

STORM WATER CALCULATIONS

For:

**BOUSKA WETLAND
WINN970905C**

Iowa Department of Agriculture and Land Stewardship
Ridgeway, Iowa

S-H PROJECT # 2240006350

September 22nd, 2025

	I hereby certify that the portion of this engineering document was prepared by me or under my direct personal supervision. I am a duly licensed Professional Engineer under the laws of the State of Iowa. Signature: _____ Name: <u>Anthony J Harbaugh, P.E.</u> Date: _____ My license renewal date is December 31, 2025. Pages, sheets, or divisions covered by this certification: _____ <u>Stormwater Report and Attachments</u> _____
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TABLE OF CONTENTS

- 1. Project Summary**
- 2. Drainage Area Map**
- 3. Soil Map/Land Characteristics**
- 4. Hydrology & Hydraulic Model Output**

PROJECT SUMMARY

GENERAL

The proposed work includes construction of a wetland to the north of Spillville, IA. The location can be more specifically described as the SW ¼ of Section 5, Township 97 North, Range 9 West of the Fifth Principal meridian, Winneshiek County, Iowa. A dam and sheet pile weir will be constructed to impound water for the wetland. A drawdown structure on the dam will allow for pool elevation control.

DESIGN STANDARDS, ANALYSIS, AND ASSUMPTIONS

The design procedures and guidelines were obtained from the following resources:

1. "National Engineering Handbook 4 – Hydrology"
2. "NRCS Practice Standard 656, 378, 410" (as applicable)

DESIGN CRITERIA AND GUIDELINES

WATER CONTROL STRUCTURE – LOW FLOW SPILLWAY

The water control structure is a 48" circular CMP riser equipped with stop logs for water elevation control. The stop logs will be maintained approximately 1 inch below the crest of the sheet pile to provide passage of low flow. An 18" CMP will enter the structure from the pool area. An 18" CMP discharge pipe will run south and daylight into the proposed plunge pool then into the existing 4' X 5' RCP box culvert running under Conover Road.

PRINCIPAL SPILLWAY AND FREEBOARD DESIGN

The principal spillway consists of a 40' wide steel sheet pile structure in the embankment at an elevation of 1154.10'. No auxiliary spillway will be provided. The top of dam is set to an elevation of 1159.00. The following standards were used to design the principal spillway: NRCS 378, NRCS 410, and NRCS 656. A summary of the design criteria is listed below:

NRCS 378:

- Freeboard Capacity - 50-year, 24-hour storm. No auxiliary spillway will be provided, two feet of freeboard from top of dam is required.

NRCS 410:

- Freeboard Capacity - 10-year, 24-hour storm

NRCS 656:

- Freeboard Capacity - 25-year, 24-hour storm without overtopping embankment, refers to NRCS 378 -for all other spillway requirements.

Using the more conservative of these standards, the wetland was designed to pass the 50-year, 24-hour storm, according to NRCS 378. Based on NRCS 378, the design storm shall be the 50-year, 24-hour storm and the design shall be passed through the principal spillway while providing at least two feet of freeboard to the top of dam. This equates to a storm producing a rainfall depth of 6.50". The 50-year, 24-hour storm will produce a discharge of 466.76 cfs through the principal spillway and a peak water surface elevation of 1156.21'. The top of dam elevation is set at 1159.00', providing 2.79' of freeboard.

WATER QUALITY IMPROVEMENT

The wetland drawdown was designed to meet NRCS 656 requirements. Wetland will drawdown and return to design operating levels within 48 hours after a 10-year, 24-hour storm. The 10-year, 24-hour storm produced a 18-hour drawdown frequency. To promote emergent vegetation, 50% or more of the pool area (80% for this design) shall have depths from 0-24 inches.

SLOPE DESIGN

Side slopes were designed to meet NRCS 656 requirements which reference NRCS 378. Slopes designed with a ratio of three horizontal to one vertical (3:1) or flatter.

EMBANKMENT DESIGN

Per NRCS 378, top width required for dams with total heights less than 15 feet require a minimum of 10 feet top width. A 10-foot top width was chosen for this design. Minimum settlement of 5% of the total height of the dam was accounted for on the final construction elevation of the dam. This equates to a final construction elevation of 1159.50' (10.3 feet x 0.05] + 1159.00). Per NRCS 656, an additional 1 foot of overfill was added to the embankment design 50 feet on each side of the principal spillway (elevation of 1160.00').

IMPOUNDMENT LIFE

The Impoundment life was calculated using estimated sediment delivery and NRCS standard total erosion rate estimates. The erosion rates are based on the Average Annual Soil Erosion by Water on Cropland and CRP Land, 1982, published by USDA and revised in December 2000. This indicated that the erosion rates for the area ranged from 5 to 8 tons per acre per year. Furthermore, sediment delivery was based on NRCS FOTG "Erosion & Sediment Delivery", (Chart I: Estimated sediment delivery for landform regions). The chart indicated a sediment delivery percentage of approximately 20% for a 280.5-acre drainage area located in the lowland Surface Landform. Finally, the estimated sediment storage is based on normal pool storage volume which equates to 2.80 ac-ft.

Based on the assumed soil erosion rate (5 T/Ac/yr), delivery ratio (20%), a sediment unit weight of 100 PCF, and sediment capture rate of 70% of delivered sediment, approximately 196.4 tons of sediment per year (3,927 CF) is anticipated to be retained in the wetland. With a total sediment capacity of 2.80 ac-ft, this equates to an expected impoundment life of 31 years.

GEOTECHNICAL INVESTIGATION AND EVALUATION

A geotechnical investigation has been completed by Terracon for the proposed wetland. A report compiling the findings and associated recommendations is included in the submittal package.

PONDPACK OUTPUT DESCRIPTIONS

Three different PondPack output reports have been included in the appendix. The first output report includes inputs and results from the existing conditions model. The purpose of the output is to document the performance of the existing culvert, prior to the proposed wetland being implemented.

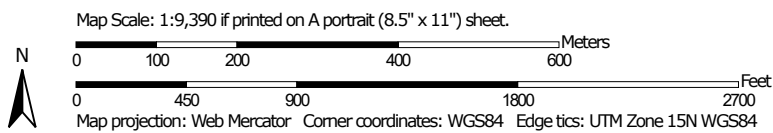
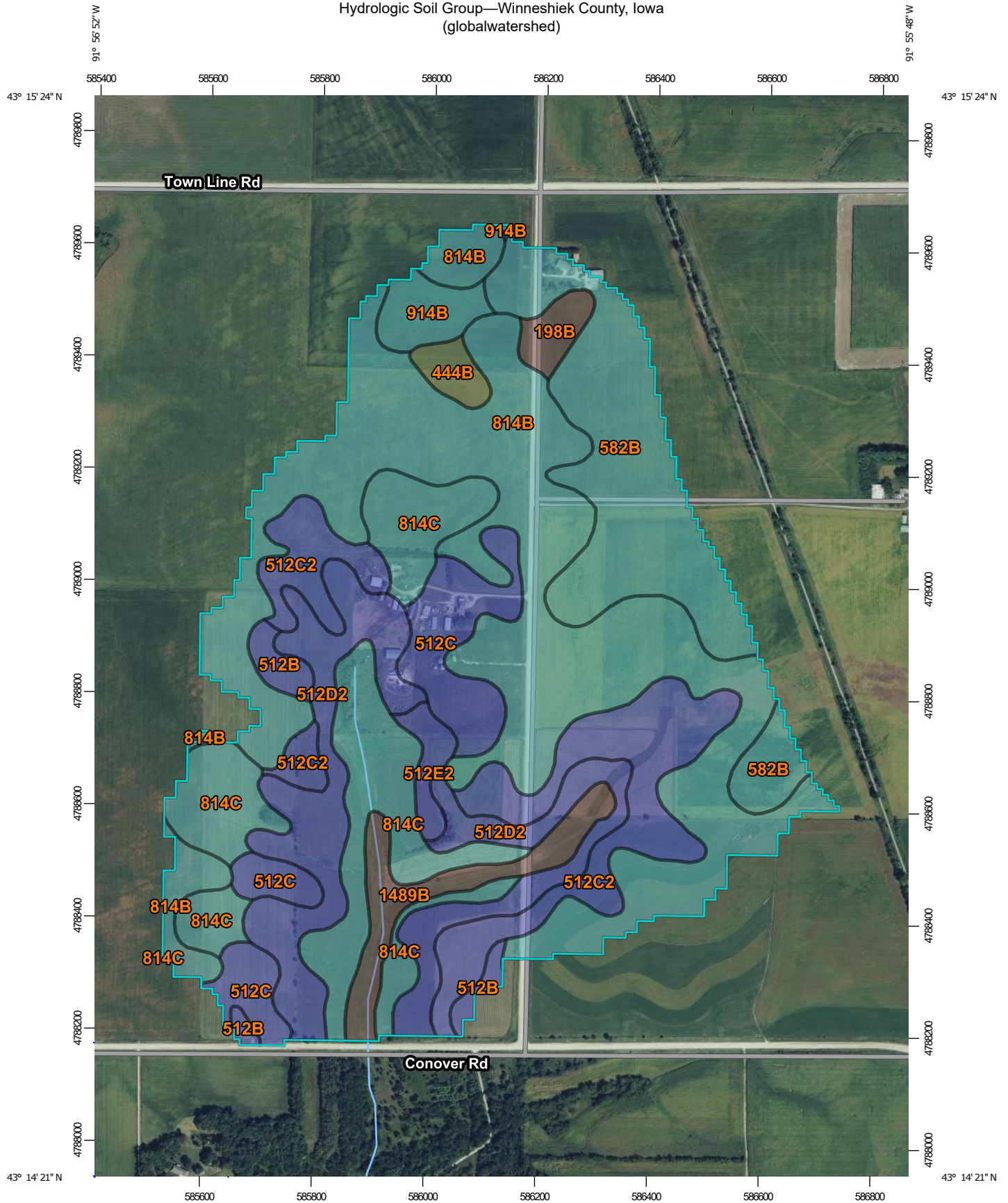
The second output report includes results from a proposed model that does not consider tailwater effects from the existing culvert and roadway embankment. This model only allows water to move forward through the proposed wetland spillway and is included to verify that the principal spillway is appropriately sized to pass the anticipated peak flows while maintaining adequate freeboard.

The third and final output report includes results from a proposed model that allows tailwater effects between the roadway and the wetland to be considered. This model most accurately represents the combined performance of the wetland and roadway in the future condition, once the wetland is constructed. Since the roadway embankment is above the crest of the sheet pile weir, this model allows for the roadway embankment to back water up through sheet pile, resulting in a level pool from the road embankment through the wetland, more or less. This model indicates that the frequency at which Conover Road overtops will not be significantly impacted by the construction of the wetland.

DRAINAGE AREA MAP

SOIL MAP/LAND CHARACTERISTICS

Hydrologic Soil Group—Winneshek County, Iowa (globalwatershed)



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

4/12/2024
Page 1 of 4

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Winneshiek County, Iowa

Survey Area Data: Version 32, Sep 12, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jul 31, 2020—Sep 2, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
198B	Floyd loam, 1 to 4 percent slopes	B/D	3.1	1.1%
444B	Jacwin loam, 2 to 5 percent slopes	C/D	2.7	1.0%
512B	Marlean loam, 2 to 5 percent slopes	B	4.0	1.5%
512C	Marlean loam, 5 to 9 percent slopes	B	17.9	6.5%
512C2	Marlean loam, 5 to 9 percent slopes, moderately eroded	B	30.8	11.2%
512D2	Marlean loam, 9 to 14 percent slopes, moderately eroded	B	33.0	12.0%
512E2	Marlean loam, 14 to 18 percent slopes, moderately eroded	B	3.0	1.1%
582B	Kasson loam, 2 to 5 percent slopes	C	36.9	13.4%
814B	Rockton loam, 2 to 5 percent slopes	C	91.8	33.3%
814C	Rockton loam, 5 to 9 percent slopes	C	38.3	13.9%
914B	Winneshiek loam, 2 to 5 percent slopes	C	5.0	1.8%
1489B	Lawson-Ossian complex, 0 to 4 percent slopes	B/D	9.5	3.4%
Totals for Area of Interest			275.9	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

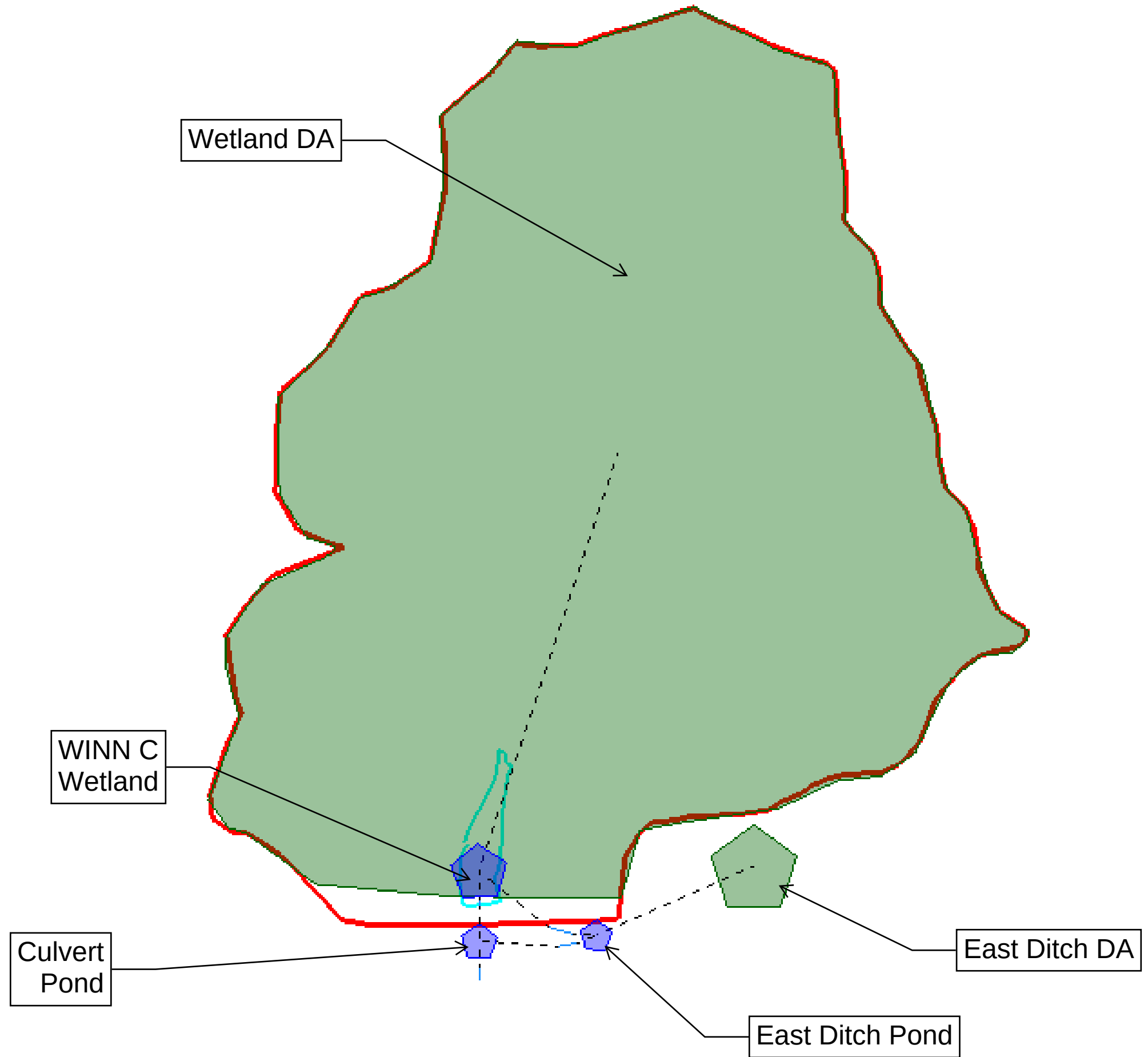
Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

PONDPACK DIAGRAM



HYDROLOGY & HYDRAULIC OUTPUT

EXISTING CONDITIONS

Table of Contents

	Master Network Summary	1
MSE4		
	Time-Depth Curve, 10 years (Post-Development 10 year)	3
	Time-Depth Curve, 100 years (Post-Development 100 year)	5
	Time-Depth Curve, 25 years (Post-Development 25 year)	7
	Time-Depth Curve, 50 years (Post-Development 50 year)	9
East Ditch DA		
	Time of Concentration Calculations, 100 years (Post-Development 100 year)	11
Existing Basin DA		
	Time of Concentration Calculations, 100 years (Post-Development 100 year)	13
East Ditch DA		
	Runoff CN-Area, 100 years (Post-Development 100 year)	15
Existing Basin DA		
	Runoff CN-Area, 100 years (Post-Development 100 year)	16
East Ditch DA		
	Unit Hydrograph Summary, 10 years (Post-Development 10 year)	17
	Unit Hydrograph Summary, 25 years (Post-Development 25 year)	19
	Unit Hydrograph Summary, 50 years (Post-Development 50 year)	21
	Unit Hydrograph Summary, 100 years (Post-Development 100 year)	23
Existing Basin DA		
	Unit Hydrograph Summary, 10 years (Post-Development 10 year)	25
	Unit Hydrograph Summary, 25 years (Post-Development 25 year)	27
	Unit Hydrograph Summary, 50 years (Post-Development 50 year)	29
	Unit Hydrograph Summary, 100 years (Post-Development 100 year)	31
Existing Basin (OUT)		
	Time vs. Elevation, 10 years (Post-Development 10 year)	33
	Time vs. Elevation, 25 years (Post-Development 25 year)	35
	Time vs. Elevation, 50 years (Post-Development 50 year)	37
	Time vs. Elevation, 100 years (Post-Development 100 year)	39
Existing Basin		
	Time vs. Volume, 10 years (Post-Development 10 year)	41
	Time vs. Volume, 25 years (Post-Development 25 year)	43

Table of Contents

	Time vs. Volume, 50 years (Post-Development 50 year)	45
	Time vs. Volume, 100 years (Post-Development 100 year)	47
Existing Basin		
	Elevation-Area Volume Curve, 10 years (Post-Development 10 year)	49
	Elevation-Area Volume Curve, 25 years (Post-Development 25 year)	50
	Elevation-Area Volume Curve, 50 years (Post-Development 50 year)	51
	Elevation-Area Volume Curve, 100 years (Post-Development 100 year)	52
Culvert		
	Outlet Input Data, 10 years (Post-Development 10 year)	53
	Outlet Input Data, 25 years (Post-Development 25 year)	56
	Outlet Input Data, 50 years (Post-Development 50 year)	59
	Outlet Input Data, 100 years (Post-Development 100 year)	62
Road Overtop		
	Outlet Input Data, 10 years (Post-Development 10 year)	65
	Outlet Input Data, 25 years (Post-Development 25 year)	67
	Outlet Input Data, 50 years (Post-Development 50 year)	69
	Outlet Input Data, 100 years (Post-Development 100 year)	71

WINN970905C Stormwater Report - Existing Conditions

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Existing Basin DA	Post-Development 10 year	10	54.597	13.000	265.71
Existing Basin DA	Post-Development 25 year	25	76.159	13.000	372.29
Existing Basin DA	Post-Development 50 year	50	95.222	13.000	465.33
Existing Basin DA	Post-Development 100 year	100	116.443	13.000	567.75
East Ditch DA	Post-Development 10 year	10	0.954	12.300	10.79
East Ditch DA	Post-Development 25 year	25	1.314	12.300	14.76
East Ditch DA	Post-Development 50 year	50	1.631	12.300	18.18
East Ditch DA	Post-Development 100 year	100	1.981	12.300	21.92

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Culvert Outfall	Post-Development 10 year	10	55.523	13.600	201.83
Culvert Outfall	Post-Development 25 year	25	72.534	13.400	228.95
Culvert Outfall	Post-Development 50 year	50	83.108	13.200	235.99
Culvert Outfall	Post-Development 100 year	100	93.450	13.100	240.19
Road Overflow Outfall	Post-Development 10 year	10	0.000	0.000	0.00
Road Overflow Outfall	Post-Development 25 year	25	4.901	13.400	99.13
Road Overflow Outfall	Post-Development 50 year	50	13.700	13.200	209.93
Road Overflow Outfall	Post-Development 100 year	100	24.922	13.100	321.35

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
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WINN970905C Stormwater Report - Existing Conditions

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
Existing Basin (IN)	Post-Development 10 year	10	55.551	13.000	267.78	(N/A)	(N/A)
Existing Basin (OUT)	Post-Development 10 year	10	55.551	13.600	201.83	1,155.53	6.935
Existing Basin (IN)	Post-Development 25 year	25	77.473	13.000	375.02	(N/A)	(N/A)
Existing Basin (OUT)	Post-Development 25 year	25	77.473	13.400	328.08	1,156.77	10.722
Existing Basin (IN)	Post-Development 50 year	50	96.853	13.000	468.63	(N/A)	(N/A)
Existing Basin (OUT)	Post-Development 50 year	50	96.853	13.200	445.93	1,157.11	11.937
Existing Basin (IN)	Post-Development 100 year	100	118.424	13.000	571.66	(N/A)	(N/A)
Existing Basin (OUT)	Post-Development 100 year	100	118.424	13.100	561.54	1,157.33	12.725

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Time-Depth Curve: 10 year

Label	10 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	10 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.0	0.0	0.0
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.1	0.1	0.1	0.1	0.1
4.000	0.1	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.2	0.2	0.2	0.2	0.2
5.500	0.2	0.2	0.3	0.3	0.3
6.000	0.3	0.3	0.3	0.3	0.3
6.500	0.3	0.3	0.3	0.3	0.3
7.000	0.4	0.4	0.4	0.4	0.4
7.500	0.4	0.4	0.4	0.4	0.4
8.000	0.4	0.5	0.5	0.5	0.5
8.500	0.5	0.5	0.5	0.5	0.5
9.000	0.5	0.6	0.6	0.6	0.6
9.500	0.6	0.6	0.7	0.7	0.7
10.000	0.7	0.7	0.7	0.8	0.8
10.500	0.8	0.8	0.9	0.9	0.9
11.000	1.0	1.0	1.1	1.1	1.2
11.500	1.2	1.3	1.4	1.5	1.7
12.000	2.1	2.7	2.9	3.1	3.2
12.500	3.3	3.3	3.4	3.4	3.5
13.000	3.5	3.6	3.6	3.6	3.7
13.500	3.7	3.7	3.7	3.7	3.8
14.000	3.8	3.8	3.8	3.8	3.8
14.500	3.9	3.9	3.9	3.9	3.9
15.000	3.9	3.9	4.0	4.0	4.0
15.500	4.0	4.0	4.0	4.0	4.0
16.000	4.0	4.0	4.1	4.1	4.1
16.500	4.1	4.1	4.1	4.1	4.1

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time-Depth Curve

Return Event: 10 years

Label: MSE4

Storm Event: 10 year

Scenario: Post-Development 10 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	4.1	4.1	4.1	4.2	4.2
17.500	4.2	4.2	4.2	4.2	4.2
18.000	4.2	4.2	4.2	4.2	4.2
18.500	4.2	4.2	4.3	4.3	4.3
19.000	4.3	4.3	4.3	4.3	4.3
19.500	4.3	4.3	4.3	4.3	4.3
20.000	4.3	4.3	4.3	4.4	4.4
20.500	4.4	4.4	4.4	4.4	4.4
21.000	4.4	4.4	4.4	4.4	4.4
21.500	4.4	4.4	4.4	4.4	4.4
22.000	4.4	4.4	4.4	4.4	4.4
22.500	4.4	4.4	4.4	4.5	4.5
23.000	4.5	4.5	4.5	4.5	4.5
23.500	4.5	4.5	4.5	4.5	4.5
24.000	4.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time-Depth Curve: 100 year

Label	100 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.2
3.000	0.2	0.2	0.2	0.2	0.2
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.3	0.3	0.3	0.3
4.500	0.3	0.3	0.3	0.3	0.3
5.000	0.3	0.4	0.4	0.4	0.4
5.500	0.4	0.4	0.4	0.4	0.4
6.000	0.5	0.5	0.5	0.5	0.5
6.500	0.5	0.5	0.6	0.6	0.6
7.000	0.6	0.6	0.6	0.6	0.6
7.500	0.7	0.7	0.7	0.7	0.7
8.000	0.7	0.8	0.8	0.8	0.8
8.500	0.8	0.8	0.9	0.9	0.9
9.000	0.9	0.9	1.0	1.0	1.0
9.500	1.0	1.1	1.1	1.1	1.2
10.000	1.2	1.2	1.2	1.3	1.3
10.500	1.3	1.4	1.4	1.5	1.6
11.000	1.6	1.7	1.8	1.8	1.9
11.500	2.0	2.2	2.3	2.6	2.9
12.000	3.5	4.6	4.9	5.1	5.3
12.500	5.4	5.5	5.6	5.7	5.8
13.000	5.9	5.9	6.0	6.0	6.1
13.500	6.1	6.2	6.2	6.2	6.3
14.000	6.3	6.3	6.4	6.4	6.4
14.500	6.4	6.5	6.5	6.5	6.5
15.000	6.6	6.6	6.6	6.6	6.6
15.500	6.7	6.7	6.7	6.7	6.7
16.000	6.7	6.8	6.8	6.8	6.8
16.500	6.8	6.8	6.8	6.9	6.9

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time-Depth Curve

Return Event: 100 years

Label: MSE4

Storm Event: 100 year

Scenario: Post-Development 100 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	6.9	6.9	6.9	6.9	6.9
17.500	7.0	7.0	7.0	7.0	7.0
18.000	7.0	7.0	7.0	7.1	7.1
18.500	7.1	7.1	7.1	7.1	7.1
19.000	7.1	7.1	7.2	7.2	7.2
19.500	7.2	7.2	7.2	7.2	7.2
20.000	7.2	7.2	7.3	7.3	7.3
20.500	7.3	7.3	7.3	7.3	7.3
21.000	7.3	7.3	7.3	7.3	7.4
21.500	7.4	7.4	7.4	7.4	7.4
22.000	7.4	7.4	7.4	7.4	7.4
22.500	7.4	7.4	7.4	7.4	7.4
23.000	7.4	7.4	7.5	7.5	7.5
23.500	7.5	7.5	7.5	7.5	7.5
24.000	7.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Time-Depth Curve: 25 year

Label	25 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	25 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.1	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.3	0.3	0.3	0.3	0.3
5.500	0.3	0.3	0.3	0.3	0.3
6.000	0.3	0.4	0.4	0.4	0.4
6.500	0.4	0.4	0.4	0.4	0.4
7.000	0.4	0.5	0.5	0.5	0.5
7.500	0.5	0.5	0.5	0.5	0.5
8.000	0.6	0.6	0.6	0.6	0.6
8.500	0.6	0.6	0.6	0.6	0.7
9.000	0.7	0.7	0.7	0.7	0.8
9.500	0.8	0.8	0.8	0.8	0.9
10.000	0.9	0.9	0.9	0.9	1.0
10.500	1.0	1.0	1.1	1.1	1.2
11.000	1.2	1.3	1.3	1.4	1.4
11.500	1.5	1.6	1.7	1.9	2.2
12.000	2.6	3.4	3.7	3.8	4.0
12.500	4.1	4.1	4.2	4.2	4.3
13.000	4.4	4.4	4.5	4.5	4.5
13.500	4.6	4.6	4.6	4.6	4.7
14.000	4.7	4.7	4.7	4.7	4.8
14.500	4.8	4.8	4.8	4.8	4.9
15.000	4.9	4.9	4.9	4.9	4.9
15.500	4.9	5.0	5.0	5.0	5.0
16.000	5.0	5.0	5.0	5.0	5.1
16.500	5.1	5.1	5.1	5.1	5.1

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time-Depth Curve

Return Event: 25 years

Label: MSE4

Storm Event: 25 year

Scenario: Post-Development 25 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	5.1	5.1	5.1	5.2	5.2
17.500	5.2	5.2	5.2	5.2	5.2
18.000	5.2	5.2	5.2	5.2	5.3
18.500	5.3	5.3	5.3	5.3	5.3
19.000	5.3	5.3	5.3	5.3	5.3
19.500	5.3	5.4	5.4	5.4	5.4
20.000	5.4	5.4	5.4	5.4	5.4
20.500	5.4	5.4	5.4	5.4	5.4
21.000	5.4	5.4	5.5	5.5	5.5
21.500	5.5	5.5	5.5	5.5	5.5
22.000	5.5	5.5	5.5	5.5	5.5
22.500	5.5	5.5	5.5	5.5	5.5
23.000	5.5	5.5	5.5	5.5	5.5
23.500	5.5	5.6	5.6	5.6	5.6
24.000	5.6	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Time-Depth Curve: 50 year

Label	50 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	50 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.2	0.2	0.2
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.3	0.3	0.3	0.3	0.3
5.000	0.3	0.3	0.3	0.3	0.3
5.500	0.3	0.4	0.4	0.4	0.4
6.000	0.4	0.4	0.4	0.4	0.4
6.500	0.5	0.5	0.5	0.5	0.5
7.000	0.5	0.5	0.5	0.6	0.6
7.500	0.6	0.6	0.6	0.6	0.6
8.000	0.6	0.7	0.7	0.7	0.7
8.500	0.7	0.7	0.7	0.8	0.8
9.000	0.8	0.8	0.8	0.9	0.9
9.500	0.9	0.9	1.0	1.0	1.0
10.000	1.0	1.1	1.1	1.1	1.1
10.500	1.2	1.2	1.2	1.3	1.3
11.000	1.4	1.5	1.5	1.6	1.7
11.500	1.8	1.9	2.0	2.2	2.5
12.000	3.0	4.0	4.3	4.5	4.6
12.500	4.7	4.8	4.9	4.9	5.0
13.000	5.1	5.1	5.2	5.2	5.3
13.500	5.3	5.3	5.4	5.4	5.4
14.000	5.5	5.5	5.5	5.5	5.6
14.500	5.6	5.6	5.6	5.6	5.7
15.000	5.7	5.7	5.7	5.7	5.8
15.500	5.8	5.8	5.8	5.8	5.8
16.000	5.8	5.9	5.9	5.9	5.9
16.500	5.9	5.9	5.9	5.9	6.0

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time-Depth Curve

Return Event: 50 years

Label: MSE4

Storm Event: 50 year

Scenario: Post-Development 50 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	6.0	6.0	6.0	6.0	6.0
17.500	6.0	6.0	6.0	6.1	6.1
18.000	6.1	6.1	6.1	6.1	6.1
18.500	6.1	6.1	6.2	6.2	6.2
19.000	6.2	6.2	6.2	6.2	6.2
19.500	6.2	6.2	6.2	6.3	6.3
20.000	6.3	6.3	6.3	6.3	6.3
20.500	6.3	6.3	6.3	6.3	6.3
21.000	6.3	6.3	6.4	6.4	6.4
21.500	6.4	6.4	6.4	6.4	6.4
22.000	6.4	6.4	6.4	6.4	6.4
22.500	6.4	6.4	6.4	6.4	6.4
23.000	6.4	6.5	6.5	6.5	6.5
23.500	6.5	6.5	6.5	6.5	6.5
24.000	6.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time of Concentration Calculations

