.87 | 0.416 | (0.087) | 0.075 | 0.341 |
| 177 | 14.75 | 0.87 | 0.416 | (0.086) | 0.075 | 0.341 |
| 178 | 14.83 | 0.83 | 0.400 | (0.086) | 0.072 | 0.328 |
| 179 | 14.92 | 0.83 | 0.400 | (0.086) | 0.072 | 0.328 |
| 180 | 15.00 | 0.83 | 0.400 | (0.085) | 0.072 | 0.328 |
| 181 | 15.08 | 0.80 | 0.384 | (0.085) | 0.069 | 0.315 |
| 182 | 15.17 | 0.80 | 0.384 | (0.084) | 0.069 | 0.315 |
| 183 | 15.25 | 0.80 | 0.384 | (0.084) | 0.069 | 0.315 |
| 184 | 15.33 | 0.77 | 0.368 | (0.083) | 0.066 | 0.302 |
| 185 | 15.42 | 0.77 | 0.368 | (0.083) | 0.066 | 0.302 |
| 186 | 15.50 | 0.77 | 0.368 | (0.083) | 0.066 | 0.302 |
| 187 | 15.58 | 0.63 | 0.304 | (0.082) | 0.055 | 0.249 |
| 188 | 15.67 | 0.63 | 0.304 | (0.082) | 0.055 | 0.249 |
| 189 | 15.75 | 0.63 | 0.304 | (0.081) | 0.055 | 0.249 |
| 190 | 15.83 | 0.63 | 0.304 | (0.081) | 0.055 | 0.249 |
| 191 | 15.92 | 0.63 | 0.304 | (0.080) | 0.055 | 0.249 |
| 192 | 16.00 | 0.63 | 0.304 | (0.080) | 0.055 | 0.249 |
| 193 | 16.08 | 0.13 | 0.064 | (0.080) | 0.012 | 0.052 |
| 194 | 16.17 | 0.13 | 0.064 | (0.079) | 0.012 | 0.052 |

| | | | | | | |
|-----|-------|------|-------|----------|-------|-------|
| 195 | 16.25 | 0.13 | 0.064 | (0.079) | 0.012 | 0.052 |
| 196 | 16.33 | 0.13 | 0.064 | (0.078) | 0.012 | 0.052 |
| 197 | 16.42 | 0.13 | 0.064 | (0.078) | 0.012 | 0.052 |
| 198 | 16.50 | 0.13 | 0.064 | (0.078) | 0.012 | 0.052 |
| 199 | 16.58 | 0.10 | 0.048 | (0.077) | 0.009 | 0.039 |
| 200 | 16.67 | 0.10 | 0.048 | (0.077) | 0.009 | 0.039 |
| 201 | 16.75 | 0.10 | 0.048 | (0.076) | 0.009 | 0.039 |
| 202 | 16.83 | 0.10 | 0.048 | (0.076) | 0.009 | 0.039 |
| 203 | 16.92 | 0.10 | 0.048 | (0.076) | 0.009 | 0.039 |
| 204 | 17.00 | 0.10 | 0.048 | (0.075) | 0.009 | 0.039 |
| 205 | 17.08 | 0.17 | 0.080 | (0.075) | 0.014 | 0.066 |
| 206 | 17.17 | 0.17 | 0.080 | (0.075) | 0.014 | 0.066 |
| 207 | 17.25 | 0.17 | 0.080 | (0.074) | 0.014 | 0.066 |
| 208 | 17.33 | 0.17 | 0.080 | (0.074) | 0.014 | 0.066 |
| 209 | 17.42 | 0.17 | 0.080 | (0.073) | 0.014 | 0.066 |
| 210 | 17.50 | 0.17 | 0.080 | (0.073) | 0.014 | 0.066 |
| 211 | 17.58 | 0.17 | 0.080 | (0.073) | 0.014 | 0.066 |
| 212 | 17.67 | 0.17 | 0.080 | (0.072) | 0.014 | 0.066 |
| 213 | 17.75 | 0.17 | 0.080 | (0.072) | 0.014 | 0.066 |
| 214 | 17.83 | 0.13 | 0.064 | (0.072) | 0.012 | 0.052 |
| 215 | 17.92 | 0.13 | 0.064 | (0.071) | 0.012 | 0.052 |
| 216 | 18.00 | 0.13 | 0.064 | (0.071) | 0.012 | 0.052 |
| 217 | 18.08 | 0.13 | 0.064 | (0.071) | 0.012 | 0.052 |
| 218 | 18.17 | 0.13 | 0.064 | (0.070) | 0.012 | 0.052 |
| 219 | 18.25 | 0.13 | 0.064 | (0.070) | 0.012 | 0.052 |
| 220 | 18.33 | 0.13 | 0.064 | (0.070) | 0.012 | 0.052 |
| 221 | 18.42 | 0.13 | 0.064 | (0.069) | 0.012 | 0.052 |
| 222 | 18.50 | 0.13 | 0.064 | (0.069) | 0.012 | 0.052 |
| 223 | 18.58 | 0.10 | 0.048 | (0.069) | 0.009 | 0.039 |
| 224 | 18.67 | 0.10 | 0.048 | (0.068) | 0.009 | 0.039 |
| 225 | 18.75 | 0.10 | 0.048 | (0.068) | 0.009 | 0.039 |
| 226 | 18.83 | 0.07 | 0.032 | (0.068) | 0.006 | 0.026 |
| 227 | 18.92 | 0.07 | 0.032 | (0.067) | 0.006 | 0.026 |
| 228 | 19.00 | 0.07 | 0.032 | (0.067) | 0.006 | 0.026 |
| 229 | 19.08 | 0.10 | 0.048 | (0.067) | 0.009 | 0.039 |
| 230 | 19.17 | 0.10 | 0.048 | (0.066) | 0.009 | 0.039 |
| 231 | 19.25 | 0.10 | 0.048 | (0.066) | 0.009 | 0.039 |
| 232 | 19.33 | 0.13 | 0.064 | (0.066) | 0.012 | 0.052 |
| 233 | 19.42 | 0.13 | 0.064 | (0.065) | 0.012 | 0.052 |
| 234 | 19.50 | 0.13 | 0.064 | (0.065) | 0.012 | 0.052 |
| 235 | 19.58 | 0.10 | 0.048 | (0.065) | 0.009 | 0.039 |
| 236 | 19.67 | 0.10 | 0.048 | (0.064) | 0.009 | 0.039 |
| 237 | 19.75 | 0.10 | 0.048 | (0.064) | 0.009 | 0.039 |
| 238 | 19.83 | 0.07 | 0.032 | (0.064) | 0.006 | 0.026 |
| 239 | 19.92 | 0.07 | 0.032 | (0.064) | 0.006 | 0.026 |
| 240 | 20.00 | 0.07 | 0.032 | (0.063) | 0.006 | 0.026 |
| 241 | 20.08 | 0.10 | 0.048 | (0.063) | 0.009 | 0.039 |
| 242 | 20.17 | 0.10 | 0.048 | (0.063) | 0.009 | 0.039 |
| 243 | 20.25 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 244 | 20.33 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 245 | 20.42 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 246 | 20.50 | 0.10 | 0.048 | (0.062) | 0.009 | 0.039 |
| 247 | 20.58 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 248 | 20.67 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 249 | 20.75 | 0.10 | 0.048 | (0.061) | 0.009 | 0.039 |
| 250 | 20.83 | 0.07 | 0.032 | (0.061) | 0.006 | 0.026 |
| 251 | 20.92 | 0.07 | 0.032 | (0.060) | 0.006 | 0.026 |
| 252 | 21.00 | 0.07 | 0.032 | (0.060) | 0.006 | 0.026 |
| 253 | 21.08 | 0.10 | 0.048 | (0.060) | 0.009 | 0.039 |
| 254 | 21.17 | 0.10 | 0.048 | (0.060) | 0.009 | 0.039 |

| | | | | | | | |
|------|--------|------|-----|--|--|--|--|
| 0+30 | 0.0284 | 0.93 | VQ | | | | |
| 0+35 | 0.0349 | 0.94 | VQ | | | | |
| 0+40 | 0.0414 | 0.94 | VQ | | | | |
| 0+45 | 0.0478 | 0.94 | VQ | | | | |
| 0+50 | 0.0554 | 1.10 | V Q | | | | |
| 0+55 | 0.0638 | 1.22 | V Q | | | | |
| 1+ 0 | 0.0724 | 1.25 | V Q | | | | |
| 1+ 5 | 0.0800 | 1.10 | V Q | | | | |
| 1+10 | 0.0867 | 0.97 | VQ | | | | |
| 1+15 | 0.0932 | 0.95 | VQ | | | | |
| 1+20 | 0.0997 | 0.94 | VQ | | | | |
| 1+25 | 0.1061 | 0.94 | VQ | | | | |
| 1+30 | 0.1126 | 0.94 | VQ | | | | |
| 1+35 | 0.1191 | 0.94 | VQ | | | | |
| 1+40 | 0.1256 | 0.94 | VQ | | | | |
| 1+45 | 0.1321 | 0.94 | VQ | | | | |
| 1+50 | 0.1396 | 1.10 | V Q | | | | |
| 1+55 | 0.1480 | 1.22 | V Q | | | | |
| 2+ 0 | 0.1566 | 1.25 | V Q | | | | |
| 2+ 5 | 0.1653 | 1.25 | VQ | | | | |
| 2+10 | 0.1739 | 1.25 | VQ | | | | |
| 2+15 | 0.1825 | 1.25 | VQ | | | | |
| 2+20 | 0.1912 | 1.25 | VQ | | | | |
| 2+25 | 0.1998 | 1.25 | VQ | | | | |
| 2+30 | 0.2085 | 1.25 | VQ | | | | |
| 2+35 | 0.2182 | 1.41 | VQ | | | | |
| 2+40 | 0.2288 | 1.54 | V Q | | | | |
| 2+45 | 0.2395 | 1.56 | V Q | | | | |
| 2+50 | 0.2503 | 1.57 | V Q | | | | |
| 2+55 | 0.2611 | 1.57 | V Q | | | | |
| 3+ 0 | 0.2719 | 1.57 | V Q | | | | |
| 3+ 5 | 0.2827 | 1.57 | V Q | | | | |
| 3+10 | 0.2935 | 1.57 | V Q | | | | |
| 3+15 | 0.3043 | 1.57 | V Q | | | | |
| 3+20 | 0.3151 | 1.57 | V Q | | | | |
| 3+25 | 0.3259 | 1.57 | VQ | | | | |
| 3+30 | 0.3367 | 1.57 | VQ | | | | |
| 3+35 | 0.3475 | 1.57 | VQ | | | | |
| 3+40 | 0.3583 | 1.57 | VQ | | | | |
| 3+45 | 0.3691 | 1.57 | VQ | | | | |
| 3+50 | 0.3810 | 1.73 | VQ | | | | |
| 3+55 | 0.3937 | 1.85 | VQ | | | | |
| 4+ 0 | 0.4066 | 1.87 | VQ | | | | |
| 4+ 5 | 0.4196 | 1.88 | VQ | | | | |
| 4+10 | 0.4325 | 1.88 | VQ | | | | |
| 4+15 | 0.4455 | 1.88 | VQ | | | | |
| 4+20 | 0.4595 | 2.04 | V Q | | | | |
| 4+25 | 0.4744 | 2.17 | V Q | | | | |
| 4+30 | 0.4895 | 2.19 | VQ | | | | |
| 4+35 | 0.5046 | 2.19 | VQ | | | | |
| 4+40 | 0.5197 | 2.19 | VQ | | | | |
| 4+45 | 0.5348 | 2.19 | VQ | | | | |
| 4+50 | 0.5510 | 2.35 | VQ | | | | |
| 4+55 | 0.5681 | 2.48 | VQ | | | | |
| 5+ 0 | 0.5853 | 2.50 | V Q | | | | |
| 5+ 5 | 0.6004 | 2.19 | VQ | | | | |
| 5+10 | 0.6138 | 1.94 | Q | | | | |
| 5+15 | 0.6269 | 1.90 | Q | | | | |
| 5+20 | 0.6409 | 2.04 | VQ | | | | |
| 5+25 | 0.6558 | 2.17 | Q | | | | |

| | | | | | | | |
|-------|--------|------|----|---|--|--|--|
| 5+30 | 0.6709 | 2.19 | Q | | | | |
| 5+35 | 0.6871 | 2.35 | Q | | | | |
| 5+40 | 0.7041 | 2.48 | Q | | | | |
| 5+45 | 0.7214 | 2.50 | VQ | | | | |
| 5+50 | 0.7386 | 2.51 | VQ | | | | |
| 5+55 | 0.7559 | 2.51 | VQ | | | | |
| 6+ 0 | 0.7732 | 2.51 | VQ | | | | |
| 6+ 5 | 0.7915 | 2.67 | VQ | | | | |
| 6+10 | 0.8108 | 2.79 | Q | | | | |
| 6+15 | 0.8302 | 2.81 | Q | | | | |
| 6+20 | 0.8496 | 2.82 | Q | | | | |
| 6+25 | 0.8690 | 2.82 | Q | | | | |
| 6+30 | 0.8885 | 2.82 | Q | | | | |
| 6+35 | 0.9090 | 2.98 | Q | | | | |
| 6+40 | 0.9304 | 3.11 | VQ | | | | |
| 6+45 | 0.9519 | 3.13 | VQ | | | | |
| 6+50 | 0.9735 | 3.14 | Q | | | | |
| 6+55 | 0.9951 | 3.14 | Q | | | | |
| 7+ 0 | 1.0167 | 3.14 | Q | | | | |
| 7+ 5 | 1.0383 | 3.14 | Q | | | | |
| 7+10 | 1.0599 | 3.14 | Q | | | | |
| 7+15 | 1.0815 | 3.14 | Q | | | | |
| 7+20 | 1.1041 | 3.29 | Q | | | | |
| 7+25 | 1.1277 | 3.42 | Q | | | | |
| 7+30 | 1.1514 | 3.44 | QV | | | | |
| 7+35 | 1.1762 | 3.61 | Q | | | | |
| 7+40 | 1.2019 | 3.73 | Q | | | | |
| 7+45 | 1.2278 | 3.76 | Q | | | | |
| 7+50 | 1.2548 | 3.92 | Q | | | | |
| 7+55 | 1.2827 | 4.05 | VQ | | | | |
| 8+ 0 | 1.3107 | 4.07 | Q | | | | |
| 8+ 5 | 1.3409 | 4.39 | Q | | | | |
| 8+10 | 1.3729 | 4.64 | VQ | | | | |
| 8+15 | 1.4052 | 4.69 | VQ | | | | |
| 8+20 | 1.4376 | 4.70 | VQ | | | | |
| 8+25 | 1.4700 | 4.70 | Q | | | | |
| 8+30 | 1.5024 | 4.70 | Q | | | | |
| 8+35 | 1.5358 | 4.86 | Q | | | | |
| 8+40 | 1.5702 | 4.99 | Q | | | | |
| 8+45 | 1.6047 | 5.01 | VQ | | | | |
| 8+50 | 1.6403 | 5.17 | Q | | | | |
| 8+55 | 1.6768 | 5.30 | Q | | | | |
| 9+ 0 | 1.7135 | 5.32 | Q | | | | |
| 9+ 5 | 1.7524 | 5.64 | VQ | | | | |
| 9+10 | 1.7930 | 5.90 | Q | | | | |
| 9+15 | 1.8339 | 5.94 | Q | | | | |
| 9+20 | 1.8760 | 6.11 | VQ | | | | |
| 9+25 | 1.9190 | 6.24 | VQ | | | | |
| 9+30 | 1.9621 | 6.26 | Q | | | | |
| 9+35 | 2.0064 | 6.43 | Q | | | | |
| 9+40 | 2.0515 | 6.55 | VQ | | | | |
| 9+45 | 2.0968 | 6.58 | VQ | | | | |
| 9+50 | 2.1433 | 6.74 | Q | | | | |
| 9+55 | 2.1906 | 6.87 | Q | | | | |
| 10+ 0 | 2.2380 | 6.89 | Q | | | | |
| 10+ 5 | 2.2779 | 5.80 | Q | V | | | |
| 10+10 | 2.3117 | 4.91 | Q | V | | | |
| 10+15 | 2.3445 | 4.75 | Q | V | | | |
| 10+20 | 2.3769 | 4.70 | Q | V | | | |
| 10+25 | 2.4092 | 4.70 | Q | V | | | |

