

# FIR AVENUE COMMONS

## Preliminary Storm Drainage Report



RENEWAL DATE: 6/30/19

**Applicant:**

West Coast Home Solutions, LLC  
P.O. Box 1969  
Lake Oswego, OR 97035  
503.989.1613

**Engineer:**

CESNW, Inc.  
13190 SW 68<sup>th</sup> Parkway, Suite 150  
Tigard, OR 97223  
503.968.6655

**January 30, 2018**

**Rev. April 11, 2018**



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This Detail Drawing may not be altered or changed in any manner except by the City Engineer. It is the responsibility of the user to acquire the most current version.

## IMPERVIOUS AREA THRESHOLD DETERMINATION FORM

1. TOTAL NEW AND REPLACED IMPERVIOUS AREA, SF: Box 1

2. APPLY IMPERVIOUS REDUCTION METHODS:

2a. Pervious Pavement, SF: Box 2a

2b. Green Roof, SF: Box 2b

2c. Tree Credit - Applies to NON single family residential developments only. NOTE: Maximum total tree credit allowed is 10% of the Impervious Area in BOX 1:

### New Trees

To receive credit, trees must be planted in excess of Planning Division (landscaping) requirements. New evergreen trees must be at least 6 feet tall at the time of planting and new deciduous trees must be at least 2-inch caliper (diameter at 4 feet high). Trees must be planted within 25-feet of ground-level impervious surfaces. New trees cannot be credited against rooftop surfaces or pervious pavement. New trees must be selected from tree species included in Appendix A unless otherwise approved.

Number of new trees meeting criteria x 100 sf each, SF: Box 2c

### 2d. Existing Tree Canopy

To receive credit, existing tree canopy must be preserved during and after construction (recorded on property deed). Existing trees cannot be credited against rooftop surfaces or pervious pavement. Minimum tree size to receive credit is 6-inch caliper. No credit will be given for existing trees located in vegetative buffers or other requirements of the Planning Division. Tree canopy is measured as the area under the tree drip-line and that is within 25 feet of ground-level impervious surfaces.

SF of existing tree canopy that meets criteria: Box 2d

2e. Total Tree Credit (Box 2c + 2d), OR 10% of Box 1, whichever is SMALLER: Box 2e

3. TOTAL IMPERVIOUS AREA REDUCTION,  
(Sum of Boxes 2a, 2b, and 2e), SF: Box 3

4. PROPOSED IMPERVIOUS AREA,  
(Box 1 minus Box 3), SF (compare to thresholds): Box 4

### Impervious Area Threshold Determination Form

DRAWING NUMBER: ST-6000

DRAWN BY: SR

SCALE: N.T.S.

FILE NAME: ST-6000.DWG

APPROVED BY: NK

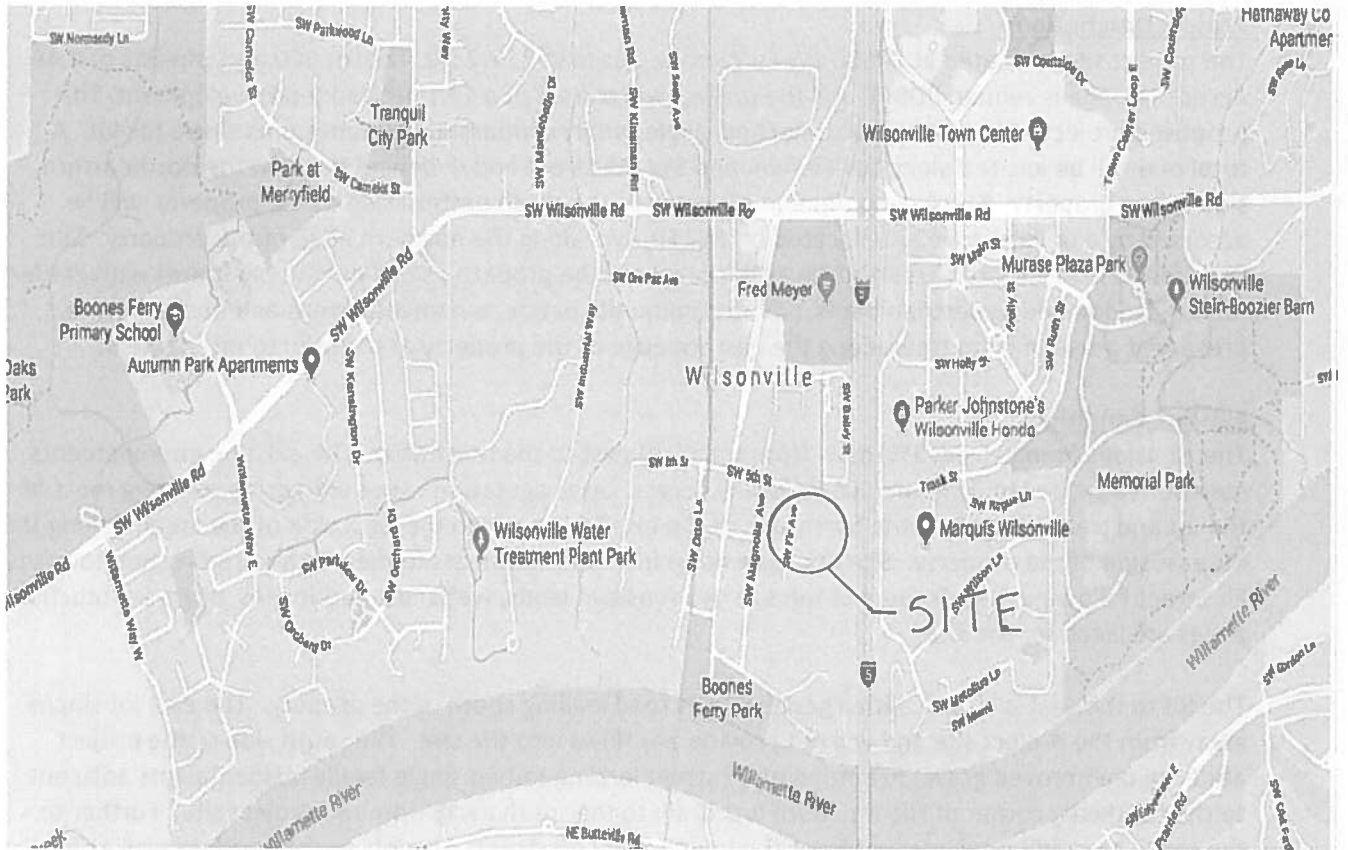
DATE: 10/10/14

CITY OF  
WILSONVILLE



PUBLIC WORKS STANDARDS





**Vicinity Map**

### **Project Description**

The project site is located at 30820 SW Fir Avenue, tax map 31W23AC Tax Lot 400 and consists of 1.48 Acres. The site is zoned PDR-4, and the project will consist of a 10-Unit Planned Development. The proposed project will consist of 10 detached single-family condominium homes on a single tax lot. A total of 6 will be located along SW Fir Ave. and SW 4th street and 4 behind those at the northeastern side of the property. The 4 condominiums located at the north eastern side of the property will be accessed by a private drive aisle located off SW Fir Ave. along the northern edge of the property. Site features include a shared green space at the center of the property, small private backyards with garden fences, landscaped pedestrian paths, paved community patios, ornamental trees and bushes, and a preserved grove of large trees along the eastern edge of the property as a screen to Interstate 5.

### **Existing Conditions**

The site slopes range from 2% to 5% from the southeast to the northwest. The existing improvements consist of a single family home and driveway access. Site vegetation varies with grass covering most of the lot and trees located on the north side of the existing house on the west side of the lot and along the far east side of the property. Site drainage flows from the southeast to the northwest direction towards Fir Street following the contours of the site. No sensitive lands, wetlands, floodplains, or tree protection zones are listed for the site.

The lot to the east is vacant with a gravel access road leading south of the property. The east lot slopes away from the project site and will not provide any flows into the site. The south side of the project abuts an unimproved gravel extension of 4<sup>th</sup> street leading to two single family residential lots adjacent to the southeast corner of the lot. Both lots drain to the south away from the project site. Further to the south are additional lots that front the unimproved 4<sup>th</sup> street. The lots to the south as well as fir street slope away from the project site and do not provide additional storm water flows into the site. North of the project site is a church that slopes away from the project site to the north.

Existing runoff from the project site travels north along Fir Street where it enters the public storm sewer main in 5<sup>th</sup> Street. From there, stormwater travels west to Boones Ferry Road where it flows south and into the Wilamette River.

According to the Soils Survey of Clackamas County there are Salem Silt Loams on site which are classified as hydrologic soil group 'B'. Attached to this report is a copy of the infiltration report.

### **Developed Conditions**

The proposed project will use both pervious and impervious features as part of the development. The report using the BMP sizing tool for the rain gardens and swales is attached. A preliminary impervious area threshold determination form is attached to this report. The private access drive and condominium driveways along the north of the property will be constructed using pervious pavement with enough stormwater storage in the rock underneath to detain the 100-year storm event. All the interior walkways will also be constructed with pervious pavement and provide stormwater storage for up to the 100-year event. The new sidewalk constructed along Fir Street and 4<sup>th</sup> Avenue as well as the driveways for the 6 units fronting those two roads will be treated in stormwater swales adjacent to the public sidewalk. The roof drains and common open space patios in the interior of the project will be treated and stormwater will be detained within to proposed rain gardens located either centrally within the project or at the northwest corner of the project site. Emergency overflow drains are provided in the planters and rain gardens for events greater than the 100-year storm.

	Storm Event	Pre-Developed Flow(cfs)	Post-Developed Flow (Unrestricted) (cfs)	Storage Volume(cf)	Depth of Storage(ft)	Post-Developed Flow (Leaving Site) (cfs)
Rain Garden 'A'	25-year	0.060	0.137	812	0.10	0.00
	100-year	0.082	0.165	973	0.50	0.00

	Storm Event	Pre-Developed Flow(cfs)	Post-Developed Flow (Unrestricted) (cfs)	Storage Volume(cf)	Depth of Storage(ft)	Post-Developed Flow (Leaving Site) (cfs)
Rain Garden 'B'	25-year	0.123	0.276	1833	0.07	0.00
	100-year	0.185	0.347	1868	0.10	0.00

	Storm Event	Pre-Developed Flow(cfs)	Post-Developed Flow (Unrestricted) (cfs)	Storage Volume(cf)	Depth of Storage(ft)	Post-Developed Flow (Leaving Site) (cfs)
Swale 1	25-year	0.071	0.079	309	1.10	0.03
	100-year	0.090	0.099	330	1.20	0.06

	Storm Event	Pre-Developed Flow(cfs)	Post-Developed Flow (Unrestricted) (cfs)	Storage Volume(cf)	Depth of Storage(ft)	Post-Developed Flow (Leaving Site) (cfs)
Swale 2	25-year	0.021	0.032	137	0.21	0.00
	100-year	0.028	0.040	161	0.42	0.00

	Storm Event	Pre-Developed Flow(cfs)	Post-Developed Flow (Unrestricted) (cfs)	Storage Volume(cf)	Depth of Storage(ft)	Post-Developed Flow (Leaving Site) (cfs)
Swale 3	25-year	0.023	0.027	103	0.71	0.00
	100-year	0.031	0.035	112	0.85	0.015

	Storm Event	Pre-Developed Flow(cfs)	Post-Developed Flow (Unrestricted) (cfs)	Storage Volume(cf)	Depth of Storage(ft)	Post-Developed Flow (Leaving Site) (cfs)
Swale 4/5/6	25-year	0.276	0.319	966	1.28	0.256
	100-year	0.348	0.394	985	1.32	0.358

The post developed flow entering the existing storm sewer system will be less than the existing predeveloped rate of flow. Attached is an 11x17 copy of the on site basins and appropriate sizing spreadsheets for the LIDA facilities.



## WES BMP Sizing Report

## Project Information

Project Name	Fir Avenue Commons
Project Type	MultiFamily
Location	30820 SW Fir Avenue,
Stormwater Management Area	86918
Project Applicant	West Coast Homes, LLC
Jurisdiction	OutofDistrict

## Drainage Management Area

Name	Area (sq-ft)	Pre-Project Cover	Post-Project Cover	DMA Soil Type	BMP
North Access - Pervious Pvmnt	5,830	Grass	PervsConcrete DA	B	NA
North Access - Landscape	3,477	Grass	LandscapeBsoil	B	NA
Rain Garden A - impervious	6,916	Grass	Roofs	B	Rain Garden A
Rain Garden A - Pervious Pvmnt	569	Grass	PervsConcreteP A	B	Rain Garden A
Rain Garden A - Landscaping	2,951	Grass	LandscapeBsoil	B	Rain Garden A
Rain Garden B - Impervious	10,374	Grass	Roofs	B	Rain Garden B
Rain Garden B - Pervious Pavement	5,830	Grass	PervsConcreteP A	B	Rain Garden B
Swale 1 - Impervious	2,627	Grass	ConventionalConcrete	B	Swale 1
Rain Garden B - Landscape	11,658	Grass	LandscapeBsoil	B	Rain Garden B
Swale 1 - Pervious Pvmnt	987	Grass	PervsConcreteP A	B	Swale 1
Swale 1 - Landscape	3,117	Grass	LandscapeBsoil	B	Swale 1
Swale 2 - Impervious	1,034	Grass	ConventionalConcrete	B	Swale 2
Swale 2 - Landscape	1,531	Grass	LandscapeBsoil	B	Swale 2
Swale 3 - Impervious	763	Grass	ConventionalConcrete	B	Swale 3

Swale 3 - Landscape	1,798	Grass	LandscapeBsoil	B	Swale 3
Swale 4/5 - Impervious	1,238	Grass	ConventionalConcrete	B	Swale 4/5/6
Swale 4/5 - Landscape	2,553	Grass	ConventionalConcrete	B	Swale 4/5/6
Swale 6 - Extg Impervious	8,340	Impervious	Roofs	B	Swale 4/5/6
Swale 6 - New Impervious	1,095	Grass	ConventionalConcrete	B	Swale 4/5/6
Swale 6 - Landscape	10,848	Grass	LandscapeBsoil	B	Swale 4/5/6

### LID Facility Sizing Details

LID ID	Design Criteria	BMP Type	Facility Soil Type	Minimum Area (sq-ft)	Planned Areas (sq-ft)	Orifice Diameter (in)
Rain Garden A	FlowControlAndTreatment	Rain Garden - Infiltration	A1	825.7	848.0	0.0
Rain Garden B	FlowControlAndTreatment	Rain Garden - Infiltration	A1	1,853.5	1,854.0	0.0
Swale 2	WaterQuality	Vegetated Swale - Infiltration	A1	22.4	114.0	0.0
Swale 1	WaterQuality	Vegetated Swale - Infiltration	A1	65.3	140.0	0.0
Swale 3	WaterQuality	Vegetated Swale - Infiltration	A1	19.5	60.0	0.0
Swale 4/5/6	WaterQuality	Vegetated Swale - Infiltration	A1	247.2	424.0	0.0

### Pond Sizing Details

1. FCWQT = Flow control and water quality treatment, WQT = Water quality treatment only
2. Depth is measured from the bottom of the facility and includes the three feet of media (drain rock, separation layer and growing media).
3. Maximum volume of the facility. Includes the volume occupied by the media at the bottom of the facility.
4. Maximum water storage volume of the facility. Includes water storage in the three feet of soil media assuming a 40 percent porosity.



**FIR AVENUE COMMONS**  
CASE FILE NO. XX-XX

WEST COAST HOME SOLUTIONS  
PO BOX 1969  
LAKE OSWEGO, OR 97035

**CES | NW**

13190 SW 68th Parkway, Suite 150  
Tigard, Oregon 97223  
503.968.6655 www.cesnw.com

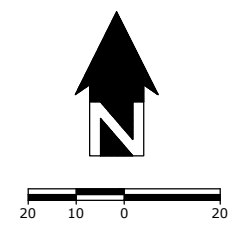
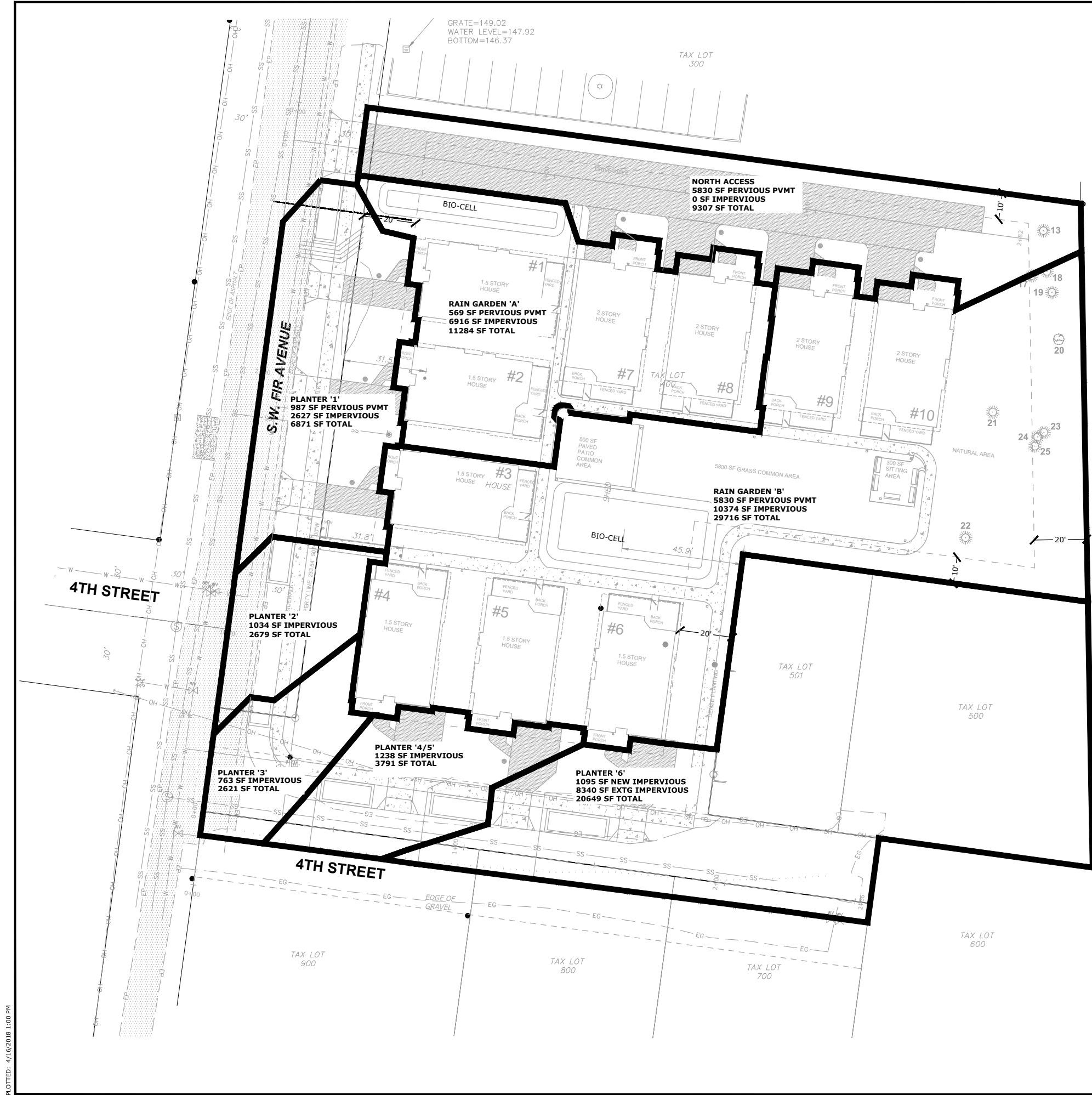
REVISIONS

PROJECT NO.:	DATE:	DESIGNED BY:	DRAWN BY:	JD
3269	02/02/18	JD		JD

**STORM WATER  
BASIN MAP**

SHEET

**1  
OF  
6**



PLOTTED: 4/16/2018 1:00 PM

3269-STWBASINMAP.DWG



## PRELIMINARY DRAINAGE ANALYSIS

30820 SW Fir Ave.

Wilsonville, Oregon

September 22, 2017

### Narrative:

The subject property is a 1.48 acre property on the northerly side of SW Fir in Wilsonville, Oregon. The site is nearly level with slopes of 2% or less. There is one existing house facing SW Fir Ave. The USDA web site finds the soils as 76B Salem silt loam, with a hydrologic group B soil.

A hand dug test pit was prepared for the infiltration and pre-soaked the day before the test. The materials were found to be topsoil (organic) of approximately 2-inches followed by crushed rock layer of approximately 3-inches followed by silt loam with no rock to the bottom of the 46-inch deep test pit. The soil was dry and no ground water was noted, and all the pre-soak water had infiltrated into the ground.

This preliminary testing was to determine the basic suitability of the site for on-site water quality and disposal of storm water. No specific design is proposed and additional testing to meet the requirements of the Public Works Standards will be required.

### Reference:

City of Wilsonville, Public Works Standards -2006, Appendix C, infiltration requirements site characterization and site suitability criteria.

Lake Oswego Stormwater Management Manual, Appendix B infiltration testing guidance.

### Infiltration Test

Results of third, one hour test:

time	measurement
2:00	18.125"
2:10	19.875"
2:20	21.0"
2:30	22.125"
2:40	23.125"
2:50	23.50"
3:00	24.125" = 5" per hour

Application to the raw rate with a safety factor of two the design rate is 2.5"/hr

## Conclusion:

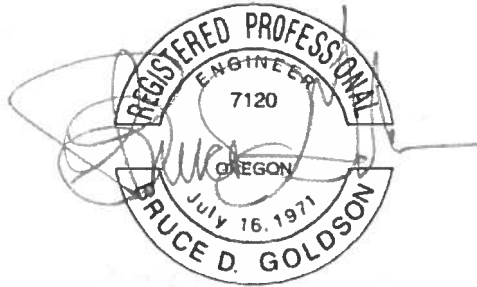
No site specific redevelopment of this site is available at this time. The rates were found to be satisfactory for a variety of on-site disposal methods per the Wilsonville storm water regulations. The final design will require additional testing based on the selected facility and will be dependent of the total impervious area proposed with development.

PREPARED BY:

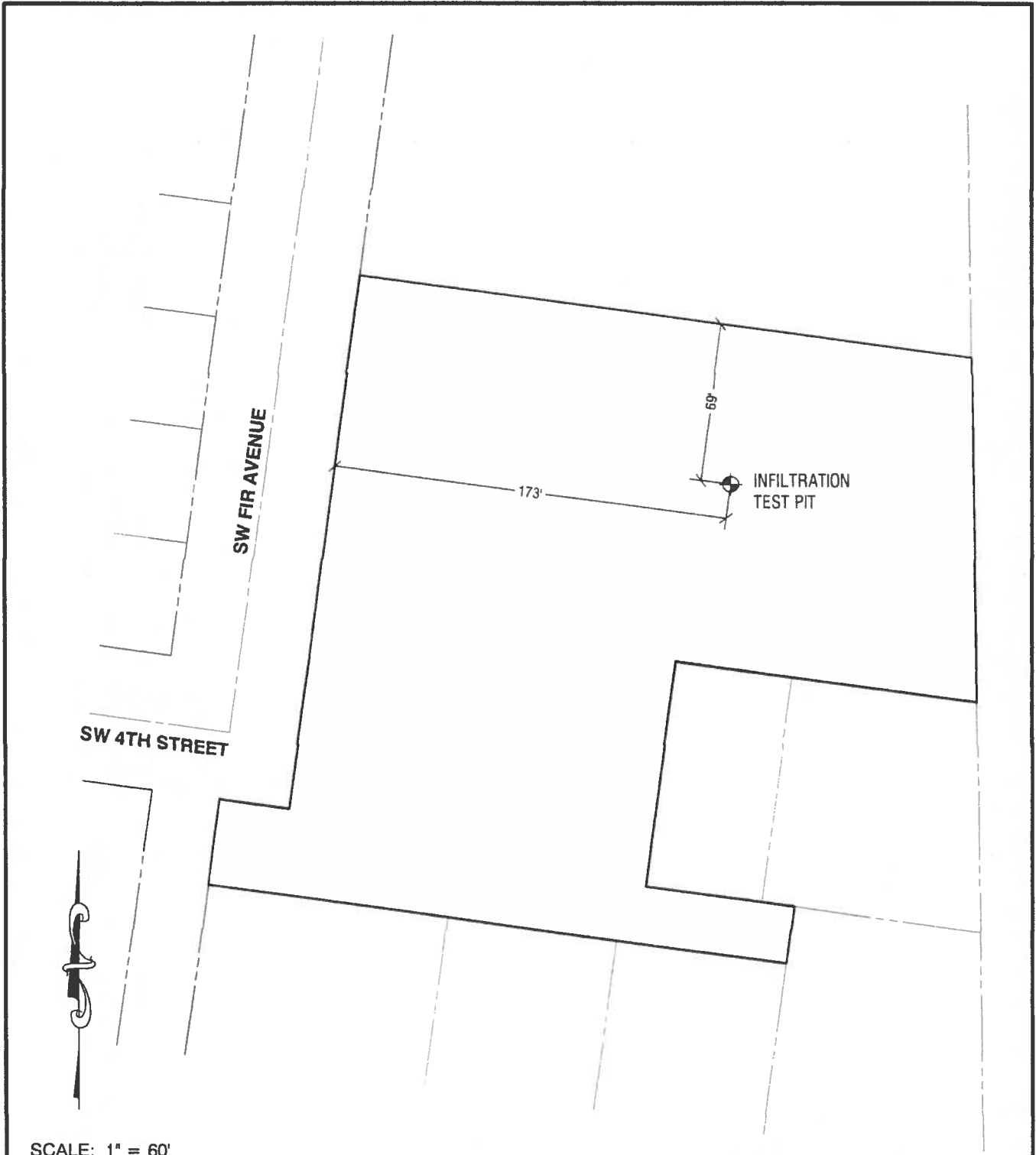
BRUCE D. GOLDSON, PE

THETA, LLC

September 23, 2017



EXPIRES: 06/30/2019  
SIGNATURE DATE: 9/23/17



SCALE: 1" = 60'

2010-21

PRELIMINARY STORM ANALYSIS

**Theta, llc**

ENGINEERING - SURVEYING - PLANNING  
 PO Box 1345  
 Lake Oswego, Oregon 97035  
 503/481-8822  
 email: thetaeng@comcast.net

20820 SW Fir Avenue  
 Wilsonville, Oregon



Project: *Fir Avenue*  
 Project Number: 3269  
 Date: 4/10/18  
 Basin: RG 'A'  
 Event: 25-year

## INFLOW HYDROGRAPH

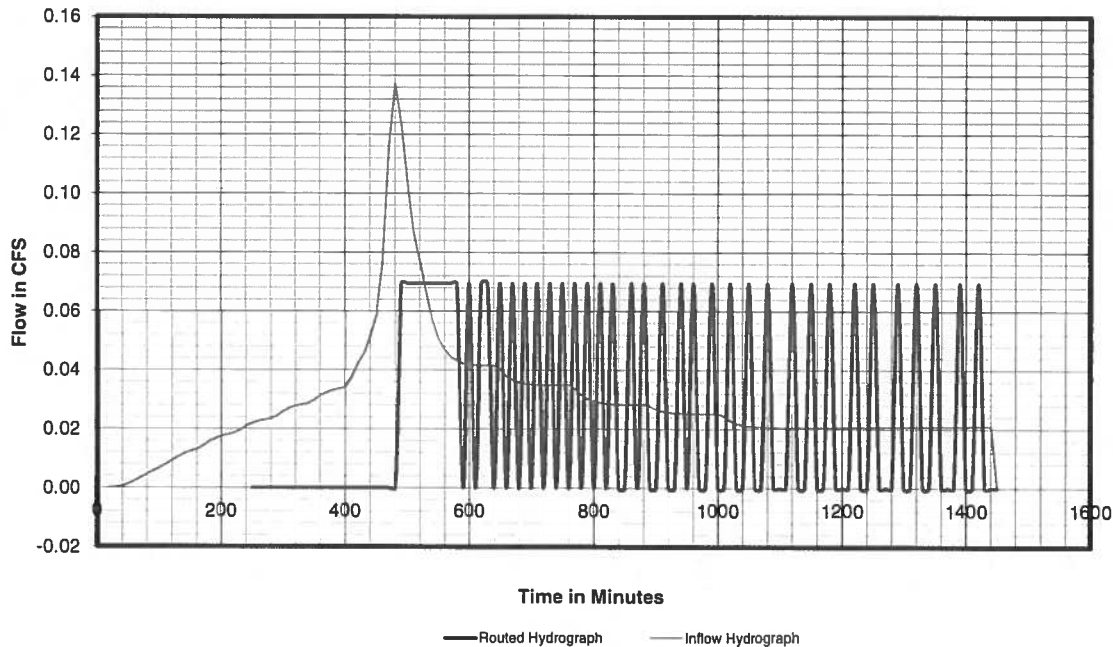
<b>Hydrograph Data:</b>	<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	
Site Area =	11284	11284 SF	<b>Pervious Area:</b>	<b>Impervious Area:</b>
Area =	0.26	0.26 acres	Area = 0.2290 acres	Area = 0.0300 acres
Pt =	3.9	3.9 inches	CN = 69	CN = 98
dt =	10	10 min	S = 4.49	S = 0.20
Tc =	22	5 min	0.2S = 0.90	0.2S = 0.04
w =	0.18519	0.1852 Rout. Con.		