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time of Concentration Results

Segment #1: SCS Lag

Hydraulic Length	1,136.78 ft
CN	74.000
Slope	0.037 ft/ft
Average Velocity	0.87 ft/s
Segment Time of Concentration	0.364 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.364 hours
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WINN970905C Stormwater Report - Existing Conditions

Subsection: Time of Concentration Calculations

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

==== SCS Lag

$T_c = 0.000877 * (L_f^{0.8}) * ((1000/CN)-9)^{0.7} * (S_f^{-0.5})$

Where: T_c = Time of concentration, hours
 L_f = Flow length, feet
 CN = SCS Curve Number
 S_f = Slope, ft/ft

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time of Concentration Calculations

Label: Existing Basin DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time of Concentration Results

Segment #1: SCS Lag

Hydraulic Length	4,600.00 ft
CN	79.000
Slope	0.016 ft/ft
Average Velocity	0.86 ft/s
Segment Time of Concentration	1.480 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	1.480 hours
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WINN970905C Stormwater Report - Existing Conditions

Subsection: Time of Concentration Calculations

Label: Existing Basin DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

==== SCS Lag

$T_c = 0.000877 * (L_f^{0.8}) * ((1000/CN)-9)^{0.7} * (S_f^{-0.5})$

Where: T_c = Time of concentration, hours
 L_f = Flow length, feet
 CN = SCS Curve Number
 S_f = Slope, ft/ft

WINN970905C Stormwater Report - Existing Conditions

Subsection: Runoff CN-Area

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (ft ²)	C (%)	UC (%)	Adjusted CN
Row crops - SR + Crop residue, good - Soil C	82.000	115,758.1	0.0	0.0	82.000
Pasture, grassland, or range - good - Soil C	74.000	57,707.2	0.0	0.0	74.000
Impervious Areas - Gravel (w/ right-of-way) - Soil C	89.000	23,985.4	0.0	0.0	89.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	197,450.7	(N/A)	(N/A)	80.512

WINN970905C Stormwater Report - Existing Conditions

Subsection: Runoff CN-Area

Label: Existing Basin DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (ft ²)	C (%)	UC (%)	Adjusted CN
Row crops - SR + Crop residue, good - Soil C	82.000	6,232,307.7	0.0	0.0	82.000
Residential Districts - 2 acre - Soil C	77.000	494,523.9	0.0	0.0	77.000
Pasture, grassland, or range - good - Soil C	74.000	2,023,116.0	0.0	0.0	74.000
Woods - grass combination - good - Soil C	72.000	90,483.6	0.0	0.0	72.000
Pasture, grassland, or range - good - Soil C	74.000	546,361.2	0.0	0.0	74.000
Impervious Areas - Gravel (w/ right-of-way) - Soil C	89.000	162,250.5	0.0	0.0	89.000
Row crops - SR + Crop residue, good - Soil B	75.000	2,670,989.0	0.0	0.0	75.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	12,220,031.9	(N/A)	(N/A)	78.604

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	10.89 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	10.79 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.5 in
Runoff Volume (Pervious)	0.956 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.954 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.6 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	14.98 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	14.76 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.5 in
Runoff Volume (Pervious)	1.316 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.314 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Storm Event	50 year
Return Event	50 years
Duration	24.000 hours
Depth	6.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	18.52 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	18.18 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.3 in
Runoff Volume (Pervious)	1.633 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.631 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	7.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	22.39 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	21.92 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.3 in
Runoff Volume (Pervious)	1.984 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.981 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: Existing Basin DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Storm Event	10 year
Return Event	10 years
Duration	24.000 hours
Depth	4.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²

Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	267.20 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	265.71 ft ³ /s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.4 in
Runoff Volume (Pervious)	55.164 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	54.597 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: Existing Basin DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: Existing Basin DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Storm Event	25 year
Return Event	25 years
Duration	24.000 hours
Depth	5.6 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²

Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	373.98 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	372.29 ft ³ /s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.3 in
Runoff Volume (Pervious)	76.899 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	76.159 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: Existing Basin DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: Existing Basin DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Storm Event	50 year
Return Event	50 years
Duration	24.000 hours
Depth	6.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²

Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	467.17 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	465.33 ft ³ /s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	96.109 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	95.222 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: Existing Basin DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: Existing Basin DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Storm Event	100 year
Return Event	100 years
Duration	24.000 hours
Depth	7.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²

Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	569.71 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	567.75 ft ³ /s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	117.489 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	116.443 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Existing Conditions

Subsection: Unit Hydrograph Summary

Label: Existing Basin DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Existing Basin (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
8.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
8.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
9.000	1,147.10	1,147.10	1,147.11	1,147.11	1,147.12
9.500	1,147.13	1,147.15	1,147.17	1,147.20	1,147.23
10.000	1,147.27	1,147.32	1,147.38	1,147.44	1,147.51
10.500	1,147.59	1,147.63	1,147.68	1,147.73	1,147.80
11.000	1,147.87	1,147.96	1,148.07	1,148.18	1,148.30
11.500	1,148.43	1,148.60	1,148.78	1,149.00	1,149.32
12.000	1,149.76	1,150.30	1,150.75	1,151.30	1,151.85
12.500	1,152.37	1,152.88	1,153.36	1,153.81	1,154.23
13.000	1,154.60	1,154.91	1,155.16	1,155.34	1,155.47
13.500	1,155.53	1,155.53	1,155.48	1,155.39	1,155.25
14.000	1,155.09	1,154.87	1,154.64	1,154.36	1,154.04
14.500	1,153.67	1,153.27	1,152.85	1,152.43	1,152.01
15.000	1,151.59	1,151.18	1,150.81	1,150.53	1,150.29
15.500	1,150.07	1,149.91	1,149.81	1,149.72	1,149.63
16.000	1,149.55	1,149.46	1,149.39	1,149.31	1,149.25
16.500	1,149.19	1,149.14	1,149.10	1,149.05	1,149.01
17.000	1,148.98	1,148.95	1,148.92	1,148.90	1,148.88
17.500	1,148.86	1,148.84	1,148.83	1,148.81	1,148.79
18.000	1,148.78	1,148.77	1,148.75	1,148.74	1,148.73
18.500	1,148.71	1,148.70	1,148.69	1,148.68	1,148.67
19.000	1,148.65	1,148.64	1,148.63	1,148.62	1,148.61
19.500	1,148.60	1,148.58	1,148.57	1,148.55	1,148.54

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Existing Basin (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,148.53	1,148.51	1,148.50	1,148.49	1,148.47
20.500	1,148.46	1,148.44	1,148.43	1,148.42	1,148.40
21.000	1,148.39	1,148.37	1,148.36	1,148.35	1,148.33
21.500	1,148.32	1,148.30	1,148.29	1,148.28	1,148.26
22.000	1,148.25	1,148.23	1,148.22	1,148.21	1,148.19
22.500	1,148.18	1,148.16	1,148.15	1,148.14	1,148.12
23.000	1,148.11	1,148.09	1,148.07	1,148.05	1,148.04
23.500	1,148.02	1,148.00	1,147.98	1,147.96	1,147.94
24.000	1,147.92	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Existing Basin (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
8.000	1,147.10	1,147.11	1,147.11	1,147.11	1,147.12
8.500	1,147.13	1,147.14	1,147.15	1,147.17	1,147.19
9.000	1,147.22	1,147.25	1,147.29	1,147.34	1,147.39
9.500	1,147.45	1,147.52	1,147.60	1,147.64	1,147.69
10.000	1,147.74	1,147.79	1,147.85	1,147.91	1,147.97
10.500	1,148.04	1,148.10	1,148.16	1,148.23	1,148.31
11.000	1,148.40	1,148.51	1,148.64	1,148.77	1,148.93
11.500	1,149.11	1,149.29	1,149.53	1,149.81	1,150.21
12.000	1,150.52	1,151.00	1,151.59	1,152.18	1,152.78
12.500	1,153.38	1,153.98	1,154.58	1,155.15	1,155.67
13.000	1,156.12	1,156.47	1,156.69	1,156.77	1,156.77
13.500	1,156.73	1,156.67	1,156.60	1,156.51	1,156.40
14.000	1,156.27	1,156.14	1,155.99	1,155.81	1,155.60
14.500	1,155.35	1,155.09	1,154.79	1,154.47	1,154.11
15.000	1,153.71	1,153.28	1,152.84	1,152.41	1,151.98
15.500	1,151.58	1,151.18	1,150.83	1,150.56	1,150.32
16.000	1,150.12	1,149.94	1,149.84	1,149.76	1,149.68
16.500	1,149.61	1,149.55	1,149.49	1,149.43	1,149.39
17.000	1,149.34	1,149.31	1,149.28	1,149.25	1,149.23
17.500	1,149.21	1,149.19	1,149.17	1,149.15	1,149.13
18.000	1,149.11	1,149.10	1,149.08	1,149.06	1,149.04
18.500	1,149.03	1,149.01	1,149.00	1,148.98	1,148.96
19.000	1,148.95	1,148.93	1,148.92	1,148.90	1,148.89
19.500	1,148.87	1,148.86	1,148.84	1,148.83	1,148.81

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Existing Basin (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,148.79	1,148.78	1,148.76	1,148.75	1,148.73
20.500	1,148.72	1,148.70	1,148.69	1,148.67	1,148.66
21.000	1,148.64	1,148.63	1,148.61	1,148.60	1,148.58
21.500	1,148.56	1,148.54	1,148.52	1,148.50	1,148.49
22.000	1,148.47	1,148.45	1,148.43	1,148.41	1,148.39
22.500	1,148.37	1,148.36	1,148.34	1,148.32	1,148.30
23.000	1,148.28	1,148.26	1,148.25	1,148.23	1,148.21
23.500	1,148.19	1,148.17	1,148.15	1,148.13	1,148.12
24.000	1,148.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Existing Basin (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.11
7.500	1,147.11	1,147.11	1,147.12	1,147.13	1,147.14
8.000	1,147.16	1,147.18	1,147.20	1,147.23	1,147.27
8.500	1,147.31	1,147.35	1,147.40	1,147.44	1,147.50
9.000	1,147.55	1,147.61	1,147.64	1,147.67	1,147.72
9.500	1,147.76	1,147.82	1,147.87	1,147.94	1,148.01
10.000	1,148.08	1,148.15	1,148.21	1,148.27	1,148.34
10.500	1,148.40	1,148.47	1,148.55	1,148.63	1,148.72
11.000	1,148.83	1,148.95	1,149.10	1,149.26	1,149.44
11.500	1,149.65	1,149.87	1,150.14	1,150.36	1,150.67
12.000	1,151.10	1,151.61	1,152.20	1,152.83	1,153.49
12.500	1,154.16	1,154.84	1,155.52	1,156.15	1,156.66
13.000	1,156.96	1,157.08	1,157.11	1,157.10	1,157.05
13.500	1,156.97	1,156.89	1,156.80	1,156.71	1,156.63
14.000	1,156.54	1,156.43	1,156.31	1,156.18	1,156.03
14.500	1,155.86	1,155.66	1,155.42	1,155.17	1,154.89
15.000	1,154.59	1,154.26	1,153.89	1,153.50	1,153.10
15.500	1,152.68	1,152.27	1,151.88	1,151.50	1,151.15
16.000	1,150.83	1,150.59	1,150.37	1,150.22	1,150.02
16.500	1,149.93	1,149.86	1,149.79	1,149.73	1,149.68
17.000	1,149.64	1,149.60	1,149.57	1,149.53	1,149.50
17.500	1,149.48	1,149.45	1,149.43	1,149.40	1,149.38
18.000	1,149.36	1,149.34	1,149.32	1,149.31	1,149.29
18.500	1,149.27	1,149.25	1,149.24	1,149.22	1,149.20
19.000	1,149.19	1,149.17	1,149.15	1,149.14	1,149.12
19.500	1,149.10	1,149.09	1,149.07	1,149.05	1,149.03

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Existing Basin (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,149.01	1,148.99	1,148.98	1,148.96	1,148.94
20.500	1,148.92	1,148.90	1,148.88	1,148.87	1,148.85
21.000	1,148.83	1,148.81	1,148.79	1,148.77	1,148.76
21.500	1,148.74	1,148.72	1,148.70	1,148.68	1,148.66
22.000	1,148.64	1,148.63	1,148.61	1,148.59	1,148.56
22.500	1,148.54	1,148.52	1,148.50	1,148.48	1,148.45
23.000	1,148.43	1,148.41	1,148.39	1,148.36	1,148.34
23.500	1,148.32	1,148.30	1,148.28	1,148.25	1,148.23
24.000	1,148.21	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Existing Basin (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.11	1,147.11
7.000	1,147.11	1,147.12	1,147.13	1,147.15	1,147.16
7.500	1,147.19	1,147.22	1,147.25	1,147.29	1,147.34
8.000	1,147.39	1,147.44	1,147.50	1,147.56	1,147.61
8.500	1,147.64	1,147.67	1,147.71	1,147.74	1,147.78
9.000	1,147.82	1,147.86	1,147.90	1,147.95	1,148.01
9.500	1,148.07	1,148.14	1,148.20	1,148.27	1,148.34
10.000	1,148.42	1,148.50	1,148.58	1,148.65	1,148.72
10.500	1,148.80	1,148.87	1,148.96	1,149.05	1,149.16
11.000	1,149.28	1,149.42	1,149.59	1,149.77	1,149.98
11.500	1,150.21	1,150.36	1,150.61	1,150.87	1,151.23
12.000	1,151.67	1,152.20	1,152.81	1,153.49	1,154.21
12.500	1,154.95	1,155.71	1,156.41	1,156.93	1,157.20
13.000	1,157.31	1,157.33	1,157.31	1,157.28	1,157.22
13.500	1,157.16	1,157.08	1,156.99	1,156.90	1,156.80
14.000	1,156.71	1,156.63	1,156.54	1,156.43	1,156.31
14.500	1,156.18	1,156.03	1,155.86	1,155.67	1,155.45
15.000	1,155.21	1,154.94	1,154.66	1,154.35	1,154.03
15.500	1,153.66	1,153.27	1,152.88	1,152.50	1,152.12
16.000	1,151.74	1,151.39	1,151.09	1,150.80	1,150.60
16.500	1,150.41	1,150.28	1,150.16	1,150.04	1,149.98
17.000	1,149.93	1,149.89	1,149.85	1,149.81	1,149.78
17.500	1,149.75	1,149.72	1,149.70	1,149.67	1,149.65
18.000	1,149.63	1,149.61	1,149.59	1,149.57	1,149.54
18.500	1,149.52	1,149.50	1,149.48	1,149.46	1,149.44
19.000	1,149.42	1,149.40	1,149.38	1,149.36	1,149.35
19.500	1,149.33	1,149.31	1,149.29	1,149.27	1,149.25

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Existing Basin (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,149.23	1,149.21	1,149.19	1,149.17	1,149.15
20.500	1,149.14	1,149.12	1,149.10	1,149.07	1,149.05
21.000	1,149.03	1,149.01	1,148.99	1,148.97	1,148.94
21.500	1,148.92	1,148.90	1,148.88	1,148.86	1,148.83
22.000	1,148.81	1,148.79	1,148.77	1,148.75	1,148.72
22.500	1,148.70	1,148.68	1,148.66	1,148.64	1,148.61
23.000	1,148.59	1,148.56	1,148.54	1,148.51	1,148.49
23.500	1,148.46	1,148.43	1,148.41	1,148.38	1,148.35
24.000	1,148.33	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Volume

Return Event: 10 years

Label: Existing Basin

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000	0.000	0.000
10.500	0.000	0.000	0.000	0.000	0.000
11.000	0.001	0.001	0.001	0.002	0.003
11.500	0.006	0.010	0.017	0.030	0.058
12.000	0.118	0.235	0.375	0.607	0.937
12.500	1.369	1.908	2.532	3.217	3.951
13.000	4.702	5.373	5.974	6.429	6.752
13.500	6.924	6.935	6.802	6.549	6.205
14.000	5.794	5.290	4.775	4.196	3.611
14.500	2.996	2.402	1.875	1.427	1.059
15.000	0.770	0.546	0.394	0.299	0.233
15.500	0.180	0.146	0.128	0.112	0.099
16.000	0.086	0.075	0.066	0.058	0.051
16.500	0.046	0.041	0.038	0.034	0.031
17.000	0.029	0.027	0.025	0.024	0.022
17.500	0.021	0.020	0.020	0.019	0.018
18.000	0.017	0.017	0.016	0.015	0.015
18.500	0.014	0.014	0.013	0.013	0.012
19.000	0.012	0.011	0.011	0.011	0.010
19.500	0.010	0.009	0.009	0.009	0.008

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Volume

Return Event: 10 years

Label: Existing Basin

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.008	0.007	0.007	0.007	0.006
20.500	0.006	0.006	0.005	0.005	0.005
21.000	0.005	0.004	0.004	0.004	0.004
21.500	0.004	0.003	0.003	0.003	0.003
22.000	0.003	0.002	0.002	0.002	0.002
22.500	0.002	0.002	0.002	0.002	0.002
23.000	0.001	0.001	0.001	0.001	0.001
23.500	0.001	0.001	0.001	0.001	0.001
24.000	0.001	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Volume

Return Event: 25 years

Label: Existing Basin

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.001	0.001	0.001
10.500	0.001	0.001	0.002	0.002	0.003
11.000	0.005	0.007	0.011	0.017	0.025
11.500	0.038	0.056	0.084	0.127	0.211
12.000	0.298	0.470	0.768	1.200	1.792
12.500	2.549	3.502	4.662	5.950	7.297
13.000	8.628	9.731	10.438	10.720	10.722
13.500	10.586	10.381	10.153	9.856	9.489
14.000	9.090	8.681	8.219	7.692	7.120
14.500	6.462	5.808	5.103	4.417	3.739
15.000	3.048	2.411	1.859	1.404	1.039
15.500	0.761	0.547	0.400	0.309	0.241
16.000	0.191	0.151	0.133	0.118	0.106
16.500	0.095	0.086	0.078	0.071	0.066
17.000	0.061	0.057	0.054	0.052	0.049
17.500	0.047	0.045	0.043	0.042	0.040
18.000	0.039	0.037	0.036	0.035	0.033
18.500	0.032	0.031	0.030	0.029	0.028
19.000	0.027	0.026	0.025	0.024	0.023
19.500	0.022	0.021	0.020	0.019	0.019

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Volume

Return Event: 25 years

Label: Existing Basin

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.018	0.017	0.017	0.016	0.015
20.500	0.014	0.014	0.013	0.013	0.012
21.000	0.011	0.011	0.010	0.010	0.009
21.500	0.009	0.008	0.008	0.007	0.007
22.000	0.006	0.006	0.006	0.005	0.005
22.500	0.004	0.004	0.004	0.004	0.003
23.000	0.003	0.003	0.003	0.002	0.002
23.500	0.002	0.002	0.002	0.002	0.001
24.000	0.001	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Volume

Return Event: 50 years

Label: Existing Basin

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.001	0.001	0.001	0.001
10.000	0.001	0.002	0.002	0.003	0.004
10.500	0.005	0.006	0.009	0.011	0.015
11.000	0.020	0.027	0.038	0.052	0.072
11.500	0.100	0.138	0.196	0.251	0.347
12.000	0.510	0.781	1.215	1.851	2.711
12.500	3.823	5.224	6.896	8.713	10.349
13.000	11.369	11.821	11.937	11.874	11.690
13.500	11.430	11.126	10.815	10.517	10.242
14.000	9.945	9.591	9.195	8.785	8.341
14.500	7.829	7.271	6.643	6.001	5.327
15.000	4.682	4.007	3.353	2.731	2.173
15.500	1.682	1.280	0.960	0.717	0.535
16.000	0.402	0.320	0.254	0.215	0.169
16.500	0.151	0.136	0.124	0.114	0.106
17.000	0.099	0.094	0.089	0.084	0.080
17.500	0.077	0.073	0.071	0.068	0.065
18.000	0.063	0.061	0.059	0.057	0.055
18.500	0.053	0.051	0.050	0.048	0.047
19.000	0.045	0.044	0.042	0.041	0.039
19.500	0.038	0.037	0.035	0.034	0.032

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Volume

Return Event: 50 years

Label: Existing Basin

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.031	0.030	0.029	0.027	0.026
20.500	0.025	0.024	0.023	0.022	0.021
21.000	0.020	0.019	0.018	0.017	0.016
21.500	0.015	0.014	0.014	0.013	0.012
22.000	0.012	0.011	0.010	0.010	0.009
22.500	0.008	0.008	0.007	0.006	0.006
23.000	0.006	0.005	0.005	0.004	0.004
23.500	0.004	0.003	0.003	0.003	0.002
24.000	0.002	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Volume

Return Event: 100 years

Label: Existing Basin

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.001	0.001	0.001	0.001	0.001
9.500	0.001	0.002	0.002	0.003	0.004
10.000	0.005	0.007	0.009	0.012	0.015
10.500	0.018	0.022	0.027	0.034	0.043
11.000	0.054	0.069	0.091	0.120	0.159
11.500	0.212	0.252	0.325	0.417	0.571
12.000	0.818	1.211	1.824	2.710	3.910
12.500	5.475	7.414	9.537	11.288	12.264
13.000	12.639	12.725	12.671	12.532	12.329
13.500	12.091	11.821	11.500	11.154	10.821
14.000	10.517	10.242	9.945	9.590	9.193
14.500	8.785	8.348	7.848	7.307	6.706
15.000	6.089	5.452	4.830	4.195	3.583
15.500	2.972	2.397	1.901	1.488	1.148
16.000	0.863	0.652	0.505	0.390	0.322
16.500	0.265	0.230	0.200	0.173	0.160
17.000	0.150	0.141	0.134	0.128	0.122
17.500	0.117	0.113	0.108	0.105	0.101
18.000	0.098	0.095	0.092	0.089	0.086
18.500	0.083	0.080	0.077	0.075	0.072
19.000	0.070	0.068	0.065	0.063	0.061
19.500	0.059	0.057	0.055	0.053	0.051

WINN970905C Stormwater Report - Existing Conditions

Subsection: Time vs. Volume

Return Event: 100 years

Label: Existing Basin

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.049	0.047	0.046	0.044	0.042
20.500	0.041	0.039	0.037	0.036	0.034
21.000	0.032	0.031	0.029	0.028	0.026
21.500	0.025	0.024	0.022	0.021	0.020
22.000	0.019	0.018	0.017	0.016	0.015
22.500	0.014	0.013	0.012	0.011	0.010
23.000	0.010	0.009	0.008	0.007	0.007
23.500	0.006	0.006	0.005	0.005	0.004
24.000	0.004	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Elevation-Area Volume Curve

Return Event: 10 years

Label: Existing Basin

Storm Event: 10 year

Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	3,067.0	3,816.7	0.029	0.030
1,150.00	0.0	9,128.1	17,486.2	0.134	0.164
1,151.00	0.0	17,885.7	39,791.1	0.304	0.468
1,152.00	0.0	33,725.6	76,171.5	0.583	1.051
1,153.00	0.0	53,991.8	130,389.5	0.998	2.049
1,154.00	0.0	76,318.2	194,501.6	1.488	3.538
1,155.00	0.0	102,975.9	267,944.8	2.050	5.588
1,156.00	0.0	129,707.6	348,255.0	2.665	8.253
1,156.10	0.0	132,474.2	393,265.5	0.301	8.554
1,157.00	0.0	155,287.5	431,189.7	2.970	11.523
1,158.00	0.0	180,603.4	503,358.6	3.852	15.375
1,159.00	0.0	207,925.9	582,313.0	4.456	19.831

WINN970905C Stormwater Report - Existing Conditions

Subsection: Elevation-Area Volume Curve

Return Event: 25 years

Label: Existing Basin

Storm Event: 25 year

Scenario: Post-Development 25 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	3,067.0	3,816.7	0.029	0.030
1,150.00	0.0	9,128.1	17,486.2	0.134	0.164
1,151.00	0.0	17,885.7	39,791.1	0.304	0.468
1,152.00	0.0	33,725.6	76,171.5	0.583	1.051
1,153.00	0.0	53,991.8	130,389.5	0.998	2.049
1,154.00	0.0	76,318.2	194,501.6	1.488	3.538
1,155.00	0.0	102,975.9	267,944.8	2.050	5.588
1,156.00	0.0	129,707.6	348,255.0	2.665	8.253
1,156.10	0.0	132,474.2	393,265.5	0.301	8.554
1,157.00	0.0	155,287.5	431,189.7	2.970	11.523
1,158.00	0.0	180,603.4	503,358.6	3.852	15.375
1,159.00	0.0	207,925.9	582,313.0	4.456	19.831

WINN970905C Stormwater Report - Existing Conditions

Subsection: Elevation-Area Volume Curve

Return Event: 50 years

Label: Existing Basin

Storm Event: 50 year

Scenario: Post-Development 50 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	3,067.0	3,816.7	0.029	0.030
1,150.00	0.0	9,128.1	17,486.2	0.134	0.164
1,151.00	0.0	17,885.7	39,791.1	0.304	0.468
1,152.00	0.0	33,725.6	76,171.5	0.583	1.051
1,153.00	0.0	53,991.8	130,389.5	0.998	2.049
1,154.00	0.0	76,318.2	194,501.6	1.488	3.538
1,155.00	0.0	102,975.9	267,944.8	2.050	5.588
1,156.00	0.0	129,707.6	348,255.0	2.665	8.253
1,156.10	0.0	132,474.2	393,265.5	0.301	8.554
1,157.00	0.0	155,287.5	431,189.7	2.970	11.523
1,158.00	0.0	180,603.4	503,358.6	3.852	15.375
1,159.00	0.0	207,925.9	582,313.0	4.456	19.831

WINN970905C Stormwater Report - Existing Conditions

Subsection: Elevation-Area Volume Curve

Return Event: 100 years

Label: Existing Basin

Storm Event: 100 year

Scenario: Post-Development 100 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	3,067.0	3,816.7	0.029	0.030
1,150.00	0.0	9,128.1	17,486.2	0.134	0.164
1,151.00	0.0	17,885.7	39,791.1	0.304	0.468
1,152.00	0.0	33,725.6	76,171.5	0.583	1.051
1,153.00	0.0	53,991.8	130,389.5	0.998	2.049
1,154.00	0.0	76,318.2	194,501.6	1.488	3.538
1,155.00	0.0	102,975.9	267,944.8	2.050	5.588
1,156.00	0.0	129,707.6	348,255.0	2.665	8.253
1,156.10	0.0	132,474.2	393,265.5	0.301	8.554
1,157.00	0.0	155,287.5	431,189.7	2.970	11.523
1,158.00	0.0	180,603.4	503,358.6	3.852	15.375
1,159.00	0.0	207,925.9	582,313.0	4.456	19.831

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Existing Conditions

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Existing Conditions

Index

C

Culvert (Outlet Input Data, 10 years (Post-Development 10 year))...53, 54, 55

Culvert (Outlet Input Data, 100 years (Post-Development 100 year))...62, 63, 64

Culvert (Outlet Input Data, 25 years (Post-Development 25 year))...56, 57, 58

Culvert (Outlet Input Data, 50 years (Post-Development 50 year))...59, 60, 61

E

East Ditch DA (Runoff CN-Area, 100 years (Post-Development 100 year))...15

East Ditch DA (Time of Concentration Calculations, 100 years (Post-Development 100 year))...11, 12

East Ditch DA (Unit Hydrograph Summary, 10 years (Post-Development 10 year))...17, 18

East Ditch DA (Unit Hydrograph Summary, 100 years (Post-Development 100 year))...23, 24

East Ditch DA (Unit Hydrograph Summary, 25 years (Post-Development 25 year))...19, 20

East Ditch DA (Unit Hydrograph Summary, 50 years (Post-Development 50 year))...21, 22

Existing Basin (Elevation-Area Volume Curve, 10 years (Post-Development 10 year))...49

Existing Basin (Elevation-Area Volume Curve, 100 years (Post-Development 100 year))...52

Existing Basin (Elevation-Area Volume Curve, 25 years (Post-Development 25 year))...50

Existing Basin (Elevation-Area Volume Curve, 50 years (Post-Development 50 year))...51

Existing Basin (OUT) (Time vs. Elevation, 10 years (Post-Development 10 year))...33, 34

Existing Basin (OUT) (Time vs. Elevation, 100 years (Post-Development 100 year))...39, 40

Existing Basin (OUT) (Time vs. Elevation, 25 years (Post-Development 25 year))...35, 36

Existing Basin (OUT) (Time vs. Elevation, 50 years (Post-Development 50 year))...37, 38

Existing Basin (Time vs. Volume, 10 years (Post-Development 10 year))...41, 42

Existing Basin (Time vs. Volume, 100 years (Post-Development 100 year))...47, 48

Existing Basin (Time vs. Volume, 25 years (Post-Development 25 year))...43, 44

Existing Basin (Time vs. Volume, 50 years (Post-Development 50 year))...45, 46

Existing Basin DA (Runoff CN-Area, 100 years (Post-Development 100 year))...16

Existing Basin DA (Time of Concentration Calculations, 100 years (Post-Development 100 year))...13, 14

Existing Basin DA (Unit Hydrograph Summary, 10 years (Post-Development 10 year))...25, 26

WINN970905C Stormwater Report - Existing Conditions

Existing Basin DA (Unit Hydrograph Summary, 100 years (Post-Development 100 year))...31, 32

Existing Basin DA (Unit Hydrograph Summary, 25 years (Post-Development 25 year))...27, 28

Existing Basin DA (Unit Hydrograph Summary, 50 years (Post-Development 50 year))...29, 30