| | | | | | | | | |
|-------|--------|-------|--|---|---|---|--|--|
| 10+30 | 2.4416 | 4.70 | | Q | V | | | |
| 10+35 | 2.4794 | 5.49 | | Q | V | | | |
| 10+40 | 2.5216 | 6.12 | | | Q | V | | |
| 10+45 | 2.5646 | 6.24 | | | Q | V | | |
| 10+50 | 2.6077 | 6.27 | | | Q | V | | |
| 10+55 | 2.6509 | 6.27 | | | Q | V | | |
| 11+ 0 | 2.6941 | 6.27 | | | Q | V | | |
| 11+ 5 | 2.7362 | 6.11 | | | Q | V | | |
| 11+10 | 2.7774 | 5.99 | | | Q | V | | |
| 11+15 | 2.8185 | 5.96 | | | Q | V | | |
| 11+20 | 2.8595 | 5.96 | | | Q | V | | |
| 11+25 | 2.9006 | 5.96 | | | Q | V | | |
| 11+30 | 2.9416 | 5.96 | | | Q | V | | |
| 11+35 | 2.9804 | 5.64 | | | Q | V | | |
| 11+40 | 3.0176 | 5.39 | | | Q | V | | |
| 11+45 | 3.0544 | 5.34 | | | Q | V | | |
| 11+50 | 3.0922 | 5.49 | | | Q | V | | |
| 11+55 | 3.1308 | 5.61 | | | Q | V | | |
| 12+ 0 | 3.1696 | 5.64 | | | Q | V | | |
| 12+ 5 | 3.2161 | 6.75 | | | Q | V | | |
| 12+10 | 3.2686 | 7.63 | | | Q | V | | |
| 12+15 | 3.3223 | 7.79 | | | Q | V | | |
| 12+20 | 3.3774 | 8.00 | | | Q | V | | |
| 12+25 | 3.4333 | 8.12 | | | Q | V | | |
| 12+30 | 3.4894 | 8.14 | | | Q | V | | |
| 12+35 | 3.5477 | 8.47 | | | Q | V | | |
| 12+40 | 3.6077 | 8.72 | | | Q | V | | |
| 12+45 | 3.6681 | 8.76 | | | Q | V | | |
| 12+50 | 3.7297 | 8.94 | | | Q | V | | |
| 12+55 | 3.7921 | 9.06 | | | Q | V | | |
| 13+ 0 | 3.8546 | 9.09 | | | Q | V | | |
| 13+ 5 | 3.9228 | 9.90 | | | Q | V | | |
| 13+10 | 3.9956 | 10.56 | | | Q | V | | |
| 13+15 | 4.0692 | 10.69 | | | Q | V | | |
| 13+20 | 4.1432 | 10.74 | | | Q | V | | |
| 13+25 | 4.2172 | 10.75 | | | Q | V | | |
| 13+30 | 4.2913 | 10.76 | | | Q | V | | |
| 13+35 | 4.3532 | 8.98 | | | Q | V | | |
| 13+40 | 4.4051 | 7.55 | | | Q | V | | |
| 13+45 | 4.4553 | 7.29 | | | Q | V | | |
| 13+50 | 4.5050 | 7.21 | | | Q | V | | |
| 13+55 | 4.5547 | 7.21 | | | Q | V | | |
| 14+ 0 | 4.6043 | 7.21 | | | Q | V | | |
| 14+ 5 | 4.6583 | 7.84 | | | Q | V | | |
| 14+10 | 4.7158 | 8.35 | | | Q | V | | |
| 14+15 | 4.7739 | 8.44 | | | Q | V | | |
| 14+20 | 4.8311 | 8.31 | | | Q | V | | |
| 14+25 | 4.8875 | 8.18 | | | Q | V | | |
| 14+30 | 4.9437 | 8.16 | | | Q | V | | |
| 14+35 | 4.9998 | 8.15 | | | Q | V | | |
| 14+40 | 5.0559 | 8.15 | | | Q | V | | |
| 14+45 | 5.1121 | 8.15 | | | Q | V | | |
| 14+50 | 5.1671 | 7.99 | | | Q | V | | |
| 14+55 | 5.2213 | 7.87 | | | Q | V | | |
| 15+ 0 | 5.2753 | 7.84 | | | Q | V | | |
| 15+ 5 | 5.3282 | 7.68 | | | Q | V | | |
| 15+10 | 5.3803 | 7.55 | | | Q | V | | |
| 15+15 | 5.4321 | 7.53 | | | Q | V | | |
| 15+20 | 5.4829 | 7.37 | | | Q | V | | |
| 15+25 | 5.5327 | 7.24 | | | Q | V | | |

| | | | | | | | | |
|-------|--------|------|--|---|--|--|---|--|
| 15+30 | 5.5825 | 7.22 | | | | | V | |
| 15+35 | 5.6278 | 6.58 | | | | | V | |
| 15+40 | 5.6696 | 6.07 | | | | | V | |
| 15+45 | 5.7108 | 5.98 | | | | | V | |
| 15+50 | 5.7519 | 5.96 | | | | | V | |
| 15+55 | 5.7929 | 5.96 | | | | | V | |
| 16+ 0 | 5.8339 | 5.96 | | | | | V | |
| 16+ 5 | 5.8587 | 3.60 | | Q | | | V | |
| 16+10 | 5.8704 | 1.70 | | Q | | | V | |
| 16+15 | 5.8797 | 1.36 | | Q | | | V | |
| 16+20 | 5.8884 | 1.25 | | Q | | | V | |
| 16+25 | 5.8970 | 1.25 | | Q | | | V | |
| 16+30 | 5.9056 | 1.25 | | Q | | | V | |
| 16+35 | 5.9132 | 1.10 | | Q | | | V | |
| 16+40 | 5.9199 | 0.97 | | Q | | | V | |
| 16+45 | 5.9264 | 0.95 | | Q | | | V | |
| 16+50 | 5.9329 | 0.94 | | Q | | | V | |
| 16+55 | 5.9393 | 0.94 | | Q | | | V | |
| 17+ 0 | 5.9458 | 0.94 | | Q | | | V | |
| 17+ 5 | 5.9545 | 1.26 | | Q | | | V | |
| 17+10 | 5.9649 | 1.51 | | Q | | | V | |
| 17+15 | 5.9756 | 1.55 | | Q | | | V | |
| 17+20 | 5.9864 | 1.57 | | Q | | | V | |
| 17+25 | 5.9971 | 1.57 | | Q | | | V | |
| 17+30 | 6.0079 | 1.57 | | Q | | | V | |
| 17+35 | 6.0187 | 1.57 | | Q | | | V | |
| 17+40 | 6.0295 | 1.57 | | Q | | | V | |
| 17+45 | 6.0403 | 1.57 | | Q | | | V | |
| 17+50 | 6.0500 | 1.41 | | Q | | | V | |
| 17+55 | 6.0589 | 1.28 | | Q | | | V | |
| 18+ 0 | 6.0676 | 1.26 | | Q | | | V | |
| 18+ 5 | 6.0762 | 1.25 | | Q | | | V | |
| 18+10 | 6.0848 | 1.25 | | Q | | | V | |
| 18+15 | 6.0935 | 1.25 | | Q | | | V | |
| 18+20 | 6.1021 | 1.25 | | Q | | | V | |
| 18+25 | 6.1108 | 1.25 | | Q | | | V | |
| 18+30 | 6.1194 | 1.25 | | Q | | | V | |
| 18+35 | 6.1269 | 1.10 | | Q | | | V | |
| 18+40 | 6.1336 | 0.97 | | Q | | | V | |
| 18+45 | 6.1401 | 0.95 | | Q | | | V | |
| 18+50 | 6.1455 | 0.78 | | Q | | | V | |
| 18+55 | 6.1501 | 0.66 | | Q | | | V | |
| 19+ 0 | 6.1544 | 0.63 | | Q | | | V | |
| 19+ 5 | 6.1598 | 0.78 | | Q | | | V | |
| 19+10 | 6.1661 | 0.91 | | Q | | | V | |
| 19+15 | 6.1725 | 0.93 | | Q | | | V | |
| 19+20 | 6.1801 | 1.10 | | Q | | | V | |
| 19+25 | 6.1885 | 1.22 | | Q | | | V | |
| 19+30 | 6.1971 | 1.25 | | Q | | | V | |
| 19+35 | 6.2047 | 1.10 | | Q | | | V | |
| 19+40 | 6.2114 | 0.97 | | Q | | | V | |
| 19+45 | 6.2179 | 0.95 | | Q | | | V | |
| 19+50 | 6.2233 | 0.78 | | Q | | | V | |
| 19+55 | 6.2278 | 0.66 | | Q | | | V | |
| 20+ 0 | 6.2322 | 0.63 | | Q | | | V | |
| 20+ 5 | 6.2376 | 0.78 | | Q | | | V | |
| 20+10 | 6.2438 | 0.91 | | Q | | | V | |
| 20+15 | 6.2503 | 0.93 | | Q | | | V | |
| 20+20 | 6.2567 | 0.94 | | Q | | | V | |
| 20+25 | 6.2632 | 0.94 | | Q | | | V | |

| | | | | | | | | |
|-------|--------|------|---|--|--|--|---|--|
| 20+30 | 6.2697 | 0.94 | Q | | | | V | |
| 20+35 | 6.2762 | 0.94 | Q | | | | V | |
| 20+40 | 6.2827 | 0.94 | Q | | | | V | |
| 20+45 | 6.2891 | 0.94 | Q | | | | V | |
| 20+50 | 6.2945 | 0.78 | Q | | | | V | |
| 20+55 | 6.2991 | 0.66 | Q | | | | V | |
| 21+ 0 | 6.3034 | 0.63 | Q | | | | V | |
| 21+ 5 | 6.3088 | 0.78 | Q | | | | V | |
| 21+10 | 6.3151 | 0.91 | Q | | | | V | |
| 21+15 | 6.3215 | 0.93 | Q | | | | V | |
| 21+20 | 6.3269 | 0.78 | Q | | | | V | |
| 21+25 | 6.3314 | 0.66 | Q | | | | V | |
| 21+30 | 6.3358 | 0.63 | Q | | | | V | |
| 21+35 | 6.3412 | 0.78 | Q | | | | V | |
| 21+40 | 6.3475 | 0.91 | Q | | | | V | |
| 21+45 | 6.3539 | 0.93 | Q | | | | V | |
| 21+50 | 6.3593 | 0.78 | Q | | | | V | |
| 21+55 | 6.3638 | 0.66 | Q | | | | V | |
| 22+ 0 | 6.3682 | 0.63 | Q | | | | V | |
| 22+ 5 | 6.3736 | 0.78 | Q | | | | V | |
| 22+10 | 6.3799 | 0.91 | Q | | | | V | |
| 22+15 | 6.3863 | 0.93 | Q | | | | V | |
| 22+20 | 6.3917 | 0.78 | Q | | | | V | |
| 22+25 | 6.3962 | 0.66 | Q | | | | V | |
| 22+30 | 6.4006 | 0.63 | Q | | | | V | |
| 22+35 | 6.4049 | 0.63 | Q | | | | V | |
| 22+40 | 6.4092 | 0.63 | Q | | | | V | |
| 22+45 | 6.4135 | 0.63 | Q | | | | V | |
| 22+50 | 6.4179 | 0.63 | Q | | | | V | |
| 22+55 | 6.4222 | 0.63 | Q | | | | V | |
| 23+ 0 | 6.4265 | 0.63 | Q | | | | V | |
| 23+ 5 | 6.4308 | 0.63 | Q | | | | V | |
| 23+10 | 6.4351 | 0.63 | Q | | | | V | |
| 23+15 | 6.4394 | 0.63 | Q | | | | V | |
| 23+20 | 6.4438 | 0.63 | Q | | | | V | |
| 23+25 | 6.4481 | 0.63 | Q | | | | V | |
| 23+30 | 6.4524 | 0.63 | Q | | | | V | |
| 23+35 | 6.4567 | 0.63 | Q | | | | V | |
| 23+40 | 6.4610 | 0.63 | Q | | | | V | |
| 23+45 | 6.4654 | 0.63 | Q | | | | V | |
| 23+50 | 6.4697 | 0.63 | Q | | | | V | |
| 23+55 | 6.4740 | 0.63 | Q | | | | V | |
| 24+ 0 | 6.4783 | 0.63 | Q | | | | V | |
| 24+ 5 | 6.4805 | 0.31 | Q | | | | V | |
| 24+10 | 6.4809 | 0.06 | Q | | | | V | |
| 24+15 | 6.4810 | 0.01 | Q | | | | V | |

APPENDIX D

Detention Analysis (Hydraflow)

2 - Year

| | |
|--|----------|
| Hydrograph Reports | 1 |
| Hydrograph No. 1, Manual, Area A..... | 1 |
| Hydrograph No. 2, Manual, Area B..... | 2 |
| Hydrograph No. 3, Manual, Area C..... | 3 |
| Hydrograph No. 5, Reservoir, Area A Outflow..... | 4 |
| Pond Report - Detention System A..... | 5 |
| Hydrograph No. 6, Reservoir, Area B Outflow..... | 7 |
| Pond Report - Detention System B..... | 8 |
| Hydrograph No. 7, Reservoir, Area C Outflow..... | 10 |
| Pond Report - Detention System C..... | 11 |
| Hydrograph No. 9, Combine, Total Outflow..... | 13 |

100 - Year

| | |
|--|-----------|
| Hydrograph Reports | 14 |
| Hydrograph No. 1, Manual, Area A..... | 14 |
| Hydrograph No. 2, Manual, Area B..... | 15 |
| Hydrograph No. 3, Manual, Area C..... | 16 |
| Hydrograph No. 5, Reservoir, Area A Outflow..... | 17 |
| Hydrograph No. 6, Reservoir, Area B Outflow..... | 18 |
| Hydrograph No. 7, Reservoir, Area C Outflow..... | 19 |
| Hydrograph No. 9, Combine, Total Outflow..... | 20 |