<b>Hydrograph Results:</b>		<b>POST-DEVELOPED</b>	
<b>Pre-Developed Peak Runoff:</b>	<b>0.060 cfs</b>	<b>Pervious Area:</b>	<b>Impervious Area:</b>
Pre Developed Total Volume:	1376.7 CF	Area = 0.1002 acres	Area = 0.1588 acres
		CN = 69	CN = 98
		S = 4.49	S = 0.20
<b>Post-Developed Peak Runoff:</b>	<b>0.137 cfs</b>	0.2S = 0.90	0.2S = 0.04
Post Developed Total Volume:	2522.6 CF		

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	66.0 FT	Diameter	6 IN
Bottom Width	6.0 FT	Elevation	0.8 FT
Side Slope	3 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	396 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	1 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	<b>MAX STORAGE =</b>	<b>812.4 Cu Ft</b>
Soil Media porosity	25%	<b>MAX OUTLET =</b>	<b>0.069 cfs</b>
Gravel Layer porosity	40%	<b>MAX Infiltration =</b>	<b>0.069 cfs</b>
Infiltration Rate	5 in/hr	<b>MAX Bypass =</b>	<b>0.000 cfs</b>
Infl Safety Factor	2		

BioCell Inflow/Outflow Hydrograph







Project: Fir Avenue  
 Project Number: 3269  
 Date: 4/10/18  
 Basin: RG 'A'  
 Event: 100-year

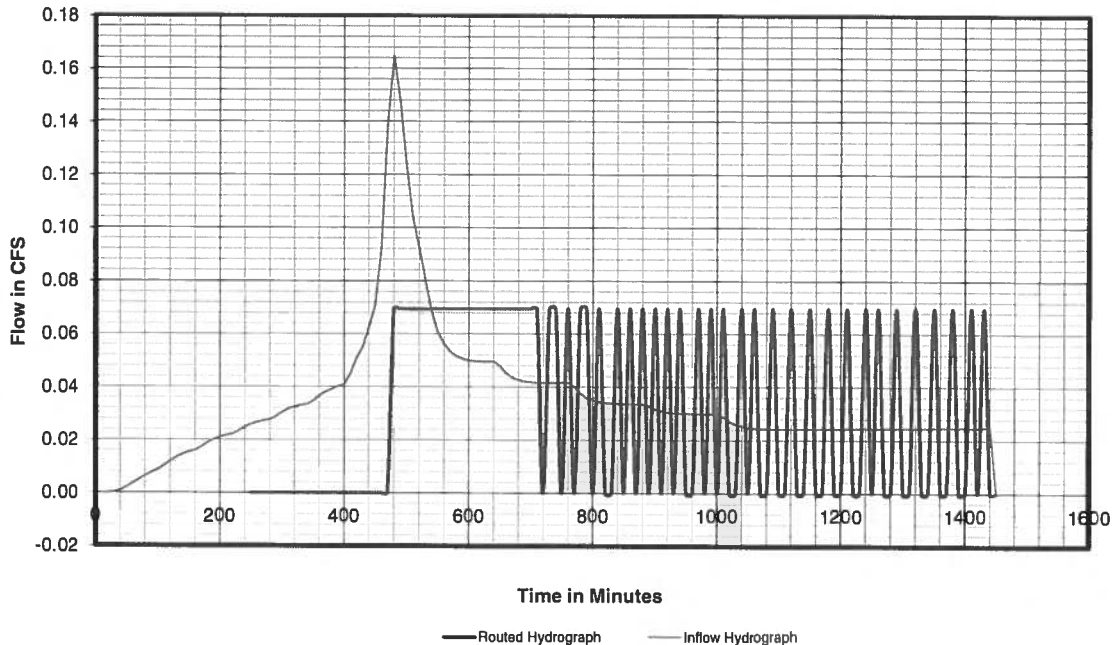
## INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>		<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>	
Site Area =	11284	11284 SF		<b>Pervious Area:</b>		
Area =	0.26	0.26 acres	Area =	0.2290 acres	Area =	0.0300 acres
Pt =	4.5	4.5 inches	CN =	69	CN =	98
dt =	10	10 min	S =	4.49	S =	0.20
Tc =	22	5 min	0.2S =	0.90	0.2S =	0.04
w =	0.18519	0.1852 Rout. Con.				
<b>Hydrograph Results:</b>			<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>		
Pre-Developed Peak Runoff:	<b>0.082 cfs</b>		<b>Pervious Area:</b>			
Pre Developed Total Volume:	1769.7 CF		Area =	0.1002 acres	Area =	0.1588 acres
			CN =	69	CN =	98
			S =	4.49	S =	0.20
Post-Developed Peak Runoff:	<b>0.165 cfs</b>		0.2S =	0.90	0.2S =	0.04
Post Developed Total Volume:	3008.4 CF					

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	66.0 FT	Diameter	6 IN
Bottom Width	6.0 FT	Elevation	0.8 FT
Side Slope	3 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	<b>396 SF</b>	Grate SF	0.8
Bio-Cell Max. Water Depth	1 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	MAX STORAGE =	973.1 Cu Ft
Soil Media porosity	25%	MAX OUTLET =	0.069 cfs
Gravel Layer porosity	40%	MAX Infiltration =	0.069 cfs
Infiltration Rate	5 in/hr	MAX Bypass =	0.000 cfs
Infl Safety Factor	2		

BioCell Inflow/Outflow Hydrograph





(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0001	0.0	0.0	
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0004	0.0	0.0	
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0006	0.0	0.0	
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0008	0.0	0.0	
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0010	0.0	0.0	
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0011	0.0	0.0	
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0012	0.0	0.0	
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0013	0.0	0.0	
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0017	0.0	0.0	
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0018	0.0	0.0	
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0019	0.0	0.0	
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0020	0.0	0.0	
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0021	0.0	0.0	
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0021	0.0	0.0	
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0026	0.0	0.0	
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0026	0.0	0.0	
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0027	0.0	0.0	
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0027	0.0	0.0	
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0028	0.0	0.0	
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0028	0.0	0.0	
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0033	0.0	0.0	
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0033	0.0	0.0	
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0034	0.0	0.0	
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0034	0.0	0.0	
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0034	0.0	0.0	
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0034	0.0	0.0	
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0040	0.0	0.0	
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0040	0.0	0.0	
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0041	0.0	0.0	
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0041	0.0	0.0	
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0041	0.0	0.0	
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0041	0.0	0.0	
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0050	0.0	0.0	
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0057	0.0	0.0	
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0064	0.0	0.0	
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0070	0.0	0.0	
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0077	0.0	0.0	
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0083	0.0	0.0	
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0128	0.0	0.0	
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0140	0.0	0.0	
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0151	0.0	0.0	
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0221	0.0	0.0	
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0239	0.0	0.0	
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0501	0.1	0.0	
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.0914	0.1	0.1	
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0506	0.1	0.1	
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0355	0.1	0.1	
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0272	0.0	0.1	
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0279	0.0	0.1	
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0286	0.0	0.1	
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0191	0.0	0.0	
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0194	0.0	0.0	
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0197	0.0	0.0	
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0199	0.0	0.0	
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0202	0.0	0.0	
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0204	0.0	0.0	
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0207	0.0	0.0	
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0209	0.0	0.0	
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0212	0.0	0.0	
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0214	0.0	0.0	
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0216	0.0	0.0	
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0219	0.0	0.0	
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0180	0.0	0.0	
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0182	0.0	0.0	
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0183	0.0	0.0	
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0185	0.0	0.0	
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0186	0.0	0.0	
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0188	0.0	0.0	

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0189	0.0	0.0
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0190	0.0	0.0
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0192	0.0	0.0
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0193	0.0	0.0
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0194	0.0	0.0
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0195	0.0	0.0
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0156	0.0	0.0
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0156	0.0	0.0
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0157	0.0	0.0
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0158	0.0	0.0
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0159	0.0	0.0
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0159	0.0	0.0
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0160	0.0	0.0
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0161	0.0	0.0
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0161	0.0	0.0
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0162	0.0	0.0
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0163	0.0	0.0
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0163	0.0	0.0
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0144	0.0	0.0
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0144	0.0	0.0
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0145	0.0	0.0
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0146	0.0	0.0
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0146	0.0	0.0
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0147	0.0	0.0
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0147	0.0	0.0
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0147	0.0	0.0
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0148	0.0	0.0
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0148	0.0	0.0
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0149	0.0	0.0
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0149	0.0	0.0
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0120	0.0	0.0
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0120	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0120	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0121	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0121	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0121	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0122	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0122	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0122	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0122	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0123	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0123	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0123	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0124	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0124	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0124	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0124	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0125	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0125	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0125	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0125	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0126	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0126	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0126	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0126	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0127	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0127	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0127	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0127	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0128	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0128	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0128	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0128	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0129	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0129	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0129	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0129	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0129	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0130	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0130	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0130	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0130	0.0	0.0

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instan- t Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0131	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0131	0.0	0.0
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet) 1770	

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0005	0.0	0.0	
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0020	0.0	0.0	
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0033	0.0	0.0	
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0043	0.0	0.0	
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0052	0.0	0.0	
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0059	0.0	0.0	
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0064	0.0	0.0	
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0069	0.0	0.0	
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0092	0.0	0.0	
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0097	0.0	0.0	
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0102	0.0	0.0	
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0106	0.0	0.0	
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0109	0.0	0.0	
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0112	0.0	0.0	
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0137	0.0	0.0	
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0140	0.0	0.0	
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0142	0.0	0.0	
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0144	0.0	0.0	
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0146	0.0	0.0	
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0148	0.0	0.0	
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0174	0.0	0.0	
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0176	0.0	0.0	
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0178	0.0	0.0	
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0179	0.0	0.0	
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0180	0.0	0.0	
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0181	0.0	0.0	
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0213	0.0	0.0	
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0214	0.0	0.0	
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0215	0.0	0.0	
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0216	0.0	0.0	
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0217	0.0	0.0	
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0217	0.0	0.0	
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0253	0.0	0.0	
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0257	0.0	0.0	
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0261	0.0	0.0	
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0264	0.0	0.0	
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0268	0.0	0.0	
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0271	0.0	0.0	
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0387	0.1	0.0	
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0393	0.1	0.1	
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0399	0.1	0.1	
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0544	0.1	0.1	
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0553	0.1	0.1	
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.1067	0.2	0.1	
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1751	0.3	0.1	
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0898	0.1	0.2	
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0607	0.1	0.1	
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0456	0.1	0.1	
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0459	0.1	0.1	
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0462	0.1	0.1	
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0305	0.0	0.1	
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0306	0.0	0.1	
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0307	0.0	0.1	
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0309	0.0	0.1	
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0310	0.0	0.1	
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0311	0.0	0.1	
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0312	0.0	0.1	
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0313	0.0	0.0	
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0314	0.0	0.0	
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0315	0.0	0.0	
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0316	0.0	0.0	
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0317	0.0	0.0	
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0260	0.0	0.0	
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0261	0.0	0.0	
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0262	0.0	0.0	
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0262	0.0	0.0	
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0263	0.0	0.0	
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0263	0.0	0.0	

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0264	0.0	0.0
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0265	0.0	0.0
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0265	0.0	0.0
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0266	0.0	0.0
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0266	0.0	0.0
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0267	0.0	0.0
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0212	0.0	0.0
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0212	0.0	0.0
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0212	0.0	0.0
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0213	0.0	0.0
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0213	0.0	0.0
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0213	0.0	0.0
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0214	0.0	0.0
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0214	0.0	0.0
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0214	0.0	0.0
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0215	0.0	0.0
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0215	0.0	0.0
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0215	0.0	0.0
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0189	0.0	0.0
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0189	0.0	0.0
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0190	0.0	0.0
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0190	0.0	0.0
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0190	0.0	0.0
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0190	0.0	0.0
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0190	0.0	0.0
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0191	0.0	0.0
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0191	0.0	0.0
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0191	0.0	0.0
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0191	0.0	0.0
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0192	0.0	0.0
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0153	0.0	0.0
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0154	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0154	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0154	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0154	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0154	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0154	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0154	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0154	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0155	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0155	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0155	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0155	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0155	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0155	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0155	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0155	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0156	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0156	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0156	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0156	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0156	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0156	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0156	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0156	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0156	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0157	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0157	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0157	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0157	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0157	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0157	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0157	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0157	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0157	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0157	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0158	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0158	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0158	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0158	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0158	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0158	0.0	0.0



(1) Time Incre- ment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0158	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0158	0.0	0.0
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet)	3008

## BioCell Storage vs. Outflow

t = 600 sec

Height	Storage	<i>Iop</i> Length	<i>Iop</i> Width	Surface Area (sq ft)	Infiltration (out)	Overflow (out)	S/t	2S/t	O+2S/t	Total Out
									0	0
0	755	66.0	6.0	396	0.0694	0.0000	1.2578	2.5155	2.5849	0.0694
0.1	796	66.6	6.6	440	0.0694	0.0000	1.3274	2.6548	2.7242	0.0694
0.2	843	67.2	7.2	484	0.0694	0.0000	1.4043	2.8087	2.8781	0.0694
0.3	893	67.8	7.8	529	0.0694	0.0000	1.4887	2.9774	3.0469	0.0694
0.4	948	68.4	8.4	575	0.0694	0.0000	1.5807	3.1613	3.2308	0.0694
0.5	1008	69.0	9.0	621	0.0694	0.0000	1.6803	3.3606	3.4300	0.0694
0.6	1073	69.6	9.6	668	0.0694	0.0000	1.7877	3.5755	3.6449	0.0694
0.7	1142	70.2	10.2	716	0.0694	0.0000	1.9031	3.8062	3.8756	0.0694
0.8	1216	70.8	10.8	765	0.0694	0.0000	2.0265	4.0529	4.1224	0.0694
0.9	1295	71.4	11.4	814	0.0694	0.1192	2.1580	4.3160	4.5047	0.1887
1	1379	72.0	12.0	864	0.0694	0.3372	2.2979	4.5957	5.0023	0.4066
1.1	1468	72.6	12.6	915	0.0694	0.6195	2.4461	4.8922	5.5811	0.6889
1.2	1562	73.2	13.2	966	0.0694	0.9537	2.6028	5.2057	6.2288	1.0232
1.3	1661	73.8	13.8	1018	0.0694	1.3329	2.7682	5.5364	6.9388	1.4023
1.4	1765	74.4	14.4	1071	0.0694	1.7521	2.9424	5.8847	7.7063	1.8215
1.5	1875	75.0	15.0	1125	0.0694	2.2079	3.1254	6.2508	8.5281	2.2773
1.6	1990	75.6	15.6	1179	0.0694	2.6975	3.3174	6.6349	9.4018	2.7670
1.7	2111	76.2	16.2	1234	0.0694	3.2188	3.5186	7.0372	10.3254	3.2883
1.8	2237	76.8	16.8	1290	0.0694	3.7699	3.7290	7.4579	11.2973	3.8394
1.9	2369	77.4	17.4	1347	0.0694	4.3493	3.9487	7.8974	12.3162	4.4188
2	2507	78.0	18.0	1404	0.0694	4.9557	4.1780	8.3559	13.3810	5.0251
2.1	2650	78.6	18.6	1462	0.0694	5.5879	4.4168	8.8336	14.4909	5.6573
2.2	2799	79.2	19.2	1521	0.0694	6.2449	4.6653	9.3307	15.6450	6.3143
2.3	2954	79.8	19.8	1580	0.0694	6.9258	4.9237	9.8474	16.8427	6.9952
2.4	3115	80.4	20.4	1640	0.0694	7.6298	5.1921	10.3841	18.0834	7.6992
2.5	3282	81.0	21.0	1701	0.0694	8.3561	5.4705	10.9410	19.3666	8.4256
2.6	3455	81.6	21.6	1763	0.0694	9.1042	5.7591	11.5183	20.6919	9.1736
2.7	3635	82.2	22.2	1825	0.0694	9.8733	6.0581	12.1162	22.0589	9.9427
2.8	3820	82.8	22.8	1888	0.0694	10.6629	6.3675	12.7349	23.4673	10.7324
2.9	4012	83.4	23.4	1952	0.0694	11.4726	6.6874	13.3748	24.9169	11.5420
3	4211	84.0	24.0	2016	0.0694	12.3017	7.0181	14.0361	26.4073	12.3712
3.1	4416	84.6	24.6	2081	0.0694	13.1499	7.3595	14.7190	27.9383	13.2194
3.2	4627	85.2	25.2	2147	0.0694	14.0168	7.7118	15.4237	29.5099	14.0862
3.3	4845	85.8	25.8	2214	0.0694	14.9019	8.0752	16.1504	31.1218	14.9714
3.4	5070	86.4	26.4	2281	0.0694	15.8049	8.4498	16.8995	32.7739	15.8744
3.5	5301	87.0	27.0	2349	0.0694	16.7254	8.8356	17.6712	34.4661	16.7949
3.6	5540	87.6	27.6	2418	0.0694	17.6632	9.2328	18.4657	36.1983	17.7326
3.7	5785	88.2	28.2	2487	0.0694	18.6178	9.6416	19.2832	37.9704	18.6873
3.8	6037	88.8	28.8	2557	0.0694	19.5891	10.0620	20.1239	39.7825	19.6585
3.9	6296	89.4	29.4	2628	0.0694	20.5767	10.4941	20.9882	41.6343	20.6461
4	6563	90.0	30.0	2700	0.0694	21.5803	10.9382	21.8763	43.5260	21.6497
4.1	6837	90.6	30.6	2772	0.0694	22.5997	11.3942	22.7884	45.4575	22.6692
4.2	7117	91.2	31.2	2845	0.0694	23.6347	11.8623	23.7247	47.4288	23.7042
4.3	7406	91.8	31.8	2919	0.0694	24.6851	12.3427	24.6854	49.4399	24.7545
4.4	7701	92.4	32.4	2994	0.0694	25.7505	12.8355	25.6709	51.4909	25.8200
4.5	8004	93.0	33.0	3069	0.0694	26.8309	13.3407	26.6814	53.5817	26.9003
4.6	8315	93.6	33.6	3145	0.0694	27.9259	13.8585	27.7171	55.7124	27.9954
4.7	8633	94.2	34.2	3222	0.0694	29.0355	14.3891	28.7782	57.8831	29.1049
4.8	8959	94.8	34.8	3299	0.0694	30.1594	14.9325	29.8649	60.0937	30.2288

t = 600 sec

<b>Height</b>	<b>Storage</b>	<b>Top Length</b>	<b>Top Width</b>	<b>Surface Area (sq ft)</b>	<b>Infiltration (out)</b>	<b>Overflow (out)</b>	<b>S/t</b>	<b>2S/t</b>	<b>O+2S/t</b>	<b>Total Out</b>
4.9	9293	95.4	35.4	3377	<b>0.0694</b>	<b>31.2974</b>	15.4888	30.9776	62.3445	31.3668
5	9635	96.0	36.0	3456	<b>0.0694</b>	<b>32.4494</b>	16.0583	32.1165	64.6353	32.5188
5.1	9985	96.6	36.6	3536	<b>0.0694</b>	<b>33.6151</b>	16.6409	33.2818	66.9663	33.6846
5.2	10342	97.2	37.2	3616	<b>0.0694</b>	<b>34.7945</b>	17.2368	34.4737	69.3376	34.8640
5.3	10708	97.8	37.8	3697	<b>0.0694</b>	<b>35.9874</b>	17.8462	35.6924	71.7493	36.0569
5.4	11082	98.4	38.4	3779	<b>0.0694</b>	<b>37.1937</b>	18.4692	36.9383	74.2014	37.2631
5.5	11463	99.0	39.0	3861	<b>0.0694</b>	<b>38.4131</b>	19.1058	38.2116	76.6941	38.4825
5.6	11854	99.6	39.6	3944	<b>0.0694</b>	<b>39.6455</b>	19.7562	39.5125	79.2274	39.7150
5.7	12252	100.2	40.2	4028	<b>0.0694</b>	<b>40.8909</b>	20.4206	40.8412	81.8015	40.9603
5.8	12659	100.8	40.8	4113	<b>0.0694</b>	<b>42.1490</b>	21.0990	42.1979	84.4164	42.2184
5.9	13075	101.4	41.4	4198	<b>0.0694</b>	<b>43.4198</b>	21.7915	43.5830	87.0722	43.4892
6	13499	102.0	42.0	4284	<b>0.0694</b>	<b>44.7030</b>	22.4984	44.9967	89.7692	44.7725

## BioCell Storage Routing

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
10	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00
20	0.0000	0.0001	0.00	0.00	0.00	0.00	0.04
30	0.0001	0.0008	0.00	0.00	0.00	0.00	0.33
40	0.0008	0.0021	0.00	0.00	0.00	0.00	1.20
50	0.0021	0.0035	0.00	0.01	0.00	0.01	2.89
60	0.0035	0.0050	0.01	0.02	0.00	0.02	5.44
70	0.0050	0.0063	0.02	0.03	0.00	0.03	8.84
80	0.0063	0.0076	0.03	0.04	0.00	0.04	13.01
90	0.0076	0.0086	0.04	0.06	0.00	0.06	17.88
100	0.0086	0.0101	0.06	0.08	0.00	0.08	23.50
110	0.0101	0.0119	0.08	0.10	0.00	0.10	30.10
120	0.0119	0.0133	0.10	0.13	0.00	0.13	37.65
130	0.0133	0.0144	0.13	0.15	0.00	0.15	45.94
140	0.0144	0.0153	0.15	0.18	0.00	0.18	54.83
150	0.0153	0.0160	0.18	0.21	0.00	0.21	64.22
160	0.0160	0.0173	0.21	0.25	0.00	0.25	74.22
170	0.0173	0.0189	0.25	0.28	0.00	0.28	85.08
180	0.0189	0.0201	0.28	0.32	0.00	0.32	96.79
190	0.0201	0.0210	0.32	0.36	0.00	0.36	109.12
200	0.0210	0.0217	0.36	0.41	0.00	0.41	121.91
210	0.0217	0.0222	0.41	0.45	0.00	0.45	135.06
220	0.0222	0.0233	0.45	0.50	0.00	0.50	148.71
230	0.0233	0.0249	0.50	0.54	0.00	0.54	163.16
240	0.0249	0.0259	0.54	0.59	0.00	0.59	178.39
250	0.0259	0.0267	0.59	0.65	0.00	0.65	194.16
260	0.0267	0.0272	0.65	0.70	0.00	0.70	210.32
270	0.0272	0.0276	0.70	0.76	0.00	0.76	226.76
280	0.0276	0.0288	0.76	0.81	0.00	0.81	243.68
290	0.0288	0.0305	0.81	0.87	0.00	0.87	261.49
300	0.0305	0.0317	0.87	0.93	0.00	0.93	280.15
310	0.0317	0.0325	0.93	1.00	0.00	1.00	299.40
320	0.0325	0.0330	1.00	1.06	0.00	1.06	319.04
330	0.0330	0.0334	1.06	1.13	0.00	1.13	338.95
340	0.0334	0.0347	1.13	1.20	0.00	1.20	359.36
350	0.0347	0.0366	1.20	1.27	0.00	1.27	380.76
360	0.0366	0.0381	1.27	1.34	0.00	1.34	403.18
370	0.0381	0.0392	1.34	1.42	0.00	1.42	426.38
380	0.0392	0.0401	1.42	1.50	0.00	1.50	450.19
390	0.0401	0.0409	1.50	1.58	0.00	1.58	474.50
400	0.0409	0.0448	1.58	1.67	0.00	1.67	500.22
410	0.0448	0.0509	1.67	1.76	0.00	1.76	528.94
420	0.0509	0.0550	1.76	1.87	0.00	1.87	560.71
430	0.0550	0.0620	1.87	1.99	0.00	1.99	595.82
440	0.0620	0.0709	1.99	2.12	0.00	2.12	635.67
450	0.0709	0.0917	2.12	2.28	0.00	2.28	684.43
460	0.0917	0.1395	2.28	2.51	0.00	2.51	753.78
470	0.1395	0.1647	2.51	2.82	0.00	2.82	845.05
480	0.1647	0.1474	2.75	3.06	0.07	2.99	876.19
490	0.1474	0.1236	2.92	3.19	0.07	3.12	915.84
500	0.1236	0.1044	3.05	3.28	0.07	3.21	942.58

<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
510	0.1044	0.0924	3.14	3.34	0.07	3.27	959.96
520	0.0924	0.0805	3.20	3.37	0.07	3.30	970.16
530	0.0805	0.0684	3.23	3.38	0.07	3.31	973.15
540	0.0684	0.0609	3.24	3.37	0.07	3.30	970.26
550	0.0609	0.0562	3.23	3.35	0.07	3.28	963.70
560	0.0562	0.0533	3.21	3.32	0.07	3.25	954.89
570	0.0533	0.0516	3.18	3.29	0.07	3.22	944.70
580	0.0516	0.0506	3.15	3.25	0.07	3.18	933.67
590	0.0506	0.0500	3.11	3.21	0.07	3.14	922.16
600	0.0500	0.0497	3.07	3.17	0.07	3.10	910.38
610	0.0497	0.0495	3.03	3.13	0.07	3.06	898.48
620	0.0495	0.0495	2.99	3.09	0.07	3.02	886.53
630	0.0495	0.0496	2.96	3.05	0.07	2.98	874.58
640	0.0496	0.0480	2.92	3.01	0.07	2.94	862.17
650	0.0480	0.0453	2.87	2.97	0.07	2.90	848.49
660	0.0453	0.0437	2.83	2.92	0.07	2.85	833.54
670	0.0437	0.0427	2.78	2.86	0.07	2.80	817.80
680	0.0427	0.0421	2.73	2.81	0.07	2.74	801.59
690	0.0421	0.0418	2.67	2.76	0.07	2.69	785.11
700	0.0418	0.0416	2.62	2.70	0.07	2.63	768.48
710	0.0416	0.0416	2.56	2.64	0.07	2.58	751.77
720	0.0416	0.0415	2.58	2.66	0.00	2.66	797.53
730	0.0415	0.0416	2.59	2.67	0.07	2.60	759.97
740	0.0416	0.0416	2.53	2.62	0.07	2.55	743.27
750	0.0416	0.0417	2.55	2.63	0.00	2.63	789.09
760	0.0417	0.0401	2.56	2.64	0.07	2.57	751.14
770	0.0401	0.0376	2.57	2.65	0.00	2.65	795.29
780	0.0376	0.0360	2.58	2.66	0.07	2.59	754.86
790	0.0360	0.0350	2.52	2.59	0.07	2.52	734.49
800	0.0350	0.0344	2.52	2.59	0.00	2.59	776.14
810	0.0344	0.0340	2.52	2.59	0.07	2.52	734.17
820	0.0340	0.0338	2.52	2.58	0.00	2.58	775.36
830	0.0338	0.0337	2.58	2.65	0.00	2.65	795.62
840	0.0337	0.0337	2.58	2.65	0.07	2.58	753.34
850	0.0337	0.0337	2.58	2.65	0.00	2.65	794.36
860	0.0337	0.0337	2.58	2.65	0.07	2.58	752.06
870	0.0337	0.0337	2.58	2.64	0.00	2.64	793.09
880	0.0337	0.0329	2.57	2.64	0.07	2.57	750.58
890	0.0329	0.0317	2.57	2.64	0.00	2.64	790.82
900	0.0317	0.0310	2.57	2.63	0.07	2.56	747.13
910	0.0310	0.0305	2.56	2.62	0.00	2.62	786.41
920	0.0305	0.0302	2.55	2.61	0.07	2.54	742.14
930	0.0302	0.0301	2.54	2.60	0.00	2.60	781.06
940	0.0301	0.0300	2.53	2.59	0.07	2.52	736.58
950	0.0300	0.0299	2.52	2.58	0.00	2.58	775.39
960	0.0299	0.0299	2.58	2.64	0.00	2.64	793.36
970	0.0299	0.0299	2.58	2.63	0.07	2.57	748.81
980	0.0299	0.0299	2.57	2.63	0.00	2.63	787.61
990	0.0299	0.0300	2.56	2.62	0.07	2.55	743.09
1000	0.0300	0.0289	2.55	2.61	0.00	2.61	781.57
1010	0.0289	0.0271	2.54	2.59	0.07	2.52	735.87
1020	0.0271	0.0260	2.52	2.58	0.00	2.58	772.62
1030	0.0260	0.0253	2.58	2.63	0.00	2.63	787.99

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1040	0.0253	0.0248	2.56	2.61	0.07	2.54	740.53
1050	0.0248	0.0246	2.54	2.59	0.00	2.59	776.19
1060	0.0246	0.0244	2.52	2.57	0.07	2.50	728.39
1070	0.0244	0.0243	2.50	2.55	0.00	2.55	763.85
1080	0.0243	0.0243	2.55	2.59	0.00	2.59	778.43
1090	0.0243	0.0243	2.53	2.57	0.07	2.50	730.49
1100	0.0243	0.0242	2.50	2.55	0.00	2.55	765.87
1110	0.0242	0.0242	2.55	2.60	0.00	2.60	780.42
1120	0.0242	0.0243	2.53	2.58	0.07	2.51	732.47
1130	0.0243	0.0243	2.51	2.56	0.00	2.56	767.86
1140	0.0243	0.0243	2.56	2.61	0.00	2.61	782.42
1150	0.0243	0.0243	2.54	2.59	0.07	2.52	734.50
1160	0.0243	0.0243	2.52	2.57	0.00	2.57	769.91
1170	0.0243	0.0243	2.57	2.62	0.00	2.62	784.51
1180	0.0243	0.0243	2.55	2.59	0.07	2.52	736.61
1190	0.0243	0.0244	2.52	2.57	0.00	2.57	772.06
1200	0.0244	0.0244	2.57	2.62	0.00	2.62	786.69
1210	0.0244	0.0244	2.55	2.60	0.07	2.53	738.82
1220	0.0244	0.0244	2.53	2.58	0.00	2.58	774.31
1230	0.0244	0.0244	2.58	2.63	0.00	2.63	788.96
1240	0.0244	0.0245	2.56	2.61	0.07	2.54	741.13
1250	0.0245	0.0245	2.54	2.59	0.00	2.59	776.65
1260	0.0245	0.0245	2.52	2.57	0.07	2.50	728.84
1270	0.0245	0.0245	2.50	2.55	0.00	2.55	764.37
1280	0.0245	0.0245	2.55	2.60	0.00	2.60	779.08
1290	0.0245	0.0245	2.53	2.58	0.07	2.51	731.30
1300	0.0245	0.0246	2.51	2.56	0.00	2.56	766.87
1310	0.0246	0.0246	2.56	2.61	0.00	2.61	781.61
1320	0.0246	0.0246	2.54	2.59	0.07	2.52	733.86
1330	0.0246	0.0246	2.52	2.56	0.00	2.56	769.46
1340	0.0246	0.0246	2.56	2.61	0.00	2.61	784.23
1350	0.0246	0.0246	2.54	2.59	0.07	2.52	736.51
1360	0.0246	0.0247	2.52	2.57	0.00	2.57	772.13
1370	0.0247	0.0247	2.57	2.62	0.00	2.62	786.94
1380	0.0247	0.0247	2.55	2.60	0.07	2.53	739.25
1390	0.0247	0.0247	2.53	2.58	0.00	2.58	774.90
1400	0.0247	0.0247	2.58	2.63	0.00	2.63	789.73
1410	0.0247	0.0247	2.56	2.61	0.07	2.54	742.07
1420	0.0247	0.0248	2.54	2.59	0.00	2.59	777.75
1430	0.0248	0.0248	2.52	2.57	0.07	2.50	730.11
1440	0.0248	0.0000	2.50	2.53	0.00	2.53	758.38
1450	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1460	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1470	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1480	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1490	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1500	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1510	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1520	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1530	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1540	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1550	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1560	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1570	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1580	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1590	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1600	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1610	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1620	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1630	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1640	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1650	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1660	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1670	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1680	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1690	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1700	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1710	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1720	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1730	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1740	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1750	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1760	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1770	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1780	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1790	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1800	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1810	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1820	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1830	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1840	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1850	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1860	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1870	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1880	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1890	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1900	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1910	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1920	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1930	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1940	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1950	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1960	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1970	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1980	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
1990	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2000	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2010	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2020	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2030	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2040	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2050	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2060	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2070	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2080	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2090	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2100	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2110	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2120	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2130	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2140	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2150	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2160	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2170	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2180	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2190	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2200	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2210	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2220	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2230	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2240	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2250	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2260	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2270	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2280	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2290	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2300	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2310	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2320	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2330	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2340	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2350	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2360	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2370	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2380	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2390	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2400	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2410	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2420	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2430	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2440	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2450	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2460	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2470	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2480	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2490	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2500	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2510	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2520	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2530	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2540	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2550	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2560	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2570	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2580	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2590	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2600	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2610	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2620	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38



<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2630	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2640	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2650	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2660	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2670	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2680	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2690	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2700	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2710	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2720	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2730	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2740	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2750	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2760	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2770	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2780	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2790	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2800	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2810	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2820	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2830	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2840	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2850	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2860	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2870	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38
2880	0.0000	0.0000	2.53	2.53	0.00	2.53	758.38

Project: Fir Avenue  
 Project Number: 3269  
 Date: 4/10/18  
 Basin: RG 'B'  
 Event: 25-yr

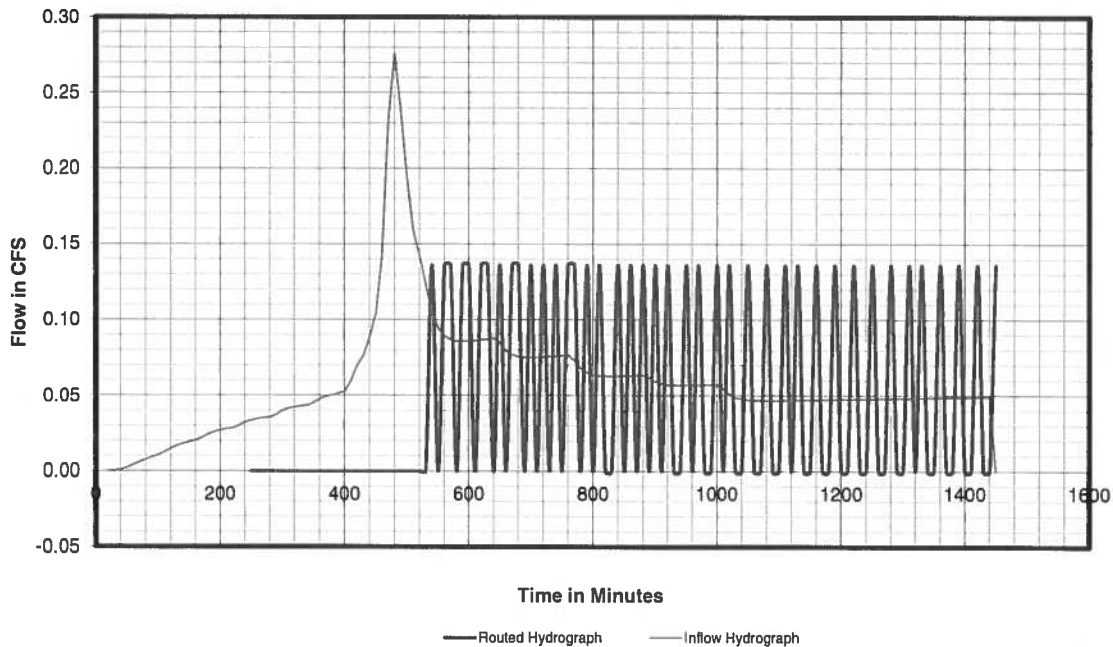
## INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>		<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	29716	29716 SF		<b>Pervious Area:</b>	Area = 0.0000 acres
Area =	0.68	0.68 acres	Area = 0.6822 acres	Area =	0.0000 acres
Pt =	3.9	3.9 inches	CN = 69	CN =	98
dt =	10	10 min	S = 4.49	S =	0.20
Tc =	17	11 min	0.2S = 0.90	0.2S =	0.04
w =	0.22727	0.2273 Rout. Con.			
<b>Hydrograph Results:</b>			<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>	
<b>Pre-Developed Peak Runoff:</b>	<b>0.123 cfs</b>		<b>Pervious Area:</b>	Area = 0.2382 acres	
Pre Developed Total Volume:	2934.9 CF		Area =	0.2382 acres	
			CN = 69	CN = 98	
			S = 4.49	S = 0.20	
<b>Post-Developed Peak Runoff:</b>	<b>0.276 cfs</b>		0.2S = 0.90	0.2S = 0.04	
Post Developed Total Volume:	5056.5 CF				

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	72.5 FT	Diameter	6 IN
Bottom Width	16.0 FT	Elevation	1 FT
Side Slope	4 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	1160 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	1 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	<b>MAX STORAGE =</b>	<b>1832.6 Cu Ft</b>
Soil Media porosity	25%	<b>MAX OUTLET =</b>	<b>0.136 cfs</b>
Gravel Layer porosity	40%	<b>MAX Infiltration =</b>	<b>0.136 cfs</b>
Infiltration Rate	5 in/hr	<b>MAX Bypass =</b>	<b>0.000 cfs</b>
Infl Safety Factor	2		

BioCell Inflow/Outflow Hydrograph





Project: Fir Avenue  
 Project Number: 3269  
 Date: 4/10/18  
 Basin: RG 'B'  
 Event: 100-yr

## INFLOW HYDROGRAPH

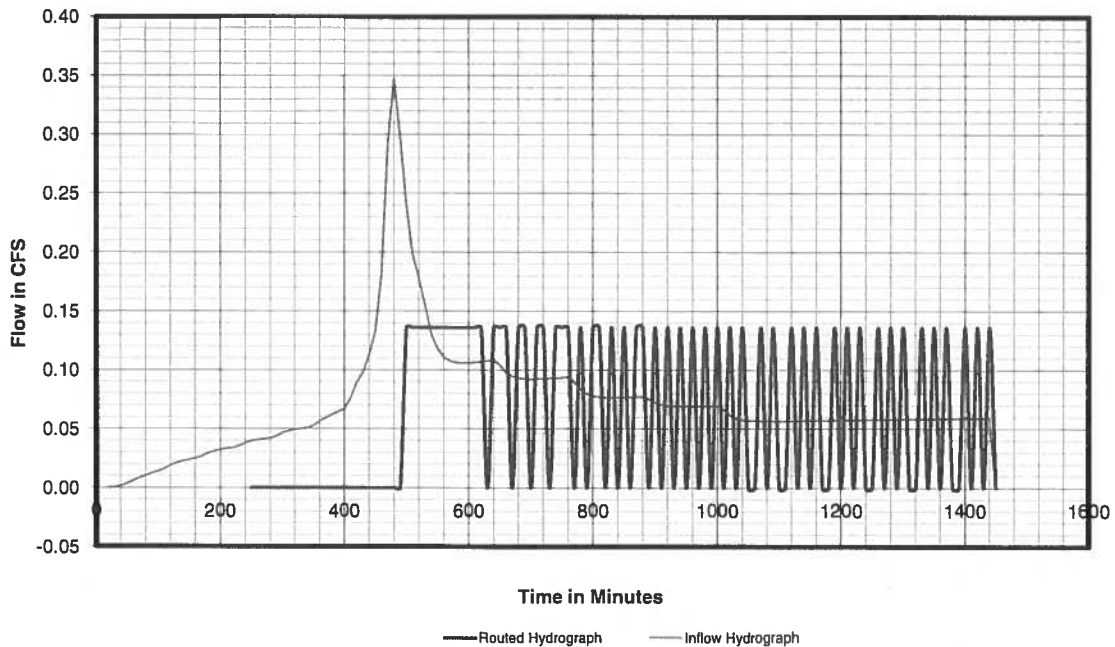
<b>Hydrograph Data:</b>	<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	29716	29716 SF	<b>Pervious Area:</b>	Area = 0.0000 acres
Area =	0.68	0.68 acres	Area = 0.6822 acres	Area = 0.0000 acres
Pt =	4.5	4.5 inches	CN = 69	CN = 98
dt =	10	10 min	S = 4.49	S = 0.20
Tc =	17	11 min	0.2S = 0.90	0.2S = 0.04
w =	0.22727	0.2273 Rout. Con.		