M

Master Network Summary...1, 2

MSE4 (Time-Depth Curve, 10 years (Post-Development 10 year))...3, 4

MSE4 (Time-Depth Curve, 100 years (Post-Development 100 year))...5, 6

MSE4 (Time-Depth Curve, 25 years (Post-Development 25 year))...7, 8

MSE4 (Time-Depth Curve, 50 years (Post-Development 50 year))...9, 10

R

Road Overtop (Outlet Input Data, 10 years (Post-Development 10 year))...65, 66

Road Overtop (Outlet Input Data, 100 years (Post-Development 100 year))...71, 72

Road Overtop (Outlet Input Data, 25 years (Post-Development 25 year))...67, 68

Road Overtop (Outlet Input Data, 50 years (Post-Development 50 year))...69, 70

Table of Contents

	Master Network Summary	1
MSE4		
	Time-Depth Curve, 10 years (Post-Development 10 year)	4
	Time-Depth Curve, 100 years (Post-Development 100 year)	6
	Time-Depth Curve, 25 years (Post-Development 25 year)	8
	Time-Depth Curve, 50 years (Post-Development 50 year)	10
East Ditch DA		
	Time of Concentration Calculations, 100 years (Post-Development 100 year)	12
Wetland DA		
	Time of Concentration Calculations, 100 years (Post-Development 100 year)	14
East Ditch DA		
	Runoff CN-Area, 100 years (Post-Development 100 year)	16
Wetland DA		
	Runoff CN-Area, 100 years (Post-Development 100 year)	17
East Ditch DA		
	Unit Hydrograph Summary, 10 years (Post-Development 10 year)	18
	Unit Hydrograph Summary, 25 years (Post-Development 25 year)	20
	Unit Hydrograph Summary, 50 years (Post-Development 50 year)	22
	Unit Hydrograph Summary, 100 years (Post-Development 100 year)	24
Wetland DA		
	Unit Hydrograph Summary, 10 years (Post-Development 10 year)	26
	Unit Hydrograph Summary, 25 years (Post-Development 25 year)	28
	Unit Hydrograph Summary, 50 years (Post-Development 50 year)	30
	Unit Hydrograph Summary, 100 years (Post-Development 100 year)	32
Culvert (OUT)		
	Time vs. Elevation, 10 years (Post-Development 10 year)	34
	Time vs. Elevation, 25 years (Post-Development 25 year)	38
	Time vs. Elevation, 50 years (Post-Development 50 year)	42
	Time vs. Elevation, 100 years (Post-Development 100 year)	46
WINN C WETLAND (OUT)		
	Time vs. Elevation, 10 years (Post-Development 10 year)	50
	Time vs. Elevation, 25 years (Post-Development 25 year)	54

Table of Contents

	Time vs. Elevation, 50 years (Post-Development 50 year)	58
	Time vs. Elevation, 100 years (Post-Development 100 year)	62
Culvert		
	Time vs. Volume, 10 years (Post-Development 10 year)	66
	Time vs. Volume, 25 years (Post-Development 25 year)	70
	Time vs. Volume, 50 years (Post-Development 50 year)	74
	Time vs. Volume, 100 years (Post-Development 100 year)	78
WINN C WETLAND		
	Time vs. Volume, 10 years (Post-Development 10 year)	82
	Time vs. Volume, 25 years (Post-Development 25 year)	86
	Time vs. Volume, 50 years (Post-Development 50 year)	90
	Time vs. Volume, 100 years (Post-Development 100 year)	94
Culvert		
	Elevation-Area Volume Curve, 10 years (Post-Development 10 year)	98
	Elevation-Area Volume Curve, 25 years (Post-Development 25 year)	99
	Elevation-Area Volume Curve, 50 years (Post-Development 50 year)	100
	Elevation-Area Volume Curve, 100 years (Post-Development 100 year)	101
WINN C WETLAND		
	Elevation-Area Volume Curve, 10 years (Post-Development 10 year)	102
	Elevation-Area Volume Curve, 25 years (Post-Development 25 year)	103
	Elevation-Area Volume Curve, 50 years (Post-Development 50 year)	104
	Elevation-Area Volume Curve, 100 years (Post-Development 100 year)	105
40' Sheet Pile no Aux - Forward Only		
	Outlet Input Data, 10 years (Post-Development 10 year)	106
	Outlet Input Data, 25 years (Post-Development 25 year)	108
	Outlet Input Data, 50 years (Post-Development 50 year)	110
	Outlet Input Data, 100 years (Post-Development 100 year)	112
Culvert		
	Outlet Input Data, 10 years (Post-Development 10 year)	114
	Outlet Input Data, 25 years (Post-Development 25 year)	117
	Outlet Input Data, 50 years (Post-Development 50 year)	120
	Outlet Input Data, 100 years (Post-Development 100 year)	123
Road Overtop		

Table of Contents

Outlet Input Data, 10 years (Post-Development 10 year)	126
Outlet Input Data, 25 years (Post-Development 25 year)	128
Outlet Input Data, 50 years (Post-Development 50 year)	130
Outlet Input Data, 100 years (Post-Development 100 year)	132

HYDROLOGY & HYDRAULIC OUTPUT

PROPOSED CONDITIONS -
FORWARD FLOW ONLY

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Wetland DA	Post-Development 10 year	10	55.163	13.000	265.71
Wetland DA	Post-Development 25 year	25	76.897	13.000	372.29
Wetland DA	Post-Development 50 year	50	96.107	13.000	465.33
Wetland DA	Post-Development 100 year	100	117.486	13.000	567.75
East Ditch DA	Post-Development 10 year	10	0.956	12.300	10.79
East Ditch DA	Post-Development 25 year	25	1.317	12.300	14.76
East Ditch DA	Post-Development 50 year	50	1.633	12.300	18.18
East Ditch DA	Post-Development 100 year	100	1.985	12.300	21.92
East Waterway DA	Post-Development 10 year	10	2.645	12.400	25.27
East Waterway DA	Post-Development 25 year	25	3.734	12.400	35.66
East Waterway DA	Post-Development 50 year	50	4.703	12.400	44.74
East Waterway DA	Post-Development 100 year	100	5.785	12.400	54.74

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Culvert Outfall	Post-Development 10 year	10	54.802	13.200	223.28
Culvert Outfall	Post-Development 25 year	25	69.214	13.100	231.35
Culvert Outfall	Post-Development 50 year	50	79.750	13.100	236.48
Culvert Outfall	Post-Development 100 year	100	90.172	13.100	240.17
East Waterway Outfall	Post-Development 10 year	10	2.645	12.400	25.27
East Waterway Outfall	Post-Development 25 year	25	3.734	12.400	35.66
East Waterway Outfall	Post-Development 50 year	50	4.703	12.400	44.74
East Waterway Outfall	Post-Development 100 year	100	5.785	12.400	54.74

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Master Network Summary

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Road Overflow Outfall	Post-Development 10 year	10	1.317	13.200	36.48
Road Overflow Outfall	Post-Development 25 year	25	9.000	13.100	135.83
Road Overflow Outfall	Post-Development 50 year	50	17.991	13.100	222.72
Road Overflow Outfall	Post-Development 100 year	100	29.298	13.100	320.75

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
WINN C WETLAND (IN)	Post-Development 10 year	10	55.727	13.000	267.01	(N/A)	(N/A)
WINN C WETLAND (OUT)	Post-Development 10 year	10	55.727	13.200	259.90	1,155.57	6.805
WINN C WETLAND (IN)	Post-Development 25 year	25	77.599	13.000	373.66	(N/A)	(N/A)
WINN C WETLAND (OUT)	Post-Development 25 year	25	77.599	13.100	365.45	1,155.93	7.904
WINN C WETLAND (IN)	Post-Development 50 year	50	96.920	13.000	466.76	(N/A)	(N/A)
WINN C WETLAND (OUT)	Post-Development 50 year	50	96.920	13.100	457.45	1,156.21	8.784
WINN C WETLAND (IN)	Post-Development 100 year	100	118.411	13.000	569.24	(N/A)	(N/A)
WINN C WETLAND (OUT)	Post-Development 100 year	100	118.411	13.100	559.85	1,156.49	9.688
Culvert (IN)	Post-Development 10 year	10	56.120	13.200	260.41	(N/A)	(N/A)
Culvert (OUT)	Post-Development 10 year	10	56.120	13.200	259.76	1,156.50	1.890

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
Culvert (IN)	Post-Development 25 year	25	78.214	13.100	366.70	(N/A)	(N/A)
Culvert (OUT)	Post-Development 25 year	25	78.214	13.100	367.18	1,156.89	2.098
Culvert (IN)	Post-Development 50 year	50	97.740	13.100	459.19	(N/A)	(N/A)
Culvert (OUT)	Post-Development 50 year	50	97.740	13.100	459.19	1,157.14	2.240
Culvert (IN)	Post-Development 100 year	100	119.470	13.100	562.11	(N/A)	(N/A)
Culvert (OUT)	Post-Development 100 year	100	119.470	13.100	560.92	1,157.33	2.349
East Ditch Pond (IN)	Post-Development 10 year	10	0.956	12.300	10.79	(N/A)	(N/A)
East Ditch Pond (OUT)	Post-Development 10 year	10	0.956	12.300	10.41	1,163.04	0.005
East Ditch Pond (IN)	Post-Development 25 year	25	1.317	12.300	14.76	(N/A)	(N/A)
East Ditch Pond (OUT)	Post-Development 25 year	25	1.317	12.300	14.32	1,163.12	0.006
East Ditch Pond (IN)	Post-Development 50 year	50	1.633	12.300	18.18	(N/A)	(N/A)
East Ditch Pond (OUT)	Post-Development 50 year	50	1.633	12.300	17.70	1,163.18	0.006
East Ditch Pond (IN)	Post-Development 100 year	100	1.985	12.300	21.92	(N/A)	(N/A)
East Ditch Pond (OUT)	Post-Development 100 year	100	1.985	12.300	21.39	1,163.26	0.007

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Time-Depth Curve: 10 year

Label	10 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	10 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.0	0.0	0.0
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.1	0.1	0.1	0.1	0.1
4.000	0.1	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.2	0.2	0.2	0.2	0.2
5.500	0.2	0.2	0.3	0.3	0.3
6.000	0.3	0.3	0.3	0.3	0.3
6.500	0.3	0.3	0.3	0.3	0.3
7.000	0.4	0.4	0.4	0.4	0.4
7.500	0.4	0.4	0.4	0.4	0.4
8.000	0.4	0.5	0.5	0.5	0.5
8.500	0.5	0.5	0.5	0.5	0.5
9.000	0.5	0.6	0.6	0.6	0.6
9.500	0.6	0.6	0.7	0.7	0.7
10.000	0.7	0.7	0.7	0.8	0.8
10.500	0.8	0.8	0.9	0.9	0.9
11.000	1.0	1.0	1.1	1.1	1.2
11.500	1.2	1.3	1.4	1.5	1.7
12.000	2.1	2.7	2.9	3.1	3.2
12.500	3.3	3.3	3.4	3.4	3.5
13.000	3.5	3.6	3.6	3.6	3.7
13.500	3.7	3.7	3.7	3.7	3.8
14.000	3.8	3.8	3.8	3.8	3.8
14.500	3.9	3.9	3.9	3.9	3.9
15.000	3.9	3.9	4.0	4.0	4.0
15.500	4.0	4.0	4.0	4.0	4.0
16.000	4.0	4.0	4.1	4.1	4.1
16.500	4.1	4.1	4.1	4.1	4.1

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	4.1	4.1	4.1	4.2	4.2
17.500	4.2	4.2	4.2	4.2	4.2
18.000	4.2	4.2	4.2	4.2	4.2
18.500	4.2	4.2	4.3	4.3	4.3
19.000	4.3	4.3	4.3	4.3	4.3
19.500	4.3	4.3	4.3	4.3	4.3
20.000	4.3	4.3	4.3	4.4	4.4
20.500	4.4	4.4	4.4	4.4	4.4
21.000	4.4	4.4	4.4	4.4	4.4
21.500	4.4	4.4	4.4	4.4	4.4
22.000	4.4	4.4	4.4	4.4	4.4
22.500	4.4	4.4	4.4	4.5	4.5
23.000	4.5	4.5	4.5	4.5	4.5
23.500	4.5	4.5	4.5	4.5	4.5
24.000	4.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time-Depth Curve: 100 year

Label	100 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.2
3.000	0.2	0.2	0.2	0.2	0.2
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.3	0.3	0.3	0.3
4.500	0.3	0.3	0.3	0.3	0.3
5.000	0.3	0.4	0.4	0.4	0.4
5.500	0.4	0.4	0.4	0.4	0.4
6.000	0.5	0.5	0.5	0.5	0.5
6.500	0.5	0.5	0.6	0.6	0.6
7.000	0.6	0.6	0.6	0.6	0.6
7.500	0.7	0.7	0.7	0.7	0.7
8.000	0.7	0.8	0.8	0.8	0.8
8.500	0.8	0.8	0.9	0.9	0.9
9.000	0.9	0.9	1.0	1.0	1.0
9.500	1.0	1.1	1.1	1.1	1.2
10.000	1.2	1.2	1.2	1.3	1.3
10.500	1.3	1.4	1.4	1.5	1.6
11.000	1.6	1.7	1.8	1.8	1.9
11.500	2.0	2.2	2.3	2.6	2.9
12.000	3.5	4.6	4.9	5.1	5.3
12.500	5.4	5.5	5.6	5.7	5.8
13.000	5.9	5.9	6.0	6.0	6.1
13.500	6.1	6.2	6.2	6.2	6.3
14.000	6.3	6.3	6.4	6.4	6.4
14.500	6.4	6.5	6.5	6.5	6.5
15.000	6.6	6.6	6.6	6.6	6.6
15.500	6.7	6.7	6.7	6.7	6.7
16.000	6.7	6.8	6.8	6.8	6.8
16.500	6.8	6.8	6.8	6.9	6.9

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time-Depth Curve

Return Event: 100 years

Label: MSE4

Storm Event: 100 year

Scenario: Post-Development 100 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	6.9	6.9	6.9	6.9	6.9
17.500	7.0	7.0	7.0	7.0	7.0
18.000	7.0	7.0	7.0	7.1	7.1
18.500	7.1	7.1	7.1	7.1	7.1
19.000	7.1	7.1	7.2	7.2	7.2
19.500	7.2	7.2	7.2	7.2	7.2
20.000	7.2	7.2	7.3	7.3	7.3
20.500	7.3	7.3	7.3	7.3	7.3
21.000	7.3	7.3	7.3	7.3	7.4
21.500	7.4	7.4	7.4	7.4	7.4
22.000	7.4	7.4	7.4	7.4	7.4
22.500	7.4	7.4	7.4	7.4	7.4
23.000	7.4	7.4	7.5	7.5	7.5
23.500	7.5	7.5	7.5	7.5	7.5
24.000	7.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Time-Depth Curve: 25 year

Label	25 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	25 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.1	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.3	0.3	0.3	0.3	0.3
5.500	0.3	0.3	0.3	0.3	0.3
6.000	0.3	0.4	0.4	0.4	0.4
6.500	0.4	0.4	0.4	0.4	0.4
7.000	0.4	0.5	0.5	0.5	0.5
7.500	0.5	0.5	0.5	0.5	0.5
8.000	0.6	0.6	0.6	0.6	0.6
8.500	0.6	0.6	0.6	0.6	0.7
9.000	0.7	0.7	0.7	0.7	0.8
9.500	0.8	0.8	0.8	0.8	0.9
10.000	0.9	0.9	0.9	0.9	1.0
10.500	1.0	1.0	1.1	1.1	1.2
11.000	1.2	1.3	1.3	1.4	1.4
11.500	1.5	1.6	1.7	1.9	2.2
12.000	2.6	3.4	3.7	3.8	4.0
12.500	4.1	4.1	4.2	4.2	4.3
13.000	4.4	4.4	4.5	4.5	4.5
13.500	4.6	4.6	4.6	4.6	4.7
14.000	4.7	4.7	4.7	4.7	4.8
14.500	4.8	4.8	4.8	4.8	4.9
15.000	4.9	4.9	4.9	4.9	4.9
15.500	4.9	5.0	5.0	5.0	5.0
16.000	5.0	5.0	5.0	5.0	5.1
16.500	5.1	5.1	5.1	5.1	5.1

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time-Depth Curve

Return Event: 25 years

Label: MSE4

Storm Event: 25 year

Scenario: Post-Development 25 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	5.1	5.1	5.1	5.2	5.2
17.500	5.2	5.2	5.2	5.2	5.2
18.000	5.2	5.2	5.2	5.2	5.3
18.500	5.3	5.3	5.3	5.3	5.3
19.000	5.3	5.3	5.3	5.3	5.3
19.500	5.3	5.4	5.4	5.4	5.4
20.000	5.4	5.4	5.4	5.4	5.4
20.500	5.4	5.4	5.4	5.4	5.4
21.000	5.4	5.4	5.5	5.5	5.5
21.500	5.5	5.5	5.5	5.5	5.5
22.000	5.5	5.5	5.5	5.5	5.5
22.500	5.5	5.5	5.5	5.5	5.5
23.000	5.5	5.5	5.5	5.5	5.5
23.500	5.5	5.6	5.6	5.6	5.6
24.000	5.6	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Time-Depth Curve: 50 year

Label	50 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	50 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.2	0.2	0.2
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.3	0.3	0.3	0.3	0.3
5.000	0.3	0.3	0.3	0.3	0.3
5.500	0.3	0.4	0.4	0.4	0.4
6.000	0.4	0.4	0.4	0.4	0.4
6.500	0.5	0.5	0.5	0.5	0.5
7.000	0.5	0.5	0.5	0.6	0.6
7.500	0.6	0.6	0.6	0.6	0.6
8.000	0.6	0.7	0.7	0.7	0.7
8.500	0.7	0.7	0.7	0.8	0.8
9.000	0.8	0.8	0.8	0.9	0.9
9.500	0.9	0.9	1.0	1.0	1.0
10.000	1.0	1.1	1.1	1.1	1.1
10.500	1.2	1.2	1.2	1.3	1.3
11.000	1.4	1.5	1.5	1.6	1.7
11.500	1.8	1.9	2.0	2.2	2.5
12.000	3.0	4.0	4.3	4.5	4.6
12.500	4.7	4.8	4.9	4.9	5.0
13.000	5.1	5.1	5.2	5.2	5.3
13.500	5.3	5.3	5.4	5.4	5.4
14.000	5.5	5.5	5.5	5.5	5.6
14.500	5.6	5.6	5.6	5.6	5.7
15.000	5.7	5.7	5.7	5.7	5.8
15.500	5.8	5.8	5.8	5.8	5.8
16.000	5.8	5.9	5.9	5.9	5.9
16.500	5.9	5.9	5.9	5.9	6.0

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time-Depth Curve

Return Event: 50 years

Label: MSE4

Storm Event: 50 year

Scenario: Post-Development 50 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	6.0	6.0	6.0	6.0	6.0
17.500	6.0	6.0	6.0	6.1	6.1
18.000	6.1	6.1	6.1	6.1	6.1
18.500	6.1	6.1	6.2	6.2	6.2
19.000	6.2	6.2	6.2	6.2	6.2
19.500	6.2	6.2	6.2	6.3	6.3
20.000	6.3	6.3	6.3	6.3	6.3
20.500	6.3	6.3	6.3	6.3	6.3
21.000	6.3	6.3	6.4	6.4	6.4
21.500	6.4	6.4	6.4	6.4	6.4
22.000	6.4	6.4	6.4	6.4	6.4
22.500	6.4	6.4	6.4	6.4	6.4
23.000	6.4	6.5	6.5	6.5	6.5
23.500	6.5	6.5	6.5	6.5	6.5
24.000	6.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time of Concentration Calculations

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time of Concentration Results

Segment #1: SCS Lag

Hydraulic Length	1,136.78 ft
CN	74.000
Slope	0.037 ft/ft
Average Velocity	0.87 ft/s
Segment Time of Concentration	0.364 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.364 hours
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WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time of Concentration Calculations

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

==== SCS Lag

$T_c = 0.000877 * (L_f^{0.8}) * ((1000/CN)-9)^{0.7} * (S_f^{-0.5})$

Where: T_c = Time of concentration, hours
 L_f = Flow length, feet
 CN = SCS Curve Number
 S_f = Slope, ft/ft

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time of Concentration Calculations

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time of Concentration Results

Segment #1: SCS Lag

Hydraulic Length	4,600.00 ft
CN	79.000
Slope	0.016 ft/ft
Average Velocity	0.86 ft/s
Segment Time of Concentration	1.480 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	1.480 hours
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WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time of Concentration Calculations

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

==== SCS Lag

$T_c = 0.000877 * (L_f^{0.8}) * ((1000/CN)-9)^{0.7} * (S_f^{-0.5})$

Where: T_c = Time of concentration, hours
 L_f = Flow length, feet
 CN = SCS Curve Number
 S_f = Slope, ft/ft

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Runoff CN-Area

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (ft ²)	C (%)	UC (%)	Adjusted CN
Row crops - SR + Crop residue, good - Soil C	82.000	115,758.1	0.0	0.0	82.000
Pasture, grassland, or range - good - Soil C	74.000	57,707.2	0.0	0.0	74.000
Impervious Areas - Gravel (w/ right-of-way) - Soil C	89.000	23,985.4	0.0	0.0	89.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	197,450.7	(N/A)	(N/A)	80.512

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Runoff CN-Area

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (ft ²)	C (%)	UC (%)	Adjusted CN
Row crops - SR + Crop residue, good - Soil C	82.000	6,232,307.7	0.0	0.0	82.000
Residential Districts - 2 acre - Soil C	77.000	494,523.9	0.0	0.0	77.000
Pasture, grassland, or range - good - Soil C	74.000	2,023,116.0	0.0	0.0	74.000
Woods - grass combination - good - Soil C	72.000	90,483.6	0.0	0.0	72.000
Pasture, grassland, or range - good - Soil C	74.000	546,361.2	0.0	0.0	74.000
Impervious Areas - Gravel (w/ right-of-way) - Soil C	89.000	162,250.5	0.0	0.0	89.000
Row crops - SR + Crop residue, good - Soil B	75.000	2,670,989.0	0.0	0.0	75.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	12,220,031.9	(N/A)	(N/A)	78.604

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Storm Event	10 year
Return Event	10 years
Duration	72.000 hours
Depth	4.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	10.89 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	10.79 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.5 in
Runoff Volume (Pervious)	0.956 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.956 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Storm Event	25 year
Return Event	25 years
Duration	72.000 hours
Depth	5.6 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	14.98 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	14.76 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.5 in
Runoff Volume (Pervious)	1.316 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.317 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Storm Event	50 year
Return Event	50 years
Duration	72.000 hours
Depth	6.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²
Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	18.52 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	18.18 ft ³ /s
Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.3 in
Runoff Volume (Pervious)	1.633 ac-ft
Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.633 ac-ft
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Storm Event	100 year
Return Event	100 years
Duration	72.000 hours
Depth	7.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	22.39 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	21.92 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.3 in
Runoff Volume (Pervious)	1.984 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.985 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Storm Event	10 year
Return Event	10 years
Duration	72.000 hours
Depth	4.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²
Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	267.20 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	265.71 ft ³ /s
Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.4 in
Runoff Volume (Pervious)	55.164 ac-ft
Hydrograph Volume (Area under Hydrograph curve)	
Volume	55.163 ac-ft
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Storm Event	25 year
Return Event	25 years
Duration	72.000 hours
Depth	5.6 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²

Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	373.98 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	372.29 ft ³ /s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.3 in
Runoff Volume (Pervious)	76.899 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	76.897 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Storm Event	50 year
Return Event	50 years
Duration	72.000 hours
Depth	6.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²

Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	467.17 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	465.33 ft ³ /s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	96.109 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	96.107 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Storm Event	100 year
Return Event	100 years
Duration	72.000 hours
Depth	7.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²
Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	569.71 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	567.75 ft ³ /s
Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	117.489 ac-ft
Hydrograph Volume (Area under Hydrograph curve)	
Volume	117.486 ac-ft
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Culvert (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
8.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
8.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
9.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.11
9.500	1,147.11	1,147.11	1,147.12	1,147.13	1,147.15
10.000	1,147.17	1,147.19	1,147.22	1,147.25	1,147.30
10.500	1,147.34	1,147.39	1,147.45	1,147.52	1,147.60
11.000	1,147.64	1,147.69	1,147.75	1,147.82	1,147.91
11.500	1,148.01	1,148.12	1,148.23	1,148.43	1,148.73
12.000	1,149.07	1,149.49	1,150.04	1,150.68	1,151.38
12.500	1,152.19	1,152.96	1,153.63	1,154.46	1,155.32
13.000	1,156.06	1,156.44	1,156.50	1,156.48	1,156.42
13.500	1,156.32	1,156.19	1,156.00	1,155.69	1,155.23
14.000	1,154.70	1,154.09	1,153.40	1,152.84	1,152.40
14.500	1,152.05	1,151.77	1,151.52	1,151.29	1,151.11
15.000	1,150.96	1,150.80	1,150.66	1,150.53	1,150.40
15.500	1,150.28	1,150.17	1,150.06	1,149.96	1,149.86
16.000	1,149.76	1,149.67	1,149.59	1,149.50	1,149.42
16.500	1,149.35	1,149.29	1,149.23	1,149.17	1,149.13
17.000	1,149.08	1,149.04	1,149.00	1,148.97	1,148.94
17.500	1,148.92	1,148.89	1,148.87	1,148.85	1,148.83
18.000	1,148.82	1,148.80	1,148.79	1,148.77	1,148.76
18.500	1,148.74	1,148.73	1,148.72	1,148.71	1,148.69
19.000	1,148.68	1,148.67	1,148.66	1,148.65	1,148.63
19.500	1,148.62	1,148.61	1,148.60	1,148.59	1,148.57

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Culvert (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,148.56	1,148.54	1,148.53	1,148.52	1,148.50
20.500	1,148.49	1,148.48	1,148.46	1,148.45	1,148.43
21.000	1,148.42	1,148.41	1,148.39	1,148.38	1,148.36
21.500	1,148.35	1,148.34	1,148.32	1,148.31	1,148.30
22.000	1,148.28	1,148.27	1,148.27	1,148.26	1,148.25
22.500	1,148.23	1,148.22	1,148.21	1,148.20	1,148.19
23.000	1,148.17	1,148.16	1,148.15	1,148.13	1,148.12
23.500	1,148.10	1,148.09	1,148.07	1,148.05	1,148.03
24.000	1,148.01	1,148.00	1,147.98	1,147.96	1,147.94
24.500	1,147.91	1,147.89	1,147.86	1,147.83	1,147.80
25.000	1,147.77	1,147.74	1,147.71	1,147.68	1,147.65
25.500	1,147.62	1,147.58	1,147.53	1,147.48	1,147.43
26.000	1,147.39	1,147.36	1,147.32	1,147.30	1,147.27
26.500	1,147.25	1,147.23	1,147.21	1,147.20	1,147.18
27.000	1,147.17	1,147.16	1,147.15	1,147.15	1,147.14
27.500	1,147.13	1,147.13	1,147.12	1,147.12	1,147.12
28.000	1,147.11	1,147.11	1,147.11	1,147.11	1,147.11
28.500	1,147.11	1,147.10	1,147.10	1,147.10	1,147.10
29.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
29.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
30.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
30.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
31.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
31.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
32.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
32.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
33.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
33.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
34.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
34.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
35.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
35.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
36.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
36.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
37.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
37.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
38.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
38.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
39.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
39.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
40.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Culvert (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
41.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
41.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
42.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
42.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
43.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
43.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
44.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
44.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
45.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
45.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
46.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
46.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
47.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
47.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
48.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
48.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
49.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
49.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
50.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
50.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
51.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
51.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
52.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
52.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
53.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
53.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
54.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
54.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
55.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
55.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
56.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
56.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
57.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
57.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
58.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
58.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
59.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
59.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
60.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
60.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Culvert (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
61.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
62.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
62.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
63.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
63.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
64.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
64.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
65.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
65.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
66.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
66.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
67.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
67.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
68.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
68.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
69.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
69.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
70.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
70.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
71.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
71.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
72.000	1,147.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Culvert (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
8.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.11
8.500	1,147.11	1,147.11	1,147.12	1,147.13	1,147.14
9.000	1,147.15	1,147.17	1,147.18	1,147.21	1,147.24
9.500	1,147.27	1,147.31	1,147.36	1,147.41	1,147.47
10.000	1,147.54	1,147.61	1,147.65	1,147.69	1,147.74
10.500	1,147.79	1,147.84	1,147.89	1,147.96	1,148.02
11.000	1,148.10	1,148.16	1,148.24	1,148.37	1,148.56
11.500	1,148.72	1,148.90	1,149.11	1,149.32	1,149.60
12.000	1,149.95	1,150.44	1,151.09	1,151.96	1,152.87
12.500	1,153.65	1,154.70	1,155.90	1,156.65	1,156.81
13.000	1,156.84	1,156.89	1,156.88	1,156.86	1,156.81
13.500	1,156.76	1,156.69	1,156.62	1,156.51	1,156.33
14.000	1,156.15	1,155.89	1,155.49	1,154.97	1,154.38
14.500	1,153.70	1,153.06	1,152.61	1,152.19	1,151.93
15.000	1,151.70	1,151.49	1,151.30	1,151.16	1,151.03
15.500	1,150.91	1,150.78	1,150.66	1,150.54	1,150.42
16.000	1,150.30	1,150.19	1,150.09	1,149.99	1,149.89
16.500	1,149.80	1,149.72	1,149.65	1,149.59	1,149.52
17.000	1,149.47	1,149.42	1,149.37	1,149.34	1,149.30
17.500	1,149.27	1,149.24	1,149.22	1,149.20	1,149.18
18.000	1,149.16	1,149.14	1,149.12	1,149.10	1,149.09
18.500	1,149.07	1,149.05	1,149.03	1,149.02	1,149.00
19.000	1,148.99	1,148.97	1,148.95	1,148.94	1,148.92
19.500	1,148.91	1,148.89	1,148.88	1,148.86	1,148.85