Hydrograph Report

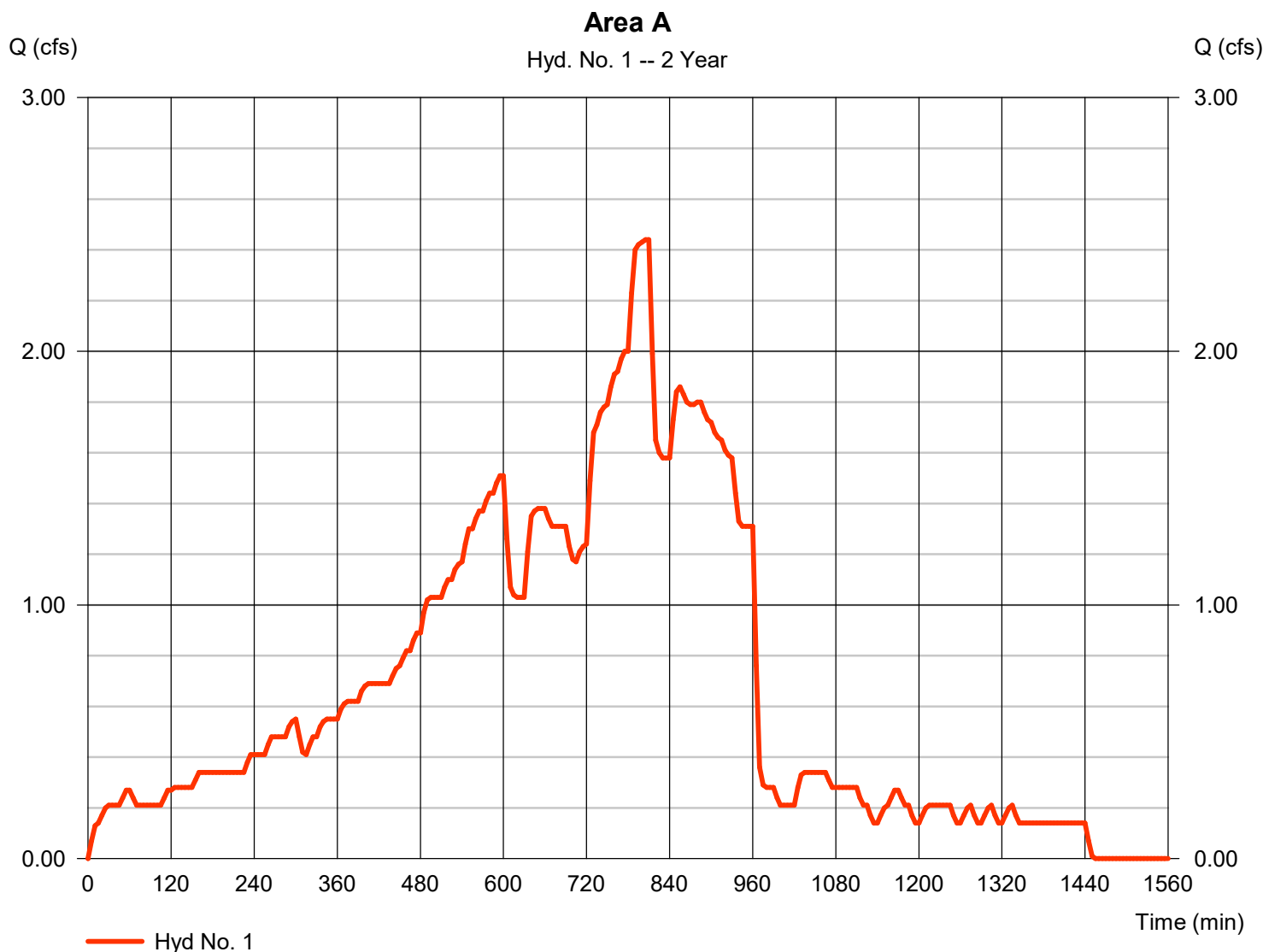
Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

Thursday, 05 / 5 / 2022

Hyd. No. 1

Area A

| | | | |
|-----------------|----------|----------------|---------------|
| Hydrograph type | = Manual | Peak discharge | = 2.440 cfs |
| Storm frequency | = 2 yrs | Time to peak | = 805 min |
| Time interval | = 5 min | Hyd. volume | = 62,136 cuft |



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

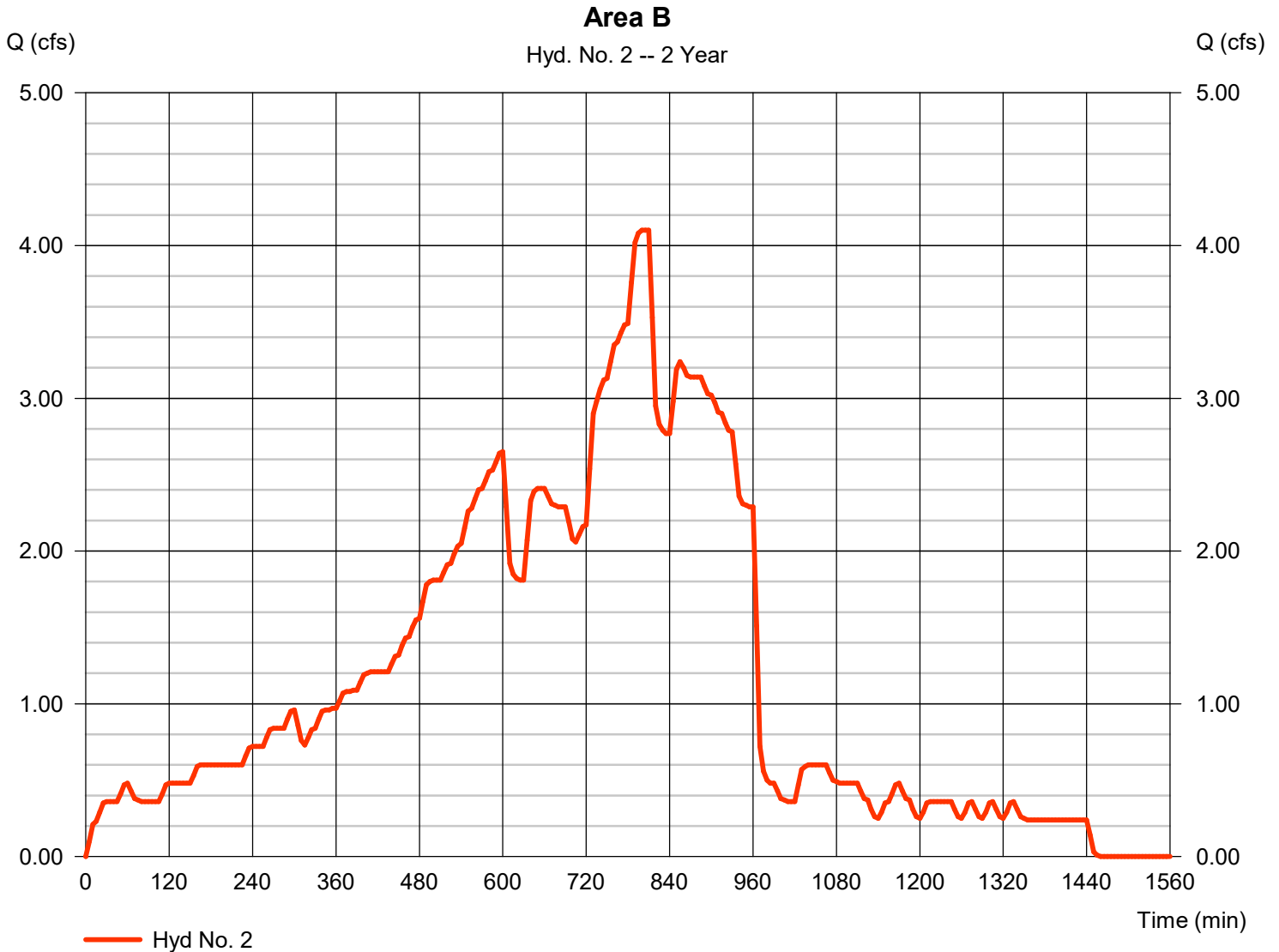
Thursday, 05 / 5 / 2022

Hyd. No. 2

Area B

Hydrograph type = Manual
Storm frequency = 2 yrs
Time interval = 5 min

Peak discharge = 4.100 cfs
Time to peak = 800 min
Hyd. volume = 108,564 cuft



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

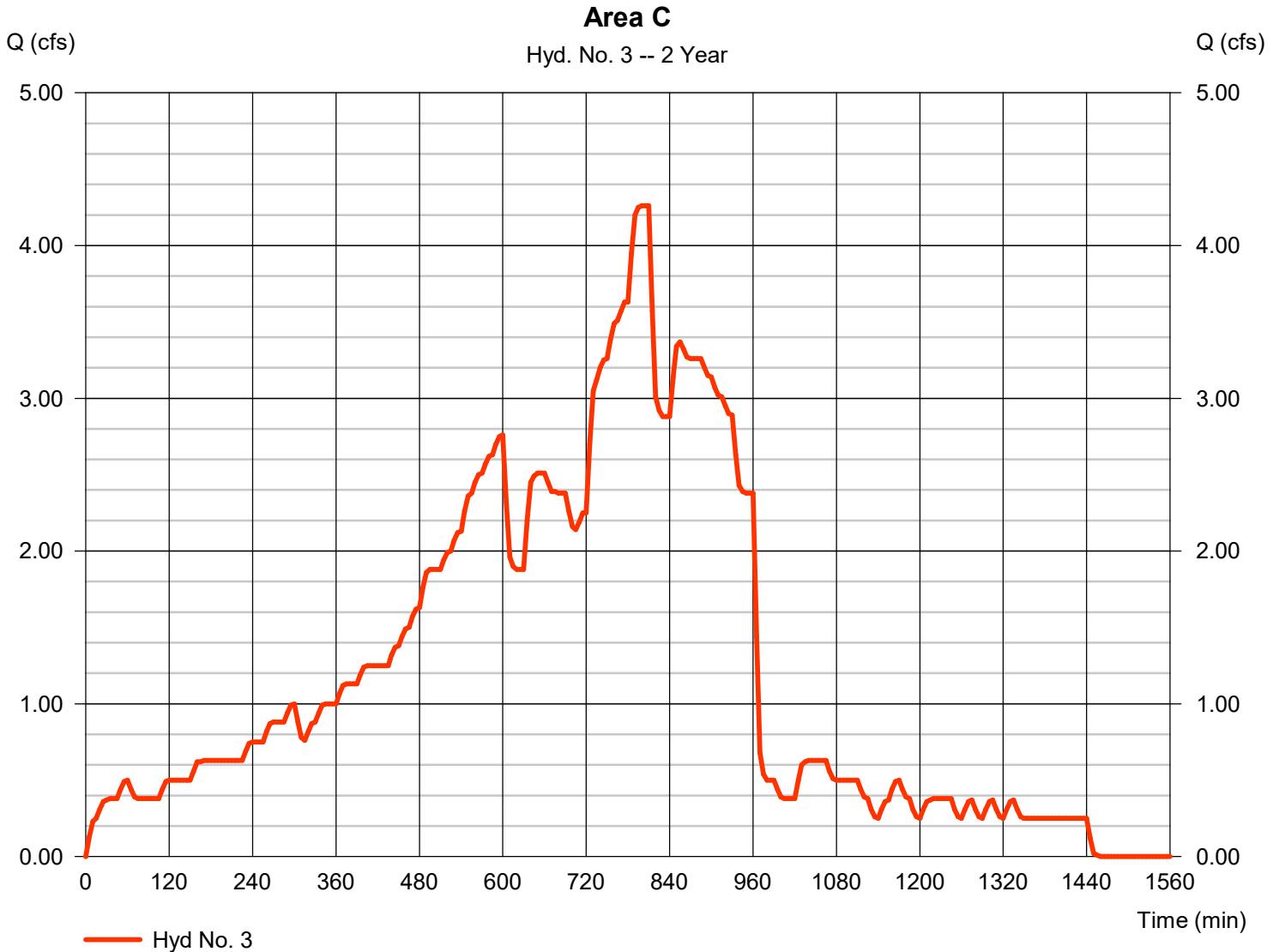
Thursday, 05 / 5 / 2022

Hyd. No. 3

Area C

Hydrograph type = Manual
Storm frequency = 2 yrs
Time interval = 5 min

Peak discharge = 4.260 cfs
Time to peak = 800 min
Hyd. volume = 112,857 cuft



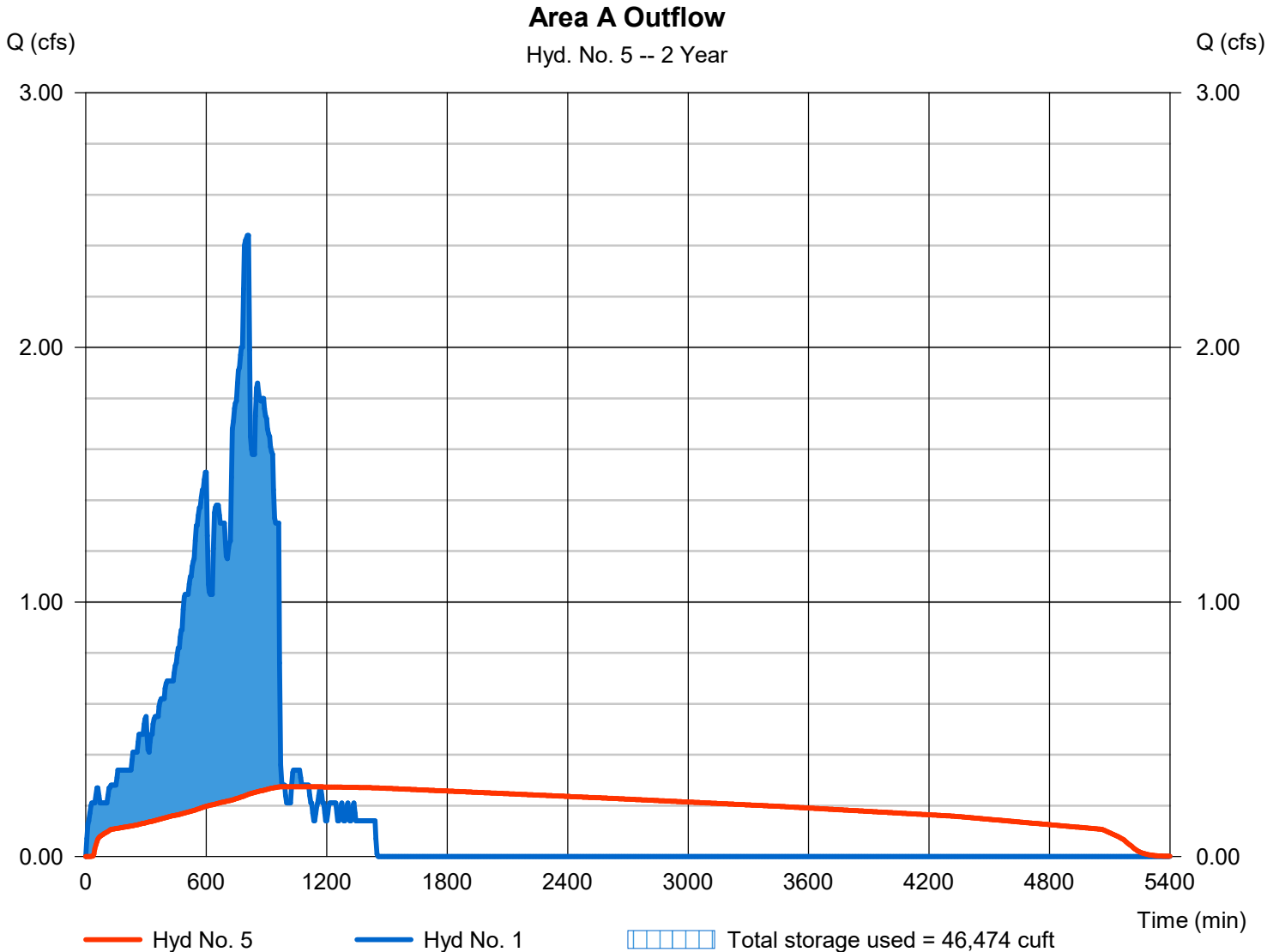
Hydrograph Report

Hyd. No. 5

Area A Outflow

| | | | |
|-----------------|----------------------|----------------|---------------|
| Hydrograph type | = Reservoir | Peak discharge | = 0.274 cfs |
| Storm frequency | = 2 yrs | Time to peak | = 1110 min |
| Time interval | = 5 min | Hyd. volume | = 61,928 cuft |
| Inflow hyd. No. | = 1 - Area A | Max. Elevation | = 103.38 ft |
| Reservoir name | = Detention System A | Max. Storage | = 46,474 cuft |

Storage Indication method used.