<b>Hydrograph Results:</b>	<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>
<b>Pre-Developed Peak Runoff: 0.185 cfs</b>	<b>Pervious Area:</b>	Area = 0.2382 acres
Pre Developed Total Volume: 3915.9 CF	Area = 0.4440 acres	Area = 0.2382 acres
	CN = 69	CN = 98
	S = 4.49	S = 0.20
<b>Post-Developed Peak Runoff: 0.347 cfs</b>	0.2S = 0.90	0.2S = 0.04
Post Developed Total Volume: 6209.1 CF		

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	72.5 FT	Diameter	6 IN
Bottom Width	16.0 FT	Elevation	1 FT
Side Slope	4 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	1160 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	1 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	MAX STORAGE =	1868.1 Cu Ft
Soil Media porosity	25%	MAX OUTLET =	0.136 cfs
Gravel Layer porosity	40%	MAX Infiltration =	0.136 cfs
Infiltration Rate	5 in/hr	MAX Bypass =	0.000 cfs
Inflti Safety Factor	2		

BioCell Inflow/Outflow Hydrograph





(1) Time Increment	(2) Time (Min)	(3) Rainfall Distribution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0008	0.0000	0.0	0.0
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0033	0.0000	0.0	0.0
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0054	0.0000	0.0	0.0
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0071	0.0000	0.0	0.0
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0084	0.0000	0.0	0.0
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0096	0.0000	0.0	0.0
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0105	0.0000	0.0	0.0
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0113	0.0000	0.0	0.0
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0150	0.0000	0.0	0.0
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0159	0.0000	0.0	0.0
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0166	0.0000	0.0	0.0
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0172	0.0000	0.0	0.0
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0178	0.0000	0.0	0.0
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0182	0.0000	0.0	0.0
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0223	0.0000	0.0	0.0
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0228	0.0000	0.0	0.0
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0232	0.0000	0.0	0.0
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0236	0.0000	0.0	0.0
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0239	0.0000	0.0	0.0
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0241	0.0000	0.0	0.0
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0284	0.0000	0.0	0.0
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0287	0.0000	0.0	0.0
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0290	0.0000	0.0	0.0
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0292	0.0000	0.0	0.0
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0294	0.0000	0.0	0.0
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0295	0.0000	0.0	0.0
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0348	0.0000	0.0	0.0
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0349	0.0000	0.0	0.0
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0351	0.0000	0.0	0.0
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0352	0.0000	0.0	0.0
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0353	0.0000	0.0	0.0
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0355	0.0000	0.0	0.0
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0412	0.0002	0.0	0.0
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0413	0.0010	0.0	0.0
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0414	0.0018	0.0	0.0
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0415	0.0025	0.0	0.0
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0416	0.0032	0.0	0.0
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0417	0.0040	0.0	0.0
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0589	0.0068	0.0	0.0
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0590	0.0081	0.0	0.0
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0591	0.0094	0.0	0.0
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0796	0.0145	0.1	0.0
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0797	0.0166	0.1	0.1
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.1509	0.0369	0.2	0.1
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.2403	0.0719	0.3	0.1
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.1204	0.0415	0.2	0.2
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0803	0.0296	0.1	0.2
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0598	0.0230	0.1	0.1
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0598	0.0237	0.1	0.1
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0599	0.0245	0.1	0.1
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0393	0.0165	0.1	0.1
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0393	0.0168	0.1	0.1
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0393	0.0171	0.1	0.1
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0393	0.0174	0.1	0.1
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0394	0.0177	0.1	0.1
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0394	0.0180	0.1	0.1
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0394	0.0182	0.1	0.1
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0394	0.0185	0.1	0.1
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0394	0.0188	0.1	0.1
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0394	0.0190	0.1	0.1
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0394	0.0193	0.1	0.1
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0394	0.0196	0.1	0.1
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0322	0.0162	0.1	0.1
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0322	0.0164	0.1	0.1
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0322	0.0165	0.1	0.1
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0323	0.0167	0.1	0.1
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0323	0.0168	0.1	0.1
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0323	0.0170	0.1	0.1

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0171	0.1	0.1
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0173	0.1	0.1
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0174	0.1	0.1
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0176	0.1	0.1
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0177	0.1	0.1
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0179	0.1	0.1
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0142	0.1	0.1
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0143	0.1	0.1
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0144	0.1	0.1
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0145	0.1	0.1
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0146	0.1	0.1
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0147	0.1	0.1
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0147	0.1	0.1
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0148	0.1	0.1
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0149	0.1	0.1
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0150	0.1	0.1
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0151	0.1	0.1
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0151	0.1	0.1
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0133	0.1	0.1
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0134	0.1	0.1
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0135	0.1	0.1
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0135	0.1	0.1
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0136	0.1	0.1
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0136	0.1	0.1
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0137	0.1	0.1
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0137	0.1	0.1
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0138	0.1	0.1
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0138	0.1	0.1
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0139	0.1	0.1
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0140	0.1	0.1
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0112	0.0	0.1
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0112	0.0	0.1
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0113	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0113	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0113	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0114	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0114	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0114	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0115	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0115	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0115	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0116	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0116	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0116	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0116	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0117	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0117	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0117	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0118	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0118	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0118	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0119	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0119	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0119	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0119	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0120	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0120	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0120	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0121	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0121	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0121	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0121	0.1	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0122	0.1	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0122	0.1	0.1
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0122	0.1	0.1
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0122	0.1	0.1
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0123	0.1	0.1
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0123	0.1	0.1
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0123	0.1	0.1
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0123	0.1	0.1
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0124	0.1	0.1
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0124	0.1	0.1

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0124	0.1	0.1
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0124	0.1	0.1

Total 1.0000 4.5000

Hydrograph Volume  
(Cubic Feet) 3916



(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0008	0.0003	0.0	0.0
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0012	0.0012	0.0	0.0
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0019	0.0019	0.0	0.0
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0025	0.0025	0.0	0.0
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0029	0.0029	0.0	0.0
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0033	0.0033	0.0	0.0
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0037	0.0037	0.0	0.0
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0039	0.0039	0.0	0.0
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0053	0.0053	0.0	0.0
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0056	0.0056	0.0	0.0
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0058	0.0058	0.0	0.0
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0060	0.0060	0.0	0.0
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0062	0.0062	0.0	0.0
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0064	0.0064	0.0	0.0
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0078	0.0078	0.0	0.0
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0080	0.0080	0.0	0.0
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0081	0.0081	0.0	0.0
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0082	0.0082	0.0	0.0
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0083	0.0083	0.0	0.0
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0084	0.0084	0.0	0.0
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0099	0.0099	0.0	0.0
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0100	0.0100	0.0	0.0
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0101	0.0101	0.0	0.0
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0102	0.0102	0.0	0.0
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0102	0.0102	0.0	0.0
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0103	0.0103	0.0	0.0
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0121	0.0121	0.1	0.0
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0122	0.0122	0.1	0.0
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0123	0.0123	0.1	0.0
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0123	0.0123	0.1	0.0
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0123	0.0123	0.1	0.1
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0124	0.0124	0.1	0.1
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0145	0.0145	0.1	0.1
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0151	0.0151	0.1	0.1
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0156	0.0156	0.1	0.1
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0161	0.0161	0.1	0.1
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0166	0.0166	0.1	0.1
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0171	0.0171	0.1	0.1
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0250	0.0250	0.1	0.1
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0259	0.0259	0.1	0.1
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0267	0.0267	0.1	0.1
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0372	0.0372	0.2	0.1
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0387	0.0387	0.2	0.1
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0767	0.0767	0.3	0.2
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1307	0.1307	0.5	0.3
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0690	0.0690	0.3	0.3
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0473	0.0473	0.2	0.3
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0358	0.0358	0.1	0.2
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0363	0.0363	0.2	0.2
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0368	0.0368	0.2	0.2
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0245	0.0245	0.1	0.2
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0247	0.0247	0.1	0.1
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0249	0.0249	0.1	0.1
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0251	0.0251	0.1	0.1
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0252	0.0252	0.1	0.1
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0254	0.0254	0.1	0.1
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0256	0.0256	0.1	0.1
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0258	0.0258	0.1	0.1
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0260	0.0260	0.1	0.1
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0262	0.0262	0.1	0.1
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0263	0.0263	0.1	0.1
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0265	0.0265	0.1	0.1
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0218	0.0218	0.1	0.1
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0219	0.0219	0.1	0.1
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0220	0.0220	0.1	0.1
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0221	0.0221	0.1	0.1
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0222	0.0222	0.1	0.1
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0223	0.0223	0.1	0.1

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instan- t Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0224	0.1	0.1
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0225	0.1	0.1
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0226	0.1	0.1
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0227	0.1	0.1
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0228	0.1	0.1
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0229	0.1	0.1
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0182	0.1	0.1
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0182	0.1	0.1
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0183	0.1	0.1
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0184	0.1	0.1
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0184	0.1	0.1
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0185	0.1	0.1
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0185	0.1	0.1
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0186	0.1	0.1
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0186	0.1	0.1
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0187	0.1	0.1
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0187	0.1	0.1
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0188	0.1	0.1
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0165	0.1	0.1
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0166	0.1	0.1
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0166	0.1	0.1
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0166	0.1	0.1
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0167	0.1	0.1
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0167	0.1	0.1
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0167	0.1	0.1
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0168	0.1	0.1
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0168	0.1	0.1
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0168	0.1	0.1
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0169	0.1	0.1
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0169	0.1	0.1
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0136	0.1	0.1
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0136	0.1	0.1
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0136	0.1	0.1
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0136	0.1	0.1
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0136	0.1	0.1
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0137	0.1	0.1
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0137	0.1	0.1
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0137	0.1	0.1
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0137	0.1	0.1
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0137	0.1	0.1
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0138	0.1	0.1
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0138	0.1	0.1
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0138	0.1	0.1
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0138	0.1	0.1
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0139	0.1	0.1
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0139	0.1	0.1
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0139	0.1	0.1
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0139	0.1	0.1
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0139	0.1	0.1
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0139	0.1	0.1
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0140	0.1	0.1
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0140	0.1	0.1
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0140	0.1	0.1
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0140	0.1	0.1
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0140	0.1	0.1
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0141	0.1	0.1
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0141	0.1	0.1
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0141	0.1	0.1
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0141	0.1	0.1
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0141	0.1	0.1
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0142	0.1	0.1
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0142	0.1	0.1
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0142	0.1	0.1
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0142	0.1	0.1
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0142	0.1	0.1
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0142	0.1	0.1
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0143	0.1	0.1
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0143	0.1	0.1
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0143	0.1	0.1
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0143	0.1	0.1
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0143	0.1	0.1
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0143	0.1	0.1

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accum- lated Rainfall (in)	(6) Accum- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0144	0.1	0.1
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0144	0.1	0.1
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet) 6209	

## BioCell Storage vs. Outflow

Height	Storage	Iop		Surface Area (sq ft)	Infiltration (out)	Overflow (out)	t = 600 sec			Total Out
		Length	Width				S/t	2S/t	O+2S/t	
									0	0
0	1739	72.5	16.0	1160	0.1360	0.0000	2.8983	5.7965	5.9325	0.1360
0.1	1859	73.3	16.8	1231	0.1360	0.0000	3.0975	6.1951	6.3311	0.1360
0.2	1985	74.1	17.6	1304	0.1360	0.0000	3.3088	6.6177	6.7537	0.1360
0.3	2119	74.9	18.4	1378	0.1360	0.0000	3.5324	7.0647	7.2007	0.1360
0.4	2261	75.7	19.2	1453	0.1360	0.0000	3.7683	7.5367	7.6727	0.1360
0.5	2410	76.5	20.0	1530	0.1360	0.0000	4.0170	8.0339	8.1699	0.1360
0.6	2567	77.3	20.8	1608	0.1360	0.0000	4.2784	8.5569	8.6929	0.1360
0.7	2732	78.1	21.6	1687	0.1360	0.0000	4.5530	9.1060	9.2420	0.1360
0.8	2905	78.9	22.4	1767	0.1360	0.0000	4.8409	9.6817	9.8177	0.1360
0.9	3085	79.7	23.2	1849	0.1360	0.0000	5.1422	10.2845	10.4205	0.1360
1	3274	80.5	24.0	1932	0.1360	0.0000	5.4573	10.9146	11.0506	0.1360
1.1	3472	81.3	24.8	2016	0.1360	0.1192	5.7863	11.5727	11.8279	0.2552
1.2	3678	82.1	25.6	2102	0.1360	0.3372	6.1295	12.2590	12.7322	0.4732
1.3	3892	82.9	26.4	2189	0.1360	0.6195	6.4870	12.9741	13.7295	0.7555
1.4	4115	83.7	27.2	2277	0.1360	0.9537	6.8591	13.7183	14.8080	1.0897
1.5	4348	84.5	28.0	2366	0.1360	1.3329	7.2460	14.4920	15.9609	1.4689
1.6	4589	85.3	28.8	2457	0.1360	1.7521	7.6479	15.2958	17.1839	1.8881
1.7	4839	86.1	29.6	2549	0.1360	2.2079	8.0650	16.1300	18.4739	2.3439
1.8	5099	86.9	30.4	2642	0.1360	2.6975	8.4975	16.9951	19.8286	2.8335
1.9	5367	87.7	31.2	2736	0.1360	3.2188	8.9457	17.8914	21.2462	3.3548
2	5646	88.5	32.0	2832	0.1360	3.7699	9.4097	18.8194	22.7253	3.9059
2.1	5934	89.3	32.8	2929	0.1360	4.3493	9.8898	19.7796	24.2649	4.4853
2.2	6232	90.1	33.6	3027	0.1360	4.9557	10.3862	20.7723	25.8640	5.0917
2.3	6539	90.9	34.4	3127	0.1360	5.5879	10.8990	21.7981	27.5219	5.7239
2.4	6857	91.7	35.2	3228	0.1360	6.2449	11.4286	22.8572	29.2381	6.3809
2.5	7185	92.5	36.0	3330	0.1360	6.9258	11.9751	23.9502	31.0119	7.0618
2.6	7523	93.3	36.8	3433	0.1360	7.6298	12.5387	25.0774	32.8432	7.7658
2.7	7872	94.1	37.6	3538	0.1360	8.3561	13.1197	26.2393	34.7315	8.4921
2.8	8231	94.9	38.4	3644	0.1360	9.1042	13.7182	27.4364	36.6766	9.2402
2.9	8601	95.7	39.2	3751	0.1360	9.8733	14.3345	28.6690	38.6783	10.0093
3	8981	96.5	40.0	3860	0.1360	10.6629	14.9688	29.9376	40.7365	10.7989
3.1	9373	97.3	40.8	3970	0.1360	11.4726	15.6213	31.2425	42.8511	11.6086
3.2	9775	98.1	41.6	4081	0.1360	12.3017	16.2922	32.5843	45.0221	12.4377
3.3	10189	98.9	42.4	4193	0.1360	13.1499	16.9817	33.9634	47.2493	13.2859
3.4	10614	99.7	43.2	4307	0.1360	14.0168	17.6901	35.3801	49.5329	14.1528
3.5	11050	100.5	44.0	4422	0.1360	14.9019	18.4175	36.8350	51.8729	15.0379
3.6	11499	101.3	44.8	4538	0.1360	15.8049	19.1642	38.3283	54.2693	15.9409
3.7	11958	102.1	45.6	4656	0.1360	16.7254	19.9303	39.8607	56.7221	16.8614
3.8	12430	102.9	46.4	4775	0.1360	17.6632	20.7162	41.4324	59.2316	17.7992
3.9	12913	103.7	47.2	4895	0.1360	18.6178	21.5220	43.0439	61.7978	18.7538
4	13409	104.5	48.0	5016	0.1360	19.5891	22.3479	44.6957	64.4208	19.7251
4.1	13916	105.3	48.8	5139	0.1360	20.5767	23.1941	46.3881	67.1008	20.7126
4.2	14437	106.1	49.6	5263	0.1360	21.5803	24.0608	48.1217	69.8380	21.7163
4.3	14969	106.9	50.4	5388	0.1360	22.5997	24.9484	49.8967	72.6324	22.7357
4.4	15514	107.7	51.2	5514	0.1360	23.6347	25.8569	51.7137	75.4844	23.7707
4.5	16072	108.5	52.0	5642	0.1360	24.6851	26.7866	53.5731	78.3942	24.8211
4.6	16643	109.3	52.8	5771	0.1360	25.7505	27.7376	55.4753	81.3618	25.8865
4.7	17226	110.1	53.6	5901	0.1360	26.8309	28.7103	57.4207	84.3875	26.9669
4.8	17823	110.9	54.4	6033	0.1360	27.9259	29.7049	59.4097	87.4716	28.0619

<i>t = 600 sec</i>										
<i>Height</i>	<i>Storage</i>	<i>Iop Length</i>	<i>Iop Width</i>	<i>Surface Area (sq ft)</i>	<i>Infiltration (out)</i>	<i>Overflow (out)</i>	<i>S/t</i>	<i>2S/t</i>	<i>O+2S/t</i>	<i>Total Out</i>
4.9	18433	111.7	55.2	6166	<b>0.1360</b>	<b>29.0355</b>	30.7214	61.4429	90.6143	29.1715
5	19056	112.5	56.0	6300	<b>0.1360</b>	<b>30.1594</b>	31.7603	63.5205	93.8159	30.2954
5.1	19693	113.3	56.8	6435	<b>0.1360</b>	<b>31.2974</b>	32.8215	65.6431	97.0764	31.4334
5.2	20343	114.1	57.6	6572	<b>0.1360</b>	<b>32.4494</b>	33.9055	67.8110	#####	32.5854
5.3	21007	114.9	58.4	6710	<b>0.1360</b>	<b>33.6151</b>	35.0124	70.0247	#####	33.7511
5.4	21685	115.7	59.2	6849	<b>0.1360</b>	<b>34.7945</b>	36.1423	72.2847	#####	34.9305
5.5	22377	116.5	60.0	6990	<b>0.1360</b>	<b>35.9874</b>	37.2956	74.5912	#####	36.1234
5.6	23083	117.3	60.8	7132	<b>0.1360</b>	<b>37.1937</b>	38.4724	76.9449	#####	37.3297
5.7	23804	118.1	61.6	7275	<b>0.1360</b>	<b>38.4131</b>	39.6730	79.3460	#####	38.5491
5.8	24539	118.9	62.4	7419	<b>0.1360</b>	<b>39.6455</b>	40.8975	81.7951	#####	39.7815
5.9	25288	119.7	63.2	7565	<b>0.1360</b>	<b>40.8909</b>	42.1462	84.2925	#####	41.0269
6	26052	120.5	64.0	7712	<b>0.1360</b>	<b>42.1490</b>	43.4193	86.8386	#####	42.2850

## BioCell Storage Routing

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
10	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00
20	0.0000	0.0003	0.00	0.00	0.00	0.00	0.08
30	0.0003	0.0015	0.00	0.00	0.00	0.00	0.61
40	0.0015	0.0037	0.00	0.01	0.00	0.01	2.16
50	0.0037	0.0061	0.01	0.02	0.00	0.02	5.10
60	0.0061	0.0084	0.02	0.03	0.00	0.03	9.45
70	0.0084	0.0105	0.03	0.05	0.00	0.05	15.13
80	0.0105	0.0123	0.05	0.07	0.00	0.07	21.96
90	0.0123	0.0138	0.07	0.10	0.00	0.10	29.80
100	0.0138	0.0162	0.10	0.13	0.00	0.13	38.80
110	0.0162	0.0190	0.13	0.16	0.00	0.16	49.34
120	0.0190	0.0210	0.16	0.20	0.00	0.20	61.32
130	0.0210	0.0225	0.20	0.25	0.00	0.25	74.38
140	0.0225	0.0238	0.25	0.29	0.00	0.29	88.27
150	0.0238	0.0247	0.29	0.34	0.00	0.34	102.82
160	0.0247	0.0268	0.34	0.39	0.00	0.39	118.27
170	0.0268	0.0294	0.39	0.45	0.00	0.45	135.12
180	0.0294	0.0311	0.45	0.51	0.00	0.51	153.27
190	0.0311	0.0323	0.51	0.57	0.00	0.57	172.29
200	0.0323	0.0332	0.57	0.64	0.00	0.64	191.93
210	0.0332	0.0338	0.64	0.71	0.00	0.71	212.02
220	0.0338	0.0357	0.71	0.78	0.00	0.78	232.86
230	0.0357	0.0382	0.78	0.85	0.00	0.85	255.01
240	0.0382	0.0397	0.85	0.93	0.00	0.93	278.38
250	0.0397	0.0407	0.93	1.01	0.00	1.01	302.51
260	0.0407	0.0414	1.01	1.09	0.00	1.09	327.13
270	0.0414	0.0418	1.09	1.17	0.00	1.17	352.09
280	0.0418	0.0439	1.17	1.26	0.00	1.26	377.81
290	0.0439	0.0468	1.26	1.35	0.00	1.35	405.00
300	0.0468	0.0484	1.35	1.45	0.00	1.45	433.56
310	0.0484	0.0495	1.45	1.54	0.00	1.54	462.93
320	0.0495	0.0501	1.54	1.64	0.00	1.64	492.79
330	0.0501	0.0505	1.64	1.74	0.00	1.74	522.97
340	0.0505	0.0528	1.74	1.85	0.00	1.85	553.97
350	0.0528	0.0566	1.85	1.96	0.00	1.96	586.77
360	0.0566	0.0596	1.96	2.07	0.00	2.07	621.63
370	0.0596	0.0623	2.07	2.19	0.00	2.19	658.21
380	0.0623	0.0647	2.19	2.32	0.00	2.32	696.32
390	0.0647	0.0670	2.32	2.45	0.00	2.45	735.83
400	0.0670	0.0760	2.45	2.60	0.00	2.60	778.73
410	0.0760	0.0892	2.60	2.76	0.00	2.76	828.29
420	0.0892	0.0980	2.76	2.95	0.00	2.95	884.43
430	0.0980	0.1135	2.95	3.16	0.00	3.16	947.86
440	0.1135	0.1331	3.16	3.41	0.00	3.41	1021.82
450	0.1331	0.1808	3.41	3.72	0.00	3.72	1115.97
460	0.1808	0.2931	3.72	4.19	0.00	4.19	1258.13
470	0.2931	0.3472	4.19	4.83	0.00	4.83	1450.23
480	0.3472	0.2985	4.83	5.48	0.00	5.48	1643.95
490	0.2985	0.2408	5.48	6.02	0.00	6.02	1805.75
500	0.2408	0.1990	5.88	6.32	0.14	6.19	1815.31

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
510	0.1990	0.1772	6.05	6.43	0.14	6.29	1846.59
520	0.1772	0.1542	6.16	6.49	0.14	6.35	1864.41
530	0.1542	0.1302	6.21	6.50	0.14	6.36	1868.12
540	0.1302	0.1175	6.23	6.47	0.14	6.34	1860.80
550	0.1175	0.1109	6.20	6.43	0.14	6.30	1847.71
560	0.1109	0.1077	6.16	6.38	0.14	6.24	1831.68
570	0.1077	0.1063	6.11	6.32	0.14	6.18	1814.27
580	0.1063	0.1059	6.05	6.26	0.14	6.12	1796.31
590	0.1059	0.1060	5.99	6.20	0.14	6.06	1778.26
600	0.1060	0.1064	5.93	6.14	0.14	6.00	1760.37
610	0.1064	0.1069	5.87	6.08	0.14	5.95	1742.76
620	0.1069	0.1075	5.81	6.02	0.14	5.89	1725.50
630	0.1075	0.1082	5.89	6.10	0.00	6.10	1831.02
640	0.1082	0.1043	5.97	6.18	0.14	6.04	1772.38
650	0.1043	0.0979	5.91	6.11	0.14	5.97	1751.44
660	0.0979	0.0946	5.84	6.03	0.14	5.89	1727.58
670	0.0946	0.0930	5.89	6.08	0.00	6.08	1824.65
680	0.0930	0.0923	5.95	6.13	0.14	6.00	1757.83
690	0.0923	0.0921	5.86	6.04	0.14	5.91	1731.56
700	0.0921	0.0922	5.91	6.09	0.00	6.09	1827.66
710	0.0922	0.0924	5.96	6.14	0.14	6.00	1760.66
720	0.0924	0.0928	5.87	6.05	0.14	5.92	1734.63
730	0.0928	0.0931	5.92	6.10	0.00	6.10	1831.19
740	0.0931	0.0935	5.97	6.15	0.14	6.02	1764.77
750	0.0935	0.0939	5.88	6.07	0.14	5.93	1739.37
760	0.0939	0.0897	5.80	5.98	0.14	5.85	1712.86
770	0.0897	0.0831	5.85	6.02	0.00	6.02	1805.51
780	0.0831	0.0796	5.88	6.05	0.14	5.91	1731.95
790	0.0796	0.0778	5.91	6.07	0.00	6.07	1819.98
800	0.0778	0.0769	5.93	6.09	0.14	5.95	1744.02
810	0.0769	0.0766	5.81	5.97	0.14	5.83	1708.48
820	0.0766	0.0765	5.83	5.98	0.00	5.98	1795.19
830	0.0765	0.0765	5.85	6.00	0.14	5.86	1718.68
840	0.0765	0.0766	5.86	6.02	0.00	6.02	1805.42
850	0.0766	0.0768	5.88	6.04	0.14	5.90	1729.05
860	0.0768	0.0770	5.90	6.05	0.00	6.05	1815.98
870	0.0770	0.0772	5.92	6.07	0.14	5.94	1739.83
880	0.0772	0.0752	5.80	5.95	0.14	5.82	1703.95
890	0.0752	0.0720	5.82	5.96	0.00	5.96	1788.93
900	0.0720	0.0704	5.83	5.97	0.14	5.83	1709.26
910	0.0704	0.0696	5.83	5.97	0.00	5.97	1792.04
920	0.0696	0.0692	5.84	5.98	0.14	5.84	1711.27
930	0.0692	0.0690	5.84	5.98	0.00	5.98	1793.53
940	0.0690	0.0690	5.84	5.98	0.14	5.84	1712.55
950	0.0690	0.0691	5.84	5.98	0.00	5.98	1794.78
960	0.0691	0.0692	5.85	5.98	0.14	5.85	1713.87
970	0.0692	0.0693	5.85	5.99	0.00	5.99	1796.22
980	0.0693	0.0694	5.85	5.99	0.14	5.85	1715.46
990	0.0694	0.0696	5.85	5.99	0.00	5.99	1797.97
1000	0.0696	0.0665	5.86	5.99	0.14	5.86	1716.41
1010	0.0665	0.0618	5.86	5.99	0.00	5.99	1795.70
1020	0.0618	0.0592	5.85	5.97	0.14	5.83	1709.58
1030	0.0592	0.0578	5.83	5.95	0.00	5.95	1785.48



<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
1040	0.0578	0.0571	5.82	5.93	0.14	5.79	1697.56
1050	0.0571	0.0568	5.79	5.91	0.00	5.91	1772.53
1060	0.0568	0.0566	5.91	6.02	0.00	6.02	1806.55
1070	0.0566	0.0566	5.89	6.00	0.14	5.86	1718.12
1080	0.0566	0.0566	5.86	5.98	0.00	5.98	1792.87
1090	0.0566	0.0566	5.84	5.95	0.14	5.82	1704.45
1100	0.0566	0.0567	5.82	5.93	0.00	5.93	1779.26
1110	0.0567	0.0568	5.93	6.04	0.00	6.04	1813.31
1120	0.0568	0.0569	5.91	6.02	0.14	5.89	1725.01
1130	0.0569	0.0569	5.89	6.00	0.00	6.00	1799.95
1140	0.0569	0.0570	5.86	5.98	0.14	5.84	1711.75
1150	0.0570	0.0571	5.84	5.96	0.00	5.96	1786.79
1160	0.0571	0.0572	5.82	5.93	0.14	5.80	1698.68
1170	0.0572	0.0573	5.80	5.91	0.00	5.91	1773.82
1180	0.0573	0.0574	5.91	6.03	0.00	6.03	1808.20
1190	0.0574	0.0574	5.89	6.01	0.14	5.87	1720.24
1200	0.0574	0.0575	5.87	5.99	0.00	5.99	1795.52
1210	0.0575	0.0576	5.85	5.96	0.14	5.83	1707.66
1220	0.0576	0.0577	5.83	5.94	0.00	5.94	1783.03
1230	0.0577	0.0577	5.81	5.92	0.14	5.79	1695.26
1240	0.0577	0.0578	5.79	5.90	0.00	5.90	1770.73
1250	0.0578	0.0579	5.90	6.02	0.00	6.02	1805.45
1260	0.0579	0.0580	5.88	6.00	0.14	5.86	1717.82
1270	0.0580	0.0581	5.86	5.98	0.00	5.98	1793.42
1280	0.0581	0.0581	5.84	5.96	0.14	5.82	1705.88
1290	0.0581	0.0582	5.82	5.94	0.00	5.94	1781.58
1300	0.0582	0.0583	5.80	5.92	0.14	5.78	1694.13
1310	0.0583	0.0584	5.78	5.90	0.00	5.90	1769.91
1320	0.0584	0.0584	5.90	6.02	0.00	6.02	1804.95
1330	0.0584	0.0585	5.88	6.00	0.14	5.86	1717.63
1340	0.0585	0.0586	5.86	5.98	0.00	5.98	1793.54
1350	0.0586	0.0586	5.84	5.96	0.14	5.82	1706.31
1360	0.0586	0.0587	5.82	5.94	0.00	5.94	1782.31
1370	0.0587	0.0588	5.81	5.92	0.14	5.79	1695.17
1380	0.0588	0.0589	5.79	5.90	0.00	5.90	1771.25
1390	0.0589	0.0589	5.90	6.02	0.00	6.02	1806.59
1400	0.0589	0.0590	5.89	6.00	0.14	5.87	1719.56
1410	0.0590	0.0591	5.87	5.99	0.00	5.99	1795.78
1420	0.0591	0.0591	5.85	5.97	0.14	5.83	1708.84
1430	0.0591	0.0592	5.83	5.95	0.00	5.95	1785.13
1440	0.0592	0.0000	5.81	5.87	0.14	5.74	1680.50
1450	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1460	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1470	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1480	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1490	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1500	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1510	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1520	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1530	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1540	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1550	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1560	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30