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Culvert (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,148.83	1,148.81	1,148.80	1,148.78	1,148.77
20.500	1,148.75	1,148.74	1,148.72	1,148.71	1,148.69
21.000	1,148.68	1,148.66	1,148.65	1,148.63	1,148.62
21.500	1,148.60	1,148.58	1,148.56	1,148.55	1,148.53
22.000	1,148.51	1,148.49	1,148.47	1,148.45	1,148.44
22.500	1,148.42	1,148.40	1,148.38	1,148.36	1,148.34
23.000	1,148.33	1,148.31	1,148.29	1,148.28	1,148.27
23.500	1,148.25	1,148.24	1,148.23	1,148.21	1,148.19
24.000	1,148.18	1,148.16	1,148.14	1,148.12	1,148.10
24.500	1,148.08	1,148.05	1,148.01	1,147.98	1,147.94
25.000	1,147.90	1,147.86	1,147.82	1,147.77	1,147.73
25.500	1,147.70	1,147.66	1,147.63	1,147.59	1,147.53
26.000	1,147.48	1,147.43	1,147.39	1,147.35	1,147.32
26.500	1,147.29	1,147.27	1,147.24	1,147.22	1,147.21
27.000	1,147.19	1,147.18	1,147.17	1,147.16	1,147.15
27.500	1,147.14	1,147.14	1,147.13	1,147.13	1,147.12
28.000	1,147.12	1,147.12	1,147.11	1,147.11	1,147.11
28.500	1,147.11	1,147.11	1,147.11	1,147.10	1,147.10
29.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
29.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
30.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
30.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
31.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
31.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
32.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
32.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
33.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
33.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
34.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
34.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
35.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
35.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
36.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
36.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
37.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
37.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
38.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
38.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
39.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
39.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
40.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Culvert (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
41.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
41.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
42.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
42.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
43.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
43.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
44.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
44.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
45.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
45.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
46.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
46.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
47.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
47.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
48.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
48.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
49.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
49.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
50.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
50.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
51.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
51.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
52.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
52.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
53.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
53.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
54.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
54.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
55.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
55.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
56.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
56.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
57.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
57.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
58.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
58.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
59.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
59.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
60.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
60.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Culvert (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
61.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
62.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
62.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
63.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
63.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
64.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
64.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
65.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
65.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
66.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
66.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
67.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
67.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
68.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
68.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
69.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
69.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
70.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
70.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
71.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
71.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
72.000	1,147.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Culvert (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.500	1,147.10	1,147.10	1,147.11	1,147.11	1,147.11
8.000	1,147.12	1,147.13	1,147.14	1,147.15	1,147.17
8.500	1,147.19	1,147.22	1,147.25	1,147.28	1,147.31
9.000	1,147.35	1,147.39	1,147.44	1,147.49	1,147.55
9.500	1,147.60	1,147.64	1,147.68	1,147.72	1,147.77
10.000	1,147.82	1,147.87	1,147.93	1,148.00	1,148.07
10.500	1,148.13	1,148.19	1,148.25	1,148.34	1,148.46
11.000	1,148.58	1,148.69	1,148.81	1,148.95	1,149.11
11.500	1,149.27	1,149.45	1,149.67	1,149.91	1,150.23
12.000	1,150.64	1,151.20	1,152.05	1,152.99	1,153.89
12.500	1,155.07	1,156.28	1,156.84	1,156.95	1,157.07
13.000	1,157.12	1,157.14	1,157.13	1,157.11	1,157.06
13.500	1,156.99	1,156.90	1,156.81	1,156.72	1,156.64
14.000	1,156.54	1,156.38	1,156.19	1,155.96	1,155.60
14.500	1,155.11	1,154.54	1,153.89	1,153.25	1,152.76
15.000	1,152.38	1,152.10	1,151.88	1,151.69	1,151.51
15.500	1,151.35	1,151.21	1,151.09	1,150.96	1,150.84
16.000	1,150.72	1,150.60	1,150.48	1,150.36	1,150.26
16.500	1,150.16	1,150.07	1,149.98	1,149.90	1,149.83
17.000	1,149.77	1,149.72	1,149.67	1,149.63	1,149.59
17.500	1,149.56	1,149.52	1,149.49	1,149.47	1,149.44
18.000	1,149.42	1,149.39	1,149.37	1,149.35	1,149.33
18.500	1,149.31	1,149.30	1,149.28	1,149.26	1,149.24
19.000	1,149.23	1,149.21	1,149.19	1,149.17	1,149.16
19.500	1,149.14	1,149.13	1,149.11	1,149.09	1,149.07

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Culvert (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,149.05	1,149.04	1,149.02	1,149.00	1,148.98
20.500	1,148.96	1,148.94	1,148.93	1,148.91	1,148.89
21.000	1,148.87	1,148.85	1,148.83	1,148.82	1,148.80
21.500	1,148.78	1,148.76	1,148.74	1,148.72	1,148.71
22.000	1,148.69	1,148.67	1,148.65	1,148.63	1,148.61
22.500	1,148.59	1,148.57	1,148.55	1,148.53	1,148.50
23.000	1,148.48	1,148.46	1,148.44	1,148.42	1,148.39
23.500	1,148.37	1,148.35	1,148.33	1,148.30	1,148.28
24.000	1,148.27	1,148.26	1,148.24	1,148.22	1,148.20
24.500	1,148.18	1,148.15	1,148.12	1,148.09	1,148.05
25.000	1,148.00	1,147.95	1,147.90	1,147.85	1,147.81
25.500	1,147.76	1,147.72	1,147.68	1,147.64	1,147.61
26.000	1,147.55	1,147.50	1,147.45	1,147.40	1,147.36
26.500	1,147.33	1,147.30	1,147.27	1,147.25	1,147.23
27.000	1,147.21	1,147.20	1,147.18	1,147.17	1,147.16
27.500	1,147.15	1,147.14	1,147.14	1,147.13	1,147.13
28.000	1,147.12	1,147.12	1,147.12	1,147.11	1,147.11
28.500	1,147.11	1,147.11	1,147.11	1,147.11	1,147.10
29.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
29.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
30.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
30.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
31.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
31.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
32.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
32.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
33.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
33.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
34.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
34.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
35.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
35.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
36.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
36.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
37.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
37.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
38.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
38.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
39.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
39.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
40.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Culvert (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
41.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
41.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
42.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
42.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
43.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
43.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
44.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
44.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
45.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
45.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
46.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
46.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
47.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
47.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
48.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
48.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
49.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
49.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
50.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
50.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
51.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
51.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
52.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
52.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
53.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
53.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
54.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
54.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
55.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
55.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
56.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
56.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
57.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
57.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
58.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
58.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
59.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
59.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
60.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
60.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Culvert (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
61.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
62.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
62.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
63.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
63.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
64.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
64.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
65.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
65.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
66.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
66.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
67.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
67.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
68.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
68.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
69.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
69.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
70.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
70.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
71.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
71.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
72.000	1,147.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Culvert (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.11	1,147.11	1,147.11	1,147.12
7.500	1,147.13	1,147.15	1,147.16	1,147.18	1,147.21
8.000	1,147.24	1,147.27	1,147.31	1,147.35	1,147.39
8.500	1,147.44	1,147.49	1,147.55	1,147.60	1,147.63
9.000	1,147.66	1,147.69	1,147.73	1,147.76	1,147.80
9.500	1,147.85	1,147.90	1,147.95	1,148.01	1,148.07
10.000	1,148.14	1,148.19	1,148.26	1,148.36	1,148.48
10.500	1,148.59	1,148.68	1,148.76	1,148.85	1,148.94
11.000	1,149.04	1,149.16	1,149.28	1,149.43	1,149.60
11.500	1,149.79	1,150.00	1,150.24	1,150.52	1,150.88
12.000	1,151.37	1,152.11	1,152.98	1,153.93	1,155.19
12.500	1,156.42	1,156.94	1,157.06	1,157.20	1,157.26
13.000	1,157.32	1,157.33	1,157.32	1,157.29	1,157.24
13.500	1,157.18	1,157.11	1,157.02	1,156.91	1,156.81
14.000	1,156.72	1,156.65	1,156.54	1,156.38	1,156.19
14.500	1,155.96	1,155.60	1,155.12	1,154.58	1,153.96
15.000	1,153.34	1,152.87	1,152.54	1,152.25	1,152.05
15.500	1,151.86	1,151.69	1,151.52	1,151.36	1,151.22
16.000	1,151.10	1,150.98	1,150.86	1,150.74	1,150.63
16.500	1,150.52	1,150.41	1,150.32	1,150.23	1,150.16
17.000	1,150.09	1,150.02	1,149.97	1,149.92	1,149.87
17.500	1,149.84	1,149.80	1,149.77	1,149.74	1,149.71
18.000	1,149.69	1,149.66	1,149.64	1,149.62	1,149.60
18.500	1,149.57	1,149.55	1,149.53	1,149.51	1,149.49
19.000	1,149.47	1,149.45	1,149.43	1,149.41	1,149.39
19.500	1,149.37	1,149.35	1,149.33	1,149.31	1,149.29

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Culvert (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,149.27	1,149.26	1,149.24	1,149.22	1,149.20
20.500	1,149.18	1,149.16	1,149.14	1,149.12	1,149.10
21.000	1,149.08	1,149.06	1,149.04	1,149.02	1,148.99
21.500	1,148.97	1,148.95	1,148.93	1,148.91	1,148.88
22.000	1,148.86	1,148.84	1,148.82	1,148.80	1,148.77
22.500	1,148.75	1,148.73	1,148.71	1,148.69	1,148.66
23.000	1,148.64	1,148.62	1,148.60	1,148.57	1,148.55
23.500	1,148.52	1,148.49	1,148.47	1,148.44	1,148.42
24.000	1,148.39	1,148.36	1,148.33	1,148.30	1,148.28
24.500	1,148.26	1,148.23	1,148.21	1,148.17	1,148.14
25.000	1,148.10	1,148.04	1,147.99	1,147.93	1,147.88
25.500	1,147.83	1,147.78	1,147.73	1,147.69	1,147.65
26.000	1,147.61	1,147.57	1,147.51	1,147.46	1,147.41
26.500	1,147.37	1,147.33	1,147.30	1,147.28	1,147.25
27.000	1,147.23	1,147.21	1,147.20	1,147.18	1,147.17
27.500	1,147.16	1,147.15	1,147.14	1,147.14	1,147.13
28.000	1,147.13	1,147.12	1,147.12	1,147.12	1,147.11
28.500	1,147.11	1,147.11	1,147.11	1,147.11	1,147.10
29.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
29.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
30.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
30.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
31.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
31.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
32.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
32.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
33.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
33.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
34.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
34.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
35.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
35.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
36.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
36.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
37.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
37.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
38.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
38.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
39.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
39.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
40.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Culvert (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
41.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
41.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
42.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
42.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
43.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
43.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
44.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
44.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
45.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
45.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
46.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
46.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
47.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
47.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
48.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
48.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
49.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
49.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
50.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
50.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
51.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
51.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
52.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
52.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
53.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
53.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
54.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
54.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
55.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
55.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
56.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
56.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
57.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
57.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
58.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
58.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
59.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
59.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
60.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
60.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Culvert (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
61.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
62.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
62.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
63.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
63.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
64.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
64.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
65.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
65.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
66.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
66.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
67.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
67.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
68.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
68.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
69.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
69.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
70.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
70.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
71.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
71.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
72.000	1,147.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 10 years

Label: WINN C WETLAND (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
0.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
9.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
9.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.11
10.000	1,154.11	1,154.11	1,154.11	1,154.12	1,154.12
10.500	1,154.13	1,154.13	1,154.14	1,154.14	1,154.15
11.000	1,154.16	1,154.17	1,154.19	1,154.20	1,154.22
11.500	1,154.24	1,154.27	1,154.30	1,154.33	1,154.37
12.000	1,154.42	1,154.48	1,154.57	1,154.69	1,154.84
12.500	1,154.98	1,155.13	1,155.28	1,155.40	1,155.48
13.000	1,155.54	1,155.57	1,155.57	1,155.55	1,155.52
13.500	1,155.47	1,155.41	1,155.35	1,155.29	1,155.22
14.000	1,155.16	1,155.10	1,155.04	1,154.99	1,154.94
14.500	1,154.90	1,154.86	1,154.82	1,154.79	1,154.76
15.000	1,154.73	1,154.70	1,154.67	1,154.64	1,154.62
15.500	1,154.60	1,154.58	1,154.56	1,154.54	1,154.52
16.000	1,154.51	1,154.49	1,154.48	1,154.46	1,154.45
16.500	1,154.44	1,154.43	1,154.42	1,154.41	1,154.41
17.000	1,154.40	1,154.40	1,154.39	1,154.39	1,154.38
17.500	1,154.38	1,154.38	1,154.37	1,154.37	1,154.37
18.000	1,154.37	1,154.36	1,154.36	1,154.36	1,154.36
18.500	1,154.36	1,154.35	1,154.35	1,154.35	1,154.35
19.000	1,154.35	1,154.35	1,154.34	1,154.34	1,154.34
19.500	1,154.34	1,154.34	1,154.34	1,154.33	1,154.33

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 10 years

Label: WINN C WETLAND (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,154.33	1,154.33	1,154.33	1,154.33	1,154.32
20.500	1,154.32	1,154.32	1,154.32	1,154.32	1,154.32
21.000	1,154.32	1,154.31	1,154.31	1,154.31	1,154.31
21.500	1,154.31	1,154.31	1,154.30	1,154.30	1,154.30
22.000	1,154.30	1,154.30	1,154.29	1,154.29	1,154.29
22.500	1,154.29	1,154.28	1,154.28	1,154.28	1,154.27
23.000	1,154.27	1,154.26	1,154.26	1,154.26	1,154.25
23.500	1,154.25	1,154.25	1,154.24	1,154.24	1,154.24
24.000	1,154.23	1,154.23	1,154.22	1,154.22	1,154.22
24.500	1,154.21	1,154.21	1,154.20	1,154.19	1,154.19
25.000	1,154.18	1,154.17	1,154.17	1,154.16	1,154.16
25.500	1,154.15	1,154.14	1,154.14	1,154.13	1,154.13
26.000	1,154.13	1,154.12	1,154.12	1,154.12	1,154.12
26.500	1,154.11	1,154.11	1,154.11	1,154.11	1,154.11
27.000	1,154.11	1,154.11	1,154.10	1,154.10	1,154.10
27.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
28.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
28.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
40.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 10 years

Label: WINN C WETLAND (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 10 years

Label: WINN C WETLAND (OUT)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
61.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
72.000	1,154.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 25 years

Label: WINN C WETLAND (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
0.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
9.000	1,154.11	1,154.11	1,154.11	1,154.11	1,154.11
9.500	1,154.12	1,154.12	1,154.13	1,154.13	1,154.14
10.000	1,154.15	1,154.15	1,154.16	1,154.17	1,154.18
10.500	1,154.19	1,154.20	1,154.21	1,154.23	1,154.24
11.000	1,154.26	1,154.28	1,154.30	1,154.32	1,154.34
11.500	1,154.37	1,154.39	1,154.42	1,154.45	1,154.50
12.000	1,154.56	1,154.65	1,154.78	1,154.92	1,155.09
12.500	1,155.28	1,155.45	1,155.62	1,155.75	1,155.85
13.000	1,155.91	1,155.93	1,155.93	1,155.90	1,155.85
13.500	1,155.79	1,155.71	1,155.62	1,155.54	1,155.46
14.000	1,155.38	1,155.32	1,155.25	1,155.19	1,155.12
14.500	1,155.07	1,155.01	1,154.96	1,154.92	1,154.88
15.000	1,154.85	1,154.82	1,154.80	1,154.77	1,154.74
15.500	1,154.72	1,154.69	1,154.67	1,154.64	1,154.62
16.000	1,154.60	1,154.58	1,154.56	1,154.54	1,154.53
16.500	1,154.51	1,154.50	1,154.49	1,154.48	1,154.47
17.000	1,154.46	1,154.45	1,154.45	1,154.44	1,154.44
17.500	1,154.43	1,154.43	1,154.42	1,154.42	1,154.42
18.000	1,154.41	1,154.41	1,154.41	1,154.41	1,154.40
18.500	1,154.40	1,154.40	1,154.40	1,154.39	1,154.39
19.000	1,154.39	1,154.39	1,154.38	1,154.38	1,154.38
19.500	1,154.38	1,154.38	1,154.37	1,154.37	1,154.37

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 25 years

Label: WINN C WETLAND (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,154.37	1,154.37	1,154.36	1,154.36	1,154.36
20.500	1,154.36	1,154.35	1,154.35	1,154.35	1,154.35
21.000	1,154.35	1,154.34	1,154.34	1,154.34	1,154.34
21.500	1,154.34	1,154.33	1,154.33	1,154.33	1,154.33
22.000	1,154.33	1,154.32	1,154.32	1,154.32	1,154.32
22.500	1,154.31	1,154.31	1,154.31	1,154.31	1,154.31
23.000	1,154.30	1,154.30	1,154.30	1,154.30	1,154.29
23.500	1,154.29	1,154.29	1,154.28	1,154.28	1,154.27
24.000	1,154.27	1,154.26	1,154.26	1,154.25	1,154.25
24.500	1,154.24	1,154.24	1,154.23	1,154.22	1,154.21
25.000	1,154.21	1,154.20	1,154.19	1,154.18	1,154.17
25.500	1,154.16	1,154.16	1,154.15	1,154.15	1,154.14
26.000	1,154.14	1,154.13	1,154.13	1,154.12	1,154.12
26.500	1,154.12	1,154.12	1,154.11	1,154.11	1,154.11
27.000	1,154.11	1,154.11	1,154.11	1,154.11	1,154.10
27.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
28.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
28.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
40.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 25 years

Label: WINN C WETLAND (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 25 years

Label: WINN C WETLAND (OUT)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
61.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
72.000	1,154.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 50 years

Label: WINN C WETLAND (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
0.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.000	1,154.10	1,154.10	1,154.10	1,154.11	1,154.11
8.500	1,154.11	1,154.11	1,154.12	1,154.12	1,154.12
9.000	1,154.13	1,154.13	1,154.14	1,154.14	1,154.15
9.500	1,154.15	1,154.16	1,154.17	1,154.18	1,154.19
10.000	1,154.20	1,154.21	1,154.22	1,154.24	1,154.25
10.500	1,154.27	1,154.28	1,154.30	1,154.31	1,154.33
11.000	1,154.34	1,154.36	1,154.38	1,154.39	1,154.42
11.500	1,154.44	1,154.47	1,154.51	1,154.55	1,154.61
12.000	1,154.69	1,154.81	1,154.94	1,155.11	1,155.30
12.500	1,155.50	1,155.70	1,155.88	1,156.03	1,156.13
13.000	1,156.19	1,156.21	1,156.20	1,156.16	1,156.10
13.500	1,156.02	1,155.93	1,155.84	1,155.74	1,155.65
14.000	1,155.56	1,155.48	1,155.40	1,155.33	1,155.27
14.500	1,155.20	1,155.14	1,155.08	1,155.03	1,154.99
15.000	1,154.95	1,154.91	1,154.88	1,154.85	1,154.83
15.500	1,154.80	1,154.78	1,154.76	1,154.73	1,154.70
16.000	1,154.68	1,154.66	1,154.63	1,154.61	1,154.59
16.500	1,154.58	1,154.56	1,154.55	1,154.53	1,154.52
17.000	1,154.51	1,154.50	1,154.49	1,154.49	1,154.48
17.500	1,154.48	1,154.47	1,154.47	1,154.46	1,154.46
18.000	1,154.45	1,154.45	1,154.45	1,154.44	1,154.44
18.500	1,154.44	1,154.44	1,154.43	1,154.43	1,154.43
19.000	1,154.42	1,154.42	1,154.42	1,154.42	1,154.41
19.500	1,154.41	1,154.41	1,154.41	1,154.40	1,154.40

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 50 years

Label: WINN C WETLAND (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,154.40	1,154.40	1,154.39	1,154.39	1,154.39
20.500	1,154.39	1,154.38	1,154.38	1,154.38	1,154.38
21.000	1,154.37	1,154.37	1,154.37	1,154.37	1,154.36
21.500	1,154.36	1,154.36	1,154.36	1,154.35	1,154.35
22.000	1,154.35	1,154.34	1,154.34	1,154.34	1,154.34
22.500	1,154.33	1,154.33	1,154.33	1,154.33	1,154.32
23.000	1,154.32	1,154.32	1,154.32	1,154.31	1,154.31
23.500	1,154.31	1,154.31	1,154.30	1,154.30	1,154.30
24.000	1,154.29	1,154.29	1,154.29	1,154.28	1,154.28
24.500	1,154.27	1,154.26	1,154.25	1,154.24	1,154.24
25.000	1,154.23	1,154.22	1,154.21	1,154.20	1,154.19
25.500	1,154.18	1,154.17	1,154.16	1,154.15	1,154.15
26.000	1,154.14	1,154.14	1,154.13	1,154.13	1,154.12
26.500	1,154.12	1,154.12	1,154.12	1,154.11	1,154.11
27.000	1,154.11	1,154.11	1,154.11	1,154.11	1,154.11
27.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
28.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
28.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
40.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 50 years

Label: WINN C WETLAND (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 50 years

Label: WINN C WETLAND (OUT)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
61.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
72.000	1,154.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 100 years

Label: WINN C WETLAND (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
0.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.500	1,154.10	1,154.11	1,154.11	1,154.11	1,154.11
8.000	1,154.11	1,154.12	1,154.12	1,154.13	1,154.13
8.500	1,154.14	1,154.14	1,154.15	1,154.15	1,154.16
9.000	1,154.17	1,154.17	1,154.18	1,154.19	1,154.20
9.500	1,154.20	1,154.21	1,154.23	1,154.24	1,154.25
10.000	1,154.27	1,154.28	1,154.30	1,154.32	1,154.33
10.500	1,154.34	1,154.35	1,154.37	1,154.38	1,154.39
11.000	1,154.41	1,154.42	1,154.44	1,154.47	1,154.50
11.500	1,154.53	1,154.57	1,154.61	1,154.67	1,154.74
12.000	1,154.84	1,154.95	1,155.11	1,155.30	1,155.51
12.500	1,155.74	1,155.96	1,156.15	1,156.31	1,156.42
13.000	1,156.48	1,156.49	1,156.48	1,156.43	1,156.36
13.500	1,156.27	1,156.16	1,156.05	1,155.94	1,155.84
14.000	1,155.74	1,155.65	1,155.56	1,155.48	1,155.40
14.500	1,155.33	1,155.27	1,155.21	1,155.15	1,155.10
15.000	1,155.05	1,155.01	1,154.97	1,154.94	1,154.91
15.500	1,154.88	1,154.85	1,154.83	1,154.81	1,154.78
16.000	1,154.76	1,154.73	1,154.71	1,154.68	1,154.66
16.500	1,154.64	1,154.62	1,154.61	1,154.59	1,154.58
17.000	1,154.56	1,154.55	1,154.55	1,154.54	1,154.53
17.500	1,154.52	1,154.52	1,154.51	1,154.51	1,154.50
18.000	1,154.50	1,154.49	1,154.49	1,154.49	1,154.48
18.500	1,154.48	1,154.48	1,154.47	1,154.47	1,154.47
19.000	1,154.46	1,154.46	1,154.46	1,154.45	1,154.45
19.500	1,154.45	1,154.44	1,154.44	1,154.44	1,154.44

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 100 years

Label: WINN C WETLAND (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,154.43	1,154.43	1,154.43	1,154.42	1,154.42
20.500	1,154.42	1,154.41	1,154.41	1,154.41	1,154.41
21.000	1,154.40	1,154.40	1,154.40	1,154.39	1,154.39
21.500	1,154.39	1,154.38	1,154.38	1,154.38	1,154.37
22.000	1,154.37	1,154.37	1,154.37	1,154.36	1,154.36
22.500	1,154.36	1,154.35	1,154.35	1,154.35	1,154.34
23.000	1,154.34	1,154.34	1,154.34	1,154.33	1,154.33
23.500	1,154.33	1,154.32	1,154.32	1,154.32	1,154.31
24.000	1,154.31	1,154.31	1,154.30	1,154.30	1,154.30
24.500	1,154.29	1,154.28	1,154.27	1,154.27	1,154.26
25.000	1,154.24	1,154.23	1,154.22	1,154.21	1,154.20
25.500	1,154.19	1,154.18	1,154.17	1,154.16	1,154.16
26.000	1,154.15	1,154.14	1,154.14	1,154.13	1,154.13
26.500	1,154.12	1,154.12	1,154.12	1,154.12	1,154.11
27.000	1,154.11	1,154.11	1,154.11	1,154.11	1,154.11
27.500	1,154.11	1,154.10	1,154.10	1,154.10	1,154.10
28.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
28.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
40.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 100 years

Label: WINN C WETLAND (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Elevation

Return Event: 100 years

Label: WINN C WETLAND (OUT)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
61.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
72.000	1,154.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000	0.000	0.000
10.500	0.000	0.000	0.000	0.000	0.000
11.000	0.000	0.000	0.000	0.001	0.001
11.500	0.001	0.001	0.002	0.005	0.014
12.000	0.033	0.065	0.117	0.191	0.289
12.500	0.429	0.593	0.767	1.020	1.346
13.000	1.673	1.858	1.890	1.882	1.849
13.500	1.797	1.734	1.645	1.501	1.309
14.000	1.107	0.900	0.704	0.566	0.471
14.500	0.402	0.353	0.311	0.276	0.250
15.000	0.228	0.207	0.189	0.172	0.157
15.500	0.143	0.131	0.120	0.109	0.099
16.000	0.089	0.081	0.074	0.066	0.060
16.500	0.054	0.049	0.045	0.041	0.037
17.000	0.034	0.031	0.029	0.027	0.025
17.500	0.023	0.022	0.021	0.020	0.019
18.000	0.018	0.017	0.017	0.016	0.015
18.500	0.015	0.014	0.014	0.013	0.013
19.000	0.012	0.012	0.012	0.011	0.011
19.500	0.010	0.010	0.010	0.009	0.009

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.008	0.008	0.008	0.007	0.007
20.500	0.007	0.006	0.006	0.006	0.005
21.000	0.005	0.005	0.005	0.004	0.004
21.500	0.004	0.004	0.004	0.003	0.003
22.000	0.003	0.003	0.003	0.003	0.003
22.500	0.002	0.002	0.002	0.002	0.002
23.000	0.002	0.002	0.002	0.002	0.001
23.500	0.001	0.001	0.001	0.001	0.001
24.000	0.001	0.001	0.001	0.001	0.001
24.500	0.001	0.001	0.001	0.001	0.000
25.000	0.000	0.000	0.000	0.000	0.000
25.500	0.000	0.000	0.000	0.000	0.000
26.000	0.000	0.000	0.000	0.000	0.000
26.500	0.000	0.000	0.000	0.000	0.000
27.000	0.000	0.000	0.000	0.000	0.000
27.500	0.000	0.000	0.000	0.000	0.000
28.000	0.000	0.000	0.000	0.000	0.000
28.500	0.000	0.000	0.000	0.000	0.000
29.000	0.000	0.000	0.000	0.000	0.000
29.500	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
30.500	0.000	0.000	0.000	0.000	0.000
31.000	0.000	0.000	0.000	0.000	0.000
31.500	0.000	0.000	0.000	0.000	0.000
32.000	0.000	0.000	0.000	0.000	0.000
32.500	0.000	0.000	0.000	0.000	0.000
33.000	0.000	0.000	0.000	0.000	0.000
33.500	0.000	0.000	0.000	0.000	0.000
34.000	0.000	0.000	0.000	0.000	0.000
34.500	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
35.500	0.000	0.000	0.000	0.000	0.000
36.000	0.000	0.000	0.000	0.000	0.000
36.500	0.000	0.000	0.000	0.000	0.000
37.000	0.000	0.000	0.000	0.000	0.000
37.500	0.000	0.000	0.000	0.000	0.000
38.000	0.000	0.000	0.000	0.000	0.000
38.500	0.000	0.000	0.000	0.000	0.000
39.000	0.000	0.000	0.000	0.000	0.000
39.500	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	0.000	0.000	0.000	0.000	0.000
41.000	0.000	0.000	0.000	0.000	0.000
41.500	0.000	0.000	0.000	0.000	0.000
42.000	0.000	0.000	0.000	0.000	0.000
42.500	0.000	0.000	0.000	0.000	0.000
43.000	0.000	0.000	0.000	0.000	0.000
43.500	0.000	0.000	0.000	0.000	0.000
44.000	0.000	0.000	0.000	0.000	0.000
44.500	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.000	0.000	0.000
45.500	0.000	0.000	0.000	0.000	0.000
46.000	0.000	0.000	0.000	0.000	0.000
46.500	0.000	0.000	0.000	0.000	0.000
47.000	0.000	0.000	0.000	0.000	0.000
47.500	0.000	0.000	0.000	0.000	0.000
48.000	0.000	0.000	0.000	0.000	0.000
48.500	0.000	0.000	0.000	0.000	0.000
49.000	0.000	0.000	0.000	0.000	0.000
49.500	0.000	0.000	0.000	0.000	0.000
50.000	0.000	0.000	0.000	0.000	0.000
50.500	0.000	0.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000	0.000	0.000
51.500	0.000	0.000	0.000	0.000	0.000
52.000	0.000	0.000	0.000	0.000	0.000
52.500	0.000	0.000	0.000	0.000	0.000
53.000	0.000	0.000	0.000	0.000	0.000
53.500	0.000	0.000	0.000	0.000	0.000
54.000	0.000	0.000	0.000	0.000	0.000
54.500	0.000	0.000	0.000	0.000	0.000
55.000	0.000	0.000	0.000	0.000	0.000
55.500	0.000	0.000	0.000	0.000	0.000
56.000	0.000	0.000	0.000	0.000	0.000
56.500	0.000	0.000	0.000	0.000	0.000
57.000	0.000	0.000	0.000	0.000	0.000
57.500	0.000	0.000	0.000	0.000	0.000
58.000	0.000	0.000	0.000	0.000	0.000
58.500	0.000	0.000	0.000	0.000	0.000
59.000	0.000	0.000	0.000	0.000	0.000
59.500	0.000	0.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000	0.000	0.000
60.500	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	0.000	0.000	0.000	0.000	0.000
61.500	0.000	0.000	0.000	0.000	0.000
62.000	0.000	0.000	0.000	0.000	0.000
62.500	0.000	0.000	0.000	0.000	0.000
63.000	0.000	0.000	0.000	0.000	0.000
63.500	0.000	0.000	0.000	0.000	0.000
64.000	0.000	0.000	0.000	0.000	0.000
64.500	0.000	0.000	0.000	0.000	0.000
65.000	0.000	0.000	0.000	0.000	0.000
65.500	0.000	0.000	0.000	0.000	0.000
66.000	0.000	0.000	0.000	0.000	0.000
66.500	0.000	0.000	0.000	0.000	0.000
67.000	0.000	0.000	0.000	0.000	0.000
67.500	0.000	0.000	0.000	0.000	0.000
68.000	0.000	0.000	0.000	0.000	0.000
68.500	0.000	0.000	0.000	0.000	0.000
69.000	0.000	0.000	0.000	0.000	0.000
69.500	0.000	0.000	0.000	0.000	0.000
70.000	0.000	0.000	0.000	0.000	0.000
70.500	0.000	0.000	0.000	0.000	0.000
71.000	0.000	0.000	0.000	0.000	0.000
71.500	0.000	0.000	0.000	0.000	0.000
72.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000	0.000	0.000
10.500	0.000	0.001	0.001	0.001	0.001
11.000	0.001	0.002	0.002	0.004	0.008
11.500	0.014	0.023	0.036	0.052	0.075
12.000	0.108	0.162	0.247	0.387	0.573
12.500	0.771	1.106	1.596	1.969	2.057
13.000	2.074	2.098	2.094	2.082	2.057
13.500	2.025	1.990	1.954	1.893	1.804
14.000	1.714	1.591	1.414	1.207	0.995
14.500	0.785	0.618	0.514	0.430	0.381
15.000	0.341	0.307	0.278	0.256	0.238
15.500	0.221	0.204	0.188	0.173	0.159
16.000	0.145	0.133	0.122	0.111	0.102
16.500	0.093	0.086	0.079	0.073	0.068
17.000	0.063	0.059	0.056	0.053	0.050
17.500	0.048	0.046	0.044	0.042	0.041
18.000	0.039	0.038	0.037	0.036	0.034
18.500	0.033	0.032	0.031	0.030	0.029
19.000	0.028	0.027	0.026	0.025	0.024
19.500	0.023	0.022	0.021	0.020	0.020