Pond No. 1 - Detention System A

Pond Data

UG Chambers -Invert elev. = 100.00 ft, Rise x Span = 5.00 x 5.00 ft, Barrel Len = 990.00 ft, No. Barrels = 4, Slope = 0.10%, Headers = No

Stage / Storage Table

| Stage (ft) | Elevation (ft) | Contour area (sqft) | Incr. Storage (cuft) | Total storage (cuft) |
|------------|----------------|---------------------|----------------------|----------------------|
| 0.00 | 100.00 | n/a | 0 | 0 |
| 0.60 | 100.60 | n/a | 1,142 | 1,142 |
| 1.20 | 101.20 | n/a | 5,873 | 7,015 |
| 1.80 | 101.80 | n/a | 9,281 | 16,296 |
| 2.40 | 102.40 | n/a | 10,930 | 27,226 |
| 2.99 | 103.00 | n/a | 11,668 | 38,894 |
| 3.59 | 103.59 | n/a | 11,667 | 50,561 |
| 4.19 | 104.19 | n/a | 10,939 | 61,500 |
| 4.79 | 104.79 | n/a | 9,263 | 70,763 |
| 5.39 | 105.39 | n/a | 5,867 | 76,630 |
| 5.99 | 105.99 | n/a | 1,140 | 77,770 |

Culvert / Orifice Structures

| | [A] | [B] | [C] | [PrfRsr] |
|-----------------|----------|------|------|----------|
| Rise (in) | = 2.40 | 0.00 | 0.00 | 0.00 |
| Span (in) | = 2.40 | 0.00 | 0.00 | 0.00 |
| No. Barrels | = 1 | 0 | 0 | 0 |
| Invert El. (ft) | = 100.00 | 0.00 | 0.00 | 0.00 |
| Length (ft) | = 0.08 | 0.00 | 0.00 | 0.00 |
| Slope (%) | = 0.10 | 0.00 | 0.00 | n/a |
| N-Value | = .013 | .013 | .013 | n/a |
| Orifice Coeff. | = 0.60 | 0.60 | 0.60 | 0.60 |
| Multi-Stage | = n/a | No | No | No |

Weir Structures

| | [A] | [B] | [C] | [D] |
|----------------|----------------------|------|------|------|
| Crest Len (ft) | = 0.75 | 0.00 | 0.00 | 0.00 |
| Crest El. (ft) | = 103.45 | 0.00 | 0.00 | 0.00 |
| Weir Coeff. | = 3.33 | 3.33 | 3.33 | 3.33 |
| Weir Type | = Rect | --- | --- | --- |
| Multi-Stage | = No | No | No | No |
| Exfil.(in/hr) | = 0.000 (by Contour) | | | |
| TW Elev. (ft) | = 0.00 | | | |

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

| Stage ft | Storage cuft | Elevation ft | Clv A cfs | Clv B cfs | Clv C cfs | PrfRsr cfs | Wr A cfs | Wr B cfs | Wr C cfs | Wr D cfs | Exfil cfs | User cfs | Total cfs |
|----------|--------------|--------------|-----------|-----------|-----------|------------|----------|----------|----------|----------|-----------|----------|-----------|
| 0.00 | 0 | 100.00 | 0.00 | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.000 |
| 0.06 | 114 | 100.06 | 0.00 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.000 |
| 0.12 | 228 | 100.12 | 0.00 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.001 |
| 0.18 | 343 | 100.18 | 0.00 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.002 |
| 0.24 | 457 | 100.24 | 0.04 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.041 |
| 0.30 | 571 | 100.30 | 0.06 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.064 |
| 0.36 | 685 | 100.36 | 0.08 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.077 |
| 0.42 | 799 | 100.42 | 0.09 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.085 |
| 0.48 | 913 | 100.48 | 0.09 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.093 |
| 0.54 | 1,028 | 100.54 | 0.10 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.100 |
| 0.60 | 1,142 | 100.60 | 0.11 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.107 |
| 0.66 | 1,729 | 100.66 | 0.11 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.113 |
| 0.72 | 2,317 | 100.72 | 0.12 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.119 |
| 0.78 | 2,904 | 100.78 | 0.12 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.125 |
| 0.84 | 3,491 | 100.84 | 0.13 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.130 |
| 0.90 | 4,078 | 100.90 | 0.14 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.135 |
| 0.96 | 4,666 | 100.96 | 0.14 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.140 |
| 1.02 | 5,253 | 101.02 | 0.14 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.145 |
| 1.08 | 5,840 | 101.08 | 0.15 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.150 |
| 1.14 | 6,428 | 101.14 | 0.15 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.154 |
| 1.20 | 7,015 | 101.20 | 0.16 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.158 |
| 1.26 | 7,943 | 101.26 | 0.16 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.163 |
| 1.32 | 8,871 | 101.32 | 0.17 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.167 |
| 1.38 | 9,799 | 101.38 | 0.17 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.171 |
| 1.44 | 10,727 | 101.44 | 0.17 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.175 |
| 1.50 | 11,656 | 101.50 | 0.18 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.179 |
| 1.56 | 12,584 | 101.56 | 0.18 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.183 |
| 1.62 | 13,512 | 101.62 | 0.19 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.186 |
| 1.68 | 14,440 | 101.68 | 0.19 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.190 |
| 1.74 | 15,368 | 101.74 | 0.19 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.194 |
| 1.80 | 16,296 | 101.80 | 0.20 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.197 |
| 1.86 | 17,389 | 101.86 | 0.20 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.200 |

Continues on next page...

Detention System A

Stage / Storage / Discharge Table

| Stage ft | Storage cuft | Elevation ft | Clv A cfs | Clv B cfs | Clv C cfs | PrfRsr cfs | Wr A cfs | Wr B cfs | Wr C cfs | Wr D cfs | Exfil cfs | User cfs | Total cfs |
|-------------|-----------------|-----------------|--------------|--------------|--------------|---------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|
| 1.92 | 18,482 | 101.92 | 0.20 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.204 |
| 1.98 | 19,575 | 101.98 | 0.21 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.207 |
| 2.04 | 20,668 | 102.04 | 0.21 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.210 |
| 2.10 | 21,761 | 102.10 | 0.21 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.214 |
| 2.16 | 22,854 | 102.16 | 0.22 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.217 |
| 2.22 | 23,947 | 102.22 | 0.22 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.220 |
| 2.28 | 25,040 | 102.28 | 0.22 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.223 |
| 2.34 | 26,133 | 102.34 | 0.23 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.226 |
| 2.40 | 27,226 | 102.40 | 0.23 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.229 |
| 2.46 | 28,319 | 102.46 | 0.23 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.232 |
| 2.52 | 29,412 | 102.52 | 0.24 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.235 |
| 2.58 | 30,505 | 102.58 | 0.24 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.238 |
| 2.64 | 31,598 | 102.64 | 0.24 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.241 |
| 2.70 | 32,691 | 102.70 | 0.24 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.244 |
| 2.76 | 33,784 | 102.76 | 0.25 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.246 |
| 2.82 | 34,877 | 102.82 | 0.25 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.249 |
| 2.88 | 35,970 | 102.88 | 0.25 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.252 |
| 2.94 | 37,063 | 102.94 | 0.25 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.255 |
| 2.99 | 38,156 | 103.00 | 0.26 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.257 |
| 3.05 | 39,249 | 103.05 | 0.26 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.260 |
| 3.11 | 40,342 | 103.11 | 0.26 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.263 |
| 3.17 | 41,435 | 103.17 | 0.27 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.265 |
| 3.23 | 42,528 | 103.23 | 0.27 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.268 |
| 3.29 | 43,621 | 103.29 | 0.27 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.270 |
| 3.35 | 44,714 | 103.35 | 0.27 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.273 |
| 3.41 | 45,807 | 103.41 | 0.28 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.275 |
| 3.47 | 46,900 | 103.47 | 0.28 ic | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- | 0.287 |
| 3.53 | 48,000 | 103.53 | 0.28 ic | --- | --- | --- | 0.06 | --- | --- | --- | --- | --- | 0.341 |
| 3.59 | 49,100 | 103.59 | 0.28 ic | --- | --- | --- | 0.14 | --- | --- | --- | --- | --- | 0.419 |
| 3.65 | 50,200 | 103.65 | 0.29 ic | --- | --- | --- | 0.23 | --- | --- | --- | --- | --- | 0.515 |
| 3.71 | 51,300 | 103.71 | 0.29 ic | --- | --- | --- | 0.34 | --- | --- | --- | --- | --- | 0.626 |
| 3.77 | 52,400 | 103.77 | 0.29 ic | --- | --- | --- | 0.46 | --- | --- | --- | --- | --- | 0.750 |
| 3.83 | 53,500 | 103.83 | 0.29 ic | --- | --- | --- | 0.59 | --- | --- | --- | --- | --- | 0.886 |
| 3.89 | 54,600 | 103.89 | 0.29 ic | --- | --- | --- | 0.74 | --- | --- | --- | --- | --- | 1.032 |
| 3.95 | 55,700 | 103.95 | 0.30 ic | --- | --- | --- | 0.89 | --- | --- | --- | --- | --- | 1.189 |
| 4.01 | 56,800 | 104.01 | 0.30 ic | --- | --- | --- | 1.06 | --- | --- | --- | --- | --- | 1.355 |
| 4.07 | 57,900 | 104.07 | 0.30 ic | --- | --- | --- | 1.23 | --- | --- | --- | --- | --- | 1.530 |
| 4.13 | 59,000 | 104.13 | 0.30 ic | --- | --- | --- | 1.41 | --- | --- | --- | --- | --- | 1.714 |
| 4.19 | 60,100 | 104.19 | 0.31 ic | --- | --- | --- | 1.60 | --- | --- | --- | --- | --- | 1.906 |
| 4.25 | 61,200 | 104.25 | 0.31 ic | --- | --- | --- | 1.80 | --- | --- | --- | --- | --- | 2.105 |
| 4.31 | 62,300 | 104.31 | 0.31 ic | --- | --- | --- | 2.00 | --- | --- | --- | --- | --- | 2.312 |
| 4.37 | 63,400 | 104.37 | 0.31 ic | --- | --- | --- | 2.21 | --- | --- | --- | --- | --- | 2.526 |
| 4.43 | 64,500 | 104.43 | 0.31 ic | --- | --- | --- | 2.43 | --- | --- | --- | --- | --- | 2.747 |
| 4.49 | 65,600 | 104.49 | 0.32 ic | --- | --- | --- | 2.66 | --- | --- | --- | --- | --- | 2.975 |
| 4.55 | 66,700 | 104.55 | 0.32 ic | --- | --- | --- | 2.89 | --- | --- | --- | --- | --- | 3.210 |
| 4.61 | 67,800 | 104.61 | 0.32 ic | --- | --- | --- | 3.13 | --- | --- | --- | --- | --- | 3.451 |
| 4.67 | 68,900 | 104.67 | 0.32 ic | --- | --- | --- | 3.37 | --- | --- | --- | --- | --- | 3.698 |
| 4.73 | 70,000 | 104.73 | 0.33 ic | --- | --- | --- | 3.63 | --- | --- | --- | --- | --- | 3.951 |
| 4.79 | 71,100 | 104.79 | 0.33 ic | --- | --- | --- | 3.88 | --- | --- | --- | --- | --- | 4.210 |
| 4.85 | 72,200 | 104.85 | 0.33 ic | --- | --- | --- | 4.15 | --- | --- | --- | --- | --- | 4.475 |
| 4.91 | 73,300 | 104.91 | 0.33 ic | --- | --- | --- | 4.41 | --- | --- | --- | --- | --- | 4.746 |
| 4.97 | 74,400 | 104.97 | 0.33 ic | --- | --- | --- | 4.69 | --- | --- | --- | --- | --- | 5.022 |
| 5.03 | 75,500 | 105.03 | 0.34 ic | --- | --- | --- | 4.97 | --- | --- | --- | --- | --- | 5.304 |
| 5.09 | 76,600 | 105.09 | 0.34 ic | --- | --- | --- | 5.25 | --- | --- | --- | --- | --- | 5.590 |
| 5.15 | 77,700 | 105.15 | 0.34 ic | --- | --- | --- | 5.54 | --- | --- | --- | --- | --- | 5.883 |
| 5.21 | 78,800 | 105.21 | 0.34 ic | --- | --- | --- | 5.84 | --- | --- | --- | --- | --- | 6.180 |
| 5.27 | 79,900 | 105.27 | 0.34 ic | --- | --- | --- | 6.14 | --- | --- | --- | --- | --- | 6.482 |
| 5.33 | 81,000 | 105.33 | 0.35 ic | --- | --- | --- | 6.44 | --- | --- | --- | --- | --- | 6.789 |
| 5.39 | 82,100 | 105.39 | 0.35 ic | --- | --- | --- | 6.75 | --- | --- | --- | --- | --- | 7.102 |
| 5.45 | 83,200 | 105.45 | 0.35 ic | --- | --- | --- | 7.07 | --- | --- | --- | --- | --- | 7.419 |
| 5.51 | 84,300 | 105.51 | 0.35 ic | --- | --- | --- | 7.39 | --- | --- | --- | --- | --- | 7.740 |
| 5.57 | 85,400 | 105.57 | 0.35 ic | --- | --- | --- | 7.71 | --- | --- | --- | --- | --- | 8.067 |
| 5.63 | 86,500 | 105.63 | 0.36 ic | --- | --- | --- | 8.04 | --- | --- | --- | --- | --- | 8.398 |
| 5.69 | 87,600 | 105.69 | 0.36 ic | --- | --- | --- | 8.38 | --- | --- | --- | --- | --- | 8.733 |
| 5.75 | 88,700 | 105.75 | 0.36 ic | --- | --- | --- | 8.71 | --- | --- | --- | --- | --- | 9.073 |
| 5.81 | 89,800 | 105.81 | 0.36 ic | --- | --- | --- | 9.06 | --- | --- | --- | --- | --- | 9.418 |
| 5.87 | 90,900 | 105.87 | 0.36 ic | --- | --- | --- | 9.40 | --- | --- | --- | --- | --- | 9.767 |
| 5.93 | 92,000 | 105.93 | 0.37 ic | --- | --- | --- | 9.75 | --- | --- | --- | --- | --- | 10.12 |
| 5.99 | 93,100 | 105.99 | 0.37 ic | --- | --- | --- | 10.11 | --- | --- | --- | --- | --- | 10.48 |

...End

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

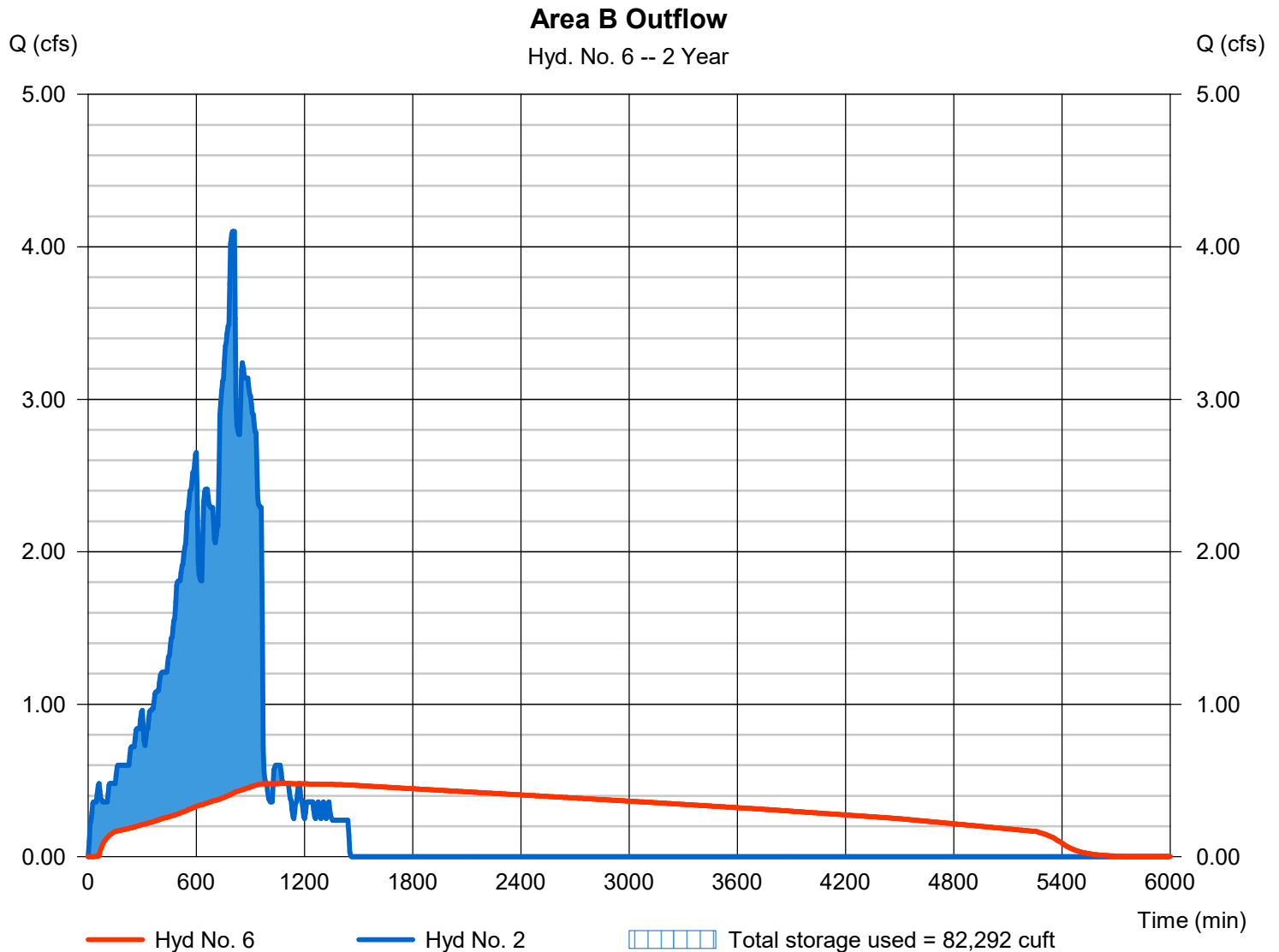
Thursday, 05 / 5 / 2022

Hyd. No. 6

Area B Outflow

| | | | |
|-----------------|----------------------|----------------|----------------|
| Hydrograph type | = Reservoir | Peak discharge | = 0.479 cfs |
| Storm frequency | = 2 yrs | Time to peak | = 1110 min |
| Time interval | = 5 min | Hyd. volume | = 108,103 cuft |
| Inflow hyd. No. | = 2 - Area B | Max. Elevation | = 103.74 ft |
| Reservoir name | = Detention System B | Max. Storage | = 82,292 cuft |

Storage Indication method used.