<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1570	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1580	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1590	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1600	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1610	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1620	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1630	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1640	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1650	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1660	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1670	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1680	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1690	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1700	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1710	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1720	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1730	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1740	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1750	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1760	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1770	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1780	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1790	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1800	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1810	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1820	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1830	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1840	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1850	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1860	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1870	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1880	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1890	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1900	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1910	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1920	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1930	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1940	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1950	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1960	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1970	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1980	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
1990	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2000	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2010	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2020	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2030	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2040	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2050	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2060	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2070	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2080	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2090	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30

<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
2100	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2110	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2120	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2130	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2140	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2150	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2160	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2170	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2180	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2190	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2200	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2210	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2220	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2230	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2240	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2250	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2260	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2270	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2280	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2290	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2300	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2310	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2320	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2330	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2340	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2350	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2360	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2370	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2380	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2390	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2400	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2410	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2420	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2430	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2440	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2450	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2460	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2470	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2480	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2490	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2500	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2510	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2520	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2530	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2540	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2550	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2560	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2570	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2580	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2590	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2600	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2610	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2620	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2630	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2640	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2650	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2660	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2670	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2680	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2690	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2700	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2710	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2720	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2730	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2740	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2750	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2760	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2770	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2780	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2790	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2800	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2810	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2820	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2830	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2840	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2850	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2860	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2870	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30
2880	0.0000	0.0000	5.74	5.74	0.00	5.74	1721.30

Project: Fir Avenue  
 Project Number: 3269  
 Date: 4/10/18  
 Basin: SWL 1  
 Event: 25-yr

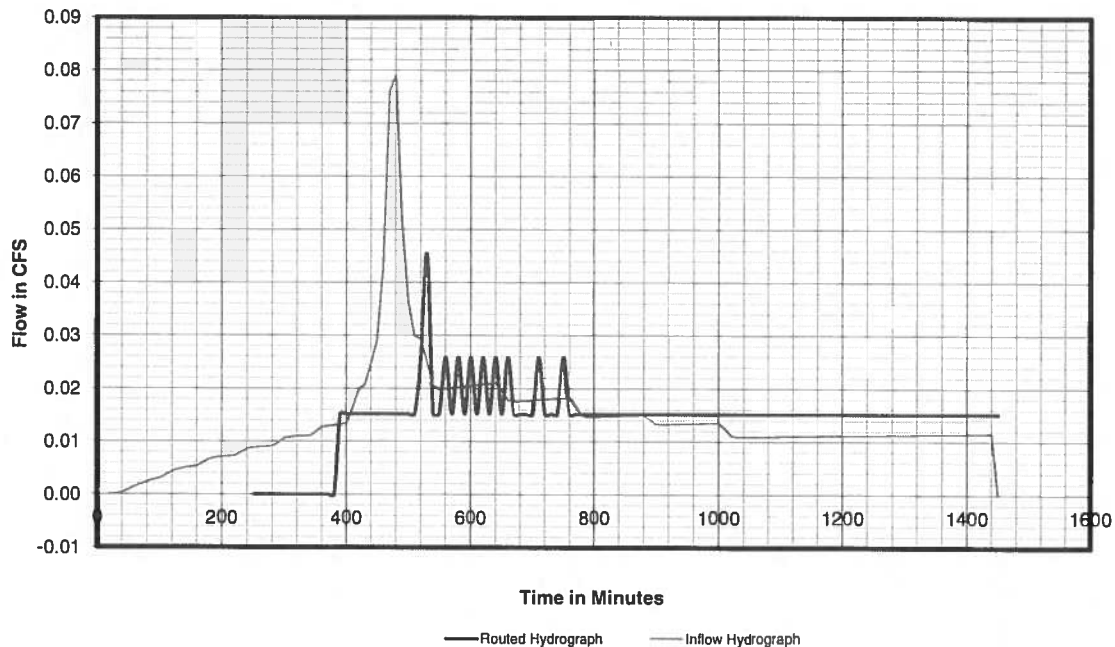
## INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>		<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	6871	6871 SF	<b>Pervious Area:</b>	Area =	0.0484 acres
Area =	0.16	0.16 acres	Area =	0.1093 acres	Area =
Pt =	3.9	3.9 inches	CN =	69	CN =
dt =	10	10 min	S =	4.49	S =
Tc =	7	5 min	0.2S =	0.90	0.2S =
w =	0.41667	0.4167 Rout. Con.			0.04
<b>Hydrograph Results:</b>			<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>	
<b>Pre-Developed Peak Runoff:</b>	<b>0.071 cfs</b>		<b>Pervious Area:</b>	Area =	0.0603 acres
Pre Developed Total Volume:	1116.4 CF		Area =	0.0974 acres	Area =
			CN =	69	CN =
			S =	4.49	S =
<b>Post-Developed Peak Runoff:</b>	<b>0.079 cfs</b>		0.2S =	0.90	0.2S =
Post Developed Total Volume:	1222.6 CF				0.04

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	21.0 FT	Diameter	6 IN
Bottom Width	7.0 FT	Elevation	1 FT
Side Slope	0.05 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	147 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	1 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	<b>MAX STORAGE =</b>	<b>308.6 Cu Ft</b>
Soil Media porosity	25%	<b>MAX OUTLET =</b>	<b>0.045 cfs</b>
Gravel Layer porosity	40%	<b>MAX Infiltration =</b>	<b>0.015 cfs</b>
Infiltration Rate	5 in/hr	<b>MAX Bypass =</b>	<b>0.030 cfs</b>
Infl Safety Factor	2		

BioCell Inflow/Outflow Hydrograph





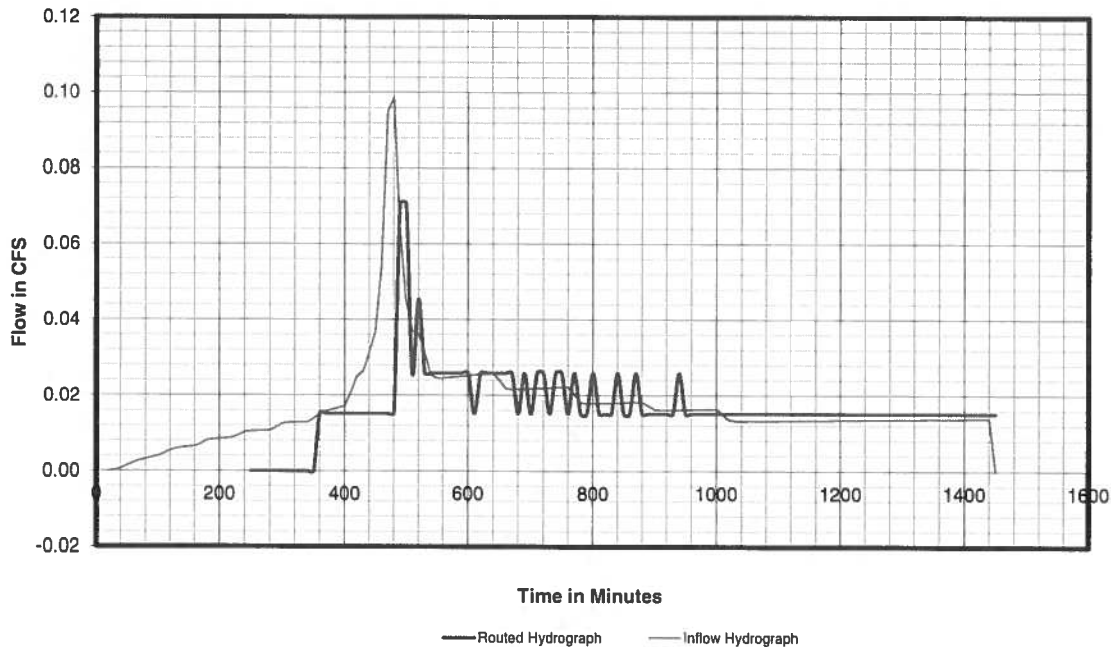
## INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>	<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	6871	6871 SF	<b>Pervious Area:</b>	Area = 0.0484 acres
Area =	0.16	0.16 acres	Area = 0.1093 acres	Area = 0.0484 acres
Pt =	4.5	4.5 inches	CN = 69	CN = 98
dt =	10	10 min	S = 4.49	S = 0.20
Tc =	7	5 min	0.2S = 0.90	0.2S = 0.04
w =	0.41667	0.4167 Rout. Con.		
			<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>
<b>Hydrograph Results:</b>			<b>Pervious Area:</b>	Area = 0.0603 acres
Pre-Developed Peak Runoff:	0.090 cfs		Area = 0.0974 acres	Area = 0.0603 acres
Pre Developed Total Volume:	1379.5 CF		CN = 69	CN = 98
			S = 4.49	S = 0.20
Post-Developed Peak Runoff:	0.099 cfs		0.2S = 0.90	0.2S = 0.04
Post Developed Total Volume:	1494.3 CF			

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	21.0 FT	Diameter	6 IN
Bottom Width	7.0 FT	Elevation	1 FT
Side Slope	0.05 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	147 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	1 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	MAX STORAGE =	330.4 Cu Ft
Soil Media porosity	25%	MAX OUTLET =	0.071 cfs
Gravel Layer porosity	40%	MAX Infiltration =	0.015 cfs
Infiltration Rate	5 in/hr	MAX Bypass =	0.055 cfs
Infli Safety Factor	2		

BioCell Inflow/Outflow Hydrograph





(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0002	0.0	0.0	
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0010	0.0	0.0	
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0017	0.0	0.0	
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0022	0.0	0.0	
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0026	0.0	0.0	
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0029	0.0	0.0	
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0032	0.0	0.0	
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0035	0.0	0.0	
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0046	0.0	0.0	
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0049	0.0	0.0	
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0051	0.0	0.0	
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0053	0.0	0.0	
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0054	0.0	0.0	
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0056	0.0	0.0	
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0069	0.0	0.0	
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0070	0.0	0.0	
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0071	0.0	0.0	
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0072	0.0	0.0	
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0073	0.0	0.0	
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0074	0.0	0.0	
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0087	0.0	0.0	
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0088	0.0	0.0	
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0089	0.0	0.0	
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0090	0.0	0.0	
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0090	0.0	0.0	
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0091	0.0	0.0	
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0107	0.0	0.0	
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0107	0.0	0.0	
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0108	0.0	0.0	
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0108	0.0	0.0	
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0108	0.0	0.0	
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0109	0.0	0.0	
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0128	0.0	0.0	
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0134	0.0	0.0	
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0139	0.0	0.0	
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0145	0.0	0.0	
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0150	0.0	0.0	
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0155	0.0	0.0	
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0228	0.0	0.0	
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0237	0.0	0.0	
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0246	0.0	0.0	
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0345	0.0	0.0	
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0360	0.0	0.0	
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0718	0.1	0.0	
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1236	0.1	0.1	
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0657	0.1	0.1	
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0451	0.0	0.1	
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0343	0.0	0.0	
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0348	0.0	0.0	
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0353	0.0	0.0	
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0235	0.0	0.0	
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0237	0.0	0.0	
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0239	0.0	0.0	
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0241	0.0	0.0	
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0243	0.0	0.0	
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0245	0.0	0.0	
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0247	0.0	0.0	
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0249	0.0	0.0	
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0251	0.0	0.0	
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0253	0.0	0.0	
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0255	0.0	0.0	
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0256	0.0	0.0	
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0211	0.0	0.0	
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0212	0.0	0.0	
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0213	0.0	0.0	
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0215	0.0	0.0	
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0216	0.0	0.0	
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0217	0.0	0.0	



(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff  (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0218	0.0	0.0
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0219	0.0	0.0
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0220	0.0	0.0
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0221	0.0	0.0
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0222	0.0	0.0
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0223	0.0	0.0
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0177	0.0	0.0
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0178	0.0	0.0
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0178	0.0	0.0
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0179	0.0	0.0
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0180	0.0	0.0
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0180	0.0	0.0
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0181	0.0	0.0
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0181	0.0	0.0
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0182	0.0	0.0
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0182	0.0	0.0
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0183	0.0	0.0
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0183	0.0	0.0
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0161	0.0	0.0
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0162	0.0	0.0
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0162	0.0	0.0
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0163	0.0	0.0
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0163	0.0	0.0
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0163	0.0	0.0
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0164	0.0	0.0
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0164	0.0	0.0
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0164	0.0	0.0
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0165	0.0	0.0
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0165	0.0	0.0
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0166	0.0	0.0
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0133	0.0	0.0
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0133	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0133	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0133	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0134	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0134	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0134	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0134	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0135	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0135	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0135	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0135	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0135	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0136	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0136	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0136	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0136	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0136	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0137	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0137	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0137	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0137	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0137	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0138	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0138	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0138	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0138	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0138	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0139	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0139	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0139	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0139	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0139	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0140	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0140	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0140	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0140	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0140	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0140	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0141	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0141	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0141	0.0	0.0

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0141	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0141	0.0	0.0
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet) 1379	

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0008	0.0003	0.0	0.0
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0013	0.0013	0.0	0.0
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0021	0.0021	0.0	0.0
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0027	0.0027	0.0	0.0
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0032	0.0032	0.0	0.0
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0037	0.0037	0.0	0.0
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0040	0.0040	0.0	0.0
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0043	0.0043	0.0	0.0
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0057	0.0057	0.0	0.0
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0061	0.0061	0.0	0.0
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0064	0.0064	0.0	0.0
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0066	0.0066	0.0	0.0
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0068	0.0068	0.0	0.0
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0070	0.0070	0.0	0.0
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0085	0.0085	0.0	0.0
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0087	0.0087	0.0	0.0
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0089	0.0089	0.0	0.0
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0090	0.0090	0.0	0.0
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0091	0.0091	0.0	0.0
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0092	0.0092	0.0	0.0
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0109	0.0109	0.0	0.0
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0110	0.0110	0.0	0.0
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0111	0.0111	0.0	0.0
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0112	0.0112	0.0	0.0
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0112	0.0112	0.0	0.0
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0113	0.0113	0.0	0.0
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0133	0.0133	0.0	0.0
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0134	0.0134	0.0	0.0
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0134	0.0134	0.0	0.0
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0135	0.0135	0.0	0.0
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0135	0.0135	0.0	0.0
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0136	0.0136	0.0	0.0
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0159	0.0159	0.0	0.0
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0164	0.0164	0.0	0.0
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0169	0.0169	0.0	0.0
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0174	0.0174	0.0	0.0
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0179	0.0179	0.0	0.0
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0184	0.0184	0.0	0.0
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0267	0.0267	0.0	0.0
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0276	0.0276	0.0	0.0
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0284	0.0284	0.0	0.0
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0394	0.0394	0.0	0.0
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0407	0.0407	0.0	0.0
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0804	0.0804	0.1	0.1
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1363	0.1363	0.1	0.1
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0717	0.0717	0.1	0.1
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0490	0.0490	0.0	0.1
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0371	0.0371	0.0	0.0
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0375	0.0375	0.0	0.0
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0380	0.0380	0.0	0.0
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0252	0.0252	0.0	0.0
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0254	0.0254	0.0	0.0
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0256	0.0256	0.0	0.0
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0258	0.0258	0.0	0.0
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0260	0.0260	0.0	0.0
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0261	0.0261	0.0	0.0
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0263	0.0263	0.0	0.0
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0265	0.0265	0.0	0.0
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0267	0.0267	0.0	0.0
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0268	0.0268	0.0	0.0
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0270	0.0270	0.0	0.0
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0271	0.0271	0.0	0.0
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0223	0.0223	0.0	0.0
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0224	0.0224	0.0	0.0
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0225	0.0225	0.0	0.0
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0226	0.0226	0.0	0.0
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0227	0.0227	0.0	0.0
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0228	0.0228	0.0	0.0

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution  (% of Pt)	(4) Incre- mental Rainfall  (in)	(5) Accumu- lated Rainfall  (in)	(6) Accumu- lated Runoff  (in)	(7) Incre- mental Runoff  (in)	(8) Accumu- lated Runoff  (in)	(9) Incre- mental Runoff  (in)	(10) Total Runoff  (in)	(11) Instant Hydro- graph  (cfs)	(12) Design Hydro- graph  (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0229	0.0	0.0
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0230	0.0	0.0
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0231	0.0	0.0
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0232	0.0	0.0
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0233	0.0	0.0
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0234	0.0	0.0
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0186	0.0	0.0
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0186	0.0	0.0
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0187	0.0	0.0
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0187	0.0	0.0
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0188	0.0	0.0
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0188	0.0	0.0
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0189	0.0	0.0
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0189	0.0	0.0
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0190	0.0	0.0
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0190	0.0	0.0
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0191	0.0	0.0
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0191	0.0	0.0
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0168	0.0	0.0
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0169	0.0	0.0
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0169	0.0	0.0
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0169	0.0	0.0
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0170	0.0	0.0
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0170	0.0	0.0
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0170	0.0	0.0
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0171	0.0	0.0
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0171	0.0	0.0
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0171	0.0	0.0
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0172	0.0	0.0
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0172	0.0	0.0
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0138	0.0	0.0
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0138	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0138	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0138	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0139	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0139	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0139	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0139	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0139	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0140	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0140	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0140	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0140	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0140	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0141	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0141	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0141	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0141	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0141	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0142	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0142	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0142	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0142	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0142	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0142	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0143	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0143	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0143	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0143	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0143	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0143	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0144	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0144	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0144	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0144	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0144	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0144	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0145	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0145	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0145	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0145	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0145	0.0	0.0

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff  (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0145	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0146	0.0	0.0
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet)	1494

## BioCell Storage vs. Outflow

							t = 600 sec			
Height	Storage	Top Length	Top Width	Surface Area (sq ft)	Infiltration (out)	Overflow (out)	S/t	2S/t	O+2S/t	Total Out
									0	0
0.000	146	21.0	7.0	147	0.0152	0.0000	0.2426	0.4851	0.5003	0.0152
0.020	148	21.0	7.0	147	0.0152	0.0000	0.2475	0.4949	0.5101	0.0152
0.040	151	21.0	7.0	147	0.0152	0.0000	0.2524	0.5047	0.5199	0.0152
0.060	154	21.0	7.0	147	0.0152	0.0000	0.2573	0.5145	0.5297	0.0152
0.080	157	21.0	7.0	147	0.0152	0.0000	0.2622	0.5244	0.5396	0.0152
0.100	160	21.0	7.0	147	0.0152	0.0000	0.2671	0.5342	0.5494	0.0152
0.120	163	21.0	7.0	147	0.0152	0.0000	0.2720	0.5440	0.5592	0.0152
0.140	166	21.0	7.0	147	0.0152	0.0000	0.2769	0.5538	0.5690	0.0152
0.160	169	21.0	7.0	147	0.0152	0.0000	0.2818	0.5636	0.5788	0.0152
0.180	172	21.0	7.0	148	0.0152	0.0000	0.2867	0.5735	0.5887	0.0152
0.200	175	21.0	7.0	148	0.0152	0.0000	0.2917	0.5833	0.5985	0.0152
0.220	178	21.0	7.0	148	0.0152	0.0000	0.2966	0.5932	0.6083	0.0152
0.240	181	21.0	7.0	148	0.0152	0.0000	0.3015	0.6030	0.6182	0.0152
0.260	184	21.0	7.0	148	0.0152	0.0000	0.3064	0.6128	0.6280	0.0152
0.280	187	21.0	7.0	148	0.0152	0.0000	0.3113	0.6227	0.6379	0.0152
0.300	190	21.0	7.0	148	0.0152	0.0000	0.3163	0.6325	0.6477	0.0152
0.320	193	21.0	7.0	148	0.0152	0.0000	0.3212	0.6424	0.6576	0.0152
0.340	196	21.0	7.0	148	0.0152	0.0000	0.3261	0.6523	0.6675	0.0152
0.360	199	21.0	7.0	148	0.0152	0.0000	0.3311	0.6621	0.6773	0.0152
0.380	202	21.0	7.0	148	0.0152	0.0000	0.3360	0.6720	0.6872	0.0152
0.400	205	21.0	7.0	148	0.0152	0.0000	0.3409	0.6819	0.6971	0.0152
0.420	208	21.0	7.0	148	0.0152	0.0000	0.3459	0.6918	0.7069	0.0152
0.440	210	21.0	7.0	148	0.0152	0.0000	0.3508	0.7016	0.7168	0.0152
0.460	213	21.0	7.0	148	0.0152	0.0000	0.3558	0.7115	0.7267	0.0152
0.480	216	21.0	7.0	148	0.0152	0.0000	0.3607	0.7214	0.7366	0.0152
0.500	219	21.1	7.1	148	0.0152	0.0000	0.3656	0.7313	0.7465	0.0152
0.520	222	21.1	7.1	148	0.0152	0.0000	0.3706	0.7412	0.7564	0.0152
0.540	225	21.1	7.1	149	0.0152	0.0000	0.3755	0.7511	0.7663	0.0152
0.560	228	21.1	7.1	149	0.0152	0.0000	0.3805	0.7610	0.7762	0.0152
0.580	231	21.1	7.1	149	0.0152	0.0000	0.3854	0.7709	0.7861	0.0152
0.600	234	21.1	7.1	149	0.0152	0.0000	0.3904	0.7808	0.7960	0.0152
0.620	237	21.1	7.1	149	0.0152	0.0000	0.3954	0.7907	0.8059	0.0152
0.640	240	21.1	7.1	149	0.0152	0.0000	0.4003	0.8006	0.8158	0.0152
0.660	243	21.1	7.1	149	0.0152	0.0000	0.4053	0.8106	0.8258	0.0152
0.680	246	21.1	7.1	149	0.0152	0.0000	0.4102	0.8205	0.8357	0.0152
0.700	249	21.1	7.1	149	0.0152	0.0000	0.4152	0.8304	0.8456	0.0152
0.720	252	21.1	7.1	149	0.0152	0.0000	0.4202	0.8403	0.8555	0.0152
0.740	255	21.1	7.1	149	0.0152	0.0000	0.4251	0.8503	0.8655	0.0152
0.760	258	21.1	7.1	149	0.0152	0.0000	0.4301	0.8602	0.8754	0.0152
0.780	261	21.1	7.1	149	0.0152	0.0000	0.4351	0.8702	0.8854	0.0152
0.800	264	21.1	7.1	149	0.0152	0.0000	0.4401	0.8801	0.8953	0.0152
0.820	267	21.1	7.1	149	0.0152	0.0000	0.4450	0.8901	0.9053	0.0152
0.840	270	21.1	7.1	149	0.0152	0.0000	0.4500	0.9000	0.9152	0.0152
0.860	273	21.1	7.1	149	0.0152	0.0000	0.4550	0.9100	0.9252	0.0152
0.880	276	21.1	7.1	149	0.0152	0.0000	0.4600	0.9199	0.9351	0.0152
0.900	279	21.1	7.1	150	0.0152	0.0000	0.4650	0.9299	0.9451	0.0152
0.920	282	21.1	7.1	150	0.0152	0.0000	0.4699	0.9399	0.9551	0.0152
0.940	285	21.1	7.1	150	0.0152	0.0000	0.4749	0.9499	0.9651	0.0152
0.960	288	21.1	7.1	150	0.0152	0.0000	0.4799	0.9598	0.9750	0.0152



<i>t = 600 sec</i>										
<i>Height</i>	<i>Storage</i>	<i>lop Length</i>	<i>lop Width</i>	<i>Surface Area (sq ft)</i>	<i>Infiltration (out)</i>	<i>Overflow (out)</i>	<i>S/t</i>	<i>2S/t</i>	<i>O+2S/t</i>	<i>Total Out</i>
0.980	291	21.1	7.1	150	0.0152	0.0000	0.4849	0.9698	0.9850	0.0152
1.000	294	21.1	7.1	150	0.0152	0.0000	0.4899	0.9798	0.9950	0.0152
1.020	297	21.1	7.1	150	0.0152	0.0107	0.4949	0.9898	1.0157	0.0259
1.040	300	21.1	7.1	150	0.0152	0.0302	0.4999	0.9998	1.0451	0.0454
1.060	303	21.1	7.1	150	0.0152	0.0554	0.5049	1.0098	1.0804	0.0706
1.080	306	21.1	7.1	150	0.0152	0.0853	0.5099	1.0198	1.1203	0.1005
1.100	309	21.1	7.1	150	0.0152	0.1192	0.5149	1.0298	1.1642	0.1344
1.120	312	21.1	7.1	150	0.0152	0.1567	0.5199	1.0398	1.2117	0.1719
1.140	315	21.1	7.1	150	0.0152	0.1975	0.5249	1.0498	1.2625	0.2127
1.160	318	21.1	7.1	150	0.0152	0.2413	0.5299	1.0598	1.3163	0.2565
1.180	321	21.1	7.1	150	0.0152	0.2879	0.5349	1.0698	1.3729	0.3031
1.200	324	21.1	7.1	150	0.0152	0.3372	0.5399	1.0799	1.4323	0.3524

## BioCell Storage Routing

<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
10	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00
20	0.0000	0.0001	0.00	0.00	0.00	0.00	0.04
30	0.0001	0.0006	0.00	0.00	0.00	0.00	0.27
40	0.0006	0.0014	0.00	0.00	0.00	0.00	0.89
50	0.0014	0.0021	0.00	0.01	0.00	0.01	1.97
60	0.0021	0.0027	0.01	0.01	0.00	0.01	3.42
70	0.0027	0.0032	0.01	0.02	0.00	0.02	5.20
80	0.0032	0.0036	0.02	0.02	0.00	0.02	7.23
90	0.0036	0.0039	0.02	0.03	0.00	0.03	9.48
100	0.0039	0.0047	0.03	0.04	0.00	0.04	12.04
110	0.0047	0.0055	0.04	0.05	0.00	0.05	15.08
120	0.0055	0.0059	0.05	0.06	0.00	0.06	18.48
130	0.0059	0.0061	0.06	0.07	0.00	0.07	22.08
140	0.0061	0.0063	0.07	0.09	0.00	0.09	25.82
150	0.0063	0.0065	0.09	0.10	0.00	0.10	29.68
160	0.0065	0.0073	0.10	0.11	0.00	0.11	33.81
170	0.0073	0.0081	0.11	0.13	0.00	0.13	38.40
180	0.0081	0.0083	0.13	0.14	0.00	0.14	43.33
190	0.0083	0.0085	0.14	0.16	0.00	0.16	48.38
200	0.0085	0.0086	0.16	0.18	0.00	0.18	53.52
210	0.0086	0.0087	0.18	0.20	0.00	0.20	58.73
220	0.0087	0.0094	0.20	0.21	0.00	0.21	64.19
230	0.0094	0.0103	0.21	0.23	0.00	0.23	70.10
240	0.0103	0.0105	0.23	0.25	0.00	0.25	76.33
250	0.0105	0.0106	0.25	0.28	0.00	0.28	82.64
260	0.0106	0.0107	0.28	0.30	0.00	0.30	89.02
270	0.0107	0.0107	0.30	0.32	0.00	0.32	95.43
280	0.0107	0.0116	0.32	0.34	0.00	0.34	102.12
290	0.0116	0.0125	0.34	0.36	0.00	0.36	109.34
300	0.0125	0.0127	0.36	0.39	0.00	0.39	116.92
310	0.0127	0.0128	0.39	0.42	0.00	0.42	124.58
320	0.0128	0.0129	0.42	0.44	0.00	0.44	132.28
330	0.0129	0.0129	0.44	0.47	0.00	0.47	140.01
340	0.0129	0.0139	0.47	0.49	0.00	0.49	148.04
350	0.0139	0.0151	0.49	0.52	0.00	0.52	156.74
360	0.0151	0.0158	0.51	0.54	0.02	0.52	152.34
370	0.0158	0.0163	0.51	0.54	0.02	0.52	152.85
380	0.0163	0.0168	0.51	0.54	0.02	0.53	153.64
390	0.0168	0.0172	0.51	0.55	0.02	0.53	154.72
400	0.0172	0.0208	0.52	0.55	0.02	0.54	157.01
410	0.0208	0.0250	0.52	0.57	0.02	0.55	161.64
420	0.0250	0.0264	0.54	0.59	0.02	0.58	167.96
430	0.0264	0.0314	0.56	0.62	0.02	0.60	176.17
440	0.0314	0.0371	0.59	0.66	0.02	0.64	187.58
450	0.0371	0.0544	0.63	0.72	0.02	0.70	205.90
460	0.0544	0.0952	0.69	0.84	0.02	0.82	241.67
470	0.0952	0.0985	0.81	1.00	0.02	0.98	290.68
480	0.0985	0.0644	0.97	1.13	0.02	1.12	330.44
490	0.0644	0.0449	1.05	1.16	0.07	1.08	304.26
500	0.0449	0.0371	1.01	1.10	0.07	1.03	286.52



<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
510	0.0371	0.0362	1.00	1.07	0.03	1.05	306.44
520	0.0362	0.0312	1.00	1.07	0.05	1.02	293.60
530	0.0312	0.0253	1.00	1.05	0.03	1.03	300.89
540	0.0253	0.0245	1.00	1.05	0.03	1.03	300.32
550	0.0245	0.0245	1.00	1.05	0.03	1.02	299.51
560	0.0245	0.0247	1.00	1.05	0.03	1.02	298.75
570	0.0247	0.0248	1.00	1.05	0.03	1.02	298.08
580	0.0248	0.0250	0.99	1.04	0.03	1.02	297.51
590	0.0250	0.0252	0.99	1.04	0.03	1.02	297.05
600	0.0252	0.0253	0.99	1.04	0.03	1.01	296.68
610	0.0253	0.0255	1.00	1.05	0.02	1.04	306.01
620	0.0255	0.0256	1.01	1.06	0.03	1.03	302.63
630	0.0256	0.0258	1.01	1.06	0.03	1.03	302.55
640	0.0258	0.0240	1.01	1.06	0.03	1.03	301.96
650	0.0240	0.0218	1.01	1.05	0.03	1.03	300.18
660	0.0218	0.0215	1.00	1.04	0.03	1.02	297.65
670	0.0215	0.0215	0.99	1.04	0.03	1.01	295.05
680	0.0215	0.0216	0.99	1.04	0.02	1.02	302.08
690	0.0216	0.0217	1.00	1.04	0.03	1.01	296.37
700	0.0217	0.0218	1.00	1.04	0.02	1.03	303.51
710	0.0218	0.0219	1.00	1.04	0.03	1.02	297.90
720	0.0219	0.0220	0.99	1.04	0.03	1.01	295.55
730	0.0220	0.0221	1.00	1.04	0.02	1.02	302.85
740	0.0221	0.0222	1.00	1.04	0.03	1.02	297.41
750	0.0222	0.0222	0.99	1.04	0.03	1.01	295.22
760	0.0222	0.0204	0.99	1.04	0.02	1.02	302.09
770	0.0204	0.0182	1.00	1.03	0.03	1.01	294.94
780	0.0182	0.0179	0.99	1.03	0.02	1.01	299.83
790	0.0179	0.0178	1.00	1.04	0.02	1.02	301.43
800	0.0178	0.0179	0.99	1.03	0.03	1.00	293.43
810	0.0179	0.0179	0.99	1.02	0.02	1.01	298.26
820	0.0179	0.0180	0.99	1.03	0.02	1.01	299.92
830	0.0180	0.0180	1.00	1.04	0.02	1.02	301.61
840	0.0180	0.0181	0.99	1.03	0.03	1.00	293.73
850	0.0181	0.0181	0.99	1.03	0.02	1.01	298.67
860	0.0181	0.0182	1.00	1.03	0.02	1.02	300.44
870	0.0182	0.0182	0.99	1.03	0.03	1.00	292.64
880	0.0182	0.0173	0.99	1.02	0.02	1.01	297.39
890	0.0173	0.0163	0.99	1.02	0.02	1.01	298.35
900	0.0163	0.0161	0.99	1.03	0.02	1.01	298.96
910	0.0161	0.0161	1.00	1.03	0.02	1.01	299.52
920	0.0161	0.0162	1.00	1.03	0.02	1.02	300.09
930	0.0162	0.0162	1.00	1.03	0.02	1.02	300.68
940	0.0162	0.0162	0.99	1.02	0.03	1.00	291.69
950	0.0162	0.0163	0.98	1.02	0.02	1.00	295.52
960	0.0163	0.0163	0.99	1.02	0.02	1.00	296.17
970	0.0163	0.0163	0.99	1.02	0.02	1.00	296.84
980	0.0163	0.0164	0.99	1.02	0.02	1.01	297.52
990	0.0164	0.0164	0.99	1.02	0.02	1.01	298.23
1000	0.0164	0.0151	0.99	1.03	0.02	1.01	298.54
1010	0.0151	0.0135	1.00	1.02	0.02	1.01	297.98
1020	0.0135	0.0132	0.99	1.02	0.02	1.00	296.88
1030	0.0132	0.0132	0.99	1.02	0.02	1.00	295.69