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.019	0.018	0.017	0.017	0.016
20.500	0.015	0.015	0.014	0.013	0.013
21.000	0.012	0.012	0.011	0.011	0.010
21.500	0.010	0.009	0.009	0.008	0.008
22.000	0.007	0.007	0.006	0.006	0.005
22.500	0.005	0.005	0.004	0.004	0.004
23.000	0.004	0.003	0.003	0.003	0.003
23.500	0.003	0.002	0.002	0.002	0.002
24.000	0.002	0.002	0.002	0.002	0.001
24.500	0.001	0.001	0.001	0.001	0.001
25.000	0.001	0.001	0.001	0.000	0.000
25.500	0.000	0.000	0.000	0.000	0.000
26.000	0.000	0.000	0.000	0.000	0.000
26.500	0.000	0.000	0.000	0.000	0.000
27.000	0.000	0.000	0.000	0.000	0.000
27.500	0.000	0.000	0.000	0.000	0.000
28.000	0.000	0.000	0.000	0.000	0.000
28.500	0.000	0.000	0.000	0.000	0.000
29.000	0.000	0.000	0.000	0.000	0.000
29.500	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
30.500	0.000	0.000	0.000	0.000	0.000
31.000	0.000	0.000	0.000	0.000	0.000
31.500	0.000	0.000	0.000	0.000	0.000
32.000	0.000	0.000	0.000	0.000	0.000
32.500	0.000	0.000	0.000	0.000	0.000
33.000	0.000	0.000	0.000	0.000	0.000
33.500	0.000	0.000	0.000	0.000	0.000
34.000	0.000	0.000	0.000	0.000	0.000
34.500	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
35.500	0.000	0.000	0.000	0.000	0.000
36.000	0.000	0.000	0.000	0.000	0.000
36.500	0.000	0.000	0.000	0.000	0.000
37.000	0.000	0.000	0.000	0.000	0.000
37.500	0.000	0.000	0.000	0.000	0.000
38.000	0.000	0.000	0.000	0.000	0.000
38.500	0.000	0.000	0.000	0.000	0.000
39.000	0.000	0.000	0.000	0.000	0.000
39.500	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	0.000	0.000	0.000	0.000	0.000
41.000	0.000	0.000	0.000	0.000	0.000
41.500	0.000	0.000	0.000	0.000	0.000
42.000	0.000	0.000	0.000	0.000	0.000
42.500	0.000	0.000	0.000	0.000	0.000
43.000	0.000	0.000	0.000	0.000	0.000
43.500	0.000	0.000	0.000	0.000	0.000
44.000	0.000	0.000	0.000	0.000	0.000
44.500	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.000	0.000	0.000
45.500	0.000	0.000	0.000	0.000	0.000
46.000	0.000	0.000	0.000	0.000	0.000
46.500	0.000	0.000	0.000	0.000	0.000
47.000	0.000	0.000	0.000	0.000	0.000
47.500	0.000	0.000	0.000	0.000	0.000
48.000	0.000	0.000	0.000	0.000	0.000
48.500	0.000	0.000	0.000	0.000	0.000
49.000	0.000	0.000	0.000	0.000	0.000
49.500	0.000	0.000	0.000	0.000	0.000
50.000	0.000	0.000	0.000	0.000	0.000
50.500	0.000	0.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000	0.000	0.000
51.500	0.000	0.000	0.000	0.000	0.000
52.000	0.000	0.000	0.000	0.000	0.000
52.500	0.000	0.000	0.000	0.000	0.000
53.000	0.000	0.000	0.000	0.000	0.000
53.500	0.000	0.000	0.000	0.000	0.000
54.000	0.000	0.000	0.000	0.000	0.000
54.500	0.000	0.000	0.000	0.000	0.000
55.000	0.000	0.000	0.000	0.000	0.000
55.500	0.000	0.000	0.000	0.000	0.000
56.000	0.000	0.000	0.000	0.000	0.000
56.500	0.000	0.000	0.000	0.000	0.000
57.000	0.000	0.000	0.000	0.000	0.000
57.500	0.000	0.000	0.000	0.000	0.000
58.000	0.000	0.000	0.000	0.000	0.000
58.500	0.000	0.000	0.000	0.000	0.000
59.000	0.000	0.000	0.000	0.000	0.000
59.500	0.000	0.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000	0.000	0.000
60.500	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	0.000	0.000	0.000	0.000	0.000
61.500	0.000	0.000	0.000	0.000	0.000
62.000	0.000	0.000	0.000	0.000	0.000
62.500	0.000	0.000	0.000	0.000	0.000
63.000	0.000	0.000	0.000	0.000	0.000
63.500	0.000	0.000	0.000	0.000	0.000
64.000	0.000	0.000	0.000	0.000	0.000
64.500	0.000	0.000	0.000	0.000	0.000
65.000	0.000	0.000	0.000	0.000	0.000
65.500	0.000	0.000	0.000	0.000	0.000
66.000	0.000	0.000	0.000	0.000	0.000
66.500	0.000	0.000	0.000	0.000	0.000
67.000	0.000	0.000	0.000	0.000	0.000
67.500	0.000	0.000	0.000	0.000	0.000
68.000	0.000	0.000	0.000	0.000	0.000
68.500	0.000	0.000	0.000	0.000	0.000
69.000	0.000	0.000	0.000	0.000	0.000
69.500	0.000	0.000	0.000	0.000	0.000
70.000	0.000	0.000	0.000	0.000	0.000
70.500	0.000	0.000	0.000	0.000	0.000
71.000	0.000	0.000	0.000	0.000	0.000
71.500	0.000	0.000	0.000	0.000	0.000
72.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
10.000	0.001	0.001	0.001	0.001	0.001
10.500	0.002	0.002	0.003	0.004	0.006
11.000	0.009	0.013	0.018	0.025	0.036
11.500	0.048	0.062	0.081	0.104	0.137
12.000	0.186	0.262	0.403	0.601	0.840
12.500	1.244	1.780	2.073	2.133	2.201
13.000	2.229	2.240	2.237	2.224	2.196
13.500	2.153	2.104	2.053	2.007	1.966
14.000	1.913	1.830	1.737	1.625	1.463
14.500	1.259	1.049	0.841	0.664	0.548
15.000	0.465	0.412	0.372	0.339	0.310
15.500	0.284	0.263	0.246	0.229	0.212
16.000	0.196	0.181	0.166	0.152	0.140
16.500	0.130	0.120	0.111	0.103	0.096
17.000	0.090	0.085	0.081	0.077	0.074
17.500	0.071	0.068	0.065	0.063	0.061
18.000	0.059	0.057	0.056	0.054	0.053
18.500	0.051	0.050	0.048	0.047	0.046
19.000	0.044	0.043	0.042	0.041	0.040
19.500	0.038	0.037	0.036	0.035	0.034

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.032	0.031	0.030	0.029	0.027
20.500	0.026	0.025	0.024	0.023	0.022
21.000	0.021	0.020	0.019	0.018	0.017
21.500	0.016	0.016	0.015	0.014	0.013
22.000	0.013	0.012	0.011	0.011	0.010
22.500	0.009	0.009	0.008	0.008	0.007
23.000	0.006	0.006	0.005	0.005	0.005
23.500	0.004	0.004	0.004	0.003	0.003
24.000	0.003	0.003	0.002	0.002	0.002
24.500	0.002	0.002	0.002	0.001	0.001
25.000	0.001	0.001	0.001	0.001	0.001
25.500	0.000	0.000	0.000	0.000	0.000
26.000	0.000	0.000	0.000	0.000	0.000
26.500	0.000	0.000	0.000	0.000	0.000
27.000	0.000	0.000	0.000	0.000	0.000
27.500	0.000	0.000	0.000	0.000	0.000
28.000	0.000	0.000	0.000	0.000	0.000
28.500	0.000	0.000	0.000	0.000	0.000
29.000	0.000	0.000	0.000	0.000	0.000
29.500	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
30.500	0.000	0.000	0.000	0.000	0.000
31.000	0.000	0.000	0.000	0.000	0.000
31.500	0.000	0.000	0.000	0.000	0.000
32.000	0.000	0.000	0.000	0.000	0.000
32.500	0.000	0.000	0.000	0.000	0.000
33.000	0.000	0.000	0.000	0.000	0.000
33.500	0.000	0.000	0.000	0.000	0.000
34.000	0.000	0.000	0.000	0.000	0.000
34.500	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
35.500	0.000	0.000	0.000	0.000	0.000
36.000	0.000	0.000	0.000	0.000	0.000
36.500	0.000	0.000	0.000	0.000	0.000
37.000	0.000	0.000	0.000	0.000	0.000
37.500	0.000	0.000	0.000	0.000	0.000
38.000	0.000	0.000	0.000	0.000	0.000
38.500	0.000	0.000	0.000	0.000	0.000
39.000	0.000	0.000	0.000	0.000	0.000
39.500	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	0.000	0.000	0.000	0.000	0.000
41.000	0.000	0.000	0.000	0.000	0.000
41.500	0.000	0.000	0.000	0.000	0.000
42.000	0.000	0.000	0.000	0.000	0.000
42.500	0.000	0.000	0.000	0.000	0.000
43.000	0.000	0.000	0.000	0.000	0.000
43.500	0.000	0.000	0.000	0.000	0.000
44.000	0.000	0.000	0.000	0.000	0.000
44.500	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.000	0.000	0.000
45.500	0.000	0.000	0.000	0.000	0.000
46.000	0.000	0.000	0.000	0.000	0.000
46.500	0.000	0.000	0.000	0.000	0.000
47.000	0.000	0.000	0.000	0.000	0.000
47.500	0.000	0.000	0.000	0.000	0.000
48.000	0.000	0.000	0.000	0.000	0.000
48.500	0.000	0.000	0.000	0.000	0.000
49.000	0.000	0.000	0.000	0.000	0.000
49.500	0.000	0.000	0.000	0.000	0.000
50.000	0.000	0.000	0.000	0.000	0.000
50.500	0.000	0.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000	0.000	0.000
51.500	0.000	0.000	0.000	0.000	0.000
52.000	0.000	0.000	0.000	0.000	0.000
52.500	0.000	0.000	0.000	0.000	0.000
53.000	0.000	0.000	0.000	0.000	0.000
53.500	0.000	0.000	0.000	0.000	0.000
54.000	0.000	0.000	0.000	0.000	0.000
54.500	0.000	0.000	0.000	0.000	0.000
55.000	0.000	0.000	0.000	0.000	0.000
55.500	0.000	0.000	0.000	0.000	0.000
56.000	0.000	0.000	0.000	0.000	0.000
56.500	0.000	0.000	0.000	0.000	0.000
57.000	0.000	0.000	0.000	0.000	0.000
57.500	0.000	0.000	0.000	0.000	0.000
58.000	0.000	0.000	0.000	0.000	0.000
58.500	0.000	0.000	0.000	0.000	0.000
59.000	0.000	0.000	0.000	0.000	0.000
59.500	0.000	0.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000	0.000	0.000
60.500	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	0.000	0.000	0.000	0.000	0.000
61.500	0.000	0.000	0.000	0.000	0.000
62.000	0.000	0.000	0.000	0.000	0.000
62.500	0.000	0.000	0.000	0.000	0.000
63.000	0.000	0.000	0.000	0.000	0.000
63.500	0.000	0.000	0.000	0.000	0.000
64.000	0.000	0.000	0.000	0.000	0.000
64.500	0.000	0.000	0.000	0.000	0.000
65.000	0.000	0.000	0.000	0.000	0.000
65.500	0.000	0.000	0.000	0.000	0.000
66.000	0.000	0.000	0.000	0.000	0.000
66.500	0.000	0.000	0.000	0.000	0.000
67.000	0.000	0.000	0.000	0.000	0.000
67.500	0.000	0.000	0.000	0.000	0.000
68.000	0.000	0.000	0.000	0.000	0.000
68.500	0.000	0.000	0.000	0.000	0.000
69.000	0.000	0.000	0.000	0.000	0.000
69.500	0.000	0.000	0.000	0.000	0.000
70.000	0.000	0.000	0.000	0.000	0.000
70.500	0.000	0.000	0.000	0.000	0.000
71.000	0.000	0.000	0.000	0.000	0.000
71.500	0.000	0.000	0.000	0.000	0.000
72.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.001	0.001	0.001	0.001	0.001
10.000	0.002	0.002	0.003	0.004	0.006
10.500	0.009	0.012	0.016	0.020	0.025
11.000	0.032	0.039	0.049	0.060	0.075
11.500	0.092	0.113	0.138	0.172	0.217
12.000	0.288	0.414	0.599	0.852	1.292
12.500	1.850	2.126	2.197	2.276	2.312
13.000	2.343	2.349	2.345	2.326	2.297
13.500	2.262	2.225	2.172	2.111	2.055
14.000	2.007	1.966	1.913	1.830	1.737
14.500	1.624	1.464	1.264	1.062	0.862
15.000	0.688	0.573	0.500	0.441	0.403
15.500	0.369	0.339	0.312	0.287	0.265
16.000	0.248	0.231	0.214	0.198	0.184
16.500	0.171	0.158	0.147	0.138	0.129
17.000	0.122	0.115	0.109	0.104	0.100
17.500	0.096	0.093	0.090	0.087	0.085
18.000	0.082	0.080	0.078	0.076	0.074
18.500	0.072	0.071	0.069	0.067	0.065
19.000	0.064	0.062	0.060	0.059	0.057
19.500	0.056	0.054	0.052	0.051	0.050

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.048	0.047	0.045	0.044	0.042
20.500	0.041	0.040	0.038	0.037	0.036
21.000	0.034	0.033	0.031	0.030	0.028
21.500	0.027	0.025	0.024	0.023	0.022
22.000	0.020	0.019	0.018	0.017	0.016
22.500	0.015	0.014	0.013	0.013	0.012
23.000	0.011	0.010	0.010	0.009	0.008
23.500	0.007	0.007	0.006	0.006	0.005
24.000	0.005	0.004	0.004	0.003	0.003
24.500	0.003	0.002	0.002	0.002	0.002
25.000	0.001	0.001	0.001	0.001	0.001
25.500	0.001	0.000	0.000	0.000	0.000
26.000	0.000	0.000	0.000	0.000	0.000
26.500	0.000	0.000	0.000	0.000	0.000
27.000	0.000	0.000	0.000	0.000	0.000
27.500	0.000	0.000	0.000	0.000	0.000
28.000	0.000	0.000	0.000	0.000	0.000
28.500	0.000	0.000	0.000	0.000	0.000
29.000	0.000	0.000	0.000	0.000	0.000
29.500	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
30.500	0.000	0.000	0.000	0.000	0.000
31.000	0.000	0.000	0.000	0.000	0.000
31.500	0.000	0.000	0.000	0.000	0.000
32.000	0.000	0.000	0.000	0.000	0.000
32.500	0.000	0.000	0.000	0.000	0.000
33.000	0.000	0.000	0.000	0.000	0.000
33.500	0.000	0.000	0.000	0.000	0.000
34.000	0.000	0.000	0.000	0.000	0.000
34.500	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
35.500	0.000	0.000	0.000	0.000	0.000
36.000	0.000	0.000	0.000	0.000	0.000
36.500	0.000	0.000	0.000	0.000	0.000
37.000	0.000	0.000	0.000	0.000	0.000
37.500	0.000	0.000	0.000	0.000	0.000
38.000	0.000	0.000	0.000	0.000	0.000
38.500	0.000	0.000	0.000	0.000	0.000
39.000	0.000	0.000	0.000	0.000	0.000
39.500	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	0.000	0.000	0.000	0.000	0.000
41.000	0.000	0.000	0.000	0.000	0.000
41.500	0.000	0.000	0.000	0.000	0.000
42.000	0.000	0.000	0.000	0.000	0.000
42.500	0.000	0.000	0.000	0.000	0.000
43.000	0.000	0.000	0.000	0.000	0.000
43.500	0.000	0.000	0.000	0.000	0.000
44.000	0.000	0.000	0.000	0.000	0.000
44.500	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.000	0.000	0.000
45.500	0.000	0.000	0.000	0.000	0.000
46.000	0.000	0.000	0.000	0.000	0.000
46.500	0.000	0.000	0.000	0.000	0.000
47.000	0.000	0.000	0.000	0.000	0.000
47.500	0.000	0.000	0.000	0.000	0.000
48.000	0.000	0.000	0.000	0.000	0.000
48.500	0.000	0.000	0.000	0.000	0.000
49.000	0.000	0.000	0.000	0.000	0.000
49.500	0.000	0.000	0.000	0.000	0.000
50.000	0.000	0.000	0.000	0.000	0.000
50.500	0.000	0.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000	0.000	0.000
51.500	0.000	0.000	0.000	0.000	0.000
52.000	0.000	0.000	0.000	0.000	0.000
52.500	0.000	0.000	0.000	0.000	0.000
53.000	0.000	0.000	0.000	0.000	0.000
53.500	0.000	0.000	0.000	0.000	0.000
54.000	0.000	0.000	0.000	0.000	0.000
54.500	0.000	0.000	0.000	0.000	0.000
55.000	0.000	0.000	0.000	0.000	0.000
55.500	0.000	0.000	0.000	0.000	0.000
56.000	0.000	0.000	0.000	0.000	0.000
56.500	0.000	0.000	0.000	0.000	0.000
57.000	0.000	0.000	0.000	0.000	0.000
57.500	0.000	0.000	0.000	0.000	0.000
58.000	0.000	0.000	0.000	0.000	0.000
58.500	0.000	0.000	0.000	0.000	0.000
59.000	0.000	0.000	0.000	0.000	0.000
59.500	0.000	0.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000	0.000	0.000
60.500	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	0.000	0.000	0.000	0.000	0.000
61.500	0.000	0.000	0.000	0.000	0.000
62.000	0.000	0.000	0.000	0.000	0.000
62.500	0.000	0.000	0.000	0.000	0.000
63.000	0.000	0.000	0.000	0.000	0.000
63.500	0.000	0.000	0.000	0.000	0.000
64.000	0.000	0.000	0.000	0.000	0.000
64.500	0.000	0.000	0.000	0.000	0.000
65.000	0.000	0.000	0.000	0.000	0.000
65.500	0.000	0.000	0.000	0.000	0.000
66.000	0.000	0.000	0.000	0.000	0.000
66.500	0.000	0.000	0.000	0.000	0.000
67.000	0.000	0.000	0.000	0.000	0.000
67.500	0.000	0.000	0.000	0.000	0.000
68.000	0.000	0.000	0.000	0.000	0.000
68.500	0.000	0.000	0.000	0.000	0.000
69.000	0.000	0.000	0.000	0.000	0.000
69.500	0.000	0.000	0.000	0.000	0.000
70.000	0.000	0.000	0.000	0.000	0.000
70.500	0.000	0.000	0.000	0.000	0.000
71.000	0.000	0.000	0.000	0.000	0.000
71.500	0.000	0.000	0.000	0.000	0.000
72.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	2.796	2.796	2.796	2.796	2.796
0.500	2.796	2.796	2.796	2.796	2.796
1.000	2.796	2.796	2.796	2.796	2.796
1.500	2.796	2.796	2.796	2.796	2.796
2.000	2.796	2.796	2.796	2.796	2.796
2.500	2.796	2.796	2.796	2.796	2.796
3.000	2.796	2.796	2.796	2.796	2.796
3.500	2.796	2.796	2.796	2.796	2.796
4.000	2.796	2.796	2.796	2.796	2.796
4.500	2.796	2.796	2.796	2.796	2.796
5.000	2.796	2.796	2.796	2.796	2.796
5.500	2.796	2.796	2.796	2.796	2.796
6.000	2.796	2.796	2.796	2.796	2.796
6.500	2.796	2.796	2.796	2.796	2.796
7.000	2.796	2.796	2.796	2.796	2.796
7.500	2.796	2.796	2.796	2.796	2.796
8.000	2.796	2.796	2.796	2.796	2.796
8.500	2.796	2.796	2.796	2.796	2.796
9.000	2.796	2.796	2.796	2.797	2.797
9.500	2.798	2.800	2.802	2.805	2.809
10.000	2.814	2.820	2.828	2.837	2.847
10.500	2.859	2.872	2.887	2.904	2.924
11.000	2.946	2.974	3.006	3.044	3.089
11.500	3.143	3.207	3.285	3.366	3.459
12.000	3.579	3.745	3.977	4.292	4.685
12.500	5.099	5.528	5.944	6.289	6.544
13.000	6.710	6.795	6.805	6.752	6.644
13.500	6.499	6.327	6.148	5.968	5.782
14.000	5.600	5.426	5.265	5.117	4.982
14.500	4.859	4.750	4.653	4.564	4.474
15.000	4.387	4.305	4.231	4.163	4.101
15.500	4.044	3.991	3.941	3.894	3.849
16.000	3.807	3.768	3.732	3.698	3.667
16.500	3.640	3.614	3.592	3.571	3.553
17.000	3.537	3.524	3.511	3.501	3.491
17.500	3.483	3.475	3.468	3.462	3.455
18.000	3.450	3.444	3.439	3.434	3.430
18.500	3.425	3.420	3.416	3.412	3.407
19.000	3.403	3.399	3.395	3.391	3.387
19.500	3.383	3.378	3.374	3.370	3.366

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	3.362	3.358	3.354	3.350	3.346
20.500	3.342	3.338	3.334	3.330	3.326
21.000	3.322	3.318	3.314	3.310	3.306
21.500	3.302	3.298	3.294	3.290	3.286
22.000	3.281	3.276	3.270	3.263	3.256
22.500	3.248	3.240	3.232	3.224	3.215
23.000	3.206	3.197	3.189	3.180	3.171
23.500	3.161	3.152	3.143	3.134	3.125
24.000	3.115	3.106	3.096	3.086	3.075
24.500	3.063	3.051	3.037	3.023	3.008
25.000	2.992	2.976	2.960	2.945	2.930
25.500	2.916	2.903	2.891	2.879	2.869
26.000	2.860	2.852	2.845	2.839	2.833
26.500	2.828	2.824	2.820	2.817	2.814
27.000	2.811	2.809	2.807	2.806	2.804
27.500	2.803	2.802	2.801	2.800	2.799
28.000	2.799	2.798	2.798	2.798	2.797
28.500	2.797	2.797	2.797	2.796	2.796
29.000	2.796	2.796	2.796	2.796	2.796
29.500	2.796	2.796	2.796	2.796	2.796
30.000	2.796	2.796	2.796	2.796	2.796
30.500	2.796	2.796	2.796	2.796	2.796
31.000	2.796	2.796	2.796	2.796	2.796
31.500	2.796	2.796	2.796	2.796	2.796
32.000	2.796	2.796	2.796	2.796	2.796
32.500	2.796	2.796	2.796	2.796	2.796
33.000	2.796	2.796	2.796	2.796	2.796
33.500	2.796	2.796	2.796	2.796	2.796
34.000	2.796	2.796	2.796	2.796	2.796
34.500	2.796	2.796	2.796	2.796	2.796
35.000	2.796	2.796	2.796	2.796	2.796
35.500	2.796	2.796	2.796	2.796	2.796
36.000	2.796	2.796	2.796	2.796	2.796
36.500	2.796	2.796	2.796	2.796	2.796
37.000	2.796	2.796	2.796	2.796	2.796
37.500	2.796	2.796	2.796	2.796	2.796
38.000	2.796	2.796	2.796	2.796	2.796
38.500	2.796	2.796	2.796	2.796	2.796
39.000	2.796	2.796	2.796	2.796	2.796
39.500	2.796	2.796	2.796	2.796	2.796
40.000	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	2.796	2.796	2.796	2.796	2.796
41.000	2.796	2.796	2.796	2.796	2.796
41.500	2.796	2.796	2.796	2.796	2.796
42.000	2.796	2.796	2.796	2.796	2.796
42.500	2.796	2.796	2.796	2.796	2.796
43.000	2.796	2.796	2.796	2.796	2.796
43.500	2.796	2.796	2.796	2.796	2.796
44.000	2.796	2.796	2.796	2.796	2.796
44.500	2.796	2.796	2.796	2.796	2.796
45.000	2.796	2.796	2.796	2.796	2.796
45.500	2.796	2.796	2.796	2.796	2.796
46.000	2.796	2.796	2.796	2.796	2.796
46.500	2.796	2.796	2.796	2.796	2.796
47.000	2.796	2.796	2.796	2.796	2.796
47.500	2.796	2.796	2.796	2.796	2.796
48.000	2.796	2.796	2.796	2.796	2.796
48.500	2.796	2.796	2.796	2.796	2.796
49.000	2.796	2.796	2.796	2.796	2.796
49.500	2.796	2.796	2.796	2.796	2.796
50.000	2.796	2.796	2.796	2.796	2.796
50.500	2.796	2.796	2.796	2.796	2.796
51.000	2.796	2.796	2.796	2.796	2.796
51.500	2.796	2.796	2.796	2.796	2.796
52.000	2.796	2.796	2.796	2.796	2.796
52.500	2.796	2.796	2.796	2.796	2.796
53.000	2.796	2.796	2.796	2.796	2.796
53.500	2.796	2.796	2.796	2.796	2.796
54.000	2.796	2.796	2.796	2.796	2.796
54.500	2.796	2.796	2.796	2.796	2.796
55.000	2.796	2.796	2.796	2.796	2.796
55.500	2.796	2.796	2.796	2.796	2.796
56.000	2.796	2.796	2.796	2.796	2.796
56.500	2.796	2.796	2.796	2.796	2.796
57.000	2.796	2.796	2.796	2.796	2.796
57.500	2.796	2.796	2.796	2.796	2.796
58.000	2.796	2.796	2.796	2.796	2.796
58.500	2.796	2.796	2.796	2.796	2.796
59.000	2.796	2.796	2.796	2.796	2.796
59.500	2.796	2.796	2.796	2.796	2.796
60.000	2.796	2.796	2.796	2.796	2.796
60.500	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	2.796	2.796	2.796	2.796	2.796
61.500	2.796	2.796	2.796	2.796	2.796
62.000	2.796	2.796	2.796	2.796	2.796
62.500	2.796	2.796	2.796	2.796	2.796
63.000	2.796	2.796	2.796	2.796	2.796
63.500	2.796	2.796	2.796	2.796	2.796
64.000	2.796	2.796	2.796	2.796	2.796
64.500	2.796	2.796	2.796	2.796	2.796
65.000	2.796	2.796	2.796	2.796	2.796
65.500	2.796	2.796	2.796	2.796	2.796
66.000	2.796	2.796	2.796	2.796	2.796
66.500	2.796	2.796	2.796	2.796	2.796
67.000	2.796	2.796	2.796	2.796	2.796
67.500	2.796	2.796	2.796	2.796	2.796
68.000	2.796	2.796	2.796	2.796	2.796
68.500	2.796	2.796	2.796	2.796	2.796
69.000	2.796	2.796	2.796	2.796	2.796
69.500	2.796	2.796	2.796	2.796	2.796
70.000	2.796	2.796	2.796	2.796	2.796
70.500	2.796	2.796	2.796	2.796	2.796
71.000	2.796	2.796	2.796	2.796	2.796
71.500	2.796	2.796	2.796	2.796	2.796
72.000	2.796	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	2.796	2.796	2.796	2.796	2.796
0.500	2.796	2.796	2.796	2.796	2.796
1.000	2.796	2.796	2.796	2.796	2.796
1.500	2.796	2.796	2.796	2.796	2.796
2.000	2.796	2.796	2.796	2.796	2.796
2.500	2.796	2.796	2.796	2.796	2.796
3.000	2.796	2.796	2.796	2.796	2.796
3.500	2.796	2.796	2.796	2.796	2.796
4.000	2.796	2.796	2.796	2.796	2.796
4.500	2.796	2.796	2.796	2.796	2.796
5.000	2.796	2.796	2.796	2.796	2.796
5.500	2.796	2.796	2.796	2.796	2.796
6.000	2.796	2.796	2.796	2.796	2.796
6.500	2.796	2.796	2.796	2.796	2.796
7.000	2.796	2.796	2.796	2.796	2.796
7.500	2.796	2.796	2.796	2.796	2.796
8.000	2.796	2.796	2.796	2.797	2.797
8.500	2.798	2.799	2.801	2.803	2.806
9.000	2.809	2.813	2.818	2.824	2.832
9.500	2.840	2.850	2.862	2.876	2.891
10.000	2.908	2.927	2.947	2.970	2.993
10.500	3.019	3.046	3.075	3.106	3.142
11.000	3.182	3.228	3.282	3.337	3.391
11.500	3.449	3.513	3.586	3.674	3.792
12.000	3.956	4.194	4.532	4.933	5.403
12.500	5.934	6.461	6.938	7.347	7.649
13.000	7.829	7.904	7.889	7.799	7.648
13.500	7.452	7.212	6.957	6.705	6.470
14.000	6.254	6.059	5.868	5.679	5.499
14.500	5.332	5.180	5.045	4.925	4.820
15.000	4.729	4.651	4.581	4.509	4.437
15.500	4.367	4.299	4.234	4.171	4.111
16.000	4.055	4.002	3.952	3.907	3.865
16.500	3.827	3.793	3.762	3.735	3.710
17.000	3.689	3.670	3.654	3.639	3.627
17.500	3.615	3.605	3.595	3.587	3.579
18.000	3.571	3.564	3.557	3.550	3.544
18.500	3.538	3.532	3.526	3.520	3.514
19.000	3.509	3.503	3.497	3.492	3.487
19.500	3.481	3.476	3.470	3.465	3.460