Pond No. 2 - Detention System B

Pond Data

UG Chambers -Invert elev. = 100.00 ft, Rise x Span = 5.00 x 5.00 ft, Barrel Len = 570.00 ft, No. Barrels = 10, Slope = 0.10%, Headers = No

Stage / Storage Table

| Stage (ft) | Elevation (ft) | Contour area (sqft) | Incr. Storage (cuft) | Total storage (cuft) |
|------------|----------------|---------------------|----------------------|----------------------|
| 0.00 | 100.00 | n/a | 0 | 0 |
| 0.56 | 100.56 | n/a | 2,722 | 2,722 |
| 1.11 | 101.11 | n/a | 9,600 | 12,323 |
| 1.67 | 101.67 | n/a | 13,060 | 25,383 |
| 2.23 | 102.23 | n/a | 14,900 | 40,283 |
| 2.79 | 102.79 | n/a | 15,707 | 55,990 |
| 3.34 | 103.34 | n/a | 15,716 | 71,706 |
| 3.90 | 103.90 | n/a | 14,874 | 86,579 |
| 4.46 | 104.46 | n/a | 13,057 | 99,637 |
| 5.01 | 105.01 | n/a | 9,590 | 109,226 |
| 5.57 | 105.57 | n/a | 2,715 | 111,942 |

Culvert / Orifice Structures

| | [A] | [B] | [C] | [PrfRsr] |
|-----------------|----------|------|------|----------|
| Rise (in) | = 3.10 | 0.00 | 0.00 | 0.00 |
| Span (in) | = 3.10 | 0.00 | 0.00 | 0.00 |
| No. Barrels | = 1 | 0 | 0 | 0 |
| Invert El. (ft) | = 100.00 | 0.00 | 0.00 | 0.00 |
| Length (ft) | = 0.08 | 0.00 | 0.00 | 0.00 |
| Slope (%) | = 0.10 | 0.00 | 0.00 | n/a |
| N-Value | = .013 | .013 | .013 | n/a |
| Orifice Coeff. | = 0.60 | 0.60 | 0.60 | 0.60 |
| Multi-Stage | = n/a | No | No | No |

Weir Structures

| | [A] | [B] | [C] | [D] |
|----------------|----------------------|------|------|------|
| Crest Len (ft) | = 2.00 | 0.00 | 0.00 | 0.00 |
| Crest El. (ft) | = 103.80 | 0.00 | 0.00 | 0.00 |
| Weir Coeff. | = 3.33 | 3.33 | 3.33 | 3.33 |
| Weir Type | = Rect | --- | --- | --- |
| Multi-Stage | = No | No | No | No |
| Exfil.(in/hr) | = 0.000 (by Contour) | | | |
| TW Elev. (ft) | = 0.00 | | | |

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

| Stage ft | Storage cuft | Elevation ft | Clv A cfs | Clv B cfs | Clv C cfs | PrfRsr cfs | Wr A cfs | Wr B cfs | Wr C cfs | Wr D cfs | Exfil cfs | User cfs | Total cfs |
|----------|--------------|--------------|-----------|-----------|-----------|------------|----------|----------|----------|----------|-----------|----------|-----------|
| 0.00 | 0 | 100.00 | 0.00 | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.000 |
| 0.06 | 272 | 100.06 | 0.00 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.000 |
| 0.11 | 544 | 100.11 | 0.00 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.001 |
| 0.17 | 817 | 100.17 | 0.00 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.002 |
| 0.22 | 1,089 | 100.22 | 0.00 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.003 |
| 0.28 | 1,361 | 100.28 | 0.05 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.049 |
| 0.33 | 1,633 | 100.33 | 0.09 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.094 |
| 0.39 | 1,906 | 100.39 | 0.12 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.124 |
| 0.45 | 2,178 | 100.45 | 0.14 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.142 |
| 0.50 | 2,450 | 100.50 | 0.15 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.154 |
| 0.56 | 2,722 | 100.56 | 0.17 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.165 |
| 0.61 | 3,682 | 100.61 | 0.18 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.175 |
| 0.67 | 4,642 | 100.67 | 0.19 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.185 |
| 0.72 | 5,602 | 100.72 | 0.19 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.195 |
| 0.78 | 6,562 | 100.78 | 0.20 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.204 |
| 0.84 | 7,522 | 100.84 | 0.21 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.212 |
| 0.89 | 8,482 | 100.89 | 0.22 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.220 |
| 0.95 | 9,443 | 100.95 | 0.23 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.228 |
| 1.00 | 10,403 | 101.00 | 0.24 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.236 |
| 1.06 | 11,363 | 101.06 | 0.24 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.243 |
| 1.11 | 12,323 | 101.11 | 0.25 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.250 |
| 1.17 | 13,629 | 101.17 | 0.26 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.257 |
| 1.23 | 14,935 | 101.23 | 0.26 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.264 |
| 1.28 | 16,241 | 101.28 | 0.27 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.271 |
| 1.34 | 17,547 | 101.34 | 0.28 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.277 |
| 1.39 | 18,853 | 101.39 | 0.28 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.284 |
| 1.45 | 20,159 | 101.45 | 0.29 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.290 |
| 1.50 | 21,465 | 101.50 | 0.30 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.296 |
| 1.56 | 22,771 | 101.56 | 0.30 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.302 |
| 1.62 | 24,077 | 101.62 | 0.31 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.308 |
| 1.67 | 25,383 | 101.67 | 0.31 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.313 |
| 1.73 | 26,873 | 101.73 | 0.32 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.319 |

Continues on next page...

Detention System B

Stage / Storage / Discharge Table

| Stage ft | Storage cuft | Elevation ft | Clv A cfs | Clv B cfs | Clv C cfs | PrfRsr cfs | Wr A cfs | Wr B cfs | Wr C cfs | Wr D cfs | Exfil cfs | User cfs | Total cfs |
|-------------|-----------------|-----------------|--------------|--------------|--------------|---------------|-------------|-------------|-------------|-------------|--------------|-------------|--------------|
| 1.78 | 28,363 | 101.78 | 0.32 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.324 |
| 1.84 | 29,853 | 101.84 | 0.33 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.330 |
| 1.89 | 31,343 | 101.89 | 0.34 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.335 |
| 1.95 | 32,833 | 101.95 | 0.34 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.340 |
| 2.01 | 34,323 | 102.01 | 0.35 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.346 |
| 2.06 | 35,813 | 102.06 | 0.35 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.351 |
| 2.12 | 37,303 | 102.12 | 0.36 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.356 |
| 2.17 | 38,793 | 102.17 | 0.36 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.361 |
| 2.23 | 40,283 | 102.23 | 0.37 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.366 |
| 2.28 | 41,854 | 102.28 | 0.37 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.370 |
| 2.34 | 43,424 | 102.34 | 0.38 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.375 |
| 2.40 | 44,995 | 102.40 | 0.38 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.380 |
| 2.45 | 46,566 | 102.45 | 0.38 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.384 |
| 2.51 | 48,136 | 102.51 | 0.39 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.389 |
| 2.56 | 49,707 | 102.56 | 0.39 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.394 |
| 2.62 | 51,278 | 102.62 | 0.40 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.398 |
| 2.67 | 52,848 | 102.67 | 0.40 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.403 |
| 2.73 | 54,419 | 102.73 | 0.41 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.407 |
| 2.79 | 55,990 | 102.79 | 0.41 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.411 |
| 2.84 | 57,561 | 102.84 | 0.42 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.416 |
| 2.90 | 59,133 | 102.90 | 0.42 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.420 |
| 2.95 | 60,704 | 102.95 | 0.42 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.424 |
| 3.01 | 62,276 | 103.01 | 0.43 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.428 |
| 3.06 | 63,848 | 103.06 | 0.43 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.432 |
| 3.12 | 65,419 | 103.12 | 0.44 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.436 |
| 3.17 | 66,991 | 103.17 | 0.44 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.440 |
| 3.23 | 68,562 | 103.23 | 0.44 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.444 |
| 3.29 | 70,134 | 103.29 | 0.45 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.448 |
| 3.34 | 71,706 | 103.34 | 0.45 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.452 |
| 3.40 | 73,193 | 103.40 | 0.46 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.456 |
| 3.45 | 74,680 | 103.45 | 0.46 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.460 |
| 3.51 | 76,168 | 103.51 | 0.46 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.464 |
| 3.56 | 77,655 | 103.56 | 0.47 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.468 |
| 3.62 | 79,143 | 103.62 | 0.47 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.472 |
| 3.68 | 80,630 | 103.68 | 0.48 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.475 |
| 3.73 | 82,117 | 103.73 | 0.48 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.479 |
| 3.79 | 83,605 | 103.79 | 0.48 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.483 |
| 3.84 | 85,092 | 103.84 | 0.49 ic | --- | --- | --- | 0.06 | --- | --- | --- | --- | --- | 0.546 |
| 3.90 | 86,579 | 103.90 | 0.49 ic | --- | --- | --- | 0.21 | --- | --- | --- | --- | --- | 0.697 |
| 3.95 | 87,885 | 103.95 | 0.49 ic | --- | --- | --- | 0.41 | --- | --- | --- | --- | --- | 0.899 |
| 4.01 | 89,191 | 104.01 | 0.50 ic | --- | --- | --- | 0.64 | --- | --- | --- | --- | --- | 1.140 |
| 4.07 | 90,497 | 104.07 | 0.50 ic | --- | --- | --- | 0.91 | --- | --- | --- | --- | --- | 1.415 |
| 4.12 | 91,802 | 104.12 | 0.50 ic | --- | --- | --- | 1.22 | --- | --- | --- | --- | --- | 1.720 |
| 4.18 | 93,108 | 104.18 | 0.51 ic | --- | --- | --- | 1.54 | --- | --- | --- | --- | --- | 2.053 |
| 4.23 | 94,414 | 104.23 | 0.51 ic | --- | --- | --- | 1.90 | --- | --- | --- | --- | --- | 2.410 |
| 4.29 | 95,719 | 104.29 | 0.51 ic | --- | --- | --- | 2.28 | --- | --- | --- | --- | --- | 2.791 |
| 4.34 | 97,025 | 104.34 | 0.52 ic | --- | --- | --- | 2.68 | --- | --- | --- | --- | --- | 3.195 |
| 4.40 | 98,331 | 104.40 | 0.52 ic | --- | --- | --- | 3.10 | --- | --- | --- | --- | --- | 3.619 |
| 4.46 | 99,637 | 104.46 | 0.52 ic | --- | --- | --- | 3.54 | --- | --- | --- | --- | --- | 4.063 |
| 4.51 | 100,596 | 104.51 | 0.53 ic | --- | --- | --- | 4.00 | --- | --- | --- | --- | --- | 4.527 |
| 4.57 | 101,555 | 104.57 | 0.53 ic | --- | --- | --- | 4.48 | --- | --- | --- | --- | --- | 5.009 |
| 4.62 | 102,513 | 104.62 | 0.53 ic | --- | --- | --- | 4.97 | --- | --- | --- | --- | --- | 5.508 |
| 4.68 | 103,472 | 104.68 | 0.54 ic | --- | --- | --- | 5.49 | --- | --- | --- | --- | --- | 6.025 |
| 4.73 | 104,431 | 104.73 | 0.54 ic | --- | --- | --- | 6.02 | --- | --- | --- | --- | --- | 6.558 |
| 4.79 | 105,390 | 104.79 | 0.54 ic | --- | --- | --- | 6.56 | --- | --- | --- | --- | --- | 7.107 |
| 4.85 | 106,349 | 104.85 | 0.55 ic | --- | --- | --- | 7.12 | --- | --- | --- | --- | --- | 7.672 |
| 4.90 | 107,308 | 104.90 | 0.55 ic | --- | --- | --- | 7.70 | --- | --- | --- | --- | --- | 8.252 |
| 4.96 | 108,267 | 104.96 | 0.55 ic | --- | --- | --- | 8.29 | --- | --- | --- | --- | --- | 8.846 |
| 5.01 | 109,226 | 105.01 | 0.56 ic | --- | --- | --- | 8.90 | --- | --- | --- | --- | --- | 9.455 |
| 5.07 | 109,498 | 105.07 | 0.56 ic | --- | --- | --- | 9.52 | --- | --- | --- | --- | --- | 10.08 |
| 5.12 | 109,769 | 105.12 | 0.56 ic | --- | --- | --- | 10.15 | --- | --- | --- | --- | --- | 10.71 |
| 5.18 | 110,041 | 105.18 | 0.57 ic | --- | --- | --- | 10.80 | --- | --- | --- | --- | --- | 11.37 |
| 5.24 | 110,312 | 105.24 | 0.57 ic | --- | --- | --- | 11.46 | --- | --- | --- | --- | --- | 12.03 |
| 5.29 | 110,584 | 105.29 | 0.57 ic | --- | --- | --- | 12.13 | --- | --- | --- | --- | --- | 12.70 |
| 5.35 | 110,856 | 105.35 | 0.58 ic | --- | --- | --- | 12.82 | --- | --- | --- | --- | --- | 13.39 |
| 5.40 | 111,127 | 105.40 | 0.58 ic | --- | --- | --- | 13.52 | --- | --- | --- | --- | --- | 14.10 |
| 5.46 | 111,399 | 105.46 | 0.58 ic | --- | --- | --- | 14.23 | --- | --- | --- | --- | --- | 14.81 |
| 5.51 | 111,670 | 105.51 | 0.59 ic | --- | --- | --- | 14.95 | --- | --- | --- | --- | --- | 15.53 |
| 5.57 | 111,942 | 105.57 | 0.59 ic | --- | --- | --- | 15.68 | --- | --- | --- | --- | --- | 16.27 |