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1040	0.0132	0.0132	0.99	1.01	0.02	1.00	294.50
1050	0.0132	0.0132	0.98	1.01	0.02	0.99	293.32
1060	0.0132	0.0133	0.98	1.00	0.02	0.99	292.15
1070	0.0133	0.0133	0.97	1.00	0.02	0.99	290.99
1080	0.0133	0.0133	0.97	1.00	0.02	0.98	289.84
1090	0.0133	0.0133	0.97	0.99	0.02	0.98	288.70
1100	0.0133	0.0133	0.96	0.99	0.02	0.97	287.58
1110	0.0133	0.0133	0.96	0.99	0.02	0.97	286.46
1120	0.0133	0.0134	0.95	0.98	0.02	0.97	285.36
1130	0.0134	0.0134	0.95	0.98	0.02	0.96	284.27
1140	0.0134	0.0134	0.95	0.97	0.02	0.96	283.19
1150	0.0134	0.0134	0.94	0.97	0.02	0.96	282.12
1160	0.0134	0.0134	0.94	0.97	0.02	0.95	281.06
1170	0.0134	0.0135	0.94	0.96	0.02	0.95	280.01
1180	0.0135	0.0135	0.93	0.96	0.02	0.95	278.97
1190	0.0135	0.0135	0.93	0.96	0.02	0.94	277.94
1200	0.0135	0.0135	0.93	0.95	0.02	0.94	276.93
1210	0.0135	0.0135	0.92	0.95	0.02	0.93	275.92
1220	0.0135	0.0135	0.92	0.95	0.02	0.93	274.92
1230	0.0135	0.0136	0.92	0.94	0.02	0.93	273.94
1240	0.0136	0.0136	0.91	0.94	0.02	0.93	272.96
1250	0.0136	0.0136	0.91	0.94	0.02	0.92	271.99
1260	0.0136	0.0136	0.91	0.93	0.02	0.92	271.04
1270	0.0136	0.0136	0.90	0.93	0.02	0.92	270.09
1280	0.0136	0.0136	0.90	0.93	0.02	0.91	269.16
1290	0.0136	0.0137	0.90	0.92	0.02	0.91	268.23
1300	0.0137	0.0137	0.89	0.92	0.02	0.91	267.31
1310	0.0137	0.0137	0.89	0.92	0.02	0.90	266.41
1320	0.0137	0.0137	0.89	0.92	0.02	0.90	265.51
1330	0.0137	0.0137	0.89	0.91	0.02	0.90	264.62
1340	0.0137	0.0137	0.88	0.91	0.02	0.89	263.74
1350	0.0137	0.0138	0.88	0.91	0.02	0.89	262.87
1360	0.0138	0.0138	0.88	0.90	0.02	0.89	262.01
1370	0.0138	0.0138	0.87	0.90	0.02	0.89	261.16
1380	0.0138	0.0138	0.87	0.90	0.02	0.88	260.32
1390	0.0138	0.0138	0.87	0.90	0.02	0.88	259.49
1400	0.0138	0.0138	0.86	0.89	0.02	0.88	258.67
1410	0.0138	0.0138	0.86	0.89	0.02	0.87	257.85
1420	0.0138	0.0139	0.86	0.89	0.02	0.87	257.05
1430	0.0139	0.0139	0.86	0.88	0.02	0.87	256.25
1440	0.0139	0.0000	0.85	0.87	0.02	0.85	251.30
1450	0.0000	0.0000	0.84	0.84	0.02	0.82	242.18
1460	0.0000	0.0000	0.81	0.81	0.02	0.79	233.06
1470	0.0000	0.0000	0.78	0.78	0.02	0.76	223.94
1480	0.0000	0.0000	0.75	0.75	0.02	0.73	214.82
1490	0.0000	0.0000	0.72	0.72	0.02	0.70	205.71
1500	0.0000	0.0000	0.69	0.69	0.02	0.67	196.59
1510	0.0000	0.0000	0.66	0.66	0.02	0.64	187.47
1520	0.0000	0.0000	0.62	0.62	0.02	0.61	178.35
1530	0.0000	0.0000	0.59	0.59	0.02	0.58	169.23
1540	0.0000	0.0000	0.56	0.56	0.02	0.55	160.11
1550	0.0000	0.0000	0.53	0.53	0.02	0.52	151.00
1560	0.0000	0.0000	0.50	0.50	0.02	0.49	141.88

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1570	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1580	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1590	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1600	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1610	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1620	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1630	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1640	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1650	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1660	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1670	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1680	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1690	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1700	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1710	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1720	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1730	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1740	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1750	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1760	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1770	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1780	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1790	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1800	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1810	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1820	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1830	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1840	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1850	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1860	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1870	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1880	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1890	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1900	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1910	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1920	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1930	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1940	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1950	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1960	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1970	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1980	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
1990	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2000	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2010	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2020	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2030	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2040	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2050	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2060	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2070	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2080	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2090	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2100	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2110	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2120	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2130	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2140	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2150	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2160	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2170	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2180	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2190	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2200	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2210	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2220	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2230	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2240	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2250	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2260	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2270	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2280	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2290	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2300	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2310	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2320	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2330	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2340	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2350	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2360	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2370	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2380	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2390	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2400	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2410	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2420	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2430	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2440	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2450	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2460	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2470	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2480	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2490	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2500	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2510	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2520	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2530	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2540	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2550	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2560	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2570	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2580	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2590	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2600	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2610	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2620	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2630	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2640	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2650	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2660	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2670	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2680	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2690	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2700	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2710	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2720	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2730	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2740	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2750	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2760	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2770	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2780	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2790	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2800	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2810	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2820	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2830	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2840	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2850	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2860	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2870	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44
2880	0.0000	0.0000	0.49	0.49	0.00	0.49	146.44

Project: Fir Ave.  
 Project Number: 3269  
 Date: 4/10/18  
 Basin: SWL 2  
 Event: 25-yr

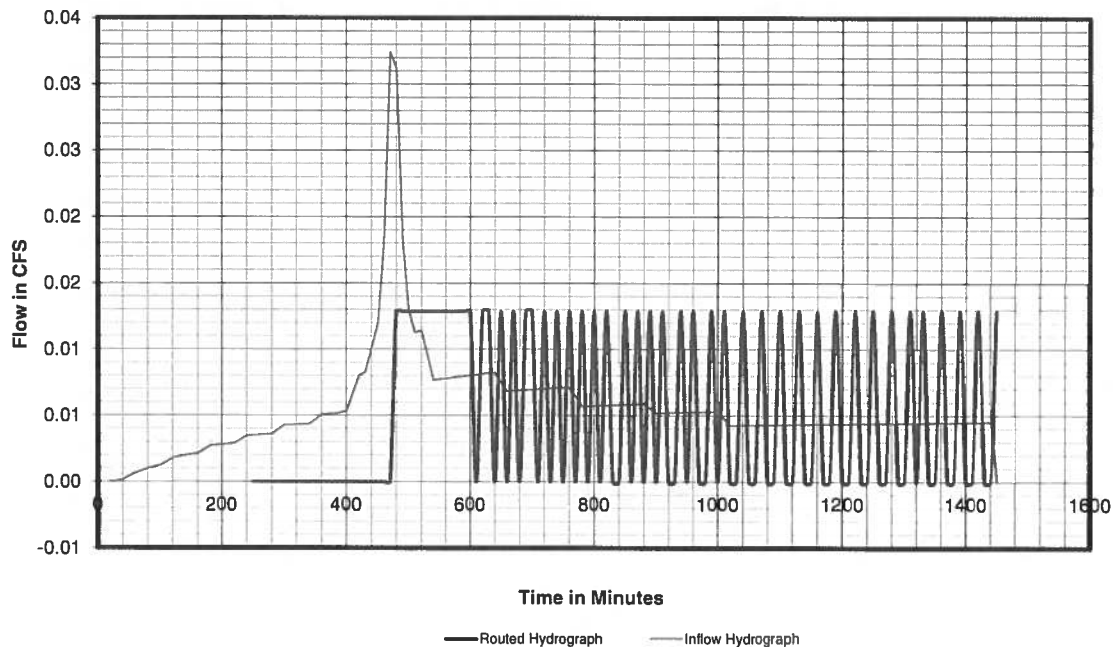
## INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>	<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	2679	2679 SF	<b>Pervious Area:</b>	Area = 0.0095 acres
Area =	0.06	0.06 acres	Area = 0.0520 acres	Area = 0.0095 acres
Pt =	3.9	3.9 inches	CN = 69	CN = 98
dt =	10	10 min	S = 4.49	S = 0.20
Tc =	5	5 min	0.2S = 0.90	0.2S = 0.04
w =	0.5	0.5 Rout. Con.		
			<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>
<b>Hydrograph Results:</b>			<b>Pervious Area:</b>	Area = 0.0237 acres
Pre-Developed Peak Runoff:	0.021 cfs		Area = 0.0378 acres	Area = 0.0237 acres
Pre Developed Total Volume:	352.1 CF		CN = 69	CN = 98
			S = 4.49	S = 0.20
Post-Developed Peak Runoff:	0.032 cfs		0.2S = 0.90	0.2S = 0.04
Post Developed Total Volume:	478.9 CF			

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	16.3 FT	Diameter	6 IN
Bottom Width	7.0 FT	Elevation	0.75 FT
Side Slope	0.05 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	114 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	0.75 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	MAX STORAGE =	137.4 Cu Ft
Soil Media porosity	25%	MAX OUTLET =	0.013 cfs
Gravel Layer porosity	40%	MAX Infiltration =	0.013 cfs
Infiltration Rate	5 in/hr	MAX Bypass =	0.000 cfs
Infl Safety Factor	2		

BioCell Inflow/Outflow Hydrograph





Project: Fir Ave.  
 Project Number: 3269  
 Date: 4/10/18  
 Basin: SWL 2  
 Event: 100-yr

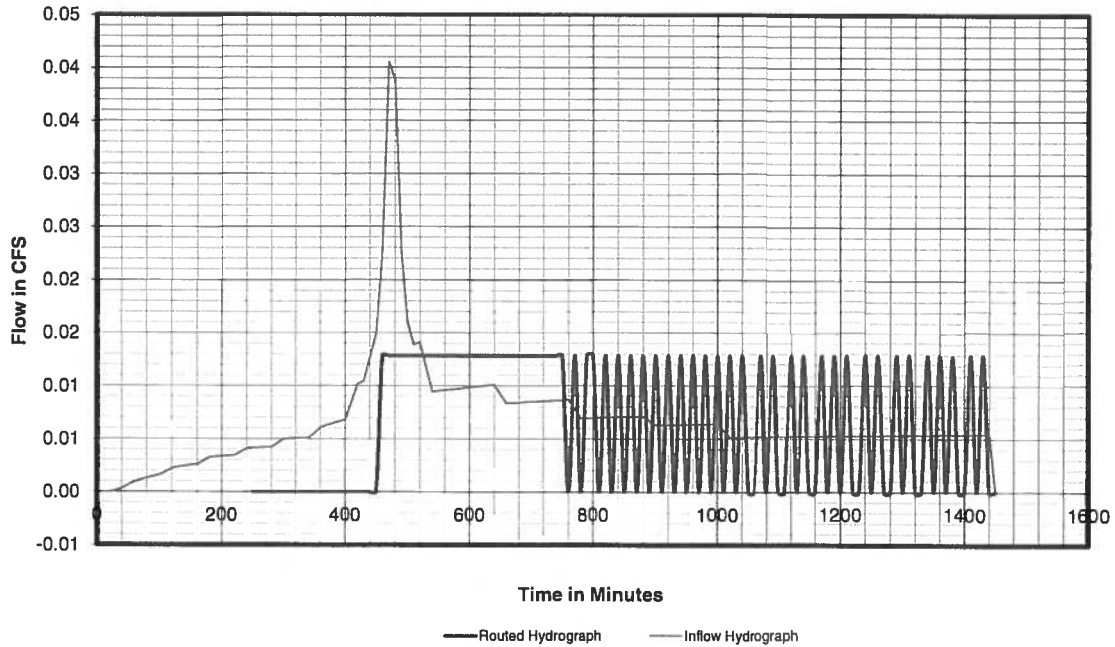
## INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>		<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	2679	2679 SF		<b>Pervious Area:</b>	Area = 0.0095 acres
Area =	0.06	0.06 acres	Area = 0.0520 acres	Area =	0.0095 acres
Pt =	4.5	4.5 inches	CN = 69	CN =	98
dt =	10	10 min	S = 4.49	S =	0.20
Tc =	5	5 min	0.2S = 0.90	0.2S =	0.04
w =	0.5	0.5 Rout. Con.			
<b>Hydrograph Results:</b>			<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>	
<b>Pre-Developed Peak Runoff:</b>	<b>0.028 cfs</b>		<b>Pervious Area:</b>	Area = 0.0237 acres	
Pre Developed Total Volume:	448.0 CF		Area = 0.0378 acres	CN = 98	
			CN = 69	S = 0.20	
			S = 4.49	0.2S = 0.04	
<b>Post-Developed Peak Runoff:</b>	<b>0.040 cfs</b>		0.2S = 0.90		
Post Developed Total Volume:	585.1 CF				

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	16.3 FT	Diameter	6 IN
Bottom Width	7.0 FT	Elevation	0.75 FT
Side Slope	0.05 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	114 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	0.75 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	<b>MAX STORAGE =</b>	<b>160.7 Cu Ft</b>
Soil Media porosity	25%	<b>MAX OUTLET =</b>	<b>0.013 cfs</b>
Gravel Layer porosity	40%	<b>MAX Infiltration =</b>	<b>0.013 cfs</b>
Infiltration Rate	5 in/hr	<b>MAX Bypass =</b>	<b>0.000 cfs</b>
Infl Safety Factor	2		

BioCell Inflow/Outflow Hydrograph







(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff  (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0001	0.0	0.0	
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0005	0.0	0.0	
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0008	0.0	0.0	
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0011	0.0	0.0	
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0013	0.0	0.0	
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0015	0.0	0.0	
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0016	0.0	0.0	
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0017	0.0	0.0	
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0023	0.0	0.0	
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0025	0.0	0.0	
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0026	0.0	0.0	
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0027	0.0	0.0	
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0027	0.0	0.0	
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0028	0.0	0.0	
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0035	0.0	0.0	
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0035	0.0	0.0	
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0036	0.0	0.0	
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0036	0.0	0.0	
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0037	0.0	0.0	
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0037	0.0	0.0	
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0044	0.0	0.0	
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0044	0.0	0.0	
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0045	0.0	0.0	
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0045	0.0	0.0	
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0045	0.0	0.0	
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0046	0.0	0.0	
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0054	0.0	0.0	
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0054	0.0	0.0	
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0054	0.0	0.0	
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0054	0.0	0.0	
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0055	0.0	0.0	
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0055	0.0	0.0	
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0066	0.0	0.0	
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0072	0.0	0.0	
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0079	0.0	0.0	
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0085	0.0	0.0	
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0092	0.0	0.0	
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0098	0.0	0.0	
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0148	0.0	0.0	
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0160	0.0	0.0	
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0171	0.0	0.0	
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0246	0.0	0.0	
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0264	0.0	0.0	
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0545	0.0	0.0	
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.0979	0.0	0.0	
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0537	0.0	0.0	
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0374	0.0	0.0	
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0287	0.0	0.0	
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0293	0.0	0.0	
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0300	0.0	0.0	
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0200	0.0	0.0	
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0203	0.0	0.0	
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0205	0.0	0.0	
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0208	0.0	0.0	
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0210	0.0	0.0	
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0213	0.0	0.0	
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0215	0.0	0.0	
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0217	0.0	0.0	
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0220	0.0	0.0	
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0222	0.0	0.0	
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0224	0.0	0.0	
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0226	0.0	0.0	
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0187	0.0	0.0	
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0188	0.0	0.0	
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0189	0.0	0.0	
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0191	0.0	0.0	
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0192	0.0	0.0	
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0193	0.0	0.0	

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff  (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0195	0.0	0.0
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0196	0.0	0.0
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0197	0.0	0.0
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0199	0.0	0.0
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0200	0.0	0.0
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0201	0.0	0.0
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0160	0.0	0.0
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0161	0.0	0.0
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0161	0.0	0.0
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0162	0.0	0.0
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0163	0.0	0.0
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0163	0.0	0.0
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0164	0.0	0.0
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0165	0.0	0.0
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0166	0.0	0.0
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0166	0.0	0.0
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0167	0.0	0.0
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0168	0.0	0.0
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0147	0.0	0.0
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0148	0.0	0.0
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0148	0.0	0.0
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0149	0.0	0.0
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0149	0.0	0.0
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0150	0.0	0.0
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0150	0.0	0.0
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0151	0.0	0.0
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0151	0.0	0.0
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0152	0.0	0.0
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0152	0.0	0.0
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0153	0.0	0.0
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0122	0.0	0.0
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0123	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0123	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0123	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0124	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0124	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0124	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0124	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0125	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0125	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0125	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0125	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0126	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0126	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0126	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0126	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0127	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0127	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0127	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0127	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0128	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0128	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0128	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0128	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0129	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0129	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0129	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0129	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0130	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0130	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0130	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0130	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0131	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0131	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0131	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0131	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0131	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0132	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0132	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0132	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0132	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0133	0.0	0.0

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0133	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0133	0.0	0.0

Total 1.0000 4.5000

Hydrograph Volume 448  
(Cubic Feet)

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0003	0.0	0.0	
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0013	0.0	0.0	
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0021	0.0	0.0	
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0027	0.0	0.0	
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0033	0.0	0.0	
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0037	0.0	0.0	
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0040	0.0	0.0	
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0043	0.0	0.0	
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0058	0.0	0.0	
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0061	0.0	0.0	
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0064	0.0	0.0	
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0066	0.0	0.0	
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0068	0.0	0.0	
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0070	0.0	0.0	
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0086	0.0	0.0	
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0088	0.0	0.0	
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0089	0.0	0.0	
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0091	0.0	0.0	
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0092	0.0	0.0	
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0093	0.0	0.0	
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0110	0.0	0.0	
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0111	0.0	0.0	
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0112	0.0	0.0	
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0112	0.0	0.0	
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0113	0.0	0.0	
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0114	0.0	0.0	
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0134	0.0	0.0	
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0135	0.0	0.0	
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0135	0.0	0.0	
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0136	0.0	0.0	
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0136	0.0	0.0	
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0137	0.0	0.0	
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0160	0.0	0.0	
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0165	0.0	0.0	
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0170	0.0	0.0	
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0175	0.0	0.0	
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0180	0.0	0.0	
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0185	0.0	0.0	
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0269	0.0	0.0	
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0277	0.0	0.0	
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0285	0.0	0.0	
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0396	0.0	0.0	
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0409	0.0	0.0	
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0808	0.0	0.0	
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1368	0.1	0.0	
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0719	0.0	0.0	
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0491	0.0	0.0	
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0372	0.0	0.0	
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0377	0.0	0.0	
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0381	0.0	0.0	
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0253	0.0	0.0	
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0255	0.0	0.0	
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0257	0.0	0.0	
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0259	0.0	0.0	
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0260	0.0	0.0	
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0262	0.0	0.0	
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0264	0.0	0.0	
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0266	0.0	0.0	
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0267	0.0	0.0	
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0269	0.0	0.0	
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0270	0.0	0.0	
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0272	0.0	0.0	
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0224	0.0	0.0	
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0225	0.0	0.0	
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0226	0.0	0.0	
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0227	0.0	0.0	
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0228	0.0	0.0	
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0229	0.0	0.0	

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0230	0.0	0.0
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0231	0.0	0.0
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0232	0.0	0.0
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0232	0.0	0.0
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0233	0.0	0.0
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0234	0.0	0.0
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0186	0.0	0.0
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0187	0.0	0.0
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0187	0.0	0.0
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0188	0.0	0.0
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0188	0.0	0.0
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0189	0.0	0.0
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0189	0.0	0.0
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0190	0.0	0.0
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0190	0.0	0.0
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0191	0.0	0.0
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0191	0.0	0.0
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0192	0.0	0.0
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0168	0.0	0.0
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0169	0.0	0.0
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0169	0.0	0.0
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0170	0.0	0.0
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0170	0.0	0.0
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0170	0.0	0.0
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0171	0.0	0.0
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0171	0.0	0.0
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0171	0.0	0.0
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0172	0.0	0.0
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0172	0.0	0.0
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0172	0.0	0.0
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0138	0.0	0.0
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0138	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0138	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0139	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0139	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0139	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0139	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0139	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0140	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0140	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0140	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0140	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0140	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0141	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0141	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0141	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0141	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0141	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0142	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0142	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0142	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0142	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0142	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0142	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0143	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0143	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0143	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0143	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0143	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0143	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0144	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0144	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0144	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0144	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0144	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0144	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0145	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0145	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0145	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0145	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0145	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0145	0.0	0.0

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0146	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0146	0.0	0.0
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet)	585



## BioCell Storage vs. Outflow

							t = 600 sec			
Height	Storage	Top Length	Top Width	Surface Area (sq ft)	Infiltration (out)	Overflow (out)	S/t	2S/t	O+2S/t	Total Out
0.000	113	16.3	7.0	114	0.0128	0.0000	0.1883	0.3767	0.3895	0.0128
0.020	115	16.3	7.0	114	0.0128	0.0000	0.1921	0.3843	0.3971	0.0128
0.040	118	16.3	7.0	114	0.0128	0.0000	0.1960	0.3919	0.4047	0.0128
0.060	120	16.3	7.0	114	0.0128	0.0000	0.1998	0.3995	0.4124	0.0128
0.080	122	16.3	7.0	114	0.0128	0.0000	0.2036	0.4072	0.4200	0.0128
0.100	124	16.3	7.0	115	0.0128	0.0000	0.2074	0.4148	0.4276	0.0128
0.120	127	16.3	7.0	115	0.0128	0.0000	0.2112	0.4224	0.4353	0.0128
0.140	129	16.3	7.0	115	0.0128	0.0000	0.2150	0.4301	0.4429	0.0128
0.160	131	16.3	7.0	115	0.0128	0.0000	0.2189	0.4377	0.4506	0.0128
0.180	134	16.3	7.0	115	0.0128	0.0000	0.2227	0.4454	0.4582	0.0128
0.200	136	16.4	7.0	115	0.0128	0.0000	0.2265	0.4530	0.4659	0.0128
0.220	138	16.4	7.0	115	0.0128	0.0000	0.2303	0.4607	0.4735	0.0128
0.240	141	16.4	7.0	115	0.0128	0.0000	0.2342	0.4683	0.4812	0.0128
0.260	143	16.4	7.0	115	0.0128	0.0000	0.2380	0.4760	0.4888	0.0128
0.280	145	16.4	7.0	115	0.0128	0.0000	0.2418	0.4837	0.4965	0.0128
0.300	147	16.4	7.0	115	0.0128	0.0000	0.2457	0.4913	0.5042	0.0128
0.320	150	16.4	7.0	115	0.0128	0.0000	0.2495	0.4990	0.5118	0.0128
0.340	152	16.4	7.0	115	0.0128	0.0000	0.2533	0.5067	0.5195	0.0128
0.360	154	16.4	7.0	115	0.0128	0.0000	0.2572	0.5143	0.5272	0.0128
0.380	157	16.4	7.0	115	0.0128	0.0000	0.2610	0.5220	0.5348	0.0128
0.400	159	16.4	7.0	115	0.0128	0.0000	0.2649	0.5297	0.5425	0.0128
0.420	161	16.4	7.0	115	0.0128	0.0000	0.2687	0.5374	0.5502	0.0128
0.440	164	16.4	7.0	115	0.0128	0.0000	0.2725	0.5451	0.5579	0.0128
0.460	166	16.4	7.0	115	0.0128	0.0000	0.2764	0.5528	0.5656	0.0128
0.480	168	16.4	7.0	115	0.0128	0.0000	0.2802	0.5605	0.5733	0.0128
0.500	170	16.4	7.1	115	0.0128	0.0000	0.2841	0.5682	0.5810	0.0128
0.520	173	16.4	7.1	116	0.0128	0.0000	0.2879	0.5759	0.5887	0.0128
0.540	175	16.4	7.1	116	0.0128	0.0000	0.2918	0.5836	0.5964	0.0128
0.560	177	16.4	7.1	116	0.0128	0.0000	0.2956	0.5913	0.6041	0.0128
0.580	180	16.4	7.1	116	0.0128	0.0000	0.2995	0.5990	0.6118	0.0128
0.600	182	16.4	7.1	116	0.0128	0.0000	0.3033	0.6067	0.6195	0.0128
0.620	184	16.4	7.1	116	0.0128	0.0000	0.3072	0.6144	0.6272	0.0128
0.640	187	16.4	7.1	116	0.0128	0.0000	0.3111	0.6221	0.6350	0.0128
0.660	189	16.4	7.1	116	0.0128	0.0000	0.3149	0.6298	0.6427	0.0128
0.680	191	16.4	7.1	116	0.0128	0.0000	0.3188	0.6376	0.6504	0.0128
0.700	194	16.4	7.1	116	0.0128	0.0000	0.3226	0.6453	0.6581	0.0128
0.720	196	16.4	7.1	116	0.0128	0.0000	0.3265	0.6530	0.6659	0.0128
0.740	198	16.4	7.1	116	0.0128	0.0000	0.3304	0.6608	0.6736	0.0128
0.760	201	16.4	7.1	116	0.0128	0.0038	0.3343	0.6685	0.6813	0.0166
0.780	203	16.4	7.1	116	0.0128	0.0196	0.3381	0.6762	0.7087	0.0324
0.800	205	16.4	7.1	116	0.0128	0.0421	0.3420	0.6840	0.7390	0.0550
0.820	208	16.4	7.1	116	0.0128	0.0698	0.3459	0.6917	0.7744	0.0827
0.840	210	16.4	7.1	116	0.0128	0.1018	0.3497	0.6995	0.8141	0.1146
0.860	212	16.4	7.1	116	0.0128	0.1375	0.3536	0.7072	0.8576	0.1504
0.880	214	16.4	7.1	116	0.0128	0.1767	0.3575	0.7150	0.9045	0.1895
0.900	217	16.4	7.1	116	0.0128	0.2190	0.3614	0.7228	0.9546	0.2318
0.920	219	16.4	7.1	116	0.0128	0.2642	0.3653	0.7305	1.0076	0.2771
0.940	221	16.4	7.1	117	0.0128	0.3122	0.3691	0.7383	1.0633	0.3251
0.960	224	16.4	7.1	117	0.0128	0.3628	0.3730	0.7460	1.1217	0.3756



<i>t = 600 sec</i>										
<i>Height</i>	<i>Storage</i>	<i>lop Length</i>	<i>lop Width</i>	<i>Surface Area (sq ft)</i>	<i>infiltration (out)</i>	<i>Overflow (out)</i>	<i>S/t</i>	<i>2S/t</i>	<i>O+2S/t</i>	<i>Total Out</i>
0.980	226	16.4	7.1	117	0.0128	0.4158	0.3769	0.7538	1.1825	0.4287
1.000	228	16.4	7.1	117	0.0128	0.4712	0.3808	0.7616	1.2457	0.4841
1.020	231	16.4	7.1	117	0.0128	0.5289	0.3847	0.7694	1.3111	0.5417
1.040	233	16.4	7.1	117	0.0128	0.5887	0.3886	0.7772	1.3787	0.6016
1.060	235	16.4	7.1	117	0.0128	0.6507	0.3925	0.7849	1.4485	0.6635
1.080	238	16.4	7.1	117	0.0128	0.7147	0.3964	0.7927	1.5202	0.7275
1.100	240	16.4	7.1	117	0.0128	0.7806	0.4003	0.8005	1.5940	0.7934
1.120	242	16.4	7.1	117	0.0128	0.8485	0.4042	0.8083	1.6696	0.8613
1.140	245	16.4	7.1	117	0.0128	0.9182	0.4081	0.8161	1.7471	0.9310
1.160	247	16.4	7.1	117	0.0128	0.9897	0.4120	0.8239	1.8265	1.0025
1.180	250	16.4	7.1	117	0.0128	1.0630	0.4159	0.8317	1.9076	1.0758
1.200	252	16.5	7.1	117	0.0128	1.1380	0.4198	0.8395	1.9904	1.1509

## BioCell Storage Routing

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
10	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00
20	0.0000	0.0001	0.00	0.00	0.00	0.00	0.02
30	0.0001	0.0003	0.00	0.00	0.00	0.00	0.12
40	0.0003	0.0006	0.00	0.00	0.00	0.00	0.40
50	0.0006	0.0009	0.00	0.00	0.00	0.00	0.86
60	0.0009	0.0011	0.00	0.00	0.00	0.00	1.46
70	0.0011	0.0013	0.00	0.01	0.00	0.01	2.18
80	0.0013	0.0014	0.01	0.01	0.00	0.01	3.00
90	0.0014	0.0016	0.01	0.01	0.00	0.01	3.90
100	0.0016	0.0019	0.01	0.02	0.00	0.02	4.94
110	0.0019	0.0022	0.02	0.02	0.00	0.02	6.17
120	0.0022	0.0023	0.02	0.03	0.00	0.03	7.53
130	0.0023	0.0024	0.03	0.03	0.00	0.03	8.96
140	0.0024	0.0025	0.03	0.03	0.00	0.03	10.44
150	0.0025	0.0026	0.03	0.04	0.00	0.04	11.97
160	0.0026	0.0029	0.04	0.05	0.00	0.05	13.61
170	0.0029	0.0032	0.05	0.05	0.00	0.05	15.46
180	0.0032	0.0033	0.05	0.06	0.00	0.06	17.42
190	0.0033	0.0034	0.06	0.06	0.00	0.06	19.41
200	0.0034	0.0034	0.06	0.07	0.00	0.07	21.44
210	0.0034	0.0034	0.07	0.08	0.00	0.08	23.49
220	0.0034	0.0038	0.08	0.09	0.00	0.09	25.66
230	0.0038	0.0041	0.09	0.09	0.00	0.09	28.02
240	0.0041	0.0041	0.09	0.10	0.00	0.10	30.49
250	0.0041	0.0042	0.10	0.11	0.00	0.11	32.98
260	0.0042	0.0042	0.11	0.12	0.00	0.12	35.49
270	0.0042	0.0042	0.12	0.13	0.00	0.13	38.01
280	0.0042	0.0046	0.13	0.14	0.00	0.14	40.66
290	0.0046	0.0050	0.14	0.15	0.00	0.15	43.54
300	0.0050	0.0050	0.15	0.16	0.00	0.16	46.55
310	0.0050	0.0050	0.16	0.17	0.00	0.17	49.57
320	0.0050	0.0051	0.17	0.18	0.00	0.18	52.60
330	0.0051	0.0051	0.18	0.19	0.00	0.19	55.64
340	0.0051	0.0055	0.19	0.20	0.00	0.20	58.82
350	0.0055	0.0061	0.20	0.21	0.00	0.21	62.29
360	0.0061	0.0062	0.21	0.22	0.00	0.22	65.98
370	0.0062	0.0064	0.22	0.23	0.00	0.23	69.78
380	0.0064	0.0066	0.23	0.25	0.00	0.25	73.70
390	0.0066	0.0068	0.25	0.26	0.00	0.26	77.72
400	0.0068	0.0084	0.26	0.27	0.00	0.27	82.29
410	0.0084	0.0102	0.27	0.29	0.00	0.29	87.87
420	0.0102	0.0105	0.29	0.31	0.00	0.31	94.06
430	0.0105	0.0127	0.31	0.34	0.00	0.34	101.00
440	0.0127	0.0150	0.34	0.36	0.00	0.36	109.29
450	0.0150	0.0226	0.36	0.40	0.00	0.40	120.58
460	0.0226	0.0405	0.39	0.45	0.01	0.44	127.97
470	0.0405	0.0388	0.43	0.51	0.01	0.49	144.06
480	0.0388	0.0225	0.48	0.54	0.01	0.53	154.77
490	0.0225	0.0161	0.52	0.55	0.01	0.54	158.64
500	0.0161	0.0139	0.53	0.56	0.01	0.55	159.93