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	3.454	3.449	3.444	3.438	3.433
20.500	3.428	3.422	3.417	3.412	3.406
21.000	3.401	3.396	3.390	3.385	3.380
21.500	3.374	3.369	3.364	3.358	3.353
22.000	3.348	3.342	3.337	3.331	3.326
22.500	3.321	3.315	3.310	3.305	3.299
23.000	3.294	3.288	3.283	3.276	3.268
23.500	3.260	3.251	3.241	3.231	3.220
24.000	3.209	3.197	3.185	3.173	3.159
24.500	3.144	3.128	3.110	3.092	3.072
25.000	3.052	3.031	3.010	2.990	2.971
25.500	2.952	2.935	2.919	2.905	2.892
26.000	2.880	2.870	2.860	2.852	2.845
26.500	2.838	2.832	2.827	2.823	2.819
27.000	2.816	2.813	2.811	2.809	2.807
27.500	2.805	2.804	2.803	2.801	2.801
28.000	2.800	2.799	2.799	2.798	2.798
28.500	2.797	2.797	2.797	2.797	2.797
29.000	2.796	2.796	2.796	2.796	2.796
29.500	2.796	2.796	2.796	2.796	2.796
30.000	2.796	2.796	2.796	2.796	2.796
30.500	2.796	2.796	2.796	2.796	2.796
31.000	2.796	2.796	2.796	2.796	2.796
31.500	2.796	2.796	2.796	2.796	2.796
32.000	2.796	2.796	2.796	2.796	2.796
32.500	2.796	2.796	2.796	2.796	2.796
33.000	2.796	2.796	2.796	2.796	2.796
33.500	2.796	2.796	2.796	2.796	2.796
34.000	2.796	2.796	2.796	2.796	2.796
34.500	2.796	2.796	2.796	2.796	2.796
35.000	2.796	2.796	2.796	2.796	2.796
35.500	2.796	2.796	2.796	2.796	2.796
36.000	2.796	2.796	2.796	2.796	2.796
36.500	2.796	2.796	2.796	2.796	2.796
37.000	2.796	2.796	2.796	2.796	2.796
37.500	2.796	2.796	2.796	2.796	2.796
38.000	2.796	2.796	2.796	2.796	2.796
38.500	2.796	2.796	2.796	2.796	2.796
39.000	2.796	2.796	2.796	2.796	2.796
39.500	2.796	2.796	2.796	2.796	2.796
40.000	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	2.796	2.796	2.796	2.796	2.796
41.000	2.796	2.796	2.796	2.796	2.796
41.500	2.796	2.796	2.796	2.796	2.796
42.000	2.796	2.796	2.796	2.796	2.796
42.500	2.796	2.796	2.796	2.796	2.796
43.000	2.796	2.796	2.796	2.796	2.796
43.500	2.796	2.796	2.796	2.796	2.796
44.000	2.796	2.796	2.796	2.796	2.796
44.500	2.796	2.796	2.796	2.796	2.796
45.000	2.796	2.796	2.796	2.796	2.796
45.500	2.796	2.796	2.796	2.796	2.796
46.000	2.796	2.796	2.796	2.796	2.796
46.500	2.796	2.796	2.796	2.796	2.796
47.000	2.796	2.796	2.796	2.796	2.796
47.500	2.796	2.796	2.796	2.796	2.796
48.000	2.796	2.796	2.796	2.796	2.796
48.500	2.796	2.796	2.796	2.796	2.796
49.000	2.796	2.796	2.796	2.796	2.796
49.500	2.796	2.796	2.796	2.796	2.796
50.000	2.796	2.796	2.796	2.796	2.796
50.500	2.796	2.796	2.796	2.796	2.796
51.000	2.796	2.796	2.796	2.796	2.796
51.500	2.796	2.796	2.796	2.796	2.796
52.000	2.796	2.796	2.796	2.796	2.796
52.500	2.796	2.796	2.796	2.796	2.796
53.000	2.796	2.796	2.796	2.796	2.796
53.500	2.796	2.796	2.796	2.796	2.796
54.000	2.796	2.796	2.796	2.796	2.796
54.500	2.796	2.796	2.796	2.796	2.796
55.000	2.796	2.796	2.796	2.796	2.796
55.500	2.796	2.796	2.796	2.796	2.796
56.000	2.796	2.796	2.796	2.796	2.796
56.500	2.796	2.796	2.796	2.796	2.796
57.000	2.796	2.796	2.796	2.796	2.796
57.500	2.796	2.796	2.796	2.796	2.796
58.000	2.796	2.796	2.796	2.796	2.796
58.500	2.796	2.796	2.796	2.796	2.796
59.000	2.796	2.796	2.796	2.796	2.796
59.500	2.796	2.796	2.796	2.796	2.796
60.000	2.796	2.796	2.796	2.796	2.796
60.500	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	2.796	2.796	2.796	2.796	2.796
61.500	2.796	2.796	2.796	2.796	2.796
62.000	2.796	2.796	2.796	2.796	2.796
62.500	2.796	2.796	2.796	2.796	2.796
63.000	2.796	2.796	2.796	2.796	2.796
63.500	2.796	2.796	2.796	2.796	2.796
64.000	2.796	2.796	2.796	2.796	2.796
64.500	2.796	2.796	2.796	2.796	2.796
65.000	2.796	2.796	2.796	2.796	2.796
65.500	2.796	2.796	2.796	2.796	2.796
66.000	2.796	2.796	2.796	2.796	2.796
66.500	2.796	2.796	2.796	2.796	2.796
67.000	2.796	2.796	2.796	2.796	2.796
67.500	2.796	2.796	2.796	2.796	2.796
68.000	2.796	2.796	2.796	2.796	2.796
68.500	2.796	2.796	2.796	2.796	2.796
69.000	2.796	2.796	2.796	2.796	2.796
69.500	2.796	2.796	2.796	2.796	2.796
70.000	2.796	2.796	2.796	2.796	2.796
70.500	2.796	2.796	2.796	2.796	2.796
71.000	2.796	2.796	2.796	2.796	2.796
71.500	2.796	2.796	2.796	2.796	2.796
72.000	2.796	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	2.796	2.796	2.796	2.796	2.796
0.500	2.796	2.796	2.796	2.796	2.796
1.000	2.796	2.796	2.796	2.796	2.796
1.500	2.796	2.796	2.796	2.796	2.796
2.000	2.796	2.796	2.796	2.796	2.796
2.500	2.796	2.796	2.796	2.796	2.796
3.000	2.796	2.796	2.796	2.796	2.796
3.500	2.796	2.796	2.796	2.796	2.796
4.000	2.796	2.796	2.796	2.796	2.796
4.500	2.796	2.796	2.796	2.796	2.796
5.000	2.796	2.796	2.796	2.796	2.796
5.500	2.796	2.796	2.796	2.796	2.796
6.000	2.796	2.796	2.796	2.796	2.796
6.500	2.796	2.796	2.796	2.796	2.796
7.000	2.796	2.796	2.796	2.796	2.796
7.500	2.796	2.797	2.797	2.798	2.800
8.000	2.801	2.804	2.807	2.811	2.815
8.500	2.821	2.827	2.834	2.842	2.851
9.000	2.860	2.871	2.882	2.895	2.909
9.500	2.925	2.942	2.962	2.984	3.009
10.000	3.035	3.064	3.096	3.129	3.164
10.500	3.201	3.239	3.280	3.319	3.354
11.000	3.390	3.429	3.473	3.523	3.580
11.500	3.647	3.725	3.819	3.933	4.087
12.000	4.302	4.609	4.982	5.445	6.013
12.500	6.605	7.207	7.755	8.196	8.516
13.000	8.709	8.784	8.750	8.625	8.423
13.500	8.172	7.890	7.606	7.320	7.038
14.000	6.774	6.530	6.308	6.106	5.914
14.500	5.725	5.547	5.383	5.235	5.105
15.000	4.992	4.893	4.808	4.732	4.664
15.500	4.602	4.538	4.469	4.400	4.331
16.000	4.264	4.201	4.141	4.086	4.035
16.500	3.989	3.947	3.909	3.875	3.845
17.000	3.819	3.796	3.776	3.758	3.743
17.500	3.729	3.716	3.705	3.694	3.684
18.000	3.675	3.666	3.657	3.649	3.642
18.500	3.634	3.627	3.620	3.613	3.606
19.000	3.599	3.592	3.585	3.579	3.572
19.500	3.565	3.559	3.552	3.546	3.539

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	3.533	3.526	3.520	3.513	3.507
20.500	3.500	3.494	3.488	3.481	3.475
21.000	3.468	3.462	3.455	3.449	3.442
21.500	3.436	3.429	3.423	3.417	3.410
22.000	3.404	3.397	3.391	3.384	3.378
22.500	3.371	3.365	3.358	3.352	3.345
23.000	3.339	3.332	3.326	3.319	3.313
23.500	3.307	3.300	3.294	3.287	3.280
24.000	3.271	3.261	3.250	3.237	3.223
24.500	3.206	3.188	3.168	3.147	3.124
25.000	3.100	3.076	3.052	3.028	3.005
25.500	2.983	2.962	2.943	2.926	2.910
26.000	2.896	2.884	2.873	2.863	2.854
26.500	2.846	2.840	2.834	2.828	2.824
27.000	2.820	2.817	2.814	2.811	2.809
27.500	2.807	2.805	2.804	2.803	2.802
28.000	2.801	2.800	2.799	2.799	2.798
28.500	2.798	2.797	2.797	2.797	2.797
29.000	2.796	2.796	2.796	2.796	2.796
29.500	2.796	2.796	2.796	2.796	2.796
30.000	2.796	2.796	2.796	2.796	2.796
30.500	2.796	2.796	2.796	2.796	2.796
31.000	2.796	2.796	2.796	2.796	2.796
31.500	2.796	2.796	2.796	2.796	2.796
32.000	2.796	2.796	2.796	2.796	2.796
32.500	2.796	2.796	2.796	2.796	2.796
33.000	2.796	2.796	2.796	2.796	2.796
33.500	2.796	2.796	2.796	2.796	2.796
34.000	2.796	2.796	2.796	2.796	2.796
34.500	2.796	2.796	2.796	2.796	2.796
35.000	2.796	2.796	2.796	2.796	2.796
35.500	2.796	2.796	2.796	2.796	2.796
36.000	2.796	2.796	2.796	2.796	2.796
36.500	2.796	2.796	2.796	2.796	2.796
37.000	2.796	2.796	2.796	2.796	2.796
37.500	2.796	2.796	2.796	2.796	2.796
38.000	2.796	2.796	2.796	2.796	2.796
38.500	2.796	2.796	2.796	2.796	2.796
39.000	2.796	2.796	2.796	2.796	2.796
39.500	2.796	2.796	2.796	2.796	2.796
40.000	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	2.796	2.796	2.796	2.796	2.796
41.000	2.796	2.796	2.796	2.796	2.796
41.500	2.796	2.796	2.796	2.796	2.796
42.000	2.796	2.796	2.796	2.796	2.796
42.500	2.796	2.796	2.796	2.796	2.796
43.000	2.796	2.796	2.796	2.796	2.796
43.500	2.796	2.796	2.796	2.796	2.796
44.000	2.796	2.796	2.796	2.796	2.796
44.500	2.796	2.796	2.796	2.796	2.796
45.000	2.796	2.796	2.796	2.796	2.796
45.500	2.796	2.796	2.796	2.796	2.796
46.000	2.796	2.796	2.796	2.796	2.796
46.500	2.796	2.796	2.796	2.796	2.796
47.000	2.796	2.796	2.796	2.796	2.796
47.500	2.796	2.796	2.796	2.796	2.796
48.000	2.796	2.796	2.796	2.796	2.796
48.500	2.796	2.796	2.796	2.796	2.796
49.000	2.796	2.796	2.796	2.796	2.796
49.500	2.796	2.796	2.796	2.796	2.796
50.000	2.796	2.796	2.796	2.796	2.796
50.500	2.796	2.796	2.796	2.796	2.796
51.000	2.796	2.796	2.796	2.796	2.796
51.500	2.796	2.796	2.796	2.796	2.796
52.000	2.796	2.796	2.796	2.796	2.796
52.500	2.796	2.796	2.796	2.796	2.796
53.000	2.796	2.796	2.796	2.796	2.796
53.500	2.796	2.796	2.796	2.796	2.796
54.000	2.796	2.796	2.796	2.796	2.796
54.500	2.796	2.796	2.796	2.796	2.796
55.000	2.796	2.796	2.796	2.796	2.796
55.500	2.796	2.796	2.796	2.796	2.796
56.000	2.796	2.796	2.796	2.796	2.796
56.500	2.796	2.796	2.796	2.796	2.796
57.000	2.796	2.796	2.796	2.796	2.796
57.500	2.796	2.796	2.796	2.796	2.796
58.000	2.796	2.796	2.796	2.796	2.796
58.500	2.796	2.796	2.796	2.796	2.796
59.000	2.796	2.796	2.796	2.796	2.796
59.500	2.796	2.796	2.796	2.796	2.796
60.000	2.796	2.796	2.796	2.796	2.796
60.500	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	2.796	2.796	2.796	2.796	2.796
61.500	2.796	2.796	2.796	2.796	2.796
62.000	2.796	2.796	2.796	2.796	2.796
62.500	2.796	2.796	2.796	2.796	2.796
63.000	2.796	2.796	2.796	2.796	2.796
63.500	2.796	2.796	2.796	2.796	2.796
64.000	2.796	2.796	2.796	2.796	2.796
64.500	2.796	2.796	2.796	2.796	2.796
65.000	2.796	2.796	2.796	2.796	2.796
65.500	2.796	2.796	2.796	2.796	2.796
66.000	2.796	2.796	2.796	2.796	2.796
66.500	2.796	2.796	2.796	2.796	2.796
67.000	2.796	2.796	2.796	2.796	2.796
67.500	2.796	2.796	2.796	2.796	2.796
68.000	2.796	2.796	2.796	2.796	2.796
68.500	2.796	2.796	2.796	2.796	2.796
69.000	2.796	2.796	2.796	2.796	2.796
69.500	2.796	2.796	2.796	2.796	2.796
70.000	2.796	2.796	2.796	2.796	2.796
70.500	2.796	2.796	2.796	2.796	2.796
71.000	2.796	2.796	2.796	2.796	2.796
71.500	2.796	2.796	2.796	2.796	2.796
72.000	2.796	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	2.796	2.796	2.796	2.796	2.796
0.500	2.796	2.796	2.796	2.796	2.796
1.000	2.796	2.796	2.796	2.796	2.796
1.500	2.796	2.796	2.796	2.796	2.796
2.000	2.796	2.796	2.796	2.796	2.796
2.500	2.796	2.796	2.796	2.796	2.796
3.000	2.796	2.796	2.796	2.796	2.796
3.500	2.796	2.796	2.796	2.796	2.796
4.000	2.796	2.796	2.796	2.796	2.796
4.500	2.796	2.796	2.796	2.796	2.796
5.000	2.796	2.796	2.796	2.796	2.796
5.500	2.796	2.796	2.796	2.796	2.796
6.000	2.796	2.796	2.796	2.796	2.796
6.500	2.796	2.796	2.796	2.796	2.796
7.000	2.797	2.798	2.799	2.800	2.802
7.500	2.805	2.808	2.813	2.818	2.824
8.000	2.831	2.840	2.849	2.859	2.870
8.500	2.882	2.895	2.908	2.922	2.937
9.000	2.953	2.969	2.986	3.005	3.026
9.500	3.048	3.074	3.102	3.133	3.167
10.000	3.205	3.245	3.288	3.326	3.359
10.500	3.390	3.419	3.448	3.479	3.513
11.000	3.551	3.596	3.649	3.710	3.783
11.500	3.868	3.968	4.089	4.236	4.434
12.000	4.692	5.018	5.446	5.999	6.627
12.500	7.307	7.983	8.589	9.093	9.438
13.000	9.629	9.688	9.629	9.475	9.241
13.500	8.951	8.610	8.259	7.924	7.615
14.000	7.322	7.039	6.773	6.529	6.306
14.500	6.106	5.919	5.739	5.569	5.415
15.000	5.280	5.160	5.056	4.964	4.881
15.500	4.806	4.736	4.671	4.609	4.545
16.000	4.477	4.408	4.341	4.278	4.218
16.500	4.164	4.114	4.069	4.028	3.992
17.000	3.961	3.933	3.909	3.888	3.869
17.500	3.853	3.837	3.824	3.811	3.799
18.000	3.788	3.777	3.767	3.757	3.748
18.500	3.739	3.730	3.722	3.713	3.705
19.000	3.697	3.689	3.681	3.673	3.665
19.500	3.657	3.649	3.641	3.633	3.626

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	3.618	3.610	3.603	3.595	3.587
20.500	3.580	3.572	3.564	3.557	3.549
21.000	3.541	3.534	3.526	3.518	3.511
21.500	3.503	3.495	3.488	3.480	3.472
22.000	3.465	3.457	3.449	3.441	3.434
22.500	3.426	3.418	3.411	3.403	3.395
23.000	3.388	3.380	3.372	3.365	3.357
23.500	3.349	3.342	3.334	3.327	3.319
24.000	3.311	3.303	3.295	3.286	3.274
24.500	3.260	3.242	3.222	3.199	3.174
25.000	3.148	3.120	3.093	3.065	3.039
25.500	3.014	2.990	2.968	2.948	2.930
26.000	2.914	2.899	2.886	2.874	2.864
26.500	2.855	2.847	2.840	2.834	2.829
27.000	2.824	2.820	2.817	2.814	2.811
27.500	2.809	2.807	2.805	2.804	2.803
28.000	2.802	2.801	2.800	2.799	2.799
28.500	2.798	2.798	2.797	2.797	2.797
29.000	2.797	2.796	2.796	2.796	2.796
29.500	2.796	2.796	2.796	2.796	2.796
30.000	2.796	2.796	2.796	2.796	2.796
30.500	2.796	2.796	2.796	2.796	2.796
31.000	2.796	2.796	2.796	2.796	2.796
31.500	2.796	2.796	2.796	2.796	2.796
32.000	2.796	2.796	2.796	2.796	2.796
32.500	2.796	2.796	2.796	2.796	2.796
33.000	2.796	2.796	2.796	2.796	2.796
33.500	2.796	2.796	2.796	2.796	2.796
34.000	2.796	2.796	2.796	2.796	2.796
34.500	2.796	2.796	2.796	2.796	2.796
35.000	2.796	2.796	2.796	2.796	2.796
35.500	2.796	2.796	2.796	2.796	2.796
36.000	2.796	2.796	2.796	2.796	2.796
36.500	2.796	2.796	2.796	2.796	2.796
37.000	2.796	2.796	2.796	2.796	2.796
37.500	2.796	2.796	2.796	2.796	2.796
38.000	2.796	2.796	2.796	2.796	2.796
38.500	2.796	2.796	2.796	2.796	2.796
39.000	2.796	2.796	2.796	2.796	2.796
39.500	2.796	2.796	2.796	2.796	2.796
40.000	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	2.796	2.796	2.796	2.796	2.796
41.000	2.796	2.796	2.796	2.796	2.796
41.500	2.796	2.796	2.796	2.796	2.796
42.000	2.796	2.796	2.796	2.796	2.796
42.500	2.796	2.796	2.796	2.796	2.796
43.000	2.796	2.796	2.796	2.796	2.796
43.500	2.796	2.796	2.796	2.796	2.796
44.000	2.796	2.796	2.796	2.796	2.796
44.500	2.796	2.796	2.796	2.796	2.796
45.000	2.796	2.796	2.796	2.796	2.796
45.500	2.796	2.796	2.796	2.796	2.796
46.000	2.796	2.796	2.796	2.796	2.796
46.500	2.796	2.796	2.796	2.796	2.796
47.000	2.796	2.796	2.796	2.796	2.796
47.500	2.796	2.796	2.796	2.796	2.796
48.000	2.796	2.796	2.796	2.796	2.796
48.500	2.796	2.796	2.796	2.796	2.796
49.000	2.796	2.796	2.796	2.796	2.796
49.500	2.796	2.796	2.796	2.796	2.796
50.000	2.796	2.796	2.796	2.796	2.796
50.500	2.796	2.796	2.796	2.796	2.796
51.000	2.796	2.796	2.796	2.796	2.796
51.500	2.796	2.796	2.796	2.796	2.796
52.000	2.796	2.796	2.796	2.796	2.796
52.500	2.796	2.796	2.796	2.796	2.796
53.000	2.796	2.796	2.796	2.796	2.796
53.500	2.796	2.796	2.796	2.796	2.796
54.000	2.796	2.796	2.796	2.796	2.796
54.500	2.796	2.796	2.796	2.796	2.796
55.000	2.796	2.796	2.796	2.796	2.796
55.500	2.796	2.796	2.796	2.796	2.796
56.000	2.796	2.796	2.796	2.796	2.796
56.500	2.796	2.796	2.796	2.796	2.796
57.000	2.796	2.796	2.796	2.796	2.796
57.500	2.796	2.796	2.796	2.796	2.796
58.000	2.796	2.796	2.796	2.796	2.796
58.500	2.796	2.796	2.796	2.796	2.796
59.000	2.796	2.796	2.796	2.796	2.796
59.500	2.796	2.796	2.796	2.796	2.796
60.000	2.796	2.796	2.796	2.796	2.796
60.500	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Time vs. Volume

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	2.796	2.796	2.796	2.796	2.796
61.500	2.796	2.796	2.796	2.796	2.796
62.000	2.796	2.796	2.796	2.796	2.796
62.500	2.796	2.796	2.796	2.796	2.796
63.000	2.796	2.796	2.796	2.796	2.796
63.500	2.796	2.796	2.796	2.796	2.796
64.000	2.796	2.796	2.796	2.796	2.796
64.500	2.796	2.796	2.796	2.796	2.796
65.000	2.796	2.796	2.796	2.796	2.796
65.500	2.796	2.796	2.796	2.796	2.796
66.000	2.796	2.796	2.796	2.796	2.796
66.500	2.796	2.796	2.796	2.796	2.796
67.000	2.796	2.796	2.796	2.796	2.796
67.500	2.796	2.796	2.796	2.796	2.796
68.000	2.796	2.796	2.796	2.796	2.796
68.500	2.796	2.796	2.796	2.796	2.796
69.000	2.796	2.796	2.796	2.796	2.796
69.500	2.796	2.796	2.796	2.796	2.796
70.000	2.796	2.796	2.796	2.796	2.796
70.500	2.796	2.796	2.796	2.796	2.796
71.000	2.796	2.796	2.796	2.796	2.796
71.500	2.796	2.796	2.796	2.796	2.796
72.000	2.796	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Elevation-Area Volume Curve

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	2,885.5	3,616.5	0.028	0.029
1,150.00	0.0	4,506.1	10,997.4	0.084	0.113
1,151.00	0.0	6,066.9	15,801.6	0.121	0.234
1,152.00	0.0	7,893.8	20,881.1	0.160	0.393
1,153.00	0.0	10,403.2	27,359.0	0.209	0.603
1,154.00	0.0	13,249.6	35,393.2	0.271	0.874
1,155.00	0.0	16,735.8	44,876.4	0.343	1.217
1,156.00	0.0	20,497.9	55,755.3	0.427	1.644
1,157.00	0.0	24,576.7	67,519.5	0.517	2.160
1,158.00	0.0	28,022.6	78,842.4	0.603	2.764
1,159.00	0.0	32,069.1	90,069.2	0.689	3.453

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Elevation-Area Volume Curve

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	2,885.5	3,616.5	0.028	0.029
1,150.00	0.0	4,506.1	10,997.4	0.084	0.113
1,151.00	0.0	6,066.9	15,801.6	0.121	0.234
1,152.00	0.0	7,893.8	20,881.1	0.160	0.393
1,153.00	0.0	10,403.2	27,359.0	0.209	0.603
1,154.00	0.0	13,249.6	35,393.2	0.271	0.874
1,155.00	0.0	16,735.8	44,876.4	0.343	1.217
1,156.00	0.0	20,497.9	55,755.3	0.427	1.644
1,157.00	0.0	24,576.7	67,519.5	0.517	2.160
1,158.00	0.0	28,022.6	78,842.4	0.603	2.764
1,159.00	0.0	32,069.1	90,069.2	0.689	3.453

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Elevation-Area Volume Curve

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	2,885.5	3,616.5	0.028	0.029
1,150.00	0.0	4,506.1	10,997.4	0.084	0.113
1,151.00	0.0	6,066.9	15,801.6	0.121	0.234
1,152.00	0.0	7,893.8	20,881.1	0.160	0.393
1,153.00	0.0	10,403.2	27,359.0	0.209	0.603
1,154.00	0.0	13,249.6	35,393.2	0.271	0.874
1,155.00	0.0	16,735.8	44,876.4	0.343	1.217
1,156.00	0.0	20,497.9	55,755.3	0.427	1.644
1,157.00	0.0	24,576.7	67,519.5	0.517	2.160
1,158.00	0.0	28,022.6	78,842.4	0.603	2.764
1,159.00	0.0	32,069.1	90,069.2	0.689	3.453

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Elevation-Area Volume Curve

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	2,885.5	3,616.5	0.028	0.029
1,150.00	0.0	4,506.1	10,997.4	0.084	0.113
1,151.00	0.0	6,066.9	15,801.6	0.121	0.234
1,152.00	0.0	7,893.8	20,881.1	0.160	0.393
1,153.00	0.0	10,403.2	27,359.0	0.209	0.603
1,154.00	0.0	13,249.6	35,393.2	0.271	0.874
1,155.00	0.0	16,735.8	44,876.4	0.343	1.217
1,156.00	0.0	20,497.9	55,755.3	0.427	1.644
1,157.00	0.0	24,576.7	67,519.5	0.517	2.160
1,158.00	0.0	28,022.6	78,842.4	0.603	2.764
1,159.00	0.0	32,069.1	90,069.2	0.689	3.453

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Elevation-Area Volume Curve

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,149.30	0.0	111.7	0.0	0.000	0.000
1,150.00	0.0	2,995.9	3,686.2	0.020	0.020
1,151.00	0.0	7,633.4	15,411.4	0.118	0.138
1,152.00	0.0	19,110.9	38,822.5	0.297	0.435
1,153.00	0.0	36,713.8	82,313.1	0.630	1.065
1,154.00	0.0	98,796.6	195,736.6	1.498	2.562
1,154.10	0.0	104,462.6	304,849.3	0.233	2.796
1,155.00	0.0	123,221.9	341,139.7	2.349	5.145
1,156.00	0.0	135,550.8	388,012.1	2.969	8.114
1,157.00	0.0	148,458.3	425,867.0	3.259	11.373
1,158.00	0.0	162,585.8	466,405.6	3.569	14.942
1,159.00	0.0	180,057.7	513,742.3	3.931	18.874

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Elevation-Area Volume Curve

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,149.30	0.0	111.7	0.0	0.000	0.000
1,150.00	0.0	2,995.9	3,686.2	0.020	0.020
1,151.00	0.0	7,633.4	15,411.4	0.118	0.138
1,152.00	0.0	19,110.9	38,822.5	0.297	0.435
1,153.00	0.0	36,713.8	82,313.1	0.630	1.065
1,154.00	0.0	98,796.6	195,736.6	1.498	2.562
1,154.10	0.0	104,462.6	304,849.3	0.233	2.796
1,155.00	0.0	123,221.9	341,139.7	2.349	5.145
1,156.00	0.0	135,550.8	388,012.1	2.969	8.114
1,157.00	0.0	148,458.3	425,867.0	3.259	11.373
1,158.00	0.0	162,585.8	466,405.6	3.569	14.942
1,159.00	0.0	180,057.7	513,742.3	3.931	18.874

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Elevation-Area Volume Curve

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,149.30	0.0	111.7	0.0	0.000	0.000
1,150.00	0.0	2,995.9	3,686.2	0.020	0.020
1,151.00	0.0	7,633.4	15,411.4	0.118	0.138
1,152.00	0.0	19,110.9	38,822.5	0.297	0.435
1,153.00	0.0	36,713.8	82,313.1	0.630	1.065
1,154.00	0.0	98,796.6	195,736.6	1.498	2.562
1,154.10	0.0	104,462.6	304,849.3	0.233	2.796
1,155.00	0.0	123,221.9	341,139.7	2.349	5.145
1,156.00	0.0	135,550.8	388,012.1	2.969	8.114
1,157.00	0.0	148,458.3	425,867.0	3.259	11.373
1,158.00	0.0	162,585.8	466,405.6	3.569	14.942
1,159.00	0.0	180,057.7	513,742.3	3.931	18.874

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Elevation-Area Volume Curve

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,149.30	0.0	111.7	0.0	0.000	0.000
1,150.00	0.0	2,995.9	3,686.2	0.020	0.020
1,151.00	0.0	7,633.4	15,411.4	0.118	0.138
1,152.00	0.0	19,110.9	38,822.5	0.297	0.435
1,153.00	0.0	36,713.8	82,313.1	0.630	1.065
1,154.00	0.0	98,796.6	195,736.6	1.498	2.562
1,154.10	0.0	104,462.6	304,849.3	0.233	2.796
1,155.00	0.0	123,221.9	341,139.7	2.349	5.145
1,156.00	0.0	135,550.8	388,012.1	2.969	8.114
1,157.00	0.0	148,458.3	425,867.0	3.259	11.373
1,158.00	0.0	162,585.8	466,405.6	3.569	14.942
1,159.00	0.0	180,057.7	513,742.3	3.931	18.874

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward Only

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,149.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	40' Wide Sheet Pile	Forward	TW	1,154.10	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward Only

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: 40' Wide Sheet Pile

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	4.90
14.70	0.00
54.70	0.00
69.70	4.90

Lowest Elevation 1,154.10 ft

Weir Coefficient 3.33 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
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Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward Only

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,149.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	40' Wide Sheet Pile	Forward	TW	1,154.10	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward Only

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: 40' Wide Sheet Pile

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	4.90
14.70	0.00
54.70	0.00
69.70	4.90

Lowest Elevation 1,154.10 ft

Weir Coefficient 3.33 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward Only

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,149.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	40' Wide Sheet Pile	Forward	TW	1,154.10	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward Only

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: 40' Wide Sheet Pile

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	4.90
14.70	0.00
54.70	0.00
69.70	4.90

Lowest Elevation 1,154.10 ft

Weir Coefficient 3.33 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward Only

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,149.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	40' Wide Sheet Pile	Forward	TW	1,154.10	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward Only

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: 40' Wide Sheet Pile

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	4.90
14.70	0.00
54.70	0.00
69.70	4.90

Lowest Elevation 1,154.10 ft

Weir Coefficient 3.33 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Forward Flow Only

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward Flow Only

Index

4

40' Sheet Pile no Aux - Forward Only (Outlet Input Data, 10 years (Post-Development 10 year))...106, 107

40' Sheet Pile no Aux - Forward Only (Outlet Input Data, 100 years (Post-Development 100 year))...112, 113

40' Sheet Pile no Aux - Forward Only (Outlet Input Data, 25 years (Post-Development 25 year))...108, 109

40' Sheet Pile no Aux - Forward Only (Outlet Input Data, 50 years (Post-Development 50 year))...110, 111

C

Culvert (Elevation-Area Volume Curve, 10 years (Post-Development 10 year))...98

Culvert (Elevation-Area Volume Curve, 100 years (Post-Development 100 year))...101