...End

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

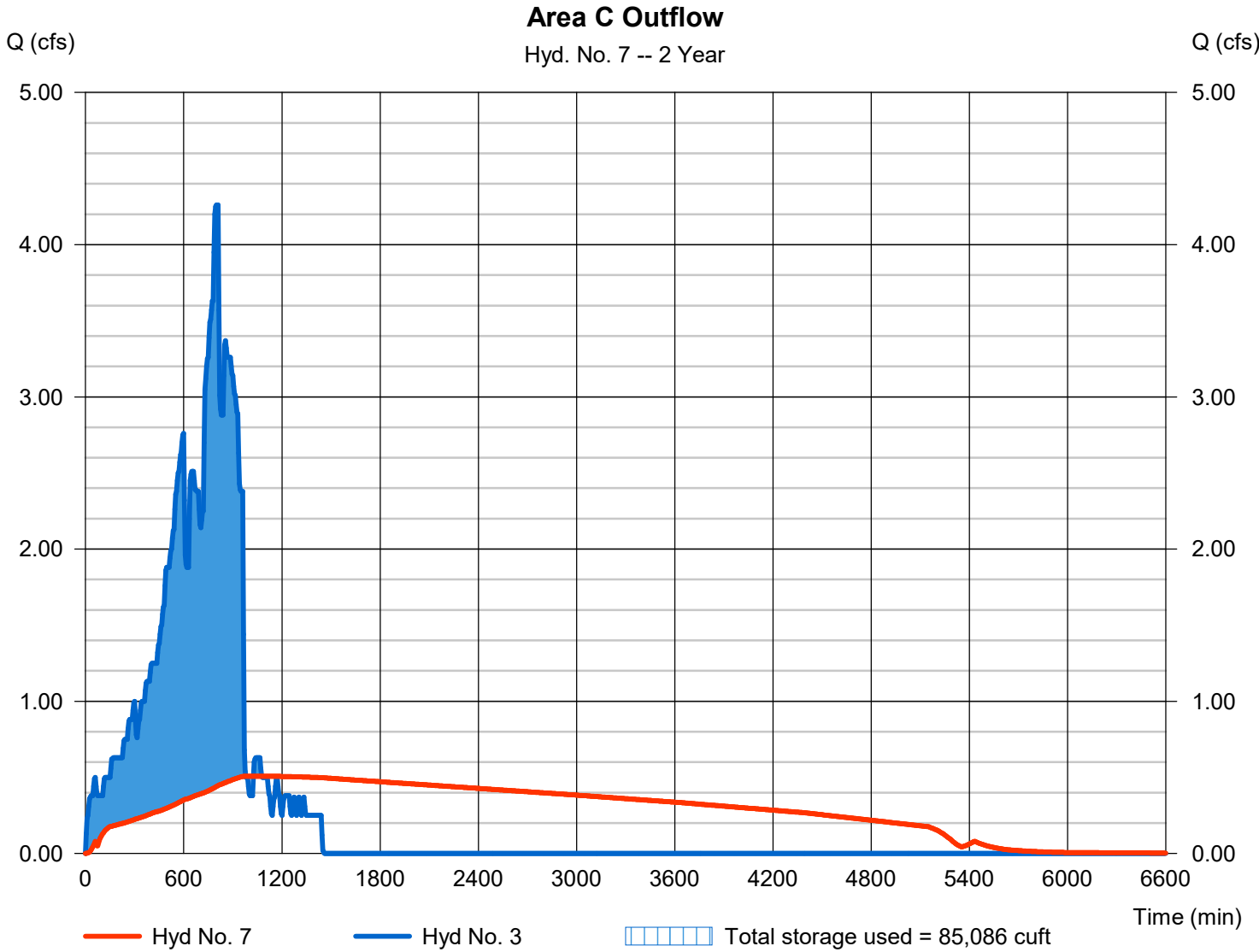
Thursday, 05 / 5 / 2022

Hyd. No. 7

Area C Outflow

| | | | |
|-----------------|----------------------|----------------|----------------|
| Hydrograph type | = Reservoir | Peak discharge | = 0.508 cfs |
| Storm frequency | = 2 yrs | Time to peak | = 1075 min |
| Time interval | = 5 min | Hyd. volume | = 112,817 cuft |
| Inflow hyd. No. | = 3 - Area C | Max. Elevation | = 103.70 ft |
| Reservoir name | = Detention System C | Max. Storage | = 85,086 cuft |

Storage Indication method used.



Pond No. 3 - Detention System C

Pond Data

UG Chambers -Invert elev. = 100.00 ft, Rise x Span = 5.00 x 5.00 ft, Barrel Len = 600.00 ft, No. Barrels = 10, Slope = 0.10%, Headers = No

Stage / Storage Table

| Stage (ft) | Elevation (ft) | Contour area (sqft) | Incr. Storage (cuft) | Total storage (cuft) |
|------------|----------------|---------------------|----------------------|----------------------|
| 0.00 | 100.00 | n/a | 0 | 0 |
| 0.56 | 100.56 | n/a | 2,767 | 2,767 |
| 1.12 | 101.12 | n/a | 10,019 | 12,786 |
| 1.68 | 101.68 | n/a | 13,792 | 26,578 |
| 2.24 | 102.24 | n/a | 15,733 | 42,311 |
| 2.80 | 102.80 | n/a | 16,626 | 58,936 |
| 3.36 | 103.36 | n/a | 16,624 | 75,560 |
| 3.92 | 103.92 | n/a | 15,723 | 91,283 |
| 4.48 | 104.48 | n/a | 13,783 | 105,066 |
| 5.04 | 105.04 | n/a | 10,010 | 115,076 |
| 5.60 | 105.60 | n/a | 2,758 | 117,833 |

Culvert / Orifice Structures

| | [A] | [B] | [C] | [PrfRsr] |
|-----------------|----------|------|------|----------|
| Rise (in) | = 3.20 | 0.00 | 0.00 | 0.00 |
| Span (in) | = 3.20 | 0.00 | 0.00 | 0.00 |
| No. Barrels | = 1 | 0 | 0 | 0 |
| Invert El. (ft) | = 100.00 | 0.00 | 0.00 | 0.00 |
| Length (ft) | = 0.08 | 0.00 | 0.00 | 0.00 |
| Slope (%) | = 0.00 | 0.00 | 0.00 | n/a |
| N-Value | = .013 | .013 | .013 | n/a |
| Orifice Coeff. | = 0.60 | 0.60 | 0.60 | 0.60 |
| Multi-Stage | = n/a | No | No | No |

Weir Structures

| | [A] | [B] | [C] | [D] |
|----------------|----------------------|------|------|------|
| Crest Len (ft) | = 2.20 | 0.00 | 0.00 | 0.00 |
| Crest El. (ft) | = 103.80 | 0.00 | 0.00 | 0.00 |
| Weir Coeff. | = 3.33 | 3.33 | 3.33 | 3.33 |
| Weir Type | = Rect | --- | --- | --- |
| Multi-Stage | = No | No | No | No |
| Exfil.(in/hr) | = 0.000 (by Contour) | | | |
| TW Elev. (ft) | = 0.00 | | | |

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage / Storage / Discharge Table

| Stage ft | Storage cuft | Elevation ft | Clv A cfs | Clv B cfs | Clv C cfs | PrfRsr cfs | Wr A cfs | Wr B cfs | Wr C cfs | Wr D cfs | Exfil cfs | User cfs | Total cfs |
|----------|--------------|--------------|-----------|-----------|-----------|------------|----------|----------|----------|----------|-----------|----------|-----------|
| 0.00 | 0 | 100.00 | 0.00 | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.000 |
| 0.06 | 277 | 100.06 | 0.01 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.007 |
| 0.11 | 553 | 100.11 | 0.03 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.025 |
| 0.17 | 830 | 100.17 | 0.05 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.052 |
| 0.22 | 1,107 | 100.22 | 0.08 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.081 |
| 0.28 | 1,384 | 100.28 | 0.04 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.042 |
| 0.34 | 1,660 | 100.34 | 0.10 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.096 |
| 0.39 | 1,937 | 100.39 | 0.13 oc | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.129 |
| 0.45 | 2,214 | 100.45 | 0.15 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.151 |
| 0.50 | 2,490 | 100.50 | 0.16 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.164 |
| 0.56 | 2,767 | 100.56 | 0.18 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.176 |
| 0.62 | 3,769 | 100.62 | 0.19 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.187 |
| 0.67 | 4,771 | 100.67 | 0.20 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.197 |
| 0.73 | 5,773 | 100.73 | 0.21 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.207 |
| 0.78 | 6,775 | 100.78 | 0.22 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.217 |
| 0.84 | 7,776 | 100.84 | 0.23 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.226 |
| 0.90 | 8,778 | 100.90 | 0.23 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.235 |
| 0.95 | 9,780 | 100.95 | 0.24 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.243 |
| 1.01 | 10,782 | 101.01 | 0.25 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.251 |
| 1.06 | 11,784 | 101.06 | 0.26 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.259 |
| 1.12 | 12,786 | 101.12 | 0.27 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.267 |
| 1.18 | 14,165 | 101.18 | 0.27 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.275 |
| 1.23 | 15,544 | 101.23 | 0.28 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.282 |
| 1.29 | 16,923 | 101.29 | 0.29 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.289 |
| 1.34 | 18,303 | 101.34 | 0.30 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.296 |
| 1.40 | 19,682 | 101.40 | 0.30 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.303 |
| 1.46 | 21,061 | 101.46 | 0.31 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.309 |
| 1.51 | 22,440 | 101.51 | 0.32 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.316 |
| 1.57 | 23,819 | 101.57 | 0.32 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.322 |
| 1.62 | 25,199 | 101.62 | 0.33 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.328 |
| 1.68 | 26,578 | 101.68 | 0.33 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.334 |
| 1.74 | 28,151 | 101.74 | 0.34 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.340 |

Continues on next page...

Detention System C

Stage / Storage / Discharge Table

| Stage ft | Storage cuft | Elevation ft | Clv A cfs | Clv B cfs | Clv C cfs | PrfRsr cfs | Wr A cfs | Wr B cfs | Wr C cfs | Wr D cfs | Exfil cfs | User cfs | Total cfs |
|----------|--------------|--------------|-----------|-----------|-----------|------------|----------|----------|----------|----------|-----------|----------|-----------|
| 1.79 | 29,724 | 101.79 | 0.35 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.346 |
| 1.85 | 31,298 | 101.85 | 0.35 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.352 |
| 1.90 | 32,871 | 101.90 | 0.36 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.358 |
| 1.96 | 34,444 | 101.96 | 0.36 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.363 |
| 2.02 | 36,018 | 102.02 | 0.37 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.369 |
| 2.07 | 37,591 | 102.07 | 0.37 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.374 |
| 2.13 | 39,164 | 102.13 | 0.38 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.380 |
| 2.18 | 40,737 | 102.18 | 0.39 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.385 |
| 2.24 | 42,311 | 102.24 | 0.39 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.390 |
| 2.30 | 43,973 | 102.30 | 0.40 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.395 |
| 2.35 | 45,636 | 102.35 | 0.40 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.401 |
| 2.41 | 47,298 | 102.41 | 0.41 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.406 |
| 2.46 | 48,961 | 102.46 | 0.41 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.410 |
| 2.52 | 50,624 | 102.52 | 0.42 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.415 |
| 2.58 | 52,286 | 102.58 | 0.42 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.420 |
| 2.63 | 53,949 | 102.63 | 0.43 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.425 |
| 2.69 | 55,611 | 102.69 | 0.43 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.430 |
| 2.74 | 57,274 | 102.74 | 0.43 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.434 |
| 2.80 | 58,936 | 102.80 | 0.44 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.439 |
| 2.86 | 60,599 | 102.86 | 0.44 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.444 |
| 2.91 | 62,261 | 102.91 | 0.45 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.448 |
| 2.97 | 63,923 | 102.97 | 0.45 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.453 |
| 3.02 | 65,586 | 103.02 | 0.46 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.457 |
| 3.08 | 67,248 | 103.08 | 0.46 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.462 |
| 3.14 | 68,910 | 103.14 | 0.47 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.466 |
| 3.19 | 70,573 | 103.19 | 0.47 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.470 |
| 3.25 | 72,235 | 103.25 | 0.47 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.475 |
| 3.30 | 73,898 | 103.30 | 0.48 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.479 |
| 3.36 | 75,560 | 103.36 | 0.48 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.483 |
| 3.42 | 77,132 | 103.42 | 0.49 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.487 |
| 3.47 | 78,704 | 103.47 | 0.49 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.491 |
| 3.53 | 80,277 | 103.53 | 0.50 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.495 |
| 3.58 | 81,849 | 103.58 | 0.50 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.499 |
| 3.64 | 83,421 | 103.64 | 0.50 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.504 |
| 3.70 | 84,993 | 103.70 | 0.51 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.508 |
| 3.75 | 86,566 | 103.75 | 0.51 ic | --- | --- | --- | 0.00 | --- | --- | --- | --- | --- | 0.511 |
| 3.81 | 88,138 | 103.81 | 0.52 ic | --- | --- | --- | 0.01 | --- | --- | --- | --- | --- | 0.521 |
| 3.86 | 89,710 | 103.86 | 0.52 ic | --- | --- | --- | 0.12 | --- | --- | --- | --- | --- | 0.638 |
| 3.92 | 91,283 | 103.92 | 0.52 ic | --- | --- | --- | 0.30 | --- | --- | --- | --- | --- | 0.828 |
| 3.98 | 92,661 | 103.98 | 0.53 ic | --- | --- | --- | 0.54 | --- | --- | --- | --- | --- | 1.068 |
| 4.03 | 94,039 | 104.03 | 0.53 ic | --- | --- | --- | 0.82 | --- | --- | --- | --- | --- | 1.350 |
| 4.09 | 95,418 | 104.09 | 0.53 ic | --- | --- | --- | 1.13 | --- | --- | --- | --- | --- | 1.667 |
| 4.14 | 96,796 | 104.14 | 0.54 ic | --- | --- | --- | 1.48 | --- | --- | --- | --- | --- | 2.017 |
| 4.20 | 98,174 | 104.20 | 0.54 ic | --- | --- | --- | 1.85 | --- | --- | --- | --- | --- | 2.396 |
| 4.26 | 99,553 | 104.26 | 0.55 ic | --- | --- | --- | 2.26 | --- | --- | --- | --- | --- | 2.802 |
| 4.31 | 100,931 | 104.31 | 0.55 ic | --- | --- | --- | 2.68 | --- | --- | --- | --- | --- | 3.234 |
| 4.37 | 102,309 | 104.37 | 0.55 ic | --- | --- | --- | 3.14 | --- | --- | --- | --- | --- | 3.689 |
| 4.42 | 103,688 | 104.42 | 0.56 ic | --- | --- | --- | 3.61 | --- | --- | --- | --- | --- | 4.168 |
| 4.48 | 105,066 | 104.48 | 0.56 ic | --- | --- | --- | 4.11 | --- | --- | --- | --- | --- | 4.669 |
| 4.54 | 106,067 | 104.54 | 0.56 ic | --- | --- | --- | 4.63 | --- | --- | --- | --- | --- | 5.190 |
| 4.59 | 107,068 | 104.59 | 0.57 ic | --- | --- | --- | 5.16 | --- | --- | --- | --- | --- | 5.731 |
| 4.65 | 108,069 | 104.65 | 0.57 ic | --- | --- | --- | 5.72 | --- | --- | --- | --- | --- | 6.292 |
| 4.70 | 109,070 | 104.70 | 0.57 ic | --- | --- | --- | 6.30 | --- | --- | --- | --- | --- | 6.872 |
| 4.76 | 110,071 | 104.76 | 0.58 ic | --- | --- | --- | 6.89 | --- | --- | --- | --- | --- | 7.469 |
| 4.82 | 111,072 | 104.82 | 0.58 ic | --- | --- | --- | 7.50 | --- | --- | --- | --- | --- | 8.084 |
| 4.87 | 112,073 | 104.87 | 0.59 ic | --- | --- | --- | 8.13 | --- | --- | --- | --- | --- | 8.717 |
| 4.93 | 113,074 | 104.93 | 0.59 ic | --- | --- | --- | 8.78 | --- | --- | --- | --- | --- | 9.365 |
| 4.98 | 114,075 | 104.98 | 0.59 ic | --- | --- | --- | 9.44 | --- | --- | --- | --- | --- | 10.03 |
| 5.04 | 115,076 | 105.04 | 0.60 ic | --- | --- | --- | 10.12 | --- | --- | --- | --- | --- | 10.71 |
| 5.10 | 115,352 | 105.10 | 0.60 ic | --- | --- | --- | 10.81 | --- | --- | --- | --- | --- | 11.41 |
| 5.15 | 115,627 | 105.15 | 0.60 ic | --- | --- | --- | 11.52 | --- | --- | --- | --- | --- | 12.12 |
| 5.21 | 115,903 | 105.21 | 0.61 ic | --- | --- | --- | 12.24 | --- | --- | --- | --- | --- | 12.85 |
| 5.26 | 116,179 | 105.26 | 0.61 ic | --- | --- | --- | 12.98 | --- | --- | --- | --- | --- | 13.59 |
| 5.32 | 116,455 | 105.32 | 0.61 ic | --- | --- | --- | 13.73 | --- | --- | --- | --- | --- | 14.34 |
| 5.38 | 116,730 | 105.38 | 0.62 ic | --- | --- | --- | 14.49 | --- | --- | --- | --- | --- | 15.11 |
| 5.43 | 117,006 | 105.43 | 0.62 ic | --- | --- | --- | 15.27 | --- | --- | --- | --- | --- | 15.89 |
| 5.49 | 117,282 | 105.49 | 0.62 ic | --- | --- | --- | 16.07 | --- | --- | --- | --- | --- | 16.69 |
| 5.54 | 117,558 | 105.54 | 0.63 ic | --- | --- | --- | 16.87 | --- | --- | --- | --- | --- | 17.50 |
| 5.60 | 117,833 | 105.60 | 0.63 ic | --- | --- | --- | 17.69 | --- | --- | --- | --- | --- | 18.32 |