<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
510	0.0139	0.0141	0.53	0.56	0.01	0.55	160.64
520	0.0141	0.0118	0.54	0.56	0.01	0.55	160.71
530	0.0118	0.0094	0.54	0.56	0.01	0.54	159.38
540	0.0094	0.0095	0.53	0.55	0.01	0.54	157.37
550	0.0095	0.0096	0.52	0.54	0.01	0.53	155.40
560	0.0096	0.0097	0.52	0.54	0.01	0.52	153.47
570	0.0097	0.0097	0.51	0.53	0.01	0.52	151.59
580	0.0097	0.0098	0.51	0.52	0.01	0.51	149.74
590	0.0098	0.0098	0.50	0.52	0.01	0.51	147.93
600	0.0098	0.0099	0.49	0.51	0.01	0.50	146.16
610	0.0099	0.0100	0.49	0.51	0.01	0.49	144.43
620	0.0100	0.0100	0.48	0.50	0.01	0.49	142.73
630	0.0100	0.0101	0.48	0.50	0.01	0.48	141.07
640	0.0101	0.0092	0.47	0.49	0.01	0.48	139.17
650	0.0092	0.0083	0.46	0.48	0.01	0.47	136.74
660	0.0083	0.0084	0.46	0.47	0.01	0.46	134.06
670	0.0084	0.0084	0.45	0.46	0.01	0.45	131.40
680	0.0084	0.0085	0.44	0.45	0.01	0.44	128.76
690	0.0085	0.0085	0.43	0.45	0.01	0.43	126.15
700	0.0085	0.0085	0.42	0.44	0.01	0.42	123.56
710	0.0085	0.0086	0.41	0.43	0.01	0.42	120.99
720	0.0086	0.0086	0.40	0.42	0.01	0.41	118.44
730	0.0086	0.0086	0.39	0.41	0.01	0.40	115.90
740	0.0086	0.0087	0.39	0.40	0.01	0.39	113.39
750	0.0087	0.0087	0.38	0.40	0.01	0.38	110.90
760	0.0087	0.0078	0.38	0.40	0.00	0.40	119.71
770	0.0078	0.0069	0.39	0.40	0.01	0.39	112.58
780	0.0069	0.0070	0.39	0.40	0.00	0.40	120.60
790	0.0070	0.0070	0.39	0.40	0.01	0.39	113.23
800	0.0070	0.0070	0.38	0.39	0.01	0.38	109.72
810	0.0070	0.0070	0.38	0.39	0.00	0.39	117.77
820	0.0070	0.0070	0.38	0.39	0.01	0.38	110.43
830	0.0070	0.0070	0.38	0.40	0.00	0.40	118.50
840	0.0070	0.0071	0.38	0.40	0.01	0.38	111.19
850	0.0071	0.0071	0.38	0.40	0.00	0.40	119.28
860	0.0071	0.0071	0.38	0.40	0.01	0.39	111.99
870	0.0071	0.0071	0.39	0.40	0.00	0.40	120.10
880	0.0071	0.0067	0.39	0.40	0.01	0.39	112.70
890	0.0067	0.0063	0.39	0.40	0.00	0.40	120.44
900	0.0063	0.0063	0.39	0.40	0.01	0.39	112.66
910	0.0063	0.0063	0.39	0.40	0.00	0.40	120.29
920	0.0063	0.0063	0.39	0.40	0.01	0.39	112.53
930	0.0063	0.0063	0.39	0.40	0.00	0.40	120.17
940	0.0063	0.0063	0.39	0.40	0.01	0.39	112.42
950	0.0063	0.0064	0.39	0.40	0.00	0.40	120.08
960	0.0064	0.0064	0.39	0.40	0.01	0.39	112.35
970	0.0064	0.0064	0.39	0.40	0.00	0.40	120.02
980	0.0064	0.0064	0.39	0.40	0.01	0.39	112.30
990	0.0064	0.0064	0.39	0.40	0.00	0.40	119.99
1000	0.0064	0.0058	0.39	0.40	0.01	0.39	112.09
1010	0.0058	0.0051	0.39	0.40	0.00	0.40	119.22
1020	0.0051	0.0051	0.38	0.39	0.01	0.38	110.75
1030	0.0051	0.0052	0.38	0.39	0.00	0.39	117.69

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1040	0.0052	0.0052	0.38	0.39	0.01	0.38	109.24
1050	0.0052	0.0052	0.38	0.39	0.00	0.39	116.19
1060	0.0052	0.0052	0.39	0.40	0.00	0.40	119.29
1070	0.0052	0.0052	0.38	0.40	0.01	0.38	110.85
1080	0.0052	0.0052	0.38	0.39	0.00	0.39	117.82
1090	0.0052	0.0052	0.38	0.39	0.01	0.38	109.39
1100	0.0052	0.0052	0.38	0.39	0.00	0.39	116.36
1110	0.0052	0.0052	0.39	0.40	0.00	0.40	119.48
1120	0.0052	0.0052	0.39	0.40	0.01	0.38	111.07
1130	0.0052	0.0052	0.38	0.39	0.00	0.39	118.05
1140	0.0052	0.0052	0.38	0.39	0.01	0.38	109.64
1150	0.0052	0.0052	0.38	0.39	0.00	0.39	116.63
1160	0.0052	0.0052	0.39	0.40	0.00	0.40	119.78
1170	0.0052	0.0053	0.39	0.40	0.01	0.38	111.38
1180	0.0053	0.0053	0.38	0.39	0.00	0.39	118.39
1190	0.0053	0.0053	0.38	0.39	0.01	0.38	110.00
1200	0.0053	0.0053	0.38	0.39	0.00	0.39	117.01
1210	0.0053	0.0053	0.38	0.39	0.01	0.37	108.63
1220	0.0053	0.0053	0.37	0.39	0.00	0.39	115.65
1230	0.0053	0.0053	0.39	0.40	0.00	0.40	118.83
1240	0.0053	0.0053	0.38	0.39	0.01	0.38	110.46
1250	0.0053	0.0053	0.38	0.39	0.00	0.39	117.49
1260	0.0053	0.0053	0.38	0.39	0.01	0.38	109.13
1270	0.0053	0.0053	0.38	0.39	0.00	0.39	116.17
1280	0.0053	0.0053	0.39	0.40	0.00	0.40	119.37
1290	0.0053	0.0053	0.39	0.40	0.01	0.38	111.02
1300	0.0053	0.0053	0.38	0.39	0.00	0.39	118.07
1310	0.0053	0.0053	0.38	0.39	0.01	0.38	109.73
1320	0.0053	0.0054	0.38	0.39	0.00	0.39	116.79
1330	0.0054	0.0054	0.39	0.40	0.00	0.40	120.00
1340	0.0054	0.0054	0.39	0.40	0.01	0.39	111.67
1350	0.0054	0.0054	0.39	0.40	0.00	0.40	118.74
1360	0.0054	0.0054	0.38	0.39	0.01	0.38	110.42
1370	0.0054	0.0054	0.38	0.39	0.00	0.39	117.50
1380	0.0054	0.0054	0.38	0.39	0.01	0.38	109.18
1390	0.0054	0.0054	0.38	0.39	0.00	0.39	116.27
1400	0.0054	0.0054	0.39	0.40	0.00	0.40	119.50
1410	0.0054	0.0054	0.39	0.40	0.01	0.38	111.20
1420	0.0054	0.0054	0.38	0.39	0.00	0.39	118.29
1430	0.0054	0.0054	0.38	0.39	0.01	0.38	110.00
1440	0.0054	0.0000	0.38	0.38	0.00	0.38	115.47
1450	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1460	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1470	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1480	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1490	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1500	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1510	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1520	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1530	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1540	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1550	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1560	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47

<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
1570	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1580	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1590	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1600	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1610	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1620	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1630	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1640	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1650	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1660	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1670	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1680	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1690	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1700	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1710	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1720	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1730	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1740	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1750	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1760	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1770	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1780	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1790	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1800	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1810	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1820	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1830	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1840	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1850	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1860	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1870	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1880	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1890	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1900	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1910	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1920	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1930	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1940	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1950	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1960	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1970	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1980	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
1990	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2000	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2010	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2020	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2030	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2040	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2050	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2060	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2070	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2080	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2090	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2100	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2110	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2120	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2130	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2140	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2150	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2160	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2170	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2180	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2190	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2200	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2210	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2220	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2230	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2240	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2250	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2260	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2270	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2280	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2290	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2300	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2310	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2320	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2330	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2340	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2350	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2360	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2370	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2380	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2390	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2400	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2410	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2420	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2430	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2440	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2450	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2460	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2470	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2480	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2490	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2500	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2510	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2520	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2530	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2540	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2550	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2560	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2570	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2580	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2590	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2600	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2610	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2620	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2630	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2640	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2650	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2660	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2670	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2680	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2690	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2700	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2710	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2720	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2730	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2740	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2750	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2760	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2770	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2780	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2790	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2800	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2810	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2820	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2830	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2840	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2850	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2860	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2870	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47
2880	0.0000	0.0000	0.38	0.38	0.00	0.38	115.47



Project: Fir Ave.  
 Project Number: 3269  
 Date: 4/11/18  
 Basin: Swale 3  
 Event: 25-yr

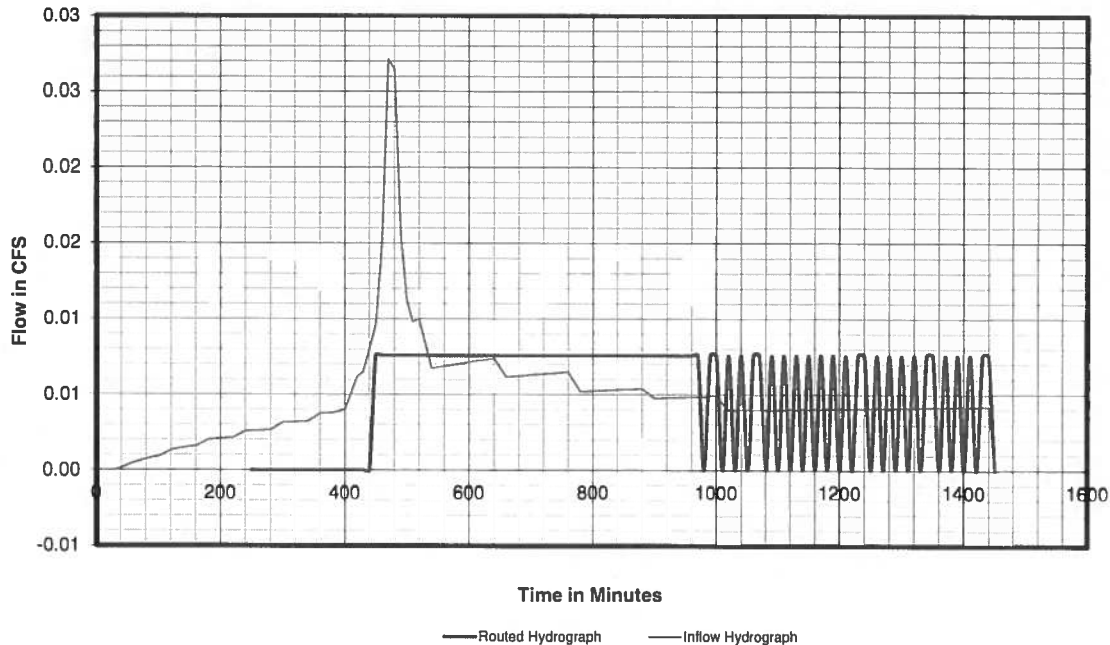
## INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>	<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	2621	2621 SF	<b>Pervious Area:</b>	Area = 0.0127 acres
Area =	0.06	0.06 acres	Area = 0.0475 acres	Area = 0.0127 acres
Pt =	3.9	3.9 inches	CN = 69	CN = 98
dt =	10	10 min	S = 4.49	S = 0.20
Tc =	5	5 min	0.2S = 0.90	0.2S = 0.04
w =	0.5	0.5 Rout. Con.		
			<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>
<b>Hydrograph Results:</b>			<b>Pervious Area:</b>	Area = 0.0175 acres
Pre-Developed Peak Runoff:	0.023 cfs		Area = 0.0427 acres	Area = 0.0175 acres
Pre Developed Total Volume:	374.9 CF		CN = 69	CN = 98
			S = 4.49	S = 0.20
Post-Developed Peak Runoff:	0.027 cfs		0.2S = 0.90	0.2S = 0.04
Post Developed Total Volume:	417.8 CF			

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	8.6 FT	Diameter	6 IN
Bottom Width	7.0 FT	Elevation	0.75 FT
Side Slope	0.05 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	60 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	0.8 FT		
Soil Media Depth	1.5 IN	<b>Routing Results:</b>	
Gravel Layer Depth	1.5 FT	MAX STORAGE =	103.0 Cu Ft
Soil Media porosity	25%	MAX OUTLET =	0.008 cfs
Gravel Layer porosity	40%	MAX Infiltration =	0.008 cfs
Infiltration Rate	5 in/hr	MAX Bypass =	0.000 cfs
Infl Safety Factor	2		

BioCell Inflow/Outflow Hydrograph







**Project:** Fir Ave.  
**Project Number:** 3269  
**Date:** 4/11/18  
**Basin:** Swale 3  
**Event:** 100-yr

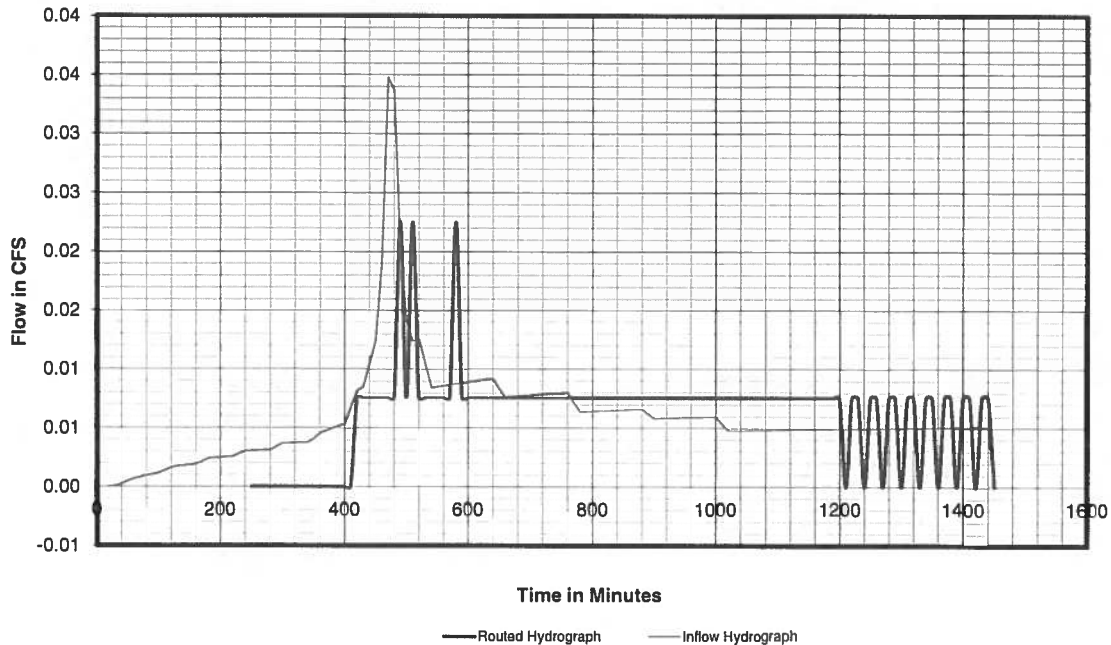
### INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>		<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>		<b>Impervious Area:</b>
Site Area =	2621	2621 SF		<b>Pervious Area:</b>	Area =	0.0127 acres
Area =	0.06	0.06 acres		Area =	0.0475 acres	Area =
Pt =	4.5	4.5 inches		CN =	69	CN =
dt =	10	10 min		S =	4.49	S =
Tc =	5	5 min		0.2S =	0.90	0.2S =
w =	0.5	0.5 Rout. Con.				0.04
<b>Hydrograph Results:</b>				<b>POST-DEVELOPED</b>		<b>Impervious Area:</b>
<b>Pre-Developed Peak Runoff:</b>	<b>0.031 cfs</b>			<b>Pervious Area:</b>	Area =	0.0175 acres
Pre Developed Total Volume:	471.2 CF			Area =	0.0427 acres	Area =
				CN =	69	CN =
				S =	4.49	S =
<b>Post-Developed Peak Runoff:</b>	<b>0.035 cfs</b>			0.2S =	0.90	0.2S =
Post Developed Total Volume:	517.5 CF					0.04

### BIO CELL ROUTING

<b>Bio-Cell Data:</b>			<b>Overflow Data:</b>
Bottom Length	8.6 FT		Diameter
Bottom Width	7.0 FT		Elevation
Side Slope	0.05 Horizontal: 1 Vertical		Circ.
Bottom Area	60 SF		Grate SF
Bio-Cell Max. Water Depth	0.8 FT		
Soil Media Depth	1.5 IN		<b>Routing Results:</b>
Gravel Layer Depth	1.5 FT		MAX STORAGE =
Soil Media porosity	25%		MAX OUTLET =
Gravel Layer porosity	40%		MAX Infiltration =
Infiltration Rate	5 in/hr		MAX Bypass =
Infl Safety Factor	2		

BioCell Inflow/Outflow Hydrograph





(1) Time Increment	(2) Time (Min)	(3) Rainfall Distribution (% of Pt)	(4) Incremen- tal Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0002	0.0002	0.0	0.0
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0007	0.0007	0.0	0.0
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0011	0.0011	0.0	0.0
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0015	0.0015	0.0	0.0
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0018	0.0018	0.0	0.0
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0020	0.0020	0.0	0.0
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0022	0.0022	0.0	0.0
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0024	0.0024	0.0	0.0
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0032	0.0032	0.0	0.0
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0034	0.0034	0.0	0.0
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0035	0.0035	0.0	0.0
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0036	0.0036	0.0	0.0
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0037	0.0037	0.0	0.0
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0038	0.0038	0.0	0.0
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0047	0.0047	0.0	0.0
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0048	0.0048	0.0	0.0
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0049	0.0049	0.0	0.0
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0050	0.0050	0.0	0.0
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0050	0.0050	0.0	0.0
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0051	0.0051	0.0	0.0
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0060	0.0060	0.0	0.0
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0061	0.0061	0.0	0.0
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0061	0.0061	0.0	0.0
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0062	0.0062	0.0	0.0
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0062	0.0062	0.0	0.0
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0062	0.0062	0.0	0.0
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0073	0.0073	0.0	0.0
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0074	0.0074	0.0	0.0
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0074	0.0074	0.0	0.0
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0074	0.0074	0.0	0.0
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0075	0.0075	0.0	0.0
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0075	0.0075	0.0	0.0
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0089	0.0089	0.0	0.0
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0095	0.0095	0.0	0.0
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0101	0.0101	0.0	0.0
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0107	0.0107	0.0	0.0
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0113	0.0113	0.0	0.0
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0119	0.0119	0.0	0.0
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0178	0.0178	0.0	0.0
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0188	0.0188	0.0	0.0
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0199	0.0199	0.0	0.0
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0283	0.0283	0.0	0.0
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0300	0.0300	0.0	0.0
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0609	0.0609	0.0	0.0
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1074	0.1074	0.0	0.0
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0582	0.0582	0.0	0.0
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0403	0.0403	0.0	0.0
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0307	0.0307	0.0	0.0
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0314	0.0314	0.0	0.0
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0320	0.0320	0.0	0.0
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0213	0.0213	0.0	0.0
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0215	0.0215	0.0	0.0
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0218	0.0218	0.0	0.0
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0220	0.0220	0.0	0.0
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0223	0.0223	0.0	0.0
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0225	0.0225	0.0	0.0
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0227	0.0227	0.0	0.0
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0229	0.0229	0.0	0.0
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0231	0.0231	0.0	0.0
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0233	0.0233	0.0	0.0
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0235	0.0235	0.0	0.0
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0237	0.0237	0.0	0.0
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0196	0.0196	0.0	0.0
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0197	0.0197	0.0	0.0
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0198	0.0198	0.0	0.0
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0200	0.0200	0.0	0.0
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0201	0.0201	0.0	0.0
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0202	0.0202	0.0	0.0

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0203	0.0	0.0
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0204	0.0	0.0
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0206	0.0	0.0
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0207	0.0	0.0
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0208	0.0	0.0
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0209	0.0	0.0
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0166	0.0	0.0
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0167	0.0	0.0
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0168	0.0	0.0
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0168	0.0	0.0
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0169	0.0	0.0
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0170	0.0	0.0
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0170	0.0	0.0
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0171	0.0	0.0
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0172	0.0	0.0
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0172	0.0	0.0
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0173	0.0	0.0
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0173	0.0	0.0
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0153	0.0	0.0
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0153	0.0	0.0
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0154	0.0	0.0
92	920	0.0050	0.0225	3.5280	0.9707	0.0135	3.2944	0.0224	0.0154	0.0	0.0
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0154	0.0	0.0
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0155	0.0	0.0
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0155	0.0	0.0
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0156	0.0	0.0
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0156	0.0	0.0
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0157	0.0	0.0
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0157	0.0	0.0
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0157	0.0	0.0
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0126	0.0	0.0
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0127	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0127	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0127	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0127	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0128	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0128	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0128	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0128	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0129	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0129	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0129	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0129	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0130	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0130	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0130	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0130	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0131	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0131	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0131	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0131	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0131	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0132	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0132	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0132	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0132	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0133	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0133	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0133	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0133	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0133	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0134	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0134	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0134	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0134	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0134	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0135	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0135	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0135	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0135	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0135	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0136	0.0	0.0

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distribution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0136	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0136	0.0	0.0
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet) 471	

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff  (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0002	0.0	0.0	
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0010	0.0	0.0	
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0016	0.0	0.0	
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0021	0.0	0.0	
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0025	0.0	0.0	
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0028	0.0	0.0	
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0031	0.0	0.0	
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0033	0.0	0.0	
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0044	0.0	0.0	
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0046	0.0	0.0	
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0048	0.0	0.0	
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0050	0.0	0.0	
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0052	0.0	0.0	
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0053	0.0	0.0	
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0065	0.0	0.0	
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0066	0.0	0.0	
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0068	0.0	0.0	
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0069	0.0	0.0	
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0069	0.0	0.0	
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0070	0.0	0.0	
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0083	0.0	0.0	
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0084	0.0	0.0	
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0084	0.0	0.0	
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0085	0.0	0.0	
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0085	0.0	0.0	
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0086	0.0	0.0	
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0101	0.0	0.0	
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0102	0.0	0.0	
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0102	0.0	0.0	
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0102	0.0	0.0	
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0103	0.0	0.0	
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0103	0.0	0.0	
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0121	0.0	0.0	
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0127	0.0	0.0	
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0133	0.0	0.0	
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0139	0.0	0.0	
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0144	0.0	0.0	
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0149	0.0	0.0	
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0219	0.0	0.0	
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0229	0.0	0.0	
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0238	0.0	0.0	
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0334	0.0	0.0	
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0350	0.0	0.0	
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0700	0.0	0.0	
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1209	0.0	0.0	
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0644	0.0	0.0	
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0443	0.0	0.0	
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0337	0.0	0.0	
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0342	0.0	0.0	
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0348	0.0	0.0	
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0231	0.0	0.0	
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0233	0.0	0.0	
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0236	0.0	0.0	
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0238	0.0	0.0	
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0240	0.0	0.0	
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0242	0.0	0.0	
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0244	0.0	0.0	
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0246	0.0	0.0	
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0248	0.0	0.0	
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0250	0.0	0.0	
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0252	0.0	0.0	
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0253	0.0	0.0	
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0209	0.0	0.0	
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0210	0.0	0.0	
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0211	0.0	0.0	
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0212	0.0	0.0	
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0213	0.0	0.0	
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0214	0.0	0.0	



(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0215	0.0	0.0
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0216	0.0	0.0
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0217	0.0	0.0
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0219	0.0	0.0
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0220	0.0	0.0
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0221	0.0	0.0
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0175	0.0	0.0
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0176	0.0	0.0
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0177	0.0	0.0
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0177	0.0	0.0
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0178	0.0	0.0
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0178	0.0	0.0
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0179	0.0	0.0
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0179	0.0	0.0
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0180	0.0	0.0
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0181	0.0	0.0
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0181	0.0	0.0
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0182	0.0	0.0
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0160	0.0	0.0
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0160	0.0	0.0
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0161	0.0	0.0
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0161	0.0	0.0
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0162	0.0	0.0
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0162	0.0	0.0
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0162	0.0	0.0
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0163	0.0	0.0
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0163	0.0	0.0
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0163	0.0	0.0
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0164	0.0	0.0
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0164	0.0	0.0
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0132	0.0	0.0
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0132	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0132	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0132	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0133	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0133	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0133	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0133	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0134	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0134	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0134	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0134	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0134	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0135	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0135	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0135	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0135	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0135	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0136	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0136	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0136	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0136	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0137	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0137	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0137	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0137	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0137	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0138	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0138	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0138	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0138	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0138	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0138	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0139	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0139	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0139	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0139	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0139	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0140	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0140	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0140	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0140	0.0	0.0



(1) Time Incre- ment	(2) Time  (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0140	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0140	0.0	0.0
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet)	518

## BioCell Storage vs. Outflow

Height	Storage	t = 600 sec								
		Top Length	Top Width	Surface Area (sq ft)	Infiltration (out)	Overflow (out)	S/t	2S/t	O+2S/t	Total Out
0.000	60	8.6	7.0	60	0.0076	0.0000	0.0996	0.1993	0.2068	0.0076
0.025	61	8.6	7.0	60	0.0076	0.0000	0.1021	0.2043	0.2118	0.0076
0.050	63	8.6	7.0	60	0.0076	0.0000	0.1046	0.2093	0.2169	0.0076
0.075	64	8.6	7.0	60	0.0076	0.0000	0.1072	0.2143	0.2219	0.0076
0.100	66	8.6	7.0	60	0.0076	0.0000	0.1097	0.2193	0.2269	0.0076
0.125	67	8.6	7.0	60	0.0076	0.0000	0.1122	0.2244	0.2319	0.0076
0.150	69	8.6	7.0	60	0.0076	0.0000	0.1147	0.2294	0.2370	0.0076
0.175	70	8.6	7.0	60	0.0076	0.0000	0.1172	0.2345	0.2420	0.0076
0.200	72	8.6	7.0	61	0.0076	0.0000	0.1197	0.2395	0.2471	0.0076
0.225	73	8.6	7.0	61	0.0076	0.0000	0.1223	0.2445	0.2521	0.0076
0.250	75	8.6	7.0	61	0.0076	0.0000	0.1248	0.2496	0.2572	0.0076
0.275	76	8.6	7.0	61	0.0076	0.0000	0.1273	0.2546	0.2622	0.0076
0.300	78	8.6	7.0	61	0.0076	0.0000	0.1298	0.2597	0.2673	0.0076
0.325	79	8.6	7.0	61	0.0076	0.0000	0.1324	0.2647	0.2723	0.0076
0.350	81	8.6	7.0	61	0.0076	0.0000	0.1349	0.2698	0.2774	0.0076
0.375	82	8.6	7.0	61	0.0076	0.0000	0.1374	0.2749	0.2824	0.0076
0.400	84	8.6	7.0	61	0.0076	0.0000	0.1400	0.2799	0.2875	0.0076
0.425	86	8.6	7.0	61	0.0076	0.0000	0.1425	0.2850	0.2926	0.0076
0.450	87	8.6	7.0	61	0.0076	0.0000	0.1450	0.2901	0.2977	0.0076
0.475	89	8.6	7.0	61	0.0076	0.0000	0.1476	0.2952	0.3027	0.0076
0.500	90	8.7	7.1	61	0.0076	0.0000	0.1501	0.3002	0.3078	0.0076
0.525	92	8.7	7.1	61	0.0076	0.0000	0.1527	0.3053	0.3129	0.0076
0.550	93	8.7	7.1	61	0.0076	0.0000	0.1552	0.3104	0.3180	0.0076
0.575	95	8.7	7.1	61	0.0076	0.0000	0.1578	0.3155	0.3231	0.0076
0.600	96	8.7	7.1	61	0.0076	0.0000	0.1603	0.3206	0.3282	0.0076
0.625	98	8.7	7.1	61	0.0076	0.0000	0.1628	0.3257	0.3333	0.0076
0.650	99	8.7	7.1	61	0.0076	0.0000	0.1654	0.3308	0.3384	0.0076
0.675	101	8.7	7.1	61	0.0076	0.0000	0.1679	0.3359	0.3435	0.0076
0.700	102	8.7	7.1	61	0.0076	0.0000	0.1705	0.3410	0.3486	0.0076
0.725	104	8.7	7.1	61	0.0076	0.0000	0.1731	0.3461	0.3537	0.0076
0.750	105	8.7	7.1	61	0.0076	0.0000	0.1756	0.3512	0.3588	0.0076
0.775	107	8.7	7.1	61	0.0076	0.0149	0.1782	0.3563	0.3788	0.0225
0.800	108	8.7	7.1	61	0.0076	0.0421	0.1807	0.3615	0.4112	0.0497
0.825	110	8.7	7.1	61	0.0076	0.0774	0.1833	0.3666	0.4516	0.0850
0.850	112	8.7	7.1	62	0.0076	0.1192	0.1859	0.3717	0.4985	0.1268
0.875	113	8.7	7.1	62	0.0076	0.1666	0.1884	0.3768	0.5510	0.1742
0.900	115	8.7	7.1	62	0.0076	0.2190	0.1910	0.3820	0.6086	0.2266
0.925	116	8.7	7.1	62	0.0076	0.2760	0.1936	0.3871	0.6707	0.2836
0.950	118	8.7	7.1	62	0.0076	0.3372	0.1961	0.3922	0.7370	0.3448
0.975	119	8.7	7.1	62	0.0076	0.4024	0.1987	0.3974	0.8073	0.4099
1.000	121	8.7	7.1	62	0.0076	0.4712	0.2013	0.4025	0.8813	0.4788
1.025	122	8.7	7.1	62	0.0076	0.5437	0.2038	0.4077	0.9589	0.5512
1.050	124	8.7	7.1	62	0.0076	0.6195	0.2064	0.4128	1.0399	0.6270
1.075	125	8.7	7.1	62	0.0076	0.6985	0.2090	0.4180	1.1240	0.7061
1.100	127	8.7	7.1	62	0.0076	0.7806	0.2116	0.4232	1.2113	0.7882
1.125	128	8.7	7.1	62	0.0076	0.8657	0.2142	0.4283	1.3016	0.8733
1.150	130	8.7	7.1	62	0.0076	0.9537	0.2167	0.4335	1.3948	0.9613
1.175	132	8.7	7.1	62	0.0076	1.0445	0.2193	0.4386	1.4907	1.0521
1.200	133	8.7	7.1	62	0.0076	1.1380	0.2219	0.4438	1.5894	1.1456

<i>t = 600 sec</i>										
<i>Height</i>	<i>Storage</i>	<i>Top Length</i>	<i>Top Width</i>	<i>Surface Area (sq ft)</i>	<i>Infiltration (out)</i>	<i>Overflow (out)</i>	<i>S/t</i>	<i>2S/t</i>	<i>O+2S/t</i>	<i>Total Out</i>
1.225	135	8.7	7.1	62	0.0076	1.2342	0.2245	0.4490	1.6907	1.2417
1.250	136	8.7	7.1	62	0.0076	1.3329	0.2271	0.4542	1.7946	1.3404
1.275	138	8.7	7.1	62	0.0076	1.4341	0.2297	0.4594	1.9010	1.4416
1.300	139	8.7	7.1	62	0.0076	1.5377	0.2323	0.4645	2.0098	1.5453
1.325	141	8.7	7.1	62	0.0076	1.6437	0.2349	0.4697	2.1210	1.6513
1.350	142	8.7	7.1	62	0.0076	1.7521	0.2375	0.4749	2.2346	1.7597
1.375	144	8.7	7.1	62	0.0076	1.8627	0.2401	0.4801	2.3504	1.8703
1.400	146	8.7	7.1	62	0.0076	1.9756	0.2427	0.4853	2.4685	1.9832
1.425	147	8.7	7.1	62	0.0076	2.0907	0.2453	0.4905	2.5888	2.0983
1.450	149	8.7	7.1	62	0.0076	2.2079	0.2479	0.4957	2.7112	2.2155
1.475	150	8.7	7.1	63	0.0076	2.3272	0.2505	0.5009	2.8357	2.3348
1.500	152	8.8	7.2	63	0.0076	2.4486	0.2531	0.5061	2.9623	2.4562