Culvert (Elevation-Area Volume Curve, 25 years (Post-Development 25 year))...99

Culvert (Elevation-Area Volume Curve, 50 years (Post-Development 50 year))...100

Culvert (OUT) (Time vs. Elevation, 10 years (Post-Development 10 year))...34, 35, 36, 37

Culvert (OUT) (Time vs. Elevation, 100 years (Post-Development 100 year))...46, 47, 48, 49

Culvert (OUT) (Time vs. Elevation, 25 years (Post-Development 25 year))...38, 39, 40, 41

Culvert (OUT) (Time vs. Elevation, 50 years (Post-Development 50 year))...42, 43, 44, 45

Culvert (Outlet Input Data, 10 years (Post-Development 10 year))...114, 115, 116

Culvert (Outlet Input Data, 100 years (Post-Development 100 year))...123, 124, 125

Culvert (Outlet Input Data, 25 years (Post-Development 25 year))...117, 118, 119

Culvert (Outlet Input Data, 50 years (Post-Development 50 year))...120, 121, 122

Culvert (Time vs. Volume, 10 years (Post-Development 10 year))...66, 67, 68, 69

Culvert (Time vs. Volume, 100 years (Post-Development 100 year))...78, 79, 80, 81

Culvert (Time vs. Volume, 25 years (Post-Development 25 year))...70, 71, 72, 73

Culvert (Time vs. Volume, 50 years (Post-Development 50 year))...74, 75, 76, 77

E

East Ditch DA (Runoff CN-Area, 100 years (Post-Development 100 year))...16

East Ditch DA (Time of Concentration Calculations, 100 years (Post-Development 100 year))...12, 13

East Ditch DA (Unit Hydrograph Summary, 10 years (Post-Development 10 year))...18, 19

East Ditch DA (Unit Hydrograph Summary, 100 years (Post-Development 100 year))...24, 25

East Ditch DA (Unit Hydrograph Summary, 25 years (Post-Development 25 year))...20, 21

WINN970905C Stormwater Report - Forward Flow Only

East Ditch DA (Unit Hydrograph Summary, 50 years (Post-Development 50 year))...22, 23

M

Master Network Summary...1, 2, 3

MSE4 (Time-Depth Curve, 10 years (Post-Development 10 year))...4, 5

MSE4 (Time-Depth Curve, 100 years (Post-Development 100 year))...6, 7

MSE4 (Time-Depth Curve, 25 years (Post-Development 25 year))...8, 9

MSE4 (Time-Depth Curve, 50 years (Post-Development 50 year))...10, 11

R

Road Overtop (Outlet Input Data, 10 years (Post-Development 10 year))...126, 127

Road Overtop (Outlet Input Data, 100 years (Post-Development 100 year))...132, 133

Road Overtop (Outlet Input Data, 25 years (Post-Development 25 year))...128, 129

Road Overtop (Outlet Input Data, 50 years (Post-Development 50 year))...130, 131

W

Wetland DA (Runoff CN-Area, 100 years (Post-Development 100 year))...17

Wetland DA (Time of Concentration Calculations, 100 years (Post-Development 100 year))...14, 15

Wetland DA (Unit Hydrograph Summary, 10 years (Post-Development 10 year))...26, 27

Wetland DA (Unit Hydrograph Summary, 100 years (Post-Development 100 year))...32, 33

Wetland DA (Unit Hydrograph Summary, 25 years (Post-Development 25 year))...28, 29

Wetland DA (Unit Hydrograph Summary, 50 years (Post-Development 50 year))...30, 31

WINN C WETLAND (Elevation-Area Volume Curve, 10 years (Post-Development 10 year))...102

WINN C WETLAND (Elevation-Area Volume Curve, 100 years (Post-Development 100 year))...105

WINN C WETLAND (Elevation-Area Volume Curve, 25 years (Post-Development 25 year))...103

WINN C WETLAND (Elevation-Area Volume Curve, 50 years (Post-Development 50 year))...104

WINN C WETLAND (OUT) (Time vs. Elevation, 10 years (Post-Development 10 year))...50, 51, 52, 53

WINN C WETLAND (OUT) (Time vs. Elevation, 100 years (Post-Development 100 year))...62, 63, 64, 65

WINN C WETLAND (OUT) (Time vs. Elevation, 25 years (Post-Development 25 year))...54, 55, 56, 57

WINN C WETLAND (OUT) (Time vs. Elevation, 50 years (Post-Development 50 year))...58, 59, 60, 61

WINN C WETLAND (Time vs. Volume, 10 years (Post-Development 10 year))...82, 83, 84, 85

WINN970905C Stormwater Report - Forward Flow Only

WINN C WETLAND (Time vs. Volume, 100 years (Post-Development 100 year))...94, 95, 96, 97

WINN C WETLAND (Time vs. Volume, 25 years (Post-Development 25 year))...86, 87, 88, 89

WINN C WETLAND (Time vs. Volume, 50 years (Post-Development 50 year))...90, 91, 92, 93

Table of Contents

	Master Network Summary	1
MSE4		
	Time-Depth Curve, 10 years (Post-Development 10 year)	4
	Time-Depth Curve, 100 years (Post-Development 100 year)	6
	Time-Depth Curve, 25 years (Post-Development 25 year)	8
	Time-Depth Curve, 50 years (Post-Development 50 year)	10
East Ditch DA		
	Time of Concentration Calculations, 100 years (Post-Development 100 year)	12
Wetland DA		
	Time of Concentration Calculations, 100 years (Post-Development 100 year)	14
East Ditch DA		
	Runoff CN-Area, 100 years (Post-Development 100 year)	16
Wetland DA		
	Runoff CN-Area, 100 years (Post-Development 100 year)	17
East Ditch DA		
	Unit Hydrograph Summary, 10 years (Post-Development 10 year)	18
	Unit Hydrograph Summary, 25 years (Post-Development 25 year)	20
	Unit Hydrograph Summary, 50 years (Post-Development 50 year)	22
	Unit Hydrograph Summary, 100 years (Post-Development 100 year)	24
Wetland DA		
	Unit Hydrograph Summary, 10 years (Post-Development 10 year)	26
	Unit Hydrograph Summary, 25 years (Post-Development 25 year)	28
	Unit Hydrograph Summary, 50 years (Post-Development 50 year)	30
	Unit Hydrograph Summary, 100 years (Post-Development 100 year)	32
Culvert (IN)		
	Time vs. Elevation, 10 years (Post-Development 10 year)	34
	Time vs. Elevation, 25 years (Post-Development 25 year)	38
	Time vs. Elevation, 50 years (Post-Development 50 year)	42
	Time vs. Elevation, 100 years (Post-Development 100 year)	46
WINN C WETLAND (IN)		
	Time vs. Elevation, 10 years (Post-Development 10 year)	50
	Time vs. Elevation, 25 years (Post-Development 25 year)	54

Table of Contents

	Time vs. Elevation, 50 years (Post-Development 50 year)	58
	Time vs. Elevation, 100 years (Post-Development 100 year)	62
Culvert		
	Time vs. Volume, 10 years (Post-Development 10 year)	66
	Time vs. Volume, 25 years (Post-Development 25 year)	70
	Time vs. Volume, 50 years (Post-Development 50 year)	74
	Time vs. Volume, 100 years (Post-Development 100 year)	78
WINN C WETLAND		
	Time vs. Volume, 10 years (Post-Development 10 year)	82
	Time vs. Volume, 25 years (Post-Development 25 year)	86
	Time vs. Volume, 50 years (Post-Development 50 year)	90
	Time vs. Volume, 100 years (Post-Development 100 year)	94
Culvert		
	Elevation-Area Volume Curve, 10 years (Post-Development 10 year)	98
	Elevation-Area Volume Curve, 25 years (Post-Development 25 year)	99
	Elevation-Area Volume Curve, 50 years (Post-Development 50 year)	100
	Elevation-Area Volume Curve, 100 years (Post-Development 100 year)	101
WINN C WETLAND		
	Elevation-Area Volume Curve, 10 years (Post-Development 10 year)	102
	Elevation-Area Volume Curve, 25 years (Post-Development 25 year)	103
	Elevation-Area Volume Curve, 50 years (Post-Development 50 year)	104
	Elevation-Area Volume Curve, 100 years (Post-Development 100 year)	105
40' Sheet Pile no Aux - Forward & Reverse		
	Outlet Input Data, 10 years (Post-Development 10 year)	106
	Outlet Input Data, 25 years (Post-Development 25 year)	108
	Outlet Input Data, 50 years (Post-Development 50 year)	110
	Outlet Input Data, 100 years (Post-Development 100 year)	112
Culvert		
	Outlet Input Data, 10 years (Post-Development 10 year)	114
	Outlet Input Data, 25 years (Post-Development 25 year)	117
	Outlet Input Data, 50 years (Post-Development 50 year)	120
	Outlet Input Data, 100 years (Post-Development 100 year)	123
Road Overtop		

Table of Contents

Outlet Input Data, 10 years (Post-Development 10 year)	126
Outlet Input Data, 25 years (Post-Development 25 year)	128
Outlet Input Data, 50 years (Post-Development 50 year)	130
Outlet Input Data, 100 years (Post-Development 100 year)	132

HYDROLOGY & HYDRAULIC OUTPUT

PROPOSED CONDITIONS -
FORWARD AND REVERSE FLOW

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Wetland DA	Post-Development 10 year	10	55.163	13.000	265.71
Wetland DA	Post-Development 25 year	25	76.897	13.000	372.29
Wetland DA	Post-Development 50 year	50	96.107	13.000	465.33
Wetland DA	Post-Development 100 year	100	117.486	13.000	567.75
East Ditch DA	Post-Development 10 year	10	0.956	12.300	10.79
East Ditch DA	Post-Development 25 year	25	1.317	12.300	14.76
East Ditch DA	Post-Development 50 year	50	1.633	12.300	18.18
East Ditch DA	Post-Development 100 year	100	1.985	12.300	21.92
East Waterway DA	Post-Development 10 year	10	2.645	12.400	25.27
East Waterway DA	Post-Development 25 year	25	3.734	12.400	35.66
East Waterway DA	Post-Development 50 year	50	4.703	12.400	44.74
East Waterway DA	Post-Development 100 year	100	5.785	12.400	54.74

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Culvert Outfall	Post-Development 10 year	10	57.274	13.500	211.13
Culvert Outfall	Post-Development 25 year	25	73.504	13.300	229.24
Culvert Outfall	Post-Development 50 year	50	84.169	13.300	235.36
Culvert Outfall	Post-Development 100 year	100	94.667	13.200	239.62
East Waterway Outfall	Post-Development 10 year	10	2.645	12.400	25.27
East Waterway Outfall	Post-Development 25 year	25	3.734	12.400	35.66
East Waterway Outfall	Post-Development 50 year	50	4.703	12.400	44.74
East Waterway Outfall	Post-Development 100 year	100	5.785	12.400	54.74

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Master Network Summary

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
Road Overflow Outfall	Post-Development 10 year	10	0.000	0.000	0.00
Road Overflow Outfall	Post-Development 25 year	25	6.036	13.300	103.61
Road Overflow Outfall	Post-Development 50 year	50	14.829	13.300	196.92
Road Overflow Outfall	Post-Development 100 year	100	26.125	13.200	306.29

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
WINN C WETLAND (IN)	Post-Development 10 year	10	55.727	13.000	267.01	(N/A)	(N/A)
WINN C WETLAND (OUT)	Post-Development 10 year	10	55.718	13.200	214.49	1,156.15	8.597
WINN C WETLAND (IN)	Post-Development 25 year	25	77.599	13.000	373.66	(N/A)	(N/A)
WINN C WETLAND (OUT)	Post-Development 25 year	25	77.569	13.300	333.13	1,156.99	11.357
WINN C WETLAND (IN)	Post-Development 50 year	50	96.920	13.000	466.76	(N/A)	(N/A)
WINN C WETLAND (OUT)	Post-Development 50 year	50	96.896	13.200	432.66	1,157.36	12.665
WINN C WETLAND (IN)	Post-Development 100 year	100	118.411	13.000	569.24	(N/A)	(N/A)
WINN C WETLAND (OUT)	Post-Development 100 year	100	118.342	13.200	543.51	1,157.67	13.777
Culvert (IN)	Post-Development 10 year	10	56.110	13.200	215.00	(N/A)	(N/A)
Culvert (OUT)	Post-Development 10 year	10	56.120	13.500	211.13	1,155.94	1.619

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Master Network Summary

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
Culvert (IN)	Post-Development 25 year	25	78.183	13.300	333.96	(N/A)	(N/A)
Culvert (OUT)	Post-Development 25 year	25	78.219	13.300	332.85	1,156.79	2.049
Culvert (IN)	Post-Development 50 year	50	97.716	13.200	434.10	(N/A)	(N/A)
Culvert (OUT)	Post-Development 50 year	50	97.718	13.300	432.29	1,157.08	2.211
Culvert (IN)	Post-Development 100 year	100	119.402	13.200	545.43	(N/A)	(N/A)
Culvert (OUT)	Post-Development 100 year	100	119.482	13.200	545.93	1,157.30	2.341
East Ditch Pond (IN)	Post-Development 10 year	10	0.956	12.300	10.79	(N/A)	(N/A)
East Ditch Pond (OUT)	Post-Development 10 year	10	0.956	12.300	10.41	1,163.04	0.005
East Ditch Pond (IN)	Post-Development 25 year	25	1.317	12.300	14.76	(N/A)	(N/A)
East Ditch Pond (OUT)	Post-Development 25 year	25	1.317	12.300	14.32	1,163.12	0.006
East Ditch Pond (IN)	Post-Development 50 year	50	1.633	12.300	18.18	(N/A)	(N/A)
East Ditch Pond (OUT)	Post-Development 50 year	50	1.633	12.300	17.70	1,163.18	0.006
East Ditch Pond (IN)	Post-Development 100 year	100	1.985	12.300	21.92	(N/A)	(N/A)
East Ditch Pond (OUT)	Post-Development 100 year	100	1.985	12.300	21.39	1,163.26	0.007

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Time-Depth Curve: 10 year

Label	10 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	10 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.0	0.0	0.0
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.1	0.1	0.1	0.1	0.1
4.000	0.1	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.2	0.2	0.2	0.2	0.2
5.500	0.2	0.2	0.3	0.3	0.3
6.000	0.3	0.3	0.3	0.3	0.3
6.500	0.3	0.3	0.3	0.3	0.3
7.000	0.4	0.4	0.4	0.4	0.4
7.500	0.4	0.4	0.4	0.4	0.4
8.000	0.4	0.5	0.5	0.5	0.5
8.500	0.5	0.5	0.5	0.5	0.5
9.000	0.5	0.6	0.6	0.6	0.6
9.500	0.6	0.6	0.7	0.7	0.7
10.000	0.7	0.7	0.7	0.8	0.8
10.500	0.8	0.8	0.9	0.9	0.9
11.000	1.0	1.0	1.1	1.1	1.2
11.500	1.2	1.3	1.4	1.5	1.7
12.000	2.1	2.7	2.9	3.1	3.2
12.500	3.3	3.3	3.4	3.4	3.5
13.000	3.5	3.6	3.6	3.6	3.7
13.500	3.7	3.7	3.7	3.7	3.8
14.000	3.8	3.8	3.8	3.8	3.8
14.500	3.9	3.9	3.9	3.9	3.9
15.000	3.9	3.9	4.0	4.0	4.0
15.500	4.0	4.0	4.0	4.0	4.0
16.000	4.0	4.0	4.1	4.1	4.1
16.500	4.1	4.1	4.1	4.1	4.1

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	4.1	4.1	4.1	4.2	4.2
17.500	4.2	4.2	4.2	4.2	4.2
18.000	4.2	4.2	4.2	4.2	4.2
18.500	4.2	4.2	4.3	4.3	4.3
19.000	4.3	4.3	4.3	4.3	4.3
19.500	4.3	4.3	4.3	4.3	4.3
20.000	4.3	4.3	4.3	4.4	4.4
20.500	4.4	4.4	4.4	4.4	4.4
21.000	4.4	4.4	4.4	4.4	4.4
21.500	4.4	4.4	4.4	4.4	4.4
22.000	4.4	4.4	4.4	4.4	4.4
22.500	4.4	4.4	4.4	4.5	4.5
23.000	4.5	4.5	4.5	4.5	4.5
23.500	4.5	4.5	4.5	4.5	4.5
24.000	4.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time-Depth Curve: 100 year

Label	100 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.2
3.000	0.2	0.2	0.2	0.2	0.2
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.3	0.3	0.3	0.3
4.500	0.3	0.3	0.3	0.3	0.3
5.000	0.3	0.4	0.4	0.4	0.4
5.500	0.4	0.4	0.4	0.4	0.4
6.000	0.5	0.5	0.5	0.5	0.5
6.500	0.5	0.5	0.6	0.6	0.6
7.000	0.6	0.6	0.6	0.6	0.6
7.500	0.7	0.7	0.7	0.7	0.7
8.000	0.7	0.8	0.8	0.8	0.8
8.500	0.8	0.8	0.9	0.9	0.9
9.000	0.9	0.9	1.0	1.0	1.0
9.500	1.0	1.1	1.1	1.1	1.2
10.000	1.2	1.2	1.2	1.3	1.3
10.500	1.3	1.4	1.4	1.5	1.6
11.000	1.6	1.7	1.8	1.8	1.9
11.500	2.0	2.2	2.3	2.6	2.9
12.000	3.5	4.6	4.9	5.1	5.3
12.500	5.4	5.5	5.6	5.7	5.8
13.000	5.9	5.9	6.0	6.0	6.1
13.500	6.1	6.2	6.2	6.2	6.3
14.000	6.3	6.3	6.4	6.4	6.4
14.500	6.4	6.5	6.5	6.5	6.5
15.000	6.6	6.6	6.6	6.6	6.6
15.500	6.7	6.7	6.7	6.7	6.7
16.000	6.7	6.8	6.8	6.8	6.8
16.500	6.8	6.8	6.8	6.9	6.9

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time-Depth Curve

Return Event: 100 years

Label: MSE4

Storm Event: 100 year

Scenario: Post-Development 100 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	6.9	6.9	6.9	6.9	6.9
17.500	7.0	7.0	7.0	7.0	7.0
18.000	7.0	7.0	7.0	7.1	7.1
18.500	7.1	7.1	7.1	7.1	7.1
19.000	7.1	7.1	7.2	7.2	7.2
19.500	7.2	7.2	7.2	7.2	7.2
20.000	7.2	7.2	7.3	7.3	7.3
20.500	7.3	7.3	7.3	7.3	7.3
21.000	7.3	7.3	7.3	7.3	7.4
21.500	7.4	7.4	7.4	7.4	7.4
22.000	7.4	7.4	7.4	7.4	7.4
22.500	7.4	7.4	7.4	7.4	7.4
23.000	7.4	7.4	7.5	7.5	7.5
23.500	7.5	7.5	7.5	7.5	7.5
24.000	7.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Time-Depth Curve: 25 year

Label	25 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	25 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.0	0.0	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.1	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.3	0.3	0.3	0.3	0.3
5.500	0.3	0.3	0.3	0.3	0.3
6.000	0.3	0.4	0.4	0.4	0.4
6.500	0.4	0.4	0.4	0.4	0.4
7.000	0.4	0.5	0.5	0.5	0.5
7.500	0.5	0.5	0.5	0.5	0.5
8.000	0.6	0.6	0.6	0.6	0.6
8.500	0.6	0.6	0.6	0.6	0.7
9.000	0.7	0.7	0.7	0.7	0.8
9.500	0.8	0.8	0.8	0.8	0.9
10.000	0.9	0.9	0.9	0.9	1.0
10.500	1.0	1.0	1.1	1.1	1.2
11.000	1.2	1.3	1.3	1.4	1.4
11.500	1.5	1.6	1.7	1.9	2.2
12.000	2.6	3.4	3.7	3.8	4.0
12.500	4.1	4.1	4.2	4.2	4.3
13.000	4.4	4.4	4.5	4.5	4.5
13.500	4.6	4.6	4.6	4.6	4.7
14.000	4.7	4.7	4.7	4.7	4.8
14.500	4.8	4.8	4.8	4.8	4.9
15.000	4.9	4.9	4.9	4.9	4.9
15.500	4.9	5.0	5.0	5.0	5.0
16.000	5.0	5.0	5.0	5.0	5.1
16.500	5.1	5.1	5.1	5.1	5.1

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time-Depth Curve

Return Event: 25 years

Label: MSE4

Storm Event: 25 year

Scenario: Post-Development 25 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	5.1	5.1	5.1	5.2	5.2
17.500	5.2	5.2	5.2	5.2	5.2
18.000	5.2	5.2	5.2	5.2	5.3
18.500	5.3	5.3	5.3	5.3	5.3
19.000	5.3	5.3	5.3	5.3	5.3
19.500	5.3	5.4	5.4	5.4	5.4
20.000	5.4	5.4	5.4	5.4	5.4
20.500	5.4	5.4	5.4	5.4	5.4
21.000	5.4	5.4	5.5	5.5	5.5
21.500	5.5	5.5	5.5	5.5	5.5
22.000	5.5	5.5	5.5	5.5	5.5
22.500	5.5	5.5	5.5	5.5	5.5
23.000	5.5	5.5	5.5	5.5	5.5
23.500	5.5	5.6	5.6	5.6	5.6
24.000	5.6	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time-Depth Curve

Label: MSE4

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Time-Depth Curve: 50 year

Label	50 year
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	50 years

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.0	0.0
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.2	0.2	0.2
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.3	0.3	0.3	0.3	0.3
5.000	0.3	0.3	0.3	0.3	0.3
5.500	0.3	0.4	0.4	0.4	0.4
6.000	0.4	0.4	0.4	0.4	0.4
6.500	0.5	0.5	0.5	0.5	0.5
7.000	0.5	0.5	0.5	0.6	0.6
7.500	0.6	0.6	0.6	0.6	0.6
8.000	0.6	0.7	0.7	0.7	0.7
8.500	0.7	0.7	0.7	0.8	0.8
9.000	0.8	0.8	0.8	0.9	0.9
9.500	0.9	0.9	1.0	1.0	1.0
10.000	1.0	1.1	1.1	1.1	1.1
10.500	1.2	1.2	1.2	1.3	1.3
11.000	1.4	1.5	1.5	1.6	1.7
11.500	1.8	1.9	2.0	2.2	2.5
12.000	3.0	4.0	4.3	4.5	4.6
12.500	4.7	4.8	4.9	4.9	5.0
13.000	5.1	5.1	5.2	5.2	5.3
13.500	5.3	5.3	5.4	5.4	5.4
14.000	5.5	5.5	5.5	5.5	5.6
14.500	5.6	5.6	5.6	5.6	5.7
15.000	5.7	5.7	5.7	5.7	5.8
15.500	5.8	5.8	5.8	5.8	5.8
16.000	5.8	5.9	5.9	5.9	5.9
16.500	5.9	5.9	5.9	5.9	6.0

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time-Depth Curve

Return Event: 50 years

Label: MSE4

Storm Event: 50 year

Scenario: Post-Development 50 year

CUMULATIVE RAINFALL (in)

Output Time Increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.000	6.0	6.0	6.0	6.0	6.0
17.500	6.0	6.0	6.0	6.1	6.1
18.000	6.1	6.1	6.1	6.1	6.1
18.500	6.1	6.1	6.2	6.2	6.2
19.000	6.2	6.2	6.2	6.2	6.2
19.500	6.2	6.2	6.2	6.3	6.3
20.000	6.3	6.3	6.3	6.3	6.3
20.500	6.3	6.3	6.3	6.3	6.3
21.000	6.3	6.3	6.4	6.4	6.4
21.500	6.4	6.4	6.4	6.4	6.4
22.000	6.4	6.4	6.4	6.4	6.4
22.500	6.4	6.4	6.4	6.4	6.4
23.000	6.4	6.5	6.5	6.5	6.5
23.500	6.5	6.5	6.5	6.5	6.5
24.000	6.5	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time of Concentration Calculations

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time of Concentration Results

Segment #1: SCS Lag

Hydraulic Length	1,136.78 ft
CN	74.000
Slope	0.037 ft/ft
Average Velocity	0.87 ft/s
Segment Time of Concentration	0.364 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	0.364 hours
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WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time of Concentration Calculations

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

==== SCS Lag

Tc = $0.000877 * (Lf^{0.8}) * ((1000/CN)-9)^{0.7} * (Sf^{-0.5})$

Where: Tc= Time of concentration, hours
Lf= Flow length, feet
CN= SCS Curve Number
Sf= Slope, ft/ft

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time of Concentration Calculations

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Time of Concentration Results

Segment #1: SCS Lag

Hydraulic Length	4,600.00 ft
CN	79.000
Slope	0.016 ft/ft
Average Velocity	0.86 ft/s
Segment Time of Concentration	1.480 hours

Time of Concentration (Composite)

Time of Concentration (Composite)	1.480 hours
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WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time of Concentration Calculations

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

==== SCS Lag

Tc = $0.000877 * (Lf^{0.8}) * ((1000/CN)-9)^{0.7} * (Sf^{-0.5})$

Where: Tc= Time of concentration, hours
Lf= Flow length, feet
CN= SCS Curve Number
Sf= Slope, ft/ft

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Runoff CN-Area

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (ft ²)	C (%)	UC (%)	Adjusted CN
Row crops - SR + Crop residue, good - Soil C	82.000	115,758.1	0.0	0.0	82.000
Pasture, grassland, or range - good - Soil C	74.000	57,707.2	0.0	0.0	74.000
Impervious Areas - Gravel (w/ right-of-way) - Soil C	89.000	23,985.4	0.0	0.0	89.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	197,450.7	(N/A)	(N/A)	80.512

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Runoff CN-Area

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Runoff Curve Number Data

Soil/Surface Description	CN	Area (ft ²)	C (%)	UC (%)	Adjusted CN
Row crops - SR + Crop residue, good - Soil C	82.000	6,232,307.7	0.0	0.0	82.000
Residential Districts - 2 acre - Soil C	77.000	494,523.9	0.0	0.0	77.000
Pasture, grassland, or range - good - Soil C	74.000	2,023,116.0	0.0	0.0	74.000
Woods - grass combination - good - Soil C	72.000	90,483.6	0.0	0.0	72.000
Pasture, grassland, or range - good - Soil C	74.000	546,361.2	0.0	0.0	74.000
Impervious Areas - Gravel (w/ right-of-way) - Soil C	89.000	162,250.5	0.0	0.0	89.000
Row crops - SR + Crop residue, good - Soil B	75.000	2,670,989.0	0.0	0.0	75.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	12,220,031.9	(N/A)	(N/A)	78.604

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Storm Event	10 year
Return Event	10 years
Duration	72.000 hours
Depth	4.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	10.89 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	10.79 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.5 in
Runoff Volume (Pervious)	0.956 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	0.956 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Storm Event	25 year
Return Event	25 years
Duration	72.000 hours
Depth	5.6 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	14.98 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	14.76 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	3.5 in
Runoff Volume (Pervious)	1.316 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.317 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Storm Event	50 year
Return Event	50 years
Duration	72.000 hours
Depth	6.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	18.52 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	18.18 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.3 in
Runoff Volume (Pervious)	1.633 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.633 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Storm Event	100 year
Return Event	100 years
Duration	72.000 hours
Depth	7.5 in
Time of Concentration (Composite)	0.364 hours
Area (User Defined)	197,450.7 ft ²

Computational Time Increment	0.049 hours
Time to Peak (Computed)	12.244 hours
Flow (Peak, Computed)	22.39 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	12.300 hours
Flow (Peak Interpolated Output)	21.92 ft ³ /s

Drainage Area	
SCS CN (Composite)	81.000
Area (User Defined)	197,450.7 ft ²
Maximum Retention (Pervious)	2.3 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.3 in
Runoff Volume (Pervious)	1.984 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	1.985 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	0.364 hours
Computational Time Increment	0.049 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: East Ditch DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

Unit peak, qp	14.09 ft ³ /s
Unit peak time, Tp	0.243 hours
Unit receding limb, Tr	0.972 hours
Total unit time, Tb	1.215 hours

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Storm Event	10 year
Return Event	10 years
Duration	72.000 hours
Depth	4.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²
Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	267.20 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	265.71 ft ³ /s
Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	2.4 in
Runoff Volume (Pervious)	55.164 ac-ft
Hydrograph Volume (Area under Hydrograph curve)	
Volume	55.163 ac-ft
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Storm Event	25 year
Return Event	25 years
Duration	72.000 hours
Depth	5.6 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²

Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	373.98 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	372.29 ft ³ /s

Drainage Area

SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff

Cumulative Runoff Depth (Pervious)	3.3 in
Runoff Volume (Pervious)	76.899 ac-ft

Hydrograph Volume (Area under Hydrograph curve)

Volume	76.897 ac-ft
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SCS Unit Hydrograph Parameters

Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Storm Event	50 year
Return Event	50 years
Duration	72.000 hours
Depth	6.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²

Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	467.17 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	465.33 ft ³ /s

Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in

Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	4.1 in
Runoff Volume (Pervious)	96.109 ac-ft

Hydrograph Volume (Area under Hydrograph curve)	
Volume	96.107 ac-ft

SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Storm Event	100 year
Return Event	100 years
Duration	72.000 hours
Depth	7.5 in
Time of Concentration (Composite)	1.480 hours
Area (User Defined)	12,220,031.9 ft ²
Computational Time Increment	0.197 hours
Time to Peak (Computed)	13.023 hours
Flow (Peak, Computed)	569.71 ft ³ /s
Output Increment	0.100 hours
Time to Flow (Peak Interpolated Output)	13.000 hours
Flow (Peak Interpolated Output)	567.75 ft ³ /s
Drainage Area	
SCS CN (Composite)	79.000
Area (User Defined)	12,220,031.9 ft ²
Maximum Retention (Pervious)	2.7 in
Maximum Retention (Pervious, 20 percent)	0.5 in
Cumulative Runoff	
Cumulative Runoff Depth (Pervious)	5.0 in
Runoff Volume (Pervious)	117.489 ac-ft
Hydrograph Volume (Area under Hydrograph curve)	
Volume	117.486 ac-ft
SCS Unit Hydrograph Parameters	
Time of Concentration (Composite)	1.480 hours
Computational Time Increment	0.197 hours
Unit Hydrograph Shape Factor	483.432
K Factor	0.749
Receding/Rising, Tr/Tp	1.670

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Unit Hydrograph Summary

Label: Wetland DA

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

SCS Unit Hydrograph Parameters

Unit peak, qp	214.78 ft ³ /s
Unit peak time, Tp	0.987 hours
Unit receding limb, Tr	3.946 hours
Total unit time, Tb	4.933 hours