...End

Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

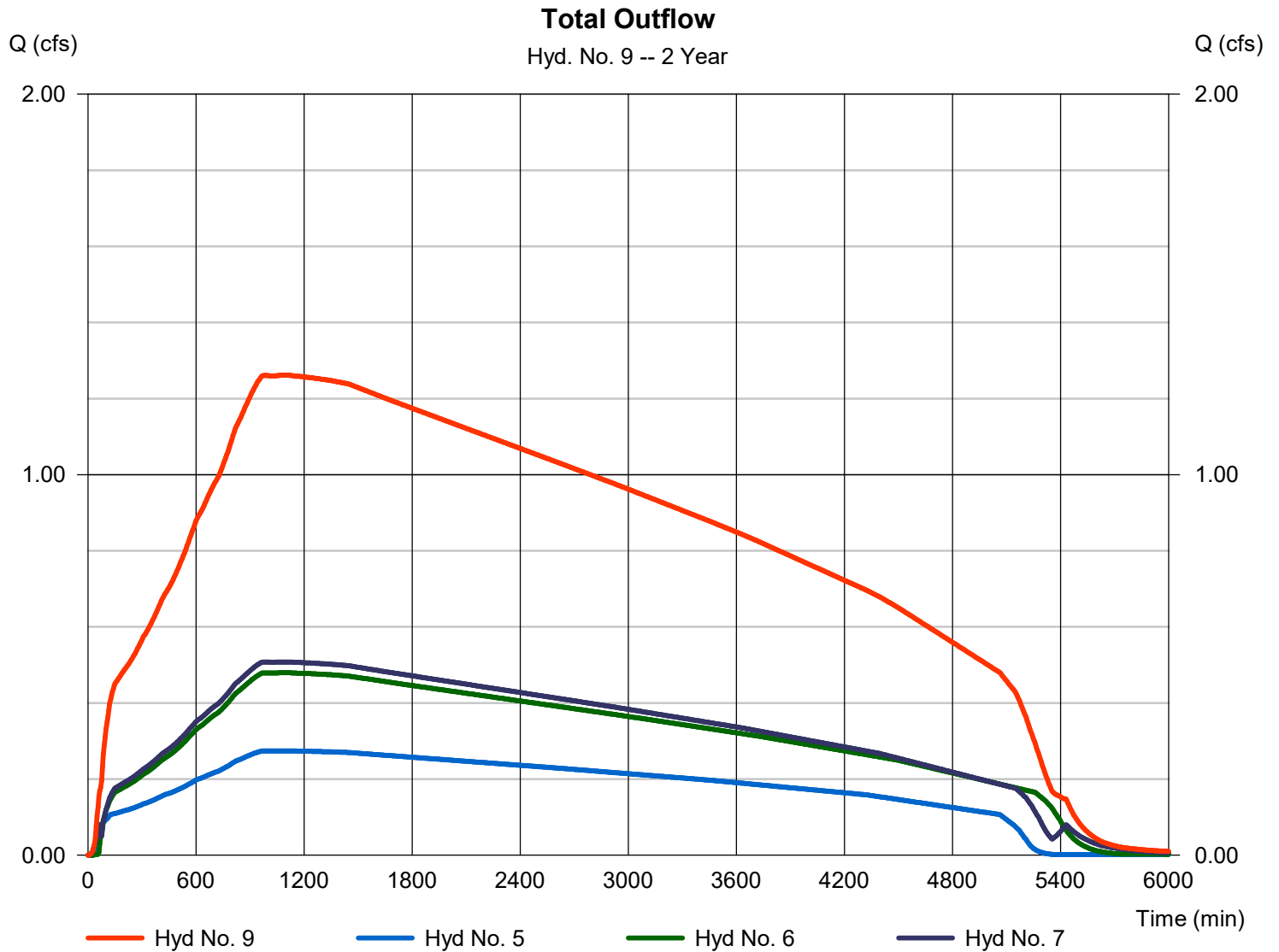
Thursday, 05 / 5 / 2022

Hyd. No. 9

Total Outflow

Hydrograph type = Combine
Storm frequency = 2 yrs
Time interval = 5 min
Inflow hyds. = 5, 6, 7

Peak discharge = 1.261 cfs
Time to peak = 1085 min
Hyd. volume = 282,847 cuft
Contrib. drain. area = 0.000 ac