## BioCell Storage Routing

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
10	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00
20	0.0000	0.0000	0.00	0.00	0.00	0.00	0.01
30	0.0000	0.0002	0.00	0.00	0.00	0.00	0.09
40	0.0002	0.0005	0.00	0.00	0.00	0.00	0.30
50	0.0005	0.0007	0.00	0.00	0.00	0.00	0.63
60	0.0007	0.0008	0.00	0.00	0.00	0.00	1.08
70	0.0008	0.0010	0.00	0.01	0.00	0.01	1.61
80	0.0010	0.0011	0.01	0.01	0.00	0.01	2.22
90	0.0011	0.0012	0.01	0.01	0.00	0.01	2.88
100	0.0012	0.0014	0.01	0.01	0.00	0.01	3.64
110	0.0014	0.0016	0.01	0.02	0.00	0.02	4.55
120	0.0016	0.0017	0.02	0.02	0.00	0.02	5.56
130	0.0017	0.0018	0.02	0.02	0.00	0.02	6.62
140	0.0018	0.0019	0.02	0.03	0.00	0.03	7.71
150	0.0019	0.0019	0.03	0.03	0.00	0.03	8.84
160	0.0019	0.0021	0.03	0.03	0.00	0.03	10.05
170	0.0021	0.0024	0.03	0.04	0.00	0.04	11.41
180	0.0024	0.0024	0.04	0.04	0.00	0.04	12.86
190	0.0024	0.0025	0.04	0.05	0.00	0.05	14.34
200	0.0025	0.0025	0.05	0.05	0.00	0.05	15.83
210	0.0025	0.0025	0.05	0.06	0.00	0.06	17.35
220	0.0025	0.0028	0.06	0.06	0.00	0.06	18.95
230	0.0028	0.0030	0.06	0.07	0.00	0.07	20.69
240	0.0030	0.0031	0.07	0.08	0.00	0.08	22.51
250	0.0031	0.0031	0.08	0.08	0.00	0.08	24.35
260	0.0031	0.0031	0.08	0.09	0.00	0.09	26.20
270	0.0031	0.0031	0.09	0.09	0.00	0.09	28.07
280	0.0031	0.0034	0.09	0.10	0.00	0.10	30.02
290	0.0034	0.0037	0.10	0.11	0.00	0.11	32.15
300	0.0037	0.0037	0.11	0.11	0.00	0.11	34.37
310	0.0037	0.0037	0.11	0.12	0.00	0.12	36.60
320	0.0037	0.0037	0.12	0.13	0.00	0.13	38.84
330	0.0037	0.0037	0.13	0.14	0.00	0.14	41.08
340	0.0037	0.0041	0.14	0.14	0.00	0.14	43.43
350	0.0041	0.0045	0.14	0.15	0.00	0.15	46.02
360	0.0045	0.0047	0.15	0.16	0.00	0.16	48.79
370	0.0047	0.0049	0.16	0.17	0.00	0.17	51.70
380	0.0049	0.0051	0.17	0.18	0.00	0.18	54.72
390	0.0051	0.0053	0.18	0.19	0.00	0.19	57.87
400	0.0053	0.0067	0.19	0.20	0.00	0.20	61.48
410	0.0067	0.0082	0.20	0.22	0.00	0.22	65.94
420	0.0082	0.0085	0.21	0.23	0.01	0.22	64.13
430	0.0085	0.0104	0.21	0.23	0.01	0.23	65.27
440	0.0104	0.0125	0.22	0.24	0.01	0.23	67.59
450	0.0125	0.0191	0.23	0.26	0.01	0.25	72.52
460	0.0191	0.0347	0.24	0.30	0.01	0.29	84.14
470	0.0347	0.0337	0.28	0.35	0.01	0.34	100.14
480	0.0337	0.0198	0.33	0.39	0.01	0.38	111.65
490	0.0198	0.0142	0.36	0.39	0.02	0.37	103.90
500	0.0142	0.0124	0.36	0.39	0.01	0.38	111.80

<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
510	0.0124	0.0126	0.36	0.38	0.02	0.36	101.32
520	0.0126	0.0105	0.35	0.38	0.01	0.37	108.18
530	0.0105	0.0085	0.36	0.38	0.01	0.37	109.34
540	0.0085	0.0085	0.36	0.38	0.01	0.37	109.90
550	0.0085	0.0086	0.37	0.38	0.01	0.38	110.50
560	0.0086	0.0087	0.37	0.39	0.01	0.38	111.15
570	0.0087	0.0088	0.37	0.39	0.01	0.38	111.85
580	0.0088	0.0088	0.36	0.38	0.02	0.35	99.18
590	0.0088	0.0089	0.35	0.36	0.01	0.36	104.44
600	0.0089	0.0090	0.35	0.37	0.01	0.36	105.26
610	0.0090	0.0091	0.35	0.37	0.01	0.36	106.13
620	0.0091	0.0091	0.35	0.37	0.01	0.36	107.04
630	0.0091	0.0092	0.36	0.38	0.01	0.37	108.00
640	0.0092	0.0084	0.36	0.38	0.01	0.37	108.73
650	0.0084	0.0076	0.36	0.38	0.01	0.37	109.00
660	0.0076	0.0077	0.36	0.38	0.01	0.37	109.04
670	0.0077	0.0077	0.36	0.38	0.01	0.37	109.10
680	0.0077	0.0077	0.36	0.38	0.01	0.37	109.19
690	0.0077	0.0078	0.36	0.38	0.01	0.37	109.31
700	0.0078	0.0078	0.36	0.38	0.01	0.37	109.45
710	0.0078	0.0079	0.36	0.38	0.01	0.37	109.61
720	0.0079	0.0079	0.37	0.38	0.01	0.37	109.79
730	0.0079	0.0079	0.37	0.38	0.01	0.37	110.00
740	0.0079	0.0080	0.37	0.38	0.01	0.38	110.23
750	0.0080	0.0080	0.37	0.38	0.01	0.38	110.49
760	0.0080	0.0072	0.37	0.38	0.01	0.38	110.51
770	0.0072	0.0064	0.37	0.38	0.01	0.37	110.05
780	0.0064	0.0064	0.37	0.38	0.01	0.37	109.35
790	0.0064	0.0064	0.36	0.38	0.01	0.37	108.67
800	0.0064	0.0065	0.36	0.38	0.01	0.37	107.99
810	0.0065	0.0065	0.36	0.37	0.01	0.37	107.33
820	0.0065	0.0065	0.36	0.37	0.01	0.36	106.69
830	0.0065	0.0065	0.36	0.37	0.01	0.36	106.05
840	0.0065	0.0065	0.35	0.37	0.01	0.36	105.43
850	0.0065	0.0066	0.35	0.36	0.01	0.36	104.82
860	0.0066	0.0066	0.35	0.36	0.01	0.35	104.23
870	0.0066	0.0066	0.35	0.36	0.01	0.35	103.64
880	0.0066	0.0062	0.35	0.36	0.01	0.35	102.95
890	0.0062	0.0058	0.34	0.36	0.01	0.35	102.02
900	0.0058	0.0058	0.34	0.35	0.01	0.34	100.98
910	0.0058	0.0059	0.34	0.35	0.01	0.34	99.95
920	0.0059	0.0059	0.33	0.34	0.01	0.34	98.93
930	0.0059	0.0059	0.33	0.34	0.01	0.33	97.91
940	0.0059	0.0059	0.33	0.34	0.01	0.33	96.91
950	0.0059	0.0059	0.32	0.33	0.01	0.33	95.91
960	0.0059	0.0059	0.32	0.33	0.01	0.32	94.92
970	0.0059	0.0059	0.32	0.33	0.01	0.32	93.94
980	0.0059	0.0060	0.31	0.33	0.01	0.32	92.97
990	0.0060	0.0060	0.31	0.32	0.01	0.31	92.01
1000	0.0060	0.0054	0.31	0.32	0.01	0.31	90.87
1010	0.0054	0.0048	0.30	0.31	0.01	0.31	89.39
1020	0.0048	0.0048	0.30	0.31	0.01	0.30	87.73
1030	0.0048	0.0048	0.29	0.30	0.01	0.29	86.07

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1040	0.0048	0.0048	0.29	0.30	0.01	0.29	84.42
1050	0.0048	0.0048	0.28	0.29	0.01	0.28	82.77
1060	0.0048	0.0048	0.28	0.29	0.01	0.28	81.13
1070	0.0048	0.0048	0.27	0.28	0.01	0.27	79.50
1080	0.0048	0.0049	0.26	0.27	0.01	0.27	77.87
1090	0.0049	0.0049	0.26	0.27	0.01	0.26	76.24
1100	0.0049	0.0049	0.25	0.26	0.01	0.26	74.62
1110	0.0049	0.0049	0.25	0.26	0.01	0.25	73.01
1120	0.0049	0.0049	0.24	0.25	0.01	0.25	71.39
1130	0.0049	0.0049	0.24	0.25	0.01	0.24	69.79
1140	0.0049	0.0049	0.23	0.24	0.01	0.23	68.19
1150	0.0049	0.0049	0.23	0.24	0.01	0.23	66.59
1160	0.0049	0.0049	0.22	0.23	0.01	0.22	65.00
1170	0.0049	0.0049	0.22	0.23	0.01	0.22	63.41
1180	0.0049	0.0049	0.21	0.22	0.01	0.21	61.83
1190	0.0049	0.0049	0.21	0.22	0.01	0.21	60.25
1200	0.0049	0.0050	0.20	0.21	0.01	0.20	58.68
1210	0.0050	0.0050	0.20	0.21	0.00	0.21	63.92
1220	0.0050	0.0050	0.21	0.22	0.01	0.21	60.08
1230	0.0050	0.0050	0.20	0.21	0.01	0.20	58.52
1240	0.0050	0.0050	0.20	0.21	0.00	0.21	63.78
1250	0.0050	0.0050	0.21	0.21	0.01	0.21	59.96
1260	0.0050	0.0050	0.20	0.21	0.01	0.20	58.41
1270	0.0050	0.0050	0.20	0.21	0.00	0.21	63.68
1280	0.0050	0.0050	0.20	0.21	0.01	0.21	59.87
1290	0.0050	0.0050	0.20	0.21	0.01	0.20	58.34
1300	0.0050	0.0050	0.20	0.21	0.00	0.21	63.62
1310	0.0050	0.0050	0.20	0.21	0.01	0.21	59.82
1320	0.0050	0.0050	0.20	0.21	0.01	0.20	58.30
1330	0.0050	0.0050	0.20	0.21	0.00	0.21	63.60
1340	0.0050	0.0051	0.20	0.21	0.01	0.21	59.81
1350	0.0051	0.0051	0.20	0.21	0.01	0.20	58.31
1360	0.0051	0.0051	0.20	0.21	0.00	0.21	63.61
1370	0.0051	0.0051	0.20	0.21	0.01	0.21	59.84
1380	0.0051	0.0051	0.20	0.21	0.01	0.20	58.34
1390	0.0051	0.0051	0.20	0.21	0.00	0.21	63.66
1400	0.0051	0.0051	0.20	0.21	0.01	0.21	59.90
1410	0.0051	0.0051	0.20	0.21	0.01	0.20	58.42
1420	0.0051	0.0051	0.20	0.21	0.00	0.21	63.75
1430	0.0051	0.0051	0.20	0.22	0.01	0.21	60.00
1440	0.0051	0.0000	0.20	0.21	0.01	0.20	57.00
1450	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1460	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1470	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1480	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1490	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1500	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1510	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1520	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1530	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1540	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1550	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1560	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1570	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1580	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1590	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1600	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1610	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1620	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1630	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1640	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1650	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1660	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1670	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1680	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1690	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1700	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1710	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1720	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1730	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1740	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1750	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1760	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1770	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1780	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1790	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1800	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1810	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1820	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1830	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1840	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1850	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1860	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1870	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1880	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1890	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1900	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1910	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1920	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1930	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1940	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1950	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1960	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1970	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1980	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
1990	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2000	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2010	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2020	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2030	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2040	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2050	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2060	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2070	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2080	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2090	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2100	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2110	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2120	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2130	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2140	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2150	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2160	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2170	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2180	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2190	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2200	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2210	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2220	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2230	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2240	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2250	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2260	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2270	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2280	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2290	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2300	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2310	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2320	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2330	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2340	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2350	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2360	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2370	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2380	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2390	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2400	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2410	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2420	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2430	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2440	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2450	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2460	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2470	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2480	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2490	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2500	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2510	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2520	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2530	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2540	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2550	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2560	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2570	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2580	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2590	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2600	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2610	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2620	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27



<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2630	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2640	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2650	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2660	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2670	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2680	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2690	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2700	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2710	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2720	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2730	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2740	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2750	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2760	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2770	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2780	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2790	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2800	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2810	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2820	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2830	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2840	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2850	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2860	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2870	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27
2880	0.0000	0.0000	0.20	0.20	0.00	0.20	59.27

Project: Fir Ave.  
 Project Number: 3269  
 Date: 4/11/18  
 Basin: Swale 4/5/6  
 Event: 25-yr

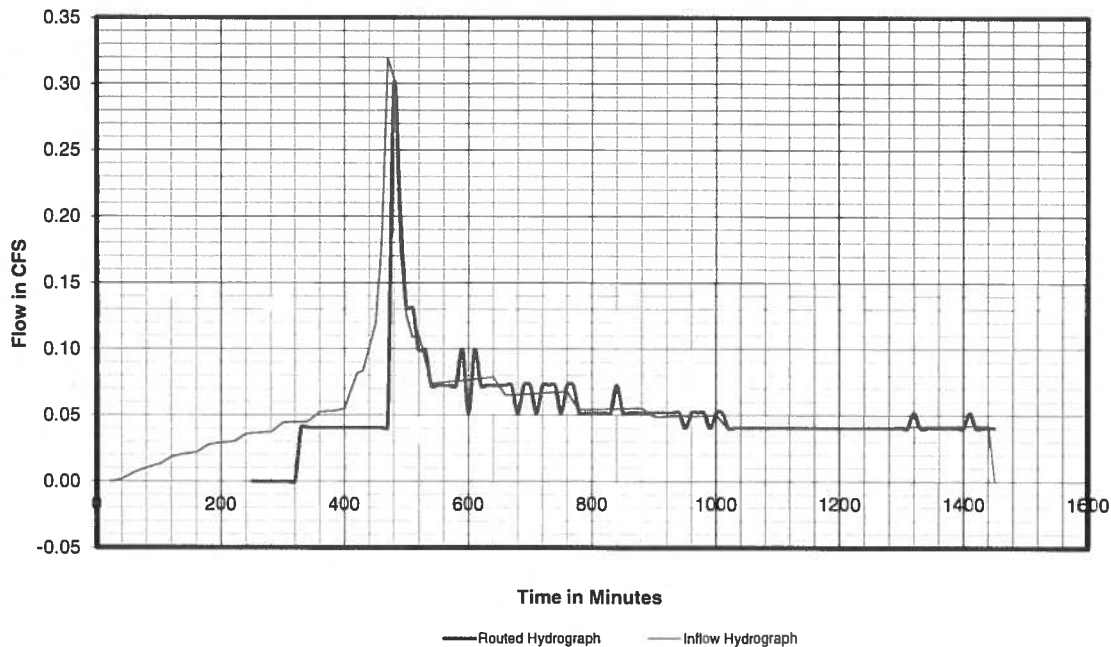
## INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>		<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	24440	24440 SF		<b>Pervious Area:</b>	Area = 0.1915 acres
Area =	0.56	0.56 acres		Area =	0.3696 acres
Pt =	3.9	3.9 inches		CN =	69
dt =	10	10 min		S =	4.49
Tc =	5	5 min		0.2S =	0.90
w =	0.5	0.5 Rout. Con.			
<b>Hydrograph Results:</b>				<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>
<b>Pre-Developed Peak Runoff:</b>	<b>0.276 cfs</b>			<b>Pervious Area:</b>	Area = 0.2450 acres
Pre Developed Total Volume:	4148.5 CF			Area =	0.3161 acres
				CN =	69
				S =	4.49
<b>Post-Developed Peak Runoff:</b>	<b>0.319 cfs</b>			0.2S =	0.90
Post Developed Total Volume:	4626.3 CF				

## BIO CELL ROUTING

<b>Bio-Cell Data:</b>			<b>Overflow Data:</b>
Bottom Length	60.5 FT		Diameter 6 IN x3
Bottom Width	7.0 FT		Elevation 1 FT
Side Slope	0.05 Horizontal: 1 Vertical		Circ. 1.57 FT
Bottom Area	424 SF		Grate SF 0.8
Bio-Cell Max. Water Depth	1 FT		
Soil Media Depth	1.5 IN		<b>Routing Results:</b>
Gravel Layer Depth	1.5 FT		<b>MAX STORAGE = 966.2 Cu Ft</b>
Soil Media porosity	25%		<b>MAX OUTLET = 0.296 cfs</b>
Gravel Layer porosity	40%		<b>MAX Infiltration = 0.041 cfs</b>
Infiltration Rate	5 in/hr		<b>MAX Bypass = 0.256 cfs</b>
Infil Safety Factor	2		

BioCell Inflow/Outflow Hydrograph





**Project:** Fir Ave.  
**Project Number:** 3269  
**Date:** 4/11/18  
**Basin:** Swale 4/5/6  
**Event:** 100-yr

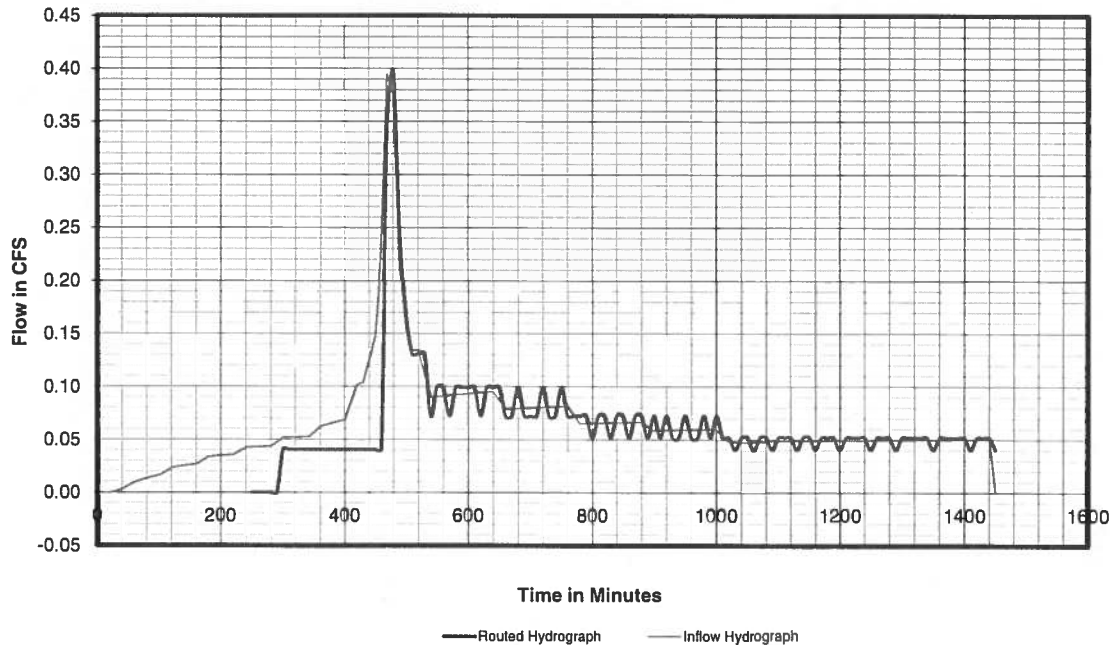
### INFLOW HYDROGRAPH

<b>Hydrograph Data:</b>		<b>Pre-</b>	<b>Post-</b>	<b>PRE-DEVELOPED</b>	<b>Impervious Area:</b>
Site Area =	24440	24440 SF		<b>Pervious Area:</b>	Area = 0.1915 acres
Area =	0.56	0.56 acres		Area =	0.3696 acres
Pt =	4.5	4.5 inches		CN =	69
dt =	10	10 min		S =	4.49
Tc =	5	5 min		0.2S =	0.90
w =	0.5	0.5 Rout. Con.			
<b>Hydrograph Results:</b>				<b>POST-DEVELOPED</b>	<b>Impervious Area:</b>
Pre-Developed Peak Runoff:	0.348 cfs			<b>Pervious Area:</b>	Area = 0.2450 acres
Pre Developed Total Volume:	5099.2 CF			Area =	0.3161 acres
				CN =	69
				S =	4.49
Post-Developed Peak Runoff:	0.394 cfs			0.2S =	0.90
Post Developed Total Volume:	5615.6 CF				

### BIO CELL ROUTING

<b>Bio-Cell Data:</b>		<b>Overflow Data:</b>	
Bottom Length	60.5 FT	Diameter	6 IN x3
Bottom Width	7.0 FT	Elevation	1 FT
Side Slope	0.05 Horizontal: 1 Vertical	Circ.	1.57 FT
Bottom Area	424 SF	Grate SF	0.8
Bio-Cell Max. Water Depth	1 FT		
Soil Media Depth	1.5 IN		
Gravel Layer Depth	1.5 FT		
Soil Media porosity	25%		
Gravel Layer porosity	40%		
Infiltration Rate	5 in/hr		
Infl Safety Factor	2		
		<b>Routing Results:</b>	
		MAX STORAGE =	985.5 Cu Ft
		MAX OUTLET =	0.398 cfs
		MAX Infiltration =	0.041 cfs
		MAX Bypass =	0.358 cfs

BioCell Inflow/Outflow Hydrograph





(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accum- lated Rainfall (in)	Pervious Area		Impervious Area		(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
					(6) Accum- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accum- lated Runoff (in)	(9) Incre- mental Runoff (in)			
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0003	0.0	0.0
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0011	0.0	0.0
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0018	0.0	0.0
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0024	0.0	0.0
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0029	0.0	0.0
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0033	0.0	0.0
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0036	0.0	0.0
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0039	0.0	0.0
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0051	0.0	0.0
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0054	0.0	0.0
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0057	0.0	0.0
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0059	0.0	0.0
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0061	0.0	0.0
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0062	0.0	0.0
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0076	0.0	0.0
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0078	0.0	0.0
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0079	0.0	0.0
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0080	0.0	0.0
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0081	0.0	0.0
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0082	0.0	0.0
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0097	0.0	0.0
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0098	0.0	0.0
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0099	0.0	0.0
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0100	0.0	0.0
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0100	0.0	0.0
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0101	0.0	0.0
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0119	0.0	0.0
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0119	0.0	0.0
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0120	0.0	0.0
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0120	0.0	0.0
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0121	0.0	0.0
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0121	0.0	0.0
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0142	0.0	0.0
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0148	0.1	0.0
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0153	0.1	0.1
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0158	0.1	0.1
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0163	0.1	0.1
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0168	0.1	0.1
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0246	0.1	0.1
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0255	0.1	0.1
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0264	0.1	0.1
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0367	0.1	0.1
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0382	0.1	0.1
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0758	0.3	0.2
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1294	0.4	0.3
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0684	0.2	0.3
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0469	0.2	0.2
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0355	0.1	0.1
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0361	0.1	0.1
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0366	0.1	0.1
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0243	0.1	0.1
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0245	0.1	0.1
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0247	0.1	0.1
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0249	0.1	0.1
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0251	0.1	0.1
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0253	0.1	0.1
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0255	0.1	0.1
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0256	0.1	0.1
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0258	0.1	0.1
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0260	0.1	0.1
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0262	0.1	0.1
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0263	0.1	0.1
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0217	0.1	0.1
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0218	0.1	0.1
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0219	0.1	0.1
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0220	0.1	0.1
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0221	0.1	0.1
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0222	0.1	0.1

(1) Time Increment	(2) Time  (Min)	(3) Rainfall Distribution (% of Pt)	(4) Incremental Rainfall (in)	(5) Accumulated Rainfall (in)	(6) Accumulated Runoff (in)	(7) Incremental Runoff (in)	(8) Accumulated Runoff (in)	(9) Incremental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydrograph (cfs)	(12) Design Hydrograph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0223	0.1	0.1
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0224	0.1	0.1
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0225	0.1	0.1
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0226	0.1	0.1
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0227	0.1	0.1
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0228	0.1	0.1
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0181	0.1	0.1
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0182	0.1	0.1
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0182	0.1	0.1
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0183	0.1	0.1
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0183	0.1	0.1
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0184	0.1	0.1
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0184	0.1	0.1
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0185	0.1	0.1
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0185	0.1	0.1
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0186	0.1	0.1
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0186	0.1	0.1
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0187	0.1	0.1
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0164	0.1	0.1
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0165	0.1	0.1
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0165	0.1	0.1
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0166	0.1	0.1
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0166	0.1	0.1
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0166	0.1	0.1
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0167	0.1	0.1
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0167	0.1	0.1
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0167	0.1	0.1
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0168	0.1	0.1
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0168	0.1	0.1
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0169	0.1	0.1
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0135	0.0	0.1
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0135	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0135	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0136	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0136	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0136	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0136	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0137	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0137	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0137	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0137	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0137	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0138	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0138	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0138	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0138	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0138	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0139	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0139	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0139	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0139	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0139	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0140	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0140	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0140	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0140	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0140	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0141	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0141	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0141	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0141	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0141	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0141	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0142	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0142	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0142	0.0	0.0
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0142	0.0	0.0
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0142	0.0	0.0
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0142	0.0	0.0
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0143	0.0	0.0
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0143	0.0	0.0
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0143	0.0	0.0

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0143	0.0	0.0
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0143	0.0	0.0

Total 1.0000 4.5000

Hydrograph Volume  
(Cubic Feet)

5099



(1) Time Increment	(2) Time (Min)	(3) Rainfall Distribution (% of Pt)	(4) Incre- mental Rainfall (in)	Pervious Area			Impervious Area			(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
				(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)				
1	10	0.0040	0.0180	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
2	20	0.0040	0.0180	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0	0.0	
3	30	0.0040	0.0180	0.0540	0.0000	0.0000	0.0008	0.0008	0.0003	0.0	0.0	
4	40	0.0040	0.0180	0.0720	0.0000	0.0000	0.0041	0.0033	0.0015	0.0	0.0	
5	50	0.0040	0.0180	0.0900	0.0000	0.0000	0.0096	0.0054	0.0024	0.0	0.0	
6	60	0.0040	0.0180	0.1080	0.0000	0.0000	0.0166	0.0071	0.0031	0.0	0.0	
7	70	0.0040	0.0180	0.1260	0.0000	0.0000	0.0251	0.0084	0.0037	0.0	0.0	
8	80	0.0040	0.0180	0.1440	0.0000	0.0000	0.0347	0.0096	0.0042	0.0	0.0	
9	90	0.0040	0.0180	0.1620	0.0000	0.0000	0.0451	0.0105	0.0046	0.0	0.0	
10	100	0.0040	0.0180	0.1800	0.0000	0.0000	0.0564	0.0113	0.0049	0.0	0.0	
11	110	0.0050	0.0225	0.2025	0.0000	0.0000	0.0715	0.0150	0.0066	0.0	0.0	
12	120	0.0050	0.0225	0.2250	0.0000	0.0000	0.0874	0.0159	0.0069	0.0	0.0	
13	130	0.0050	0.0225	0.2475	0.0000	0.0000	0.1040	0.0166	0.0073	0.0	0.0	
14	140	0.0050	0.0225	0.2700	0.0000	0.0000	0.1212	0.0172	0.0075	0.0	0.0	
15	150	0.0050	0.0225	0.2925	0.0000	0.0000	0.1390	0.0178	0.0078	0.0	0.0	
16	160	0.0050	0.0225	0.3150	0.0000	0.0000	0.1572	0.0182	0.0079	0.0	0.0	
17	170	0.0060	0.0270	0.3420	0.0000	0.0000	0.1795	0.0223	0.0098	0.0	0.0	
18	180	0.0060	0.0270	0.3690	0.0000	0.0000	0.2024	0.0228	0.0100	0.0	0.0	
19	190	0.0060	0.0270	0.3960	0.0000	0.0000	0.2256	0.0232	0.0101	0.0	0.0	
20	200	0.0060	0.0270	0.4230	0.0000	0.0000	0.2491	0.0236	0.0103	0.0	0.0	
21	210	0.0060	0.0270	0.4500	0.0000	0.0000	0.2730	0.0239	0.0104	0.0	0.0	
22	220	0.0060	0.0270	0.4770	0.0000	0.0000	0.2972	0.0241	0.0105	0.0	0.0	
23	230	0.0070	0.0315	0.5085	0.0000	0.0000	0.3256	0.0284	0.0124	0.0	0.0	
24	240	0.0070	0.0315	0.5400	0.0000	0.0000	0.3543	0.0287	0.0125	0.0	0.0	
25	250	0.0070	0.0315	0.5715	0.0000	0.0000	0.3833	0.0290	0.0126	0.0	0.0	
26	260	0.0070	0.0315	0.6030	0.0000	0.0000	0.4125	0.0292	0.0127	0.0	0.0	
27	270	0.0070	0.0315	0.6345	0.0000	0.0000	0.4418	0.0294	0.0128	0.0	0.0	
28	280	0.0070	0.0315	0.6660	0.0000	0.0000	0.4713	0.0295	0.0129	0.0	0.0	
29	290	0.0082	0.0369	0.7029	0.0000	0.0000	0.5061	0.0348	0.0152	0.1	0.0	
30	300	0.0082	0.0369	0.7398	0.0000	0.0000	0.5410	0.0349	0.0153	0.1	0.1	
31	310	0.0082	0.0369	0.7767	0.0000	0.0000	0.5761	0.0351	0.0153	0.1	0.1	
32	320	0.0082	0.0369	0.8136	0.0000	0.0000	0.6113	0.0352	0.0154	0.1	0.1	
33	330	0.0082	0.0369	0.8505	0.0000	0.0000	0.6467	0.0353	0.0154	0.1	0.1	
34	340	0.0082	0.0369	0.8874	0.0000	0.0000	0.6821	0.0355	0.0155	0.1	0.1	
35	350	0.0095	0.0428	0.9302	0.0002	0.0002	0.7233	0.0412	0.0181	0.1	0.1	
36	360	0.0095	0.0428	0.9729	0.0012	0.0010	0.7647	0.0413	0.0186	0.1	0.1	
37	370	0.0095	0.0428	1.0157	0.0030	0.0018	0.8061	0.0414	0.0191	0.1	0.1	
38	380	0.0095	0.0428	1.0584	0.0055	0.0025	0.8476	0.0415	0.0195	0.1	0.1	
39	390	0.0095	0.0428	1.1012	0.0087	0.0032	0.8892	0.0416	0.0200	0.1	0.1	
40	400	0.0095	0.0428	1.1439	0.0127	0.0040	0.9309	0.0417	0.0204	0.1	0.1	
41	410	0.0134	0.0603	1.2042	0.0195	0.0068	0.9898	0.0589	0.0295	0.1	0.1	
42	420	0.0134	0.0603	1.2645	0.0276	0.0081	1.0488	0.0590	0.0303	0.1	0.1	
43	430	0.0134	0.0603	1.3248	0.0369	0.0094	1.1079	0.0591	0.0311	0.1	0.1	
44	440	0.0180	0.0810	1.4058	0.0515	0.0145	1.1874	0.0796	0.0429	0.1	0.1	
45	450	0.0180	0.0810	1.4868	0.0681	0.0166	1.2671	0.0797	0.0442	0.1	0.1	
46	460	0.0340	0.1530	1.6398	0.1050	0.0369	1.4180	0.1509	0.0866	0.3	0.2	
47	470	0.0540	0.2430	1.8828	0.1769	0.0719	1.6583	0.2403	0.1454	0.5	0.4	
48	480	0.0270	0.1215	2.0043	0.2184	0.0415	1.7786	0.1204	0.0759	0.3	0.4	
49	490	0.0180	0.0810	2.0853	0.2480	0.0296	1.8589	0.0803	0.0517	0.2	0.2	
50	500	0.0134	0.0603	2.1456	0.2709	0.0230	1.9187	0.0598	0.0391	0.1	0.2	
51	510	0.0134	0.0603	2.2059	0.2947	0.0237	1.9786	0.0598	0.0395	0.1	0.1	
52	520	0.0134	0.0603	2.2662	0.3192	0.0245	2.0384	0.0599	0.0399	0.1	0.1	
53	530	0.0088	0.0396	2.3058	0.3357	0.0165	2.0778	0.0393	0.0265	0.1	0.1	
54	540	0.0088	0.0396	2.3454	0.3524	0.0168	2.1171	0.0393	0.0266	0.1	0.1	
55	550	0.0088	0.0396	2.3850	0.3695	0.0171	2.1564	0.0393	0.0268	0.1	0.1	
56	560	0.0088	0.0396	2.4246	0.3869	0.0174	2.1958	0.0393	0.0270	0.1	0.1	
57	570	0.0088	0.0396	2.4642	0.4046	0.0177	2.2352	0.0394	0.0271	0.1	0.1	
58	580	0.0088	0.0396	2.5038	0.4226	0.0180	2.2745	0.0394	0.0273	0.1	0.1	
59	590	0.0088	0.0396	2.5434	0.4408	0.0182	2.3139	0.0394	0.0275	0.1	0.1	
60	600	0.0088	0.0396	2.5830	0.4593	0.0185	2.3533	0.0394	0.0276	0.1	0.1	
61	610	0.0088	0.0396	2.6226	0.4781	0.0188	2.3927	0.0394	0.0278	0.1	0.1	
62	620	0.0088	0.0396	2.6622	0.4972	0.0190	2.4320	0.0394	0.0279	0.1	0.1	
63	630	0.0088	0.0396	2.7018	0.5165	0.0193	2.4714	0.0394	0.0281	0.1	0.1	
64	640	0.0088	0.0396	2.7414	0.5360	0.0196	2.5108	0.0394	0.0282	0.1	0.1	
65	650	0.0072	0.0324	2.7738	0.5522	0.0162	2.5431	0.0322	0.0232	0.1	0.1	
66	660	0.0072	0.0324	2.8062	0.5686	0.0164	2.5753	0.0322	0.0233	0.1	0.1	
67	670	0.0072	0.0324	2.8386	0.5851	0.0165	2.6076	0.0322	0.0234	0.1	0.1	
68	680	0.0072	0.0324	2.8710	0.6018	0.0167	2.6398	0.0323	0.0235	0.1	0.1	
69	690	0.0072	0.0324	2.9034	0.6186	0.0168	2.6721	0.0323	0.0236	0.1	0.1	
70	700	0.0072	0.0324	2.9358	0.6356	0.0170	2.7043	0.0323	0.0237	0.1	0.1	

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distribution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
71	710	0.0072	0.0324	2.9682	0.6527	0.0171	2.7366	0.0323	0.0237	0.1	0.1
72	720	0.0072	0.0324	3.0006	0.6700	0.0173	2.7689	0.0323	0.0238	0.1	0.1
73	730	0.0072	0.0324	3.0330	0.6875	0.0174	2.8011	0.0323	0.0239	0.1	0.1
74	740	0.0072	0.0324	3.0654	0.7050	0.0176	2.8334	0.0323	0.0240	0.1	0.1
75	750	0.0072	0.0324	3.0978	0.7228	0.0177	2.8657	0.0323	0.0241	0.1	0.1
76	760	0.0072	0.0324	3.1302	0.7406	0.0179	2.8979	0.0323	0.0242	0.1	0.1
77	770	0.0057	0.0257	3.1559	0.7549	0.0142	2.9235	0.0256	0.0192	0.1	0.1
78	780	0.0057	0.0257	3.1815	0.7692	0.0143	2.9491	0.0256	0.0192	0.1	0.1
79	790	0.0057	0.0257	3.2072	0.7836	0.0144	2.9746	0.0256	0.0193	0.1	0.1
80	800	0.0057	0.0257	3.2328	0.7981	0.0145	3.0002	0.0256	0.0193	0.1	0.1
81	810	0.0057	0.0257	3.2585	0.8127	0.0146	3.0257	0.0256	0.0194	0.1	0.1
82	820	0.0057	0.0257	3.2841	0.8274	0.0147	3.0513	0.0256	0.0194	0.1	0.1
83	830	0.0057	0.0257	3.3098	0.8421	0.0147	3.0768	0.0256	0.0195	0.1	0.1
84	840	0.0057	0.0257	3.3354	0.8569	0.0148	3.1024	0.0256	0.0195	0.1	0.1
85	850	0.0057	0.0257	3.3611	0.8718	0.0149	3.1280	0.0256	0.0196	0.1	0.1
86	860	0.0057	0.0257	3.3867	0.8868	0.0150	3.1535	0.0256	0.0196	0.1	0.1
87	870	0.0057	0.0257	3.4124	0.9019	0.0151	3.1791	0.0256	0.0197	0.1	0.1
88	880	0.0057	0.0257	3.4380	0.9170	0.0151	3.2047	0.0256	0.0197	0.1	0.1
89	890	0.0050	0.0225	3.4605	0.9304	0.0133	3.2271	0.0224	0.0173	0.1	0.1
90	900	0.0050	0.0225	3.4830	0.9438	0.0134	3.2495	0.0224	0.0173	0.1	0.1
91	910	0.0050	0.0225	3.5055	0.9572	0.0135	3.2720	0.0224	0.0174	0.1	0.1
92	920	0.0050	0.0225	3.5280	0.9708	0.0135	3.2944	0.0224	0.0174	0.1	0.1
93	930	0.0050	0.0225	3.5505	0.9843	0.0136	3.3168	0.0224	0.0174	0.1	0.1
94	940	0.0050	0.0225	3.5730	0.9980	0.0136	3.3392	0.0224	0.0175	0.1	0.1
95	950	0.0050	0.0225	3.5955	1.0117	0.0137	3.3617	0.0224	0.0175	0.1	0.1
96	960	0.0050	0.0225	3.6180	1.0254	0.0137	3.3841	0.0224	0.0175	0.1	0.1
97	970	0.0050	0.0225	3.6405	1.0392	0.0138	3.4066	0.0224	0.0176	0.1	0.1
98	980	0.0050	0.0225	3.6630	1.0530	0.0138	3.4290	0.0224	0.0176	0.1	0.1
99	990	0.0050	0.0225	3.6855	1.0670	0.0139	3.4514	0.0224	0.0176	0.1	0.1
100	1000	0.0050	0.0225	3.7080	1.0809	0.0140	3.4739	0.0224	0.0177	0.1	0.1
101	1010	0.0040	0.0180	3.7260	1.0921	0.0112	3.4918	0.0180	0.0141	0.0	0.1
102	1020	0.0040	0.0180	3.7440	1.1033	0.0112	3.5098	0.0180	0.0142	0.0	0.0
103	1030	0.0040	0.0180	3.7620	1.1146	0.0113	3.5277	0.0180	0.0142	0.0	0.0
104	1040	0.0040	0.0180	3.7800	1.1259	0.0113	3.5457	0.0180	0.0142	0.0	0.0
105	1050	0.0040	0.0180	3.7980	1.1373	0.0113	3.5636	0.0180	0.0142	0.0	0.0
106	1060	0.0040	0.0180	3.8160	1.1486	0.0114	3.5816	0.0180	0.0142	0.0	0.0
107	1070	0.0040	0.0180	3.8340	1.1600	0.0114	3.5995	0.0180	0.0143	0.0	0.0
108	1080	0.0040	0.0180	3.8520	1.1715	0.0114	3.6175	0.0180	0.0143	0.0	0.0
109	1090	0.0040	0.0180	3.8700	1.1829	0.0115	3.6354	0.0180	0.0143	0.0	0.0
110	1100	0.0040	0.0180	3.8880	1.1944	0.0115	3.6534	0.0180	0.0143	0.0	0.0
111	1110	0.0040	0.0180	3.9060	1.2059	0.0115	3.6713	0.0180	0.0143	0.0	0.0
112	1120	0.0040	0.0180	3.9240	1.2175	0.0116	3.6893	0.0180	0.0144	0.0	0.0
113	1130	0.0040	0.0180	3.9420	1.2291	0.0116	3.7072	0.0180	0.0144	0.0	0.0
114	1140	0.0040	0.0180	3.9600	1.2407	0.0116	3.7252	0.0180	0.0144	0.0	0.0
115	1150	0.0040	0.0180	3.9780	1.2523	0.0116	3.7432	0.0180	0.0144	0.0	0.0
116	1160	0.0040	0.0180	3.9960	1.2640	0.0117	3.7611	0.0180	0.0144	0.0	0.0
117	1170	0.0040	0.0180	4.0140	1.2757	0.0117	3.7791	0.0180	0.0144	0.0	0.0
118	1180	0.0040	0.0180	4.0320	1.2875	0.0117	3.7970	0.0180	0.0145	0.0	0.0
119	1190	0.0040	0.0180	4.0500	1.2992	0.0118	3.8150	0.0180	0.0145	0.0	0.0
120	1200	0.0040	0.0180	4.0680	1.3110	0.0118	3.8329	0.0180	0.0145	0.0	0.0
121	1210	0.0040	0.0180	4.0860	1.3229	0.0118	3.8509	0.0180	0.0145	0.0	0.0
122	1220	0.0040	0.0180	4.1040	1.3347	0.0119	3.8689	0.0180	0.0145	0.0	0.0
123	1230	0.0040	0.0180	4.1220	1.3466	0.0119	3.8868	0.0180	0.0145	0.0	0.0
124	1240	0.0040	0.0180	4.1400	1.3585	0.0119	3.9048	0.0180	0.0146	0.0	0.0
125	1250	0.0040	0.0180	4.1580	1.3705	0.0119	3.9227	0.0180	0.0146	0.0	0.0
126	1260	0.0040	0.0180	4.1760	1.3824	0.0120	3.9407	0.0180	0.0146	0.0	0.0
127	1270	0.0040	0.0180	4.1940	1.3944	0.0120	3.9587	0.0180	0.0146	0.0	0.0
128	1280	0.0040	0.0180	4.2120	1.4064	0.0120	3.9766	0.0180	0.0146	0.0	0.0
129	1290	0.0040	0.0180	4.2300	1.4185	0.0121	3.9946	0.0180	0.0146	0.0	0.0
130	1300	0.0040	0.0180	4.2480	1.4306	0.0121	4.0125	0.0180	0.0146	0.0	0.0
131	1310	0.0040	0.0180	4.2660	1.4427	0.0121	4.0305	0.0180	0.0147	0.0	0.0
132	1320	0.0040	0.0180	4.2840	1.4548	0.0121	4.0485	0.0180	0.0147	0.0	0.0
133	1330	0.0040	0.0180	4.3020	1.4670	0.0122	4.0664	0.0180	0.0147	0.0	0.0
134	1340	0.0040	0.0180	4.3200	1.4792	0.0122	4.0844	0.0180	0.0147	0.0	0.0
135	1350	0.0040	0.0180	4.3380	1.4914	0.0122	4.1024	0.0180	0.0147	0.0	0.0
136	1360	0.0040	0.0180	4.3560	1.5036	0.0122	4.1203	0.0180	0.0147	0.1	0.1
137	1370	0.0040	0.0180	4.3740	1.5159	0.0123	4.1383	0.0180	0.0148	0.1	0.1
138	1380	0.0040	0.0180	4.3920	1.5282	0.0123	4.1562	0.0180	0.0148	0.1	0.1
139	1390	0.0040	0.0180	4.4100	1.5405	0.0123	4.1742	0.0180	0.0148	0.1	0.1
140	1400	0.0040	0.0180	4.4280	1.5528	0.0123	4.1922	0.0180	0.0148	0.1	0.1
141	1410	0.0040	0.0180	4.4460	1.5652	0.0124	4.2101	0.0180	0.0148	0.1	0.1
142	1420	0.0040	0.0180	4.4640	1.5776	0.0124	4.2281	0.0180	0.0148	0.1	0.1

(1) Time Increment	(2) Time (Min)	(3) Rainfall Distri- bution (% of Pt)	(4) Incre- mental Rainfall (in)	(5) Accumu- lated Rainfall (in)	(6) Accumu- lated Runoff (in)	(7) Incre- mental Runoff (in)	(8) Accumu- lated Runoff (in)	(9) Incre- mental Runoff (in)	(10) Total Runoff (in)	(11) Instant Hydro- graph (cfs)	(12) Design Hydro- graph (cfs)
143	1430	0.0040	0.0180	4.4820	1.5900	0.0124	4.2461	0.0180	0.0148	0.1	0.1
144	1440	0.0040	0.0180	4.5000	1.6024	0.0124	4.2640	0.0180	0.0149	0.1	0.1
Total		1.0000	4.5000							Hydrograph Volume (Cubic Feet)	5616

## BioCell Storage vs. Outflow

Height	Storage	Iop		Surface Area (sq ft)	Infiltration (out)	Overflow (out)	t = 600 sec			Total Out
		Length	Width				S/t	2S/t	O+2S/t	
0.000	418	60.5	7.0	424	0.0406	0.0000	0.6971	1.3941	0	0.0406
0.010	422	60.5	7.0	424	0.0406	0.0000	0.7041	1.4082	0	0.0406
0.020	427	60.5	7.0	424	0.0406	0.0000	0.7112	1.4224	0	0.0406
0.030	431	60.5	7.0	424	0.0406	0.0000	0.7182	1.4365	0	0.0406
0.040	435	60.5	7.0	424	0.0406	0.0000	0.7253	1.4506	0	0.0406
0.050	439	60.5	7.0	424	0.0406	0.0000	0.7324	1.4647	0	0.0406
0.060	444	60.5	7.0	424	0.0406	0.0000	0.7394	1.4789	0	0.0406
0.070	448	60.5	7.0	424	0.0406	0.0000	0.7465	1.4930	0	0.0406
0.080	452	60.5	7.0	424	0.0406	0.0000	0.7536	1.5071	0	0.0406
0.090	456	60.5	7.0	424	0.0406	0.0000	0.7606	1.5213	0	0.0406
0.100	461	60.5	7.0	424	0.0406	0.0000	0.7677	1.5354	0	0.0406
0.110	465	60.5	7.0	424	0.0406	0.0000	0.7748	1.5495	0	0.0406
0.120	469	60.5	7.0	424	0.0406	0.0000	0.7818	1.5637	0	0.0406
0.130	473	60.5	7.0	424	0.0406	0.0000	0.7889	1.5778	0	0.0406
0.140	478	60.5	7.0	424	0.0406	0.0000	0.7960	1.5920	0	0.0406
0.150	482	60.5	7.0	425	0.0406	0.0000	0.8031	1.6061	0	0.0406
0.160	486	60.5	7.0	425	0.0406	0.0000	0.8101	1.6203	0	0.0406
0.170	490	60.5	7.0	425	0.0406	0.0000	0.8172	1.6344	0	0.0406
0.180	495	60.5	7.0	425	0.0406	0.0000	0.8243	1.6486	0	0.0406
0.190	499	60.5	7.0	425	0.0406	0.0000	0.8314	1.6627	0	0.0406
0.200	503	60.5	7.0	425	0.0406	0.0000	0.8385	1.6769	0	0.0406
0.210	507	60.5	7.0	425	0.0406	0.0000	0.8455	1.6911	0	0.0406
0.220	512	60.5	7.0	425	0.0406	0.0000	0.8526	1.7052	0	0.0406
0.230	516	60.5	7.0	425	0.0406	0.0000	0.8597	1.7194	0	0.0406
0.240	520	60.5	7.0	425	0.0406	0.0000	0.8668	1.7336	0	0.0406
0.250	524	60.5	7.0	425	0.0406	0.0000	0.8739	1.7477	0	0.0406
0.260	529	60.5	7.0	425	0.0406	0.0000	0.8810	1.7619	0	0.0406
0.270	533	60.5	7.0	425	0.0406	0.0000	0.8880	1.7761	0	0.0406
0.280	537	60.5	7.0	425	0.0406	0.0000	0.8951	1.7903	0	0.0406
0.290	541	60.5	7.0	425	0.0406	0.0000	0.9022	1.8044	0	0.0406
0.300	546	60.5	7.0	426	0.0406	0.0000	0.9093	1.8186	0	0.0406
0.310	550	60.5	7.0	426	0.0406	0.0000	0.9164	1.8328	0	0.0406
0.320	554	60.5	7.0	426	0.0406	0.0000	0.9235	1.8470	0	0.0406
0.330	558	60.5	7.0	426	0.0406	0.0000	0.9306	1.8612	0	0.0406
0.340	563	60.5	7.0	426	0.0406	0.0000	0.9377	1.8754	0	0.0406
0.350	567	60.5	7.0	426	0.0406	0.0000	0.9448	1.8896	0	0.0406
0.360	571	60.5	7.0	426	0.0406	0.0000	0.9519	1.9038	0	0.0406
0.370	575	60.5	7.0	426	0.0406	0.0000	0.9590	1.9180	0	0.0406
0.380	580	60.5	7.0	426	0.0406	0.0000	0.9661	1.9322	0	0.0406
0.390	584	60.5	7.0	426	0.0406	0.0000	0.9732	1.9464	0	0.0406
0.400	588	60.5	7.0	426	0.0406	0.0000	0.9803	1.9606	0	0.0406
0.410	592	60.5	7.0	426	0.0406	0.0000	0.9874	1.9748	0	0.0406
0.420	597	60.5	7.0	426	0.0406	0.0000	0.9945	1.9890	0	0.0406
0.430	601	60.5	7.0	426	0.0406	0.0000	1.0016	2.0032	0	0.0406
0.440	605	60.5	7.0	426	0.0406	0.0000	1.0087	2.0174	0	0.0406
0.450	609	60.5	7.0	427	0.0406	0.0000	1.0158	2.0316	0	0.0406
0.460	614	60.5	7.0	427	0.0406	0.0000	1.0229	2.0459	0	0.0406
0.470	618	60.5	7.0	427	0.0406	0.0000	1.0300	2.0601	0	0.0406
0.480	622	60.5	7.0	427	0.0406	0.0000	1.0372	2.0743	0	0.0406

<i>t = 600 sec</i>										
<i>Height</i>	<i>Storage</i>	<i>Iop Length</i>	<i>Iop Width</i>	<i>Surface Area (sq ft)</i>	<i>Infiltration (out)</i>	<i>Overflow (out)</i>	<i>S/t</i>	<i>2S/t</i>	<i>O+2S/t</i>	<i>Total Out</i>
0.490	627	60.5	7.0	427	0.0406	0.0000	1.0443	2.0885	2.1291	0.0406
0.500	631	60.6	7.1	427	0.0406	0.0000	1.0514	2.1028	2.1433	0.0406
0.510	635	60.6	7.1	427	0.0406	0.0000	1.0585	2.1170	2.1576	0.0406
0.520	639	60.6	7.1	427	0.0406	0.0000	1.0656	2.1312	2.1718	0.0406
0.530	644	60.6	7.1	427	0.0406	0.0000	1.0727	2.1455	2.1860	0.0406
0.540	648	60.6	7.1	427	0.0406	0.0000	1.0799	2.1597	2.2003	0.0406
0.550	652	60.6	7.1	427	0.0406	0.0000	1.0870	2.1739	2.2145	0.0406
0.560	656	60.6	7.1	427	0.0406	0.0000	1.0941	2.1882	2.2288	0.0406
0.570	661	60.6	7.1	427	0.0406	0.0000	1.1012	2.2024	2.2430	0.0406
0.580	665	60.6	7.1	427	0.0406	0.0000	1.1083	2.2167	2.2572	0.0406
0.590	669	60.6	7.1	427	0.0406	0.0000	1.1155	2.2309	2.2715	0.0406
0.600	674	60.6	7.1	428	0.0406	0.0000	1.1226	2.2452	2.2857	0.0406

## BioCell Storage Routing

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
10	0.0000	0.0000	0.00	0.00	0.00	0.00	0.00
20	0.0000	0.0006	0.00	0.00	0.00	0.00	0.18
30	0.0006	0.0031	0.00	0.00	0.00	0.00	1.27
40	0.0031	0.0065	0.00	0.01	0.00	0.01	4.14
50	0.0065	0.0093	0.01	0.03	0.00	0.03	8.87
60	0.0093	0.0115	0.03	0.05	0.00	0.05	15.10
70	0.0115	0.0133	0.05	0.08	0.00	0.08	22.56
80	0.0133	0.0149	0.08	0.10	0.00	0.10	31.02
90	0.0149	0.0161	0.10	0.13	0.00	0.13	40.33
100	0.0161	0.0195	0.13	0.17	0.00	0.17	51.02
110	0.0195	0.0229	0.17	0.21	0.00	0.21	63.76
120	0.0229	0.0241	0.21	0.26	0.00	0.26	77.87
130	0.0241	0.0251	0.26	0.31	0.00	0.31	92.62
140	0.0251	0.0259	0.31	0.36	0.00	0.36	107.93
150	0.0259	0.0266	0.36	0.41	0.00	0.41	123.71
160	0.0266	0.0301	0.41	0.47	0.00	0.47	140.72
170	0.0301	0.0335	0.47	0.53	0.00	0.53	159.77
180	0.0335	0.0341	0.53	0.60	0.00	0.60	180.05
190	0.0341	0.0347	0.60	0.67	0.00	0.67	200.69
200	0.0347	0.0352	0.67	0.74	0.00	0.74	221.64
210	0.0352	0.0356	0.74	0.81	0.00	0.81	242.87
220	0.0356	0.0390	0.81	0.88	0.00	0.88	265.23
230	0.0390	0.0424	0.88	0.97	0.00	0.97	289.63
240	0.0424	0.0428	0.97	1.05	0.00	1.05	315.17
250	0.0428	0.0431	1.05	1.14	0.00	1.14	340.92
260	0.0431	0.0434	1.14	1.22	0.00	1.22	366.86
270	0.0434	0.0436	1.22	1.31	0.00	1.31	392.96
280	0.0436	0.0476	1.31	1.40	0.00	1.40	420.34
290	0.0476	0.0517	1.40	1.50	0.00	1.50	450.13
300	0.0517	0.0519	1.46	1.56	0.04	1.52	444.68
310	0.0519	0.0521	1.48	1.59	0.04	1.55	451.54
320	0.0521	0.0523	1.51	1.61	0.04	1.57	458.52
330	0.0523	0.0525	1.53	1.63	0.04	1.59	465.61
340	0.0525	0.0570	1.55	1.66	0.04	1.62	474.12
350	0.0570	0.0623	1.58	1.70	0.04	1.66	485.58
360	0.0623	0.0640	1.62	1.74	0.04	1.70	499.12
370	0.0640	0.0656	1.66	1.79	0.04	1.75	513.63
380	0.0656	0.0671	1.71	1.84	0.04	1.80	529.09
390	0.0671	0.0686	1.76	1.90	0.04	1.86	545.46
400	0.0686	0.0848	1.82	1.97	0.04	1.93	567.14
410	0.0848	0.1016	1.89	2.08	0.04	2.04	598.71
420	0.1016	0.1043	2.00	2.20	0.04	2.16	636.12
430	0.1043	0.1256	2.12	2.35	0.04	2.31	680.74
440	0.1256	0.1478	2.27	2.54	0.04	2.50	738.43
450	0.1478	0.2220	2.46	2.83	0.04	2.79	825.05
460	0.2220	0.3939	2.75	3.37	0.04	3.33	985.47
470	0.3939	0.3757	2.98	3.75	0.35	3.40	917.17
480	0.3757	0.2167	3.00	3.60	0.40	3.20	840.28
490	0.2167	0.1541	2.95	3.32	0.25	3.07	845.95
500	0.1541	0.1333	2.90	3.19	0.17	3.02	856.87

<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
510	0.1333	0.1348	2.89	3.16	0.13	3.03	869.48
520	0.1348	0.1127	2.90	3.15	0.13	3.01	865.10
530	0.1127	0.0901	2.88	3.09	0.13	2.96	847.31
540	0.0901	0.0907	2.88	3.06	0.07	2.99	875.57
550	0.0907	0.0913	2.89	3.07	0.10	2.97	862.53
560	0.0913	0.0919	2.88	3.06	0.10	2.96	857.87
570	0.0919	0.0924	2.89	3.07	0.07	3.00	877.66
580	0.0924	0.0930	2.90	3.08	0.10	2.98	865.64
590	0.0930	0.0935	2.89	3.07	0.10	2.97	861.98
600	0.0935	0.0940	2.87	3.06	0.10	2.96	858.64
610	0.0940	0.0946	2.86	3.05	0.10	2.95	855.62
620	0.0946	0.0951	2.88	3.07	0.07	3.00	877.00
630	0.0951	0.0956	2.90	3.09	0.10	2.99	866.55
640	0.0956	0.0873	2.89	3.07	0.10	2.97	861.80
650	0.0873	0.0789	2.87	3.04	0.10	2.94	852.05
660	0.0789	0.0792	2.87	3.03	0.07	2.95	863.99
670	0.0792	0.0795	2.88	3.04	0.07	2.97	868.08
680	0.0795	0.0798	2.87	3.03	0.10	2.93	848.26
690	0.0798	0.0801	2.85	3.01	0.07	2.94	860.76
700	0.0801	0.0804	2.87	3.03	0.07	2.96	865.40
710	0.0804	0.0807	2.88	3.05	0.07	2.97	870.22
720	0.0807	0.0810	2.87	3.04	0.10	2.94	851.11
730	0.0810	0.0813	2.86	3.03	0.07	2.95	864.31
740	0.0813	0.0816	2.88	3.04	0.07	2.97	869.64
750	0.0816	0.0819	2.87	3.04	0.10	2.94	851.04
760	0.0819	0.0736	2.86	3.02	0.07	2.95	862.17
770	0.0736	0.0652	2.87	3.01	0.07	2.94	860.26
780	0.0652	0.0654	2.87	3.00	0.07	2.93	855.89
790	0.0654	0.0655	2.85	2.98	0.07	2.91	851.62
800	0.0655	0.0657	2.86	2.99	0.05	2.94	866.06
810	0.0657	0.0658	2.87	3.00	0.07	2.93	855.78
820	0.0658	0.0660	2.85	2.98	0.07	2.91	851.80
830	0.0660	0.0662	2.86	2.99	0.05	2.94	866.53
840	0.0662	0.0663	2.87	3.00	0.07	2.93	856.54
850	0.0663	0.0665	2.86	2.99	0.07	2.92	852.84
860	0.0665	0.0666	2.86	3.00	0.05	2.94	867.85
870	0.0666	0.0668	2.87	3.01	0.07	2.93	858.13
880	0.0668	0.0628	2.86	2.99	0.07	2.92	853.47
890	0.0628	0.0588	2.87	2.99	0.05	2.94	865.03
900	0.0588	0.0589	2.86	2.98	0.07	2.91	850.62
910	0.0589	0.0590	2.86	2.97	0.05	2.92	861.08
920	0.0590	0.0592	2.85	2.97	0.07	2.90	846.80
930	0.0592	0.0593	2.84	2.96	0.05	2.91	857.40
940	0.0593	0.0594	2.86	2.98	0.05	2.92	861.86
950	0.0594	0.0595	2.85	2.97	0.07	2.90	847.78
960	0.0595	0.0596	2.85	2.97	0.05	2.91	858.57
970	0.0596	0.0597	2.86	2.98	0.05	2.93	863.22
980	0.0597	0.0598	2.86	2.98	0.07	2.90	849.33
990	0.0598	0.0599	2.85	2.97	0.05	2.92	860.31
1000	0.0599	0.0540	2.85	2.96	0.07	2.89	844.73
1010	0.0540	0.0481	2.84	2.94	0.05	2.89	850.42
1020	0.0481	0.0481	2.83	2.93	0.05	2.88	848.15
1030	0.0481	0.0482	2.84	2.93	0.04	2.89	856.10



<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1040	0.0482	0.0483	2.84	2.94	0.05	2.89	850.51
1050	0.0483	0.0483	2.84	2.93	0.05	2.88	848.35
1060	0.0483	0.0484	2.84	2.94	0.04	2.90	856.41
1070	0.0484	0.0484	2.84	2.94	0.05	2.89	850.93
1080	0.0484	0.0485	2.84	2.93	0.05	2.88	848.88
1090	0.0485	0.0486	2.84	2.94	0.04	2.90	857.05
1100	0.0486	0.0486	2.85	2.94	0.05	2.89	851.69
1110	0.0486	0.0487	2.84	2.94	0.05	2.88	849.75
1120	0.0487	0.0487	2.83	2.93	0.05	2.88	847.85
1130	0.0487	0.0488	2.84	2.94	0.04	2.89	856.16
1140	0.0488	0.0489	2.84	2.94	0.05	2.89	850.94
1150	0.0489	0.0489	2.84	2.93	0.05	2.88	849.15
1160	0.0489	0.0490	2.84	2.94	0.04	2.90	857.57
1170	0.0490	0.0490	2.85	2.95	0.05	2.89	852.45
1180	0.0490	0.0491	2.84	2.94	0.05	2.89	850.76
1190	0.0491	0.0491	2.84	2.93	0.05	2.88	849.10
1200	0.0491	0.0492	2.84	2.94	0.04	2.90	857.66
1210	0.0492	0.0493	2.85	2.95	0.05	2.89	852.67
1220	0.0493	0.0493	2.84	2.94	0.05	2.89	851.12
1230	0.0493	0.0494	2.84	2.94	0.05	2.88	849.60
1240	0.0494	0.0494	2.83	2.93	0.05	2.88	848.11
1250	0.0494	0.0495	2.84	2.94	0.04	2.90	856.83
1260	0.0495	0.0495	2.84	2.94	0.05	2.89	852.01
1270	0.0495	0.0496	2.84	2.94	0.05	2.89	850.62
1280	0.0496	0.0496	2.84	2.93	0.05	2.88	849.26
1290	0.0496	0.0497	2.84	2.94	0.04	2.90	858.11
1300	0.0497	0.0497	2.85	2.95	0.05	2.90	853.42
1310	0.0497	0.0498	2.84	2.94	0.05	2.89	852.16
1320	0.0498	0.0499	2.84	2.94	0.05	2.89	850.92
1330	0.0499	0.0499	2.84	2.94	0.05	2.88	849.72
1340	0.0499	0.0500	2.83	2.93	0.05	2.88	848.55
1350	0.0500	0.0500	2.84	2.94	0.04	2.90	857.59
1360	0.0500	0.0501	2.85	2.95	0.05	2.90	853.08
1370	0.0501	0.0501	2.84	2.94	0.05	2.89	852.00
1380	0.0501	0.0502	2.84	2.94	0.05	2.89	850.95
1390	0.0502	0.0502	2.84	2.94	0.05	2.88	849.93
1400	0.0502	0.0503	2.83	2.93	0.05	2.88	848.94
1410	0.0503	0.0503	2.84	2.94	0.04	2.90	858.15
1420	0.0503	0.0503	2.85	2.95	0.05	2.90	853.83
1430	0.0503	0.0504	2.85	2.95	0.05	2.89	852.92
1440	0.0504	0.0000	2.84	2.89	0.05	2.84	836.91
1450	0.0000	0.0000	2.80	2.80	0.04	2.76	815.96
1460	0.0000	0.0000	2.72	2.72	0.04	2.68	791.62
1470	0.0000	0.0000	2.64	2.64	0.04	2.60	767.28
1480	0.0000	0.0000	2.56	2.56	0.04	2.52	742.94
1490	0.0000	0.0000	2.48	2.48	0.04	2.44	718.59
1500	0.0000	0.0000	2.40	2.40	0.04	2.35	694.25
1510	0.0000	0.0000	2.31	2.31	0.04	2.27	669.91
1520	0.0000	0.0000	2.23	2.23	0.04	2.19	645.57
1530	0.0000	0.0000	2.15	2.15	0.04	2.11	621.22
1540	0.0000	0.0000	2.07	2.07	0.04	2.03	596.88
1550	0.0000	0.0000	1.99	1.99	0.04	1.95	572.54
1560	0.0000	0.0000	1.91	1.91	0.04	1.87	548.20



<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
1570	0.0000	0.0000	1.83	1.83	0.04	1.79	523.85
1580	0.0000	0.0000	1.75	1.75	0.04	1.71	499.51
1590	0.0000	0.0000	1.67	1.67	0.04	1.62	475.17
1600	0.0000	0.0000	1.58	1.58	0.04	1.54	450.83
1610	0.0000	0.0000	1.50	1.50	0.04	1.46	426.49
1620	0.0000	0.0000	1.42	1.42	0.04	1.38	402.14
1630	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1640	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1650	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1660	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1670	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1680	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1690	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1700	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1710	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1720	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1730	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1740	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1750	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1760	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1770	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1780	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1790	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1800	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1810	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1820	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1830	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1840	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1850	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1860	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1870	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1880	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1890	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1900	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1910	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1920	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1930	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1940	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1950	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1960	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1970	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1980	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
1990	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2000	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2010	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2020	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2030	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2040	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2050	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2060	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2070	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2080	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2090	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31

<b>Time</b>	<b>I1</b>	<b>I2</b>	<b>2S1</b>	<b>I1+I2+2S1</b>	<b>O1</b>	<b>O2+2S2</b>	<b>STORAGE</b>
2100	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2110	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2120	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2130	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2140	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2150	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2160	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2170	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2180	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2190	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2200	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2210	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2220	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2230	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2240	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2250	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2260	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2270	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2280	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2290	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2300	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2310	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2320	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2330	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2340	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2350	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2360	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2370	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2380	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2390	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2400	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2410	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2420	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2430	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2440	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2450	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2460	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2470	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2480	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2490	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2500	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2510	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2520	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2530	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2540	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2550	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2560	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2570	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2580	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2590	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2600	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2610	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2620	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31

<i>Time</i>	<i>I1</i>	<i>I2</i>	<i>2S1</i>	<i>I1+I2+2S1</i>	<i>O1</i>	<i>O2+2S2</i>	<i>STORAGE</i>
2630	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2640	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2650	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2660	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2670	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2680	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2690	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2700	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2710	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2720	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2730	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2740	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2750	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2760	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2770	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2780	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2790	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2800	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2810	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2820	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2830	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2840	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2850	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2860	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2870	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31
2880	0.0000	0.0000	1.38	1.38	0.00	1.38	414.31