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

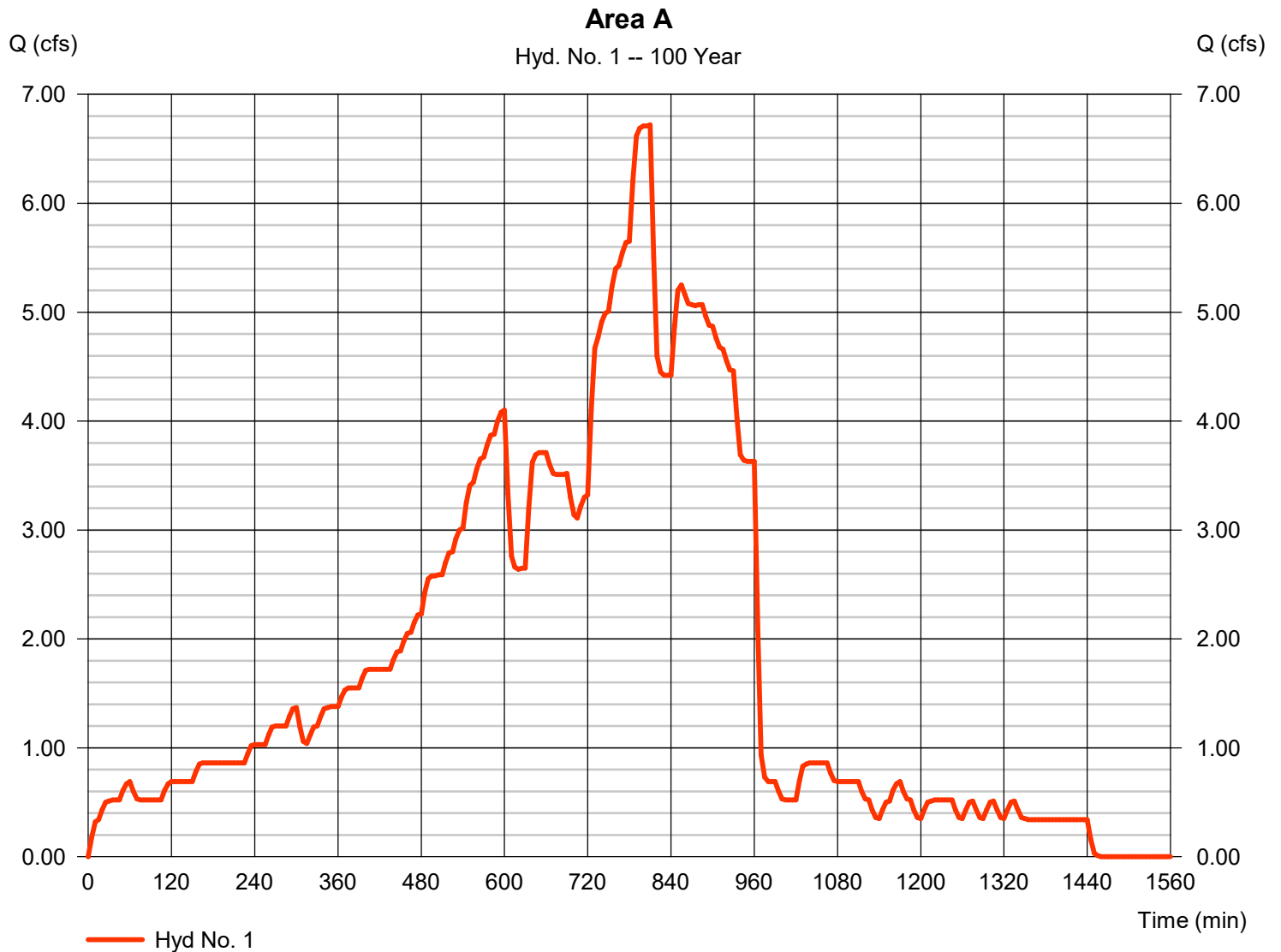
Thursday, 05 / 5 / 2022

Hyd. No. 1

Area A

Hydrograph type = Manual
Storm frequency = 100 yrs
Time interval = 5 min

Peak discharge = 6.720 cfs
Time to peak = 810 min
Hyd. volume = 165,438 cuft



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

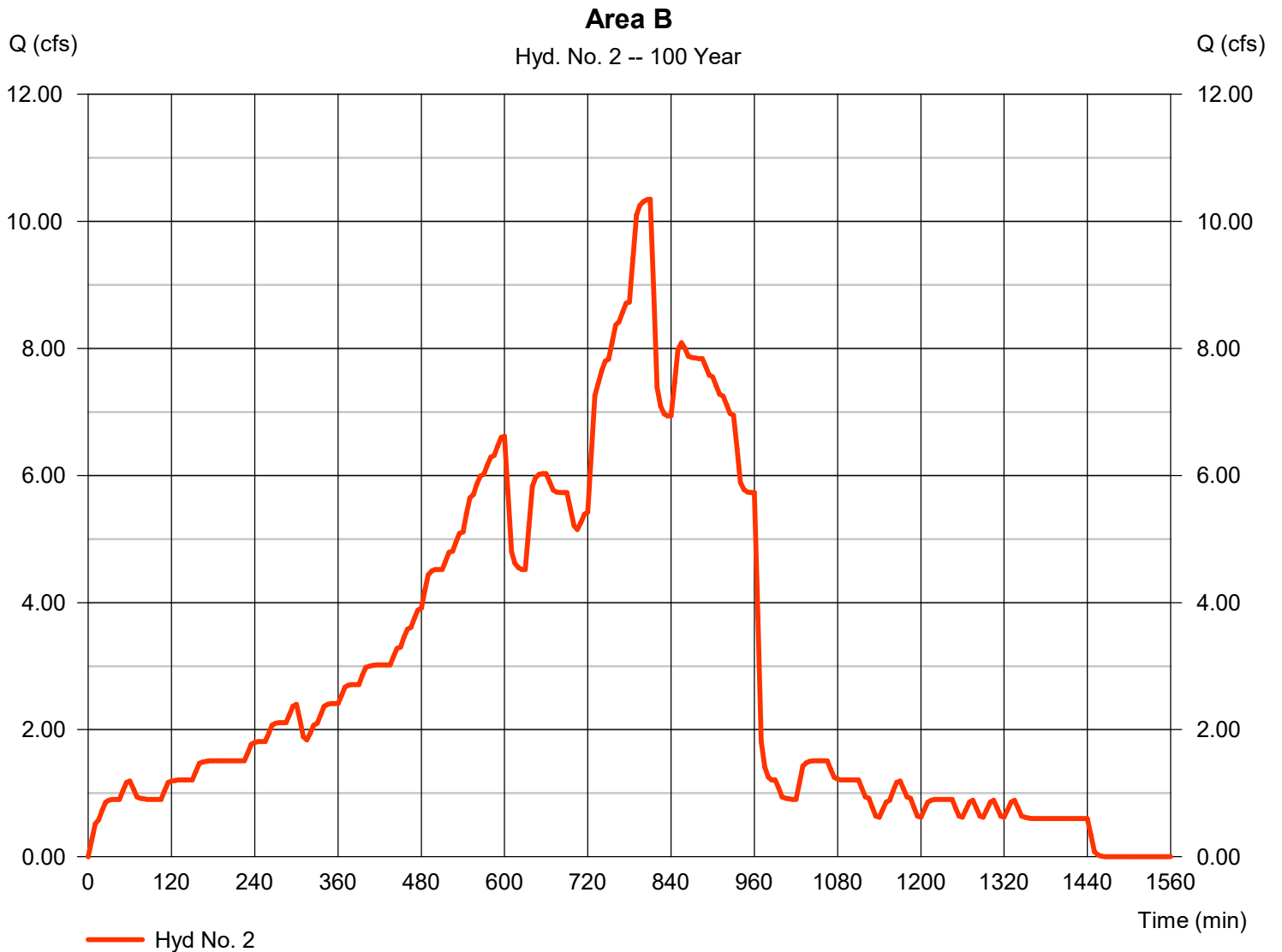
Thursday, 05 / 5 / 2022

Hyd. No. 2

Area B

Hydrograph type = Manual
Storm frequency = 100 yrs
Time interval = 5 min

Peak discharge = 10.35 cfs
Time to peak = 810 min
Hyd. volume = 271,569 cuft



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

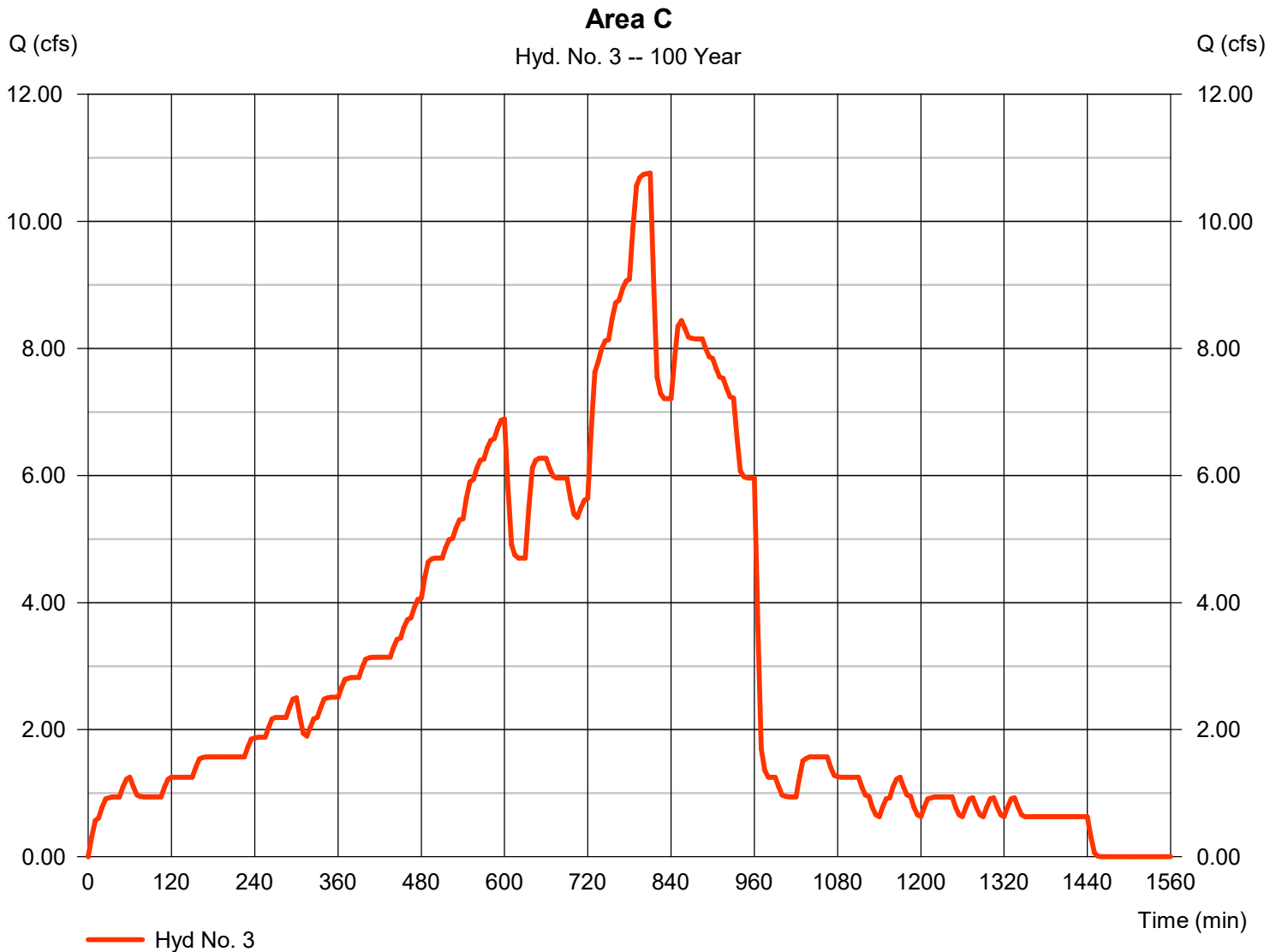
Thursday, 05 / 5 / 2022

Hyd. No. 3

Area C

Hydrograph type = Manual
Storm frequency = 100 yrs
Time interval = 5 min

Peak discharge = 10.76 cfs
Time to peak = 810 min
Hyd. volume = 282,303 cuft



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

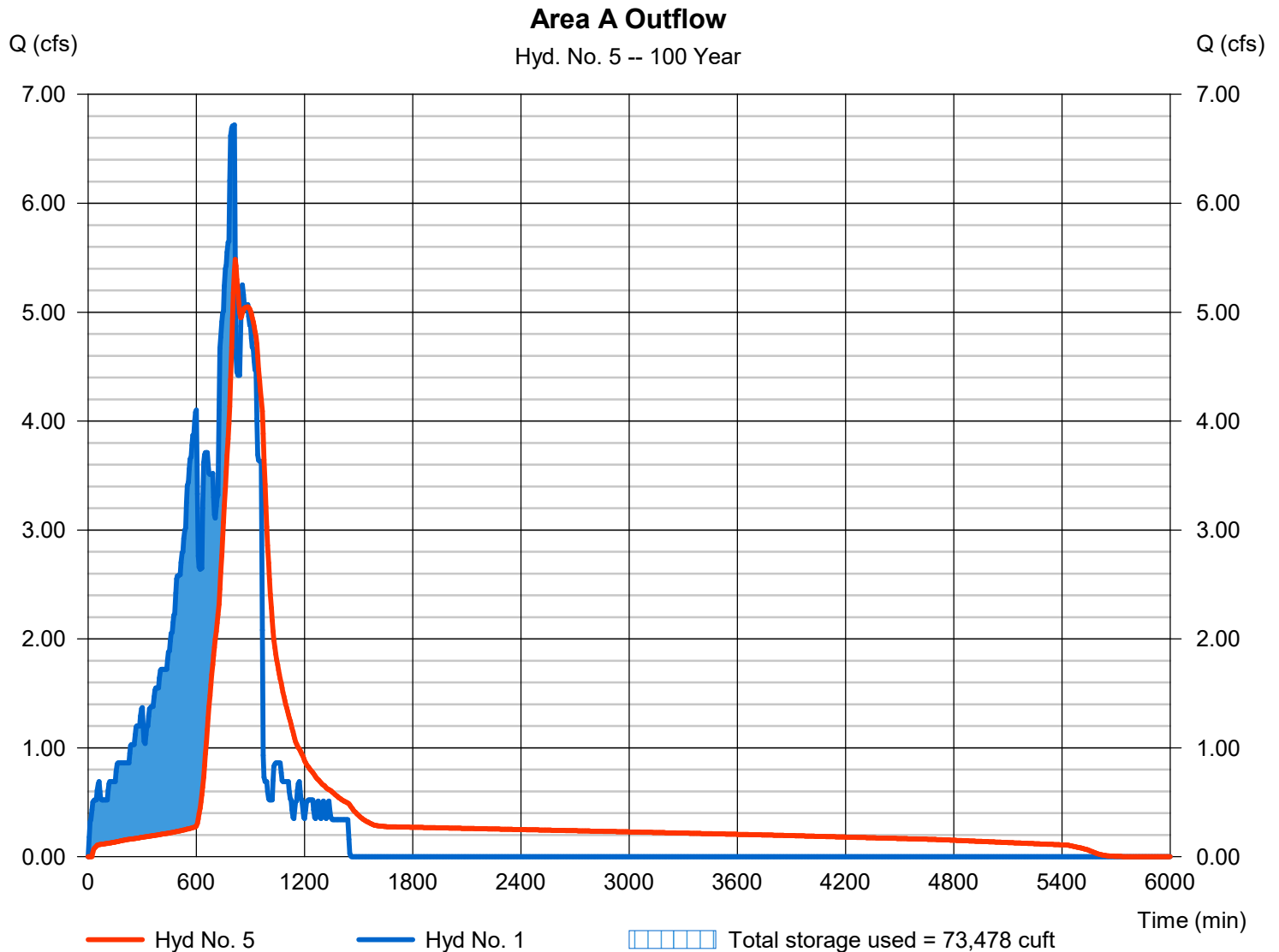
Thursday, 05 / 5 / 2022

Hyd. No. 5

Area A Outflow

| | | | |
|-----------------|----------------------|----------------|----------------|
| Hydrograph type | = Reservoir | Peak discharge | = 5.484 cfs |
| Storm frequency | = 100 yrs | Time to peak | = 815 min |
| Time interval | = 5 min | Hyd. volume | = 165,230 cuft |
| Inflow hyd. No. | = 1 - Area A | Max. Elevation | = 105.07 ft |
| Reservoir name | = Detention System A | Max. Storage | = 73,478 cuft |

Storage Indication method used.



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

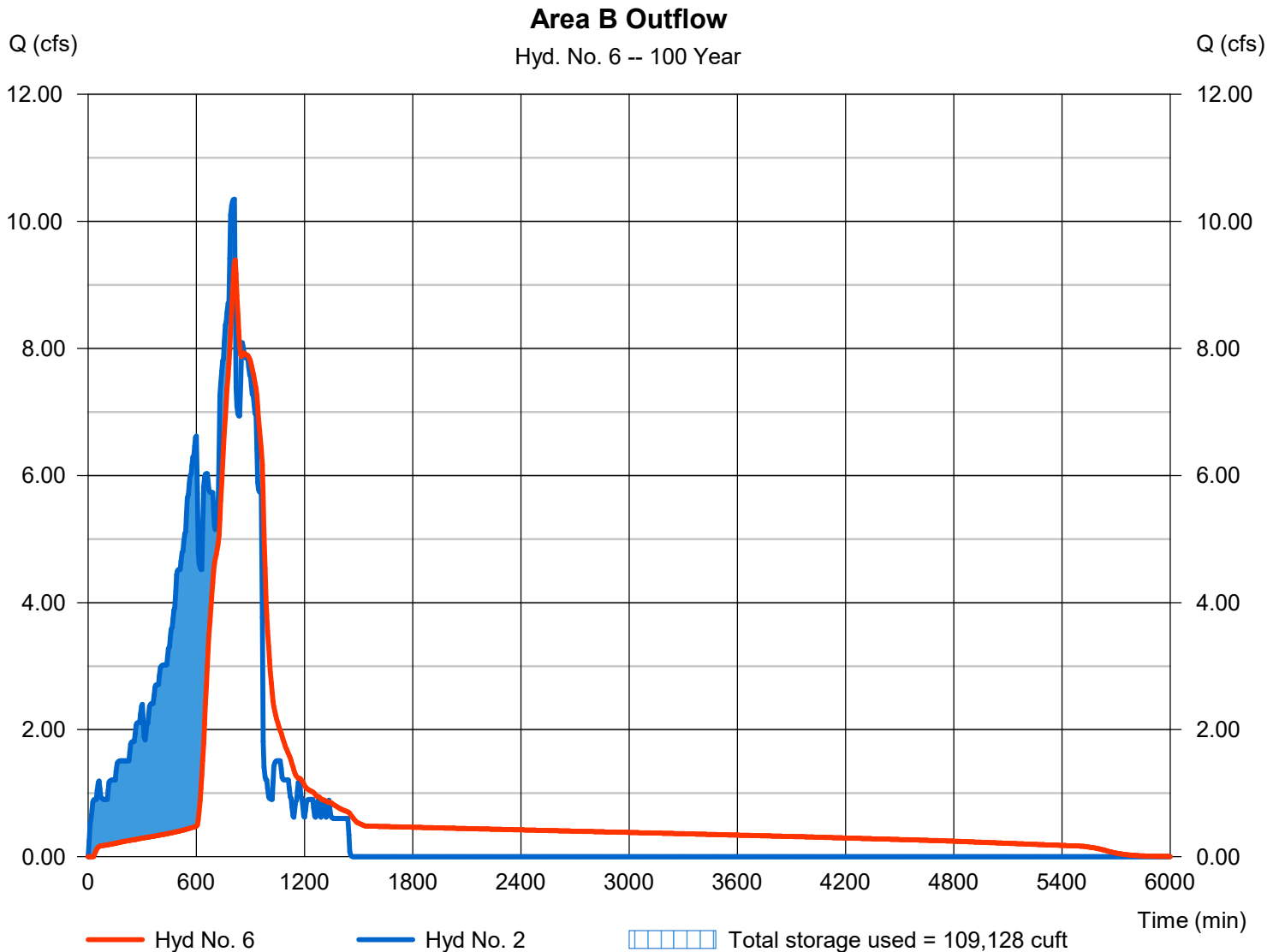
Thursday, 05 / 5 / 2022

Hyd. No. 6

Area B Outflow

| | | | |
|-----------------|----------------------|----------------|----------------|
| Hydrograph type | = Reservoir | Peak discharge | = 9.393 cfs |
| Storm frequency | = 100 yrs | Time to peak | = 815 min |
| Time interval | = 5 min | Hyd. volume | = 271,108 cuft |
| Inflow hyd. No. | = 2 - Area B | Max. Elevation | = 105.01 ft |
| Reservoir name | = Detention System B | Max. Storage | = 109,128 cuft |

Storage Indication method used.



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

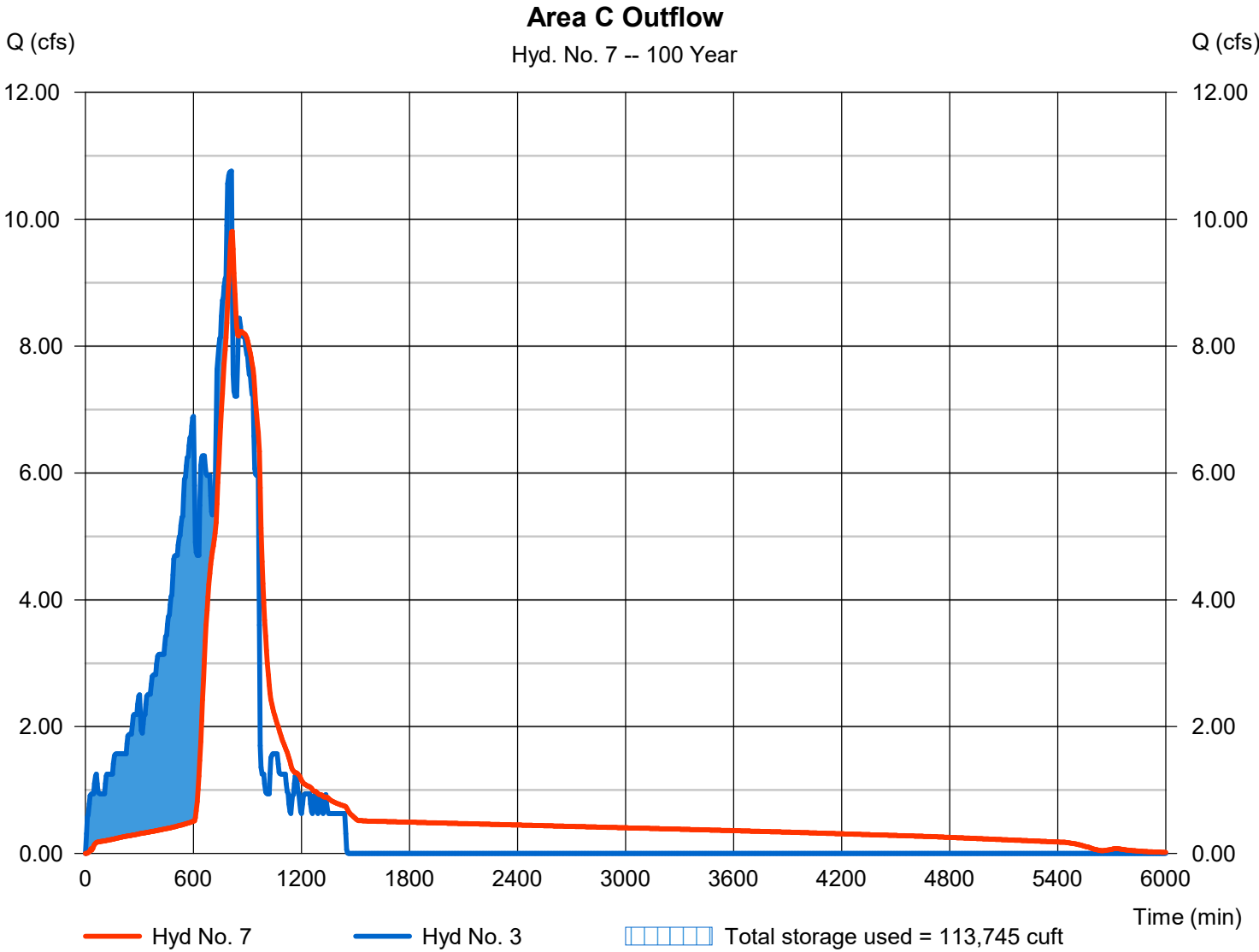
Thursday, 05 / 5 / 2022

Hyd. No. 7

Area C Outflow

| | | | |
|-----------------|----------------------|----------------|----------------|
| Hydrograph type | = Reservoir | Peak discharge | = 9.811 cfs |
| Storm frequency | = 100 yrs | Time to peak | = 815 min |
| Time interval | = 5 min | Hyd. volume | = 282,263 cuft |
| Inflow hyd. No. | = 3 - Area C | Max. Elevation | = 104.97 ft |
| Reservoir name | = Detention System C | Max. Storage | = 113,745 cuft |

Storage Indication method used.



Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2020.4

Thursday, 05 / 5 / 2022

Hyd. No. 9

Total Outflow

Hydrograph type = Combine
Storm frequency = 100 yrs
Time interval = 5 min
Inflow hyds. = 5, 6, 7

Peak discharge = 24.69 cfs
Time to peak = 815 min
Hyd. volume = 718,600 cuft
Contrib. drain. area = 0.000 ac