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Culvert (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
8.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
8.500	1,147.10	1,147.10	1,147.10	1,147.11	1,147.13
9.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
9.500	1,147.16	1,147.16	1,147.17	1,147.17	1,147.19
10.000	1,147.20	1,147.22	1,147.24	1,147.27	1,147.30
10.500	1,147.33	1,147.37	1,147.42	1,147.47	1,147.53
11.000	1,147.60	1,147.64	1,147.69	1,147.80	1,147.91
11.500	1,148.02	1,148.15	1,148.28	1,148.47	1,148.72
12.000	1,149.02	1,149.37	1,149.95	1,150.57	1,151.29
12.500	1,152.06	1,152.80	1,153.52	1,154.33	1,154.95
13.000	1,155.26	1,155.52	1,155.71	1,155.84	1,155.92
13.500	1,155.94	1,155.92	1,155.85	1,155.75	1,155.59
14.000	1,155.40	1,155.18	1,154.89	1,154.55	1,154.09
14.500	1,153.31	1,152.58	1,152.03	1,151.59	1,151.28
15.000	1,151.05	1,150.84	1,150.66	1,150.52	1,150.40
15.500	1,150.28	1,150.17	1,150.06	1,149.96	1,149.85
16.000	1,149.76	1,149.68	1,149.59	1,149.51	1,149.44
16.500	1,149.37	1,149.31	1,149.25	1,149.20	1,149.15
17.000	1,149.10	1,149.06	1,149.03	1,148.98	1,148.95
17.500	1,148.92	1,148.90	1,148.88	1,148.86	1,148.84
18.000	1,148.83	1,148.81	1,148.80	1,148.78	1,148.77
18.500	1,148.75	1,148.74	1,148.73	1,148.72	1,148.70
19.000	1,148.69	1,148.68	1,148.67	1,148.65	1,148.64
19.500	1,148.63	1,148.62	1,148.61	1,148.59	1,148.58

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Culvert (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,148.57	1,148.55	1,148.54	1,148.53	1,148.51
20.500	1,148.50	1,148.48	1,148.47	1,148.46	1,148.44
21.000	1,148.43	1,148.42	1,148.40	1,148.39	1,148.37
21.500	1,148.36	1,148.35	1,148.33	1,148.32	1,148.30
22.000	1,148.29	1,148.28	1,148.27	1,148.25	1,148.24
22.500	1,148.23	1,148.22	1,148.20	1,148.19	1,148.18
23.000	1,148.16	1,148.15	1,148.13	1,148.12	1,148.11
23.500	1,148.09	1,148.07	1,148.05	1,148.04	1,148.02
24.000	1,148.00	1,147.97	1,147.95	1,147.93	1,147.91
24.500	1,147.89	1,147.86	1,147.83	1,147.80	1,147.77
25.000	1,147.74	1,147.71	1,147.69	1,147.67	1,147.65
25.500	1,147.63	1,147.60	1,147.57	1,147.54	1,147.50
26.000	1,147.47	1,147.44	1,147.41	1,147.39	1,147.36
26.500	1,147.34	1,147.32	1,147.31	1,147.29	1,147.27
27.000	1,147.26	1,147.25	1,147.24	1,147.23	1,147.22
27.500	1,147.21	1,147.20	1,147.20	1,147.19	1,147.19
28.000	1,147.18	1,147.18	1,147.18	1,147.17	1,147.17
28.500	1,147.17	1,147.17	1,147.16	1,147.16	1,147.16
29.000	1,147.16	1,147.16	1,147.16	1,147.16	1,147.16
29.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
30.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
30.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
31.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
31.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
32.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
32.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
33.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
33.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
34.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
34.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
35.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
35.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
36.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
36.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
37.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
37.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
38.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
38.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
39.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
39.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
40.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Culvert (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
41.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
41.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
42.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
42.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
43.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
43.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
44.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
44.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
45.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
45.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
46.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
46.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
47.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
47.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
48.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
48.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
49.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
49.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
50.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
50.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
51.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
51.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
52.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
52.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
53.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
53.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
54.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
54.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
55.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
55.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
56.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
56.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
57.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
57.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
58.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
58.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
59.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
59.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
60.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
60.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 10 years

Label: Culvert (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
61.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
62.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
62.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
63.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
63.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
64.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
64.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
65.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
65.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
66.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
66.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
67.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
67.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
68.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
68.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
69.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
69.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
70.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
70.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
71.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
71.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
72.000	1,147.15	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Culvert (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.500	1,147.10	1,147.10	1,147.11	1,147.11	1,147.13
8.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
8.500	1,147.16	1,147.16	1,147.16	1,147.17	1,147.18
9.000	1,147.19	1,147.20	1,147.21	1,147.23	1,147.25
9.500	1,147.28	1,147.31	1,147.34	1,147.38	1,147.43
10.000	1,147.48	1,147.54	1,147.60	1,147.64	1,147.68
10.500	1,147.74	1,147.82	1,147.89	1,147.97	1,148.04
11.000	1,148.12	1,148.20	1,148.29	1,148.41	1,148.55
11.500	1,148.70	1,148.86	1,149.04	1,149.24	1,149.51
12.000	1,149.90	1,150.37	1,151.06	1,151.86	1,152.69
12.500	1,153.52	1,154.55	1,155.27	1,155.78	1,156.18
13.000	1,156.47	1,156.66	1,156.75	1,156.79	1,156.78
13.500	1,156.74	1,156.69	1,156.63	1,156.55	1,156.46
14.000	1,156.35	1,156.23	1,156.09	1,155.93	1,155.73
14.500	1,155.48	1,155.20	1,154.85	1,154.45	1,153.86
15.000	1,153.02	1,152.29	1,151.77	1,151.42	1,151.18
15.500	1,150.99	1,150.80	1,150.66	1,150.54	1,150.41
16.000	1,150.30	1,150.19	1,150.09	1,149.99	1,149.89
16.500	1,149.80	1,149.72	1,149.65	1,149.59	1,149.53
17.000	1,149.47	1,149.43	1,149.39	1,149.35	1,149.32
17.500	1,149.29	1,149.26	1,149.23	1,149.21	1,149.19
18.000	1,149.17	1,149.15	1,149.13	1,149.11	1,149.10
18.500	1,149.08	1,149.06	1,149.04	1,149.03	1,149.01
19.000	1,148.99	1,148.97	1,148.96	1,148.94	1,148.92
19.500	1,148.91	1,148.89	1,148.88	1,148.86	1,148.85

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Culvert (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,148.84	1,148.82	1,148.81	1,148.79	1,148.78
20.500	1,148.76	1,148.75	1,148.73	1,148.72	1,148.70
21.000	1,148.69	1,148.67	1,148.66	1,148.64	1,148.63
21.500	1,148.61	1,148.59	1,148.58	1,148.56	1,148.54
22.000	1,148.52	1,148.50	1,148.49	1,148.47	1,148.45
22.500	1,148.43	1,148.41	1,148.39	1,148.37	1,148.36
23.000	1,148.34	1,148.32	1,148.30	1,148.28	1,148.27
23.500	1,148.25	1,148.24	1,148.22	1,148.20	1,148.18
24.000	1,148.17	1,148.15	1,148.13	1,148.11	1,148.09
24.500	1,148.06	1,148.02	1,147.98	1,147.94	1,147.90
25.000	1,147.86	1,147.81	1,147.77	1,147.73	1,147.70
25.500	1,147.67	1,147.65	1,147.63	1,147.61	1,147.57
26.000	1,147.54	1,147.50	1,147.47	1,147.44	1,147.41
26.500	1,147.38	1,147.36	1,147.34	1,147.32	1,147.30
27.000	1,147.29	1,147.27	1,147.26	1,147.25	1,147.24
27.500	1,147.23	1,147.22	1,147.21	1,147.20	1,147.20
28.000	1,147.19	1,147.19	1,147.18	1,147.18	1,147.18
28.500	1,147.17	1,147.17	1,147.17	1,147.16	1,147.16
29.000	1,147.16	1,147.16	1,147.16	1,147.16	1,147.16
29.500	1,147.16	1,147.16	1,147.15	1,147.15	1,147.15
30.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
30.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
31.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
31.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
32.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
32.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
33.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
33.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
34.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
34.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
35.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
35.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
36.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
36.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
37.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
37.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
38.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
38.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
39.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
39.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
40.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Culvert (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
41.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
41.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
42.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
42.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
43.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
43.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
44.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
44.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
45.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
45.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
46.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
46.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
47.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
47.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
48.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
48.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
49.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
49.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
50.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
50.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
51.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
51.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
52.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
52.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
53.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
53.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
54.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
54.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
55.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
55.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
56.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
56.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
57.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
57.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
58.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
58.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
59.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
59.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
60.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
60.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 25 years

Label: Culvert (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
61.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
62.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
62.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
63.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
63.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
64.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
64.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
65.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
65.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
66.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
66.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
67.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
67.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
68.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
68.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
69.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
69.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
70.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
70.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
71.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
71.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
72.000	1,147.15	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Culvert (IN)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
7.000	1,147.10	1,147.11	1,147.12	1,147.15	1,147.15
7.500	1,147.15	1,147.15	1,147.15	1,147.16	1,147.16
8.000	1,147.17	1,147.17	1,147.18	1,147.19	1,147.20
8.500	1,147.22	1,147.24	1,147.26	1,147.28	1,147.31
9.000	1,147.34	1,147.37	1,147.41	1,147.45	1,147.49
9.500	1,147.54	1,147.60	1,147.63	1,147.67	1,147.72
10.000	1,147.80	1,147.87	1,147.95	1,148.02	1,148.09
10.500	1,148.16	1,148.22	1,148.29	1,148.38	1,148.47
11.000	1,148.57	1,148.67	1,148.77	1,148.91	1,149.04
11.500	1,149.20	1,149.38	1,149.61	1,149.88	1,150.18
12.000	1,150.60	1,151.17	1,151.96	1,152.82	1,153.74
12.500	1,154.85	1,155.53	1,156.09	1,156.52	1,156.79
13.000	1,156.95	1,157.04	1,157.08	1,157.08	1,157.05
13.500	1,157.00	1,156.92	1,156.84	1,156.76	1,156.68
14.000	1,156.60	1,156.49	1,156.38	1,156.27	1,156.15
14.500	1,155.98	1,155.79	1,155.56	1,155.29	1,154.99
15.000	1,154.61	1,154.14	1,153.38	1,152.63	1,152.08
15.500	1,151.67	1,151.40	1,151.20	1,151.03	1,150.85
16.000	1,150.71	1,150.59	1,150.47	1,150.36	1,150.25
16.500	1,150.15	1,150.07	1,149.98	1,149.90	1,149.83
17.000	1,149.77	1,149.72	1,149.67	1,149.63	1,149.59
17.500	1,149.56	1,149.53	1,149.50	1,149.47	1,149.44
18.000	1,149.42	1,149.40	1,149.38	1,149.36	1,149.34
18.500	1,149.32	1,149.30	1,149.29	1,149.27	1,149.25
19.000	1,149.23	1,149.22	1,149.20	1,149.18	1,149.17
19.500	1,149.15	1,149.13	1,149.12	1,149.10	1,149.08

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Culvert (IN)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,149.06	1,149.05	1,149.03	1,149.01	1,148.99
20.500	1,148.97	1,148.95	1,148.93	1,148.91	1,148.89
21.000	1,148.87	1,148.86	1,148.84	1,148.82	1,148.81
21.500	1,148.79	1,148.77	1,148.75	1,148.73	1,148.72
22.000	1,148.70	1,148.68	1,148.66	1,148.64	1,148.62
22.500	1,148.61	1,148.59	1,148.56	1,148.54	1,148.52
23.000	1,148.50	1,148.47	1,148.45	1,148.43	1,148.41
23.500	1,148.39	1,148.36	1,148.34	1,148.32	1,148.30
24.000	1,148.28	1,148.26	1,148.24	1,148.22	1,148.19
24.500	1,148.16	1,148.14	1,148.10	1,148.06	1,148.01
25.000	1,147.95	1,147.90	1,147.85	1,147.80	1,147.75
25.500	1,147.71	1,147.68	1,147.66	1,147.64	1,147.61
26.000	1,147.58	1,147.55	1,147.51	1,147.48	1,147.45
26.500	1,147.42	1,147.39	1,147.37	1,147.34	1,147.32
27.000	1,147.31	1,147.29	1,147.27	1,147.26	1,147.25
27.500	1,147.24	1,147.23	1,147.22	1,147.21	1,147.20
28.000	1,147.20	1,147.19	1,147.19	1,147.18	1,147.18
28.500	1,147.18	1,147.17	1,147.17	1,147.17	1,147.17
29.000	1,147.16	1,147.16	1,147.16	1,147.16	1,147.16
29.500	1,147.16	1,147.16	1,147.16	1,147.15	1,147.15
30.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
30.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
31.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
31.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
32.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
32.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
33.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
33.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
34.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
34.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
35.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
35.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
36.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
36.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
37.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
37.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
38.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
38.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
39.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
39.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
40.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Culvert (IN)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
41.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
41.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
42.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
42.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
43.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
43.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
44.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
44.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
45.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
45.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
46.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
46.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
47.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
47.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
48.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
48.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
49.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
49.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
50.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
50.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
51.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
51.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
52.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
52.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
53.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
53.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
54.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
54.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
55.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
55.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
56.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
56.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
57.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
57.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
58.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
58.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
59.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
59.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
60.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
60.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 50 years

Label: Culvert (IN)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
61.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
62.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
62.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
63.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
63.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
64.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
64.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
65.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
65.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
66.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
66.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
67.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
67.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
68.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
68.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
69.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
69.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
70.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
70.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
71.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
71.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
72.000	1,147.15	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Culvert (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
0.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
1.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
2.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
3.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
4.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
5.500	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.000	1,147.10	1,147.10	1,147.10	1,147.10	1,147.10
6.500	1,147.11	1,147.12	1,147.15	1,147.15	1,147.15
7.000	1,147.15	1,147.15	1,147.16	1,147.16	1,147.17
7.500	1,147.17	1,147.18	1,147.20	1,147.21	1,147.23
8.000	1,147.25	1,147.28	1,147.30	1,147.34	1,147.37
8.500	1,147.41	1,147.45	1,147.49	1,147.54	1,147.59
9.000	1,147.62	1,147.65	1,147.68	1,147.72	1,147.78
9.500	1,147.84	1,147.91	1,147.97	1,148.03	1,148.10
10.000	1,148.17	1,148.23	1,148.31	1,148.40	1,148.48
10.500	1,148.57	1,148.65	1,148.73	1,148.81	1,148.90
11.000	1,149.01	1,149.10	1,149.23	1,149.38	1,149.55
11.500	1,149.76	1,149.97	1,150.20	1,150.50	1,150.88
12.000	1,151.34	1,152.01	1,152.83	1,153.77	1,154.95
12.500	1,155.65	1,156.24	1,156.69	1,156.97	1,157.15
13.000	1,157.24	1,157.29	1,157.30	1,157.28	1,157.24
13.500	1,157.19	1,157.12	1,157.04	1,156.95	1,156.86
14.000	1,156.77	1,156.68	1,156.60	1,156.50	1,156.38
14.500	1,156.27	1,156.16	1,155.99	1,155.80	1,155.58
15.000	1,155.33	1,155.05	1,154.70	1,154.29	1,153.64
15.500	1,152.91	1,152.31	1,151.89	1,151.58	1,151.36
16.000	1,151.18	1,151.02	1,150.86	1,150.73	1,150.61
16.500	1,150.50	1,150.40	1,150.31	1,150.23	1,150.15
17.000	1,150.08	1,150.02	1,149.97	1,149.92	1,149.87
17.500	1,149.84	1,149.80	1,149.77	1,149.74	1,149.71
18.000	1,149.69	1,149.66	1,149.64	1,149.62	1,149.60
18.500	1,149.58	1,149.56	1,149.53	1,149.51	1,149.49
19.000	1,149.47	1,149.45	1,149.43	1,149.42	1,149.40
19.500	1,149.38	1,149.36	1,149.34	1,149.32	1,149.30

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Culvert (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,149.28	1,149.26	1,149.24	1,149.23	1,149.21
20.500	1,149.19	1,149.17	1,149.15	1,149.13	1,149.11
21.000	1,149.09	1,149.07	1,149.05	1,149.03	1,149.00
21.500	1,148.98	1,148.95	1,148.93	1,148.91	1,148.89
22.000	1,148.87	1,148.85	1,148.83	1,148.81	1,148.79
22.500	1,148.76	1,148.74	1,148.72	1,148.70	1,148.68
23.000	1,148.66	1,148.63	1,148.61	1,148.59	1,148.56
23.500	1,148.54	1,148.51	1,148.49	1,148.46	1,148.43
24.000	1,148.41	1,148.38	1,148.35	1,148.32	1,148.29
24.500	1,148.26	1,148.23	1,148.20	1,148.16	1,148.12
25.000	1,148.07	1,148.01	1,147.93	1,147.88	1,147.82
25.500	1,147.77	1,147.72	1,147.69	1,147.66	1,147.64
26.000	1,147.62	1,147.59	1,147.55	1,147.52	1,147.48
26.500	1,147.45	1,147.42	1,147.39	1,147.37	1,147.35
27.000	1,147.33	1,147.31	1,147.29	1,147.28	1,147.26
27.500	1,147.25	1,147.24	1,147.23	1,147.22	1,147.21
28.000	1,147.20	1,147.20	1,147.19	1,147.19	1,147.18
28.500	1,147.18	1,147.18	1,147.17	1,147.17	1,147.17
29.000	1,147.16	1,147.16	1,147.16	1,147.16	1,147.16
29.500	1,147.16	1,147.16	1,147.16	1,147.16	1,147.15
30.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
30.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
31.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
31.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
32.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
32.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
33.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
33.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
34.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
34.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
35.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
35.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
36.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
36.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
37.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
37.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
38.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
38.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
39.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
39.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
40.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Culvert (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
41.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
41.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
42.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
42.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
43.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
43.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
44.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
44.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
45.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
45.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
46.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
46.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
47.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
47.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
48.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
48.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
49.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
49.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
50.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
50.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
51.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
51.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
52.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
52.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
53.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
53.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
54.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
54.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
55.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
55.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
56.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
56.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
57.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
57.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
58.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
58.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
59.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
59.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
60.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
60.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 100 years

Label: Culvert (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
61.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
62.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
62.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
63.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
63.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
64.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
64.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
65.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
65.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
66.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
66.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
67.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
67.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
68.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
68.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
69.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
69.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
70.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
70.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
71.000	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
71.500	1,147.15	1,147.15	1,147.15	1,147.15	1,147.15
72.000	1,147.15	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 10 years

Label: WINN C WETLAND (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
0.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
9.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
9.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.11
10.000	1,154.11	1,154.11	1,154.11	1,154.12	1,154.12
10.500	1,154.13	1,154.14	1,154.14	1,154.15	1,154.16
11.000	1,154.17	1,154.18	1,154.20	1,154.22	1,154.23
11.500	1,154.26	1,154.28	1,154.31	1,154.34	1,154.38
12.000	1,154.43	1,154.50	1,154.59	1,154.71	1,154.85
12.500	1,155.00	1,155.14	1,155.28	1,155.39	1,155.53
13.000	1,155.69	1,155.84	1,155.97	1,156.07	1,156.13
13.500	1,156.15	1,156.13	1,156.08	1,156.00	1,155.88
14.000	1,155.75	1,155.60	1,155.44	1,155.28	1,155.13
14.500	1,155.02	1,154.93	1,154.87	1,154.82	1,154.78
15.000	1,154.74	1,154.71	1,154.69	1,154.67	1,154.64
15.500	1,154.63	1,154.61	1,154.59	1,154.57	1,154.56
16.000	1,154.54	1,154.53	1,154.51	1,154.50	1,154.49
16.500	1,154.48	1,154.47	1,154.46	1,154.45	1,154.44
17.000	1,154.43	1,154.43	1,154.42	1,154.42	1,154.41
17.500	1,154.41	1,154.40	1,154.40	1,154.40	1,154.39
18.000	1,154.39	1,154.39	1,154.39	1,154.38	1,154.38
18.500	1,154.38	1,154.38	1,154.37	1,154.37	1,154.37
19.000	1,154.37	1,154.36	1,154.36	1,154.36	1,154.36
19.500	1,154.35	1,154.35	1,154.35	1,154.35	1,154.35

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 10 years

Label: WINN C WETLAND (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,154.34	1,154.34	1,154.34	1,154.34	1,154.34
20.500	1,154.33	1,154.33	1,154.33	1,154.33	1,154.32
21.000	1,154.32	1,154.32	1,154.32	1,154.32	1,154.31
21.500	1,154.31	1,154.31	1,154.31	1,154.30	1,154.30
22.000	1,154.30	1,154.30	1,154.30	1,154.29	1,154.29
22.500	1,154.29	1,154.29	1,154.28	1,154.28	1,154.28
23.000	1,154.27	1,154.27	1,154.27	1,154.27	1,154.26
23.500	1,154.26	1,154.26	1,154.25	1,154.25	1,154.25
24.000	1,154.25	1,154.24	1,154.24	1,154.24	1,154.23
24.500	1,154.23	1,154.22	1,154.22	1,154.22	1,154.21
25.000	1,154.21	1,154.20	1,154.19	1,154.19	1,154.18
25.500	1,154.18	1,154.17	1,154.17	1,154.16	1,154.15
26.000	1,154.15	1,154.14	1,154.14	1,154.14	1,154.13
26.500	1,154.13	1,154.13	1,154.12	1,154.12	1,154.12
27.000	1,154.12	1,154.12	1,154.11	1,154.11	1,154.11
27.500	1,154.11	1,154.11	1,154.11	1,154.11	1,154.11
28.000	1,154.11	1,154.10	1,154.10	1,154.10	1,154.10
28.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
40.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 10 years

Label: WINN C WETLAND (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 10 years

Label: WINN C WETLAND (IN)

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
61.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
72.000	1,154.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 25 years

Label: WINN C WETLAND (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
0.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
9.000	1,154.11	1,154.11	1,154.11	1,154.11	1,154.12
9.500	1,154.12	1,154.13	1,154.13	1,154.14	1,154.14
10.000	1,154.15	1,154.16	1,154.17	1,154.18	1,154.19
10.500	1,154.21	1,154.22	1,154.23	1,154.24	1,154.26
11.000	1,154.27	1,154.29	1,154.31	1,154.33	1,154.35
11.500	1,154.38	1,154.40	1,154.44	1,154.48	1,154.53
12.000	1,154.59	1,154.68	1,154.80	1,154.94	1,155.10
12.500	1,155.27	1,155.45	1,155.71	1,156.02	1,156.34
13.000	1,156.62	1,156.84	1,156.95	1,156.99	1,156.99
13.500	1,156.95	1,156.88	1,156.81	1,156.73	1,156.63
14.000	1,156.52	1,156.40	1,156.28	1,156.14	1,155.98
14.500	1,155.80	1,155.61	1,155.42	1,155.24	1,155.08
15.000	1,154.97	1,154.89	1,154.84	1,154.80	1,154.76
15.500	1,154.74	1,154.71	1,154.69	1,154.67	1,154.65
16.000	1,154.63	1,154.61	1,154.60	1,154.58	1,154.56
16.500	1,154.55	1,154.54	1,154.53	1,154.52	1,154.51
17.000	1,154.50	1,154.49	1,154.48	1,154.48	1,154.47
17.500	1,154.47	1,154.46	1,154.46	1,154.45	1,154.45
18.000	1,154.45	1,154.44	1,154.44	1,154.44	1,154.43
18.500	1,154.43	1,154.43	1,154.43	1,154.42	1,154.42
19.000	1,154.42	1,154.42	1,154.41	1,154.41	1,154.41
19.500	1,154.41	1,154.40	1,154.40	1,154.40	1,154.40

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 25 years

Label: WINN C WETLAND (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,154.39	1,154.39	1,154.39	1,154.39	1,154.38
20.500	1,154.38	1,154.38	1,154.37	1,154.37	1,154.37
21.000	1,154.37	1,154.36	1,154.36	1,154.36	1,154.35
21.500	1,154.35	1,154.35	1,154.35	1,154.34	1,154.34
22.000	1,154.34	1,154.33	1,154.33	1,154.33	1,154.32
22.500	1,154.32	1,154.32	1,154.32	1,154.31	1,154.31
23.000	1,154.31	1,154.30	1,154.30	1,154.30	1,154.30
23.500	1,154.29	1,154.29	1,154.29	1,154.28	1,154.28
24.000	1,154.27	1,154.27	1,154.27	1,154.26	1,154.26
24.500	1,154.25	1,154.25	1,154.24	1,154.24	1,154.23
25.000	1,154.22	1,154.22	1,154.21	1,154.20	1,154.20
25.500	1,154.19	1,154.18	1,154.18	1,154.17	1,154.17
26.000	1,154.16	1,154.15	1,154.15	1,154.14	1,154.14
26.500	1,154.14	1,154.13	1,154.13	1,154.13	1,154.12
27.000	1,154.12	1,154.12	1,154.12	1,154.11	1,154.11
27.500	1,154.11	1,154.11	1,154.11	1,154.11	1,154.11
28.000	1,154.11	1,154.11	1,154.10	1,154.10	1,154.10
28.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
40.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 25 years

Label: WINN C WETLAND (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 25 years

Label: WINN C WETLAND (IN)

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
61.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
72.000	1,154.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 50 years

Label: WINN C WETLAND (IN)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
0.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
8.000	1,154.10	1,154.10	1,154.10	1,154.11	1,154.11
8.500	1,154.11	1,154.11	1,154.12	1,154.12	1,154.13
9.000	1,154.13	1,154.14	1,154.14	1,154.15	1,154.15
9.500	1,154.16	1,154.17	1,154.18	1,154.19	1,154.20
10.000	1,154.22	1,154.23	1,154.24	1,154.25	1,154.27
10.500	1,154.28	1,154.29	1,154.30	1,154.32	1,154.33
11.000	1,154.35	1,154.37	1,154.39	1,154.41	1,154.44
11.500	1,154.47	1,154.50	1,154.54	1,154.59	1,154.64
12.000	1,154.72	1,154.83	1,154.96	1,155.12	1,155.30
12.500	1,155.52	1,155.85	1,156.26	1,156.67	1,157.00
13.000	1,157.19	1,157.31	1,157.36	1,157.36	1,157.32
13.500	1,157.26	1,157.17	1,157.07	1,156.97	1,156.87
14.000	1,156.77	1,156.67	1,156.56	1,156.44	1,156.32
14.500	1,156.19	1,156.03	1,155.85	1,155.67	1,155.48
15.000	1,155.30	1,155.14	1,155.02	1,154.94	1,154.88
15.500	1,154.83	1,154.80	1,154.77	1,154.74	1,154.72
16.000	1,154.70	1,154.68	1,154.66	1,154.64	1,154.62
16.500	1,154.61	1,154.59	1,154.58	1,154.57	1,154.56
17.000	1,154.55	1,154.54	1,154.53	1,154.52	1,154.52
17.500	1,154.51	1,154.51	1,154.50	1,154.50	1,154.50
18.000	1,154.49	1,154.49	1,154.48	1,154.48	1,154.48
18.500	1,154.47	1,154.47	1,154.47	1,154.46	1,154.46
19.000	1,154.46	1,154.46	1,154.45	1,154.45	1,154.45
19.500	1,154.44	1,154.44	1,154.44	1,154.43	1,154.43

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 50 years

Label: WINN C WETLAND (IN)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,154.43	1,154.43	1,154.42	1,154.42	1,154.42
20.500	1,154.41	1,154.41	1,154.41	1,154.41	1,154.40
21.000	1,154.40	1,154.40	1,154.39	1,154.39	1,154.39
21.500	1,154.38	1,154.38	1,154.38	1,154.37	1,154.37
22.000	1,154.37	1,154.36	1,154.36	1,154.36	1,154.35
22.500	1,154.35	1,154.35	1,154.34	1,154.34	1,154.34
23.000	1,154.33	1,154.33	1,154.33	1,154.32	1,154.32
23.500	1,154.31	1,154.31	1,154.31	1,154.30	1,154.30
24.000	1,154.30	1,154.29	1,154.29	1,154.28	1,154.28
24.500	1,154.27	1,154.27	1,154.26	1,154.25	1,154.25
25.000	1,154.24	1,154.23	1,154.22	1,154.21	1,154.21
25.500	1,154.20	1,154.19	1,154.19	1,154.18	1,154.17
26.000	1,154.17	1,154.16	1,154.16	1,154.15	1,154.15
26.500	1,154.14	1,154.14	1,154.13	1,154.13	1,154.13
27.000	1,154.12	1,154.12	1,154.12	1,154.12	1,154.12
27.500	1,154.11	1,154.11	1,154.11	1,154.11	1,154.11
28.000	1,154.11	1,154.11	1,154.11	1,154.10	1,154.10
28.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
40.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 50 years

Label: WINN C WETLAND (IN)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 50 years

Label: WINN C WETLAND (IN)

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
61.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
72.000	1,154.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 100 years

Label: WINN C WETLAND (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
0.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
0.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
1.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
2.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
3.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
4.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
5.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
6.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
7.500	1,154.10	1,154.11	1,154.11	1,154.11	1,154.11
8.000	1,154.12	1,154.12	1,154.12	1,154.13	1,154.13
8.500	1,154.14	1,154.15	1,154.15	1,154.16	1,154.17
9.000	1,154.18	1,154.18	1,154.19	1,154.20	1,154.21
9.500	1,154.22	1,154.23	1,154.24	1,154.25	1,154.27
10.000	1,154.28	1,154.29	1,154.31	1,154.32	1,154.34
10.500	1,154.35	1,154.36	1,154.38	1,154.39	1,154.41
11.000	1,154.43	1,154.45	1,154.47	1,154.50	1,154.53
11.500	1,154.56	1,154.60	1,154.65	1,154.70	1,154.77
12.000	1,154.85	1,154.97	1,155.12	1,155.30	1,155.53
12.500	1,155.91	1,156.39	1,156.86	1,157.21	1,157.45
13.000	1,157.59	1,157.66	1,157.67	1,157.65	1,157.59
13.500	1,157.51	1,157.42	1,157.32	1,157.20	1,157.09
14.000	1,156.98	1,156.87	1,156.78	1,156.67	1,156.56
14.500	1,156.44	1,156.32	1,156.19	1,156.04	1,155.87
15.000	1,155.69	1,155.52	1,155.35	1,155.19	1,155.06
15.500	1,154.97	1,154.91	1,154.86	1,154.83	1,154.80
16.000	1,154.77	1,154.74	1,154.72	1,154.70	1,154.68
16.500	1,154.67	1,154.65	1,154.63	1,154.62	1,154.61
17.000	1,154.60	1,154.59	1,154.58	1,154.57	1,154.57
17.500	1,154.56	1,154.55	1,154.55	1,154.54	1,154.54
18.000	1,154.54	1,154.53	1,154.53	1,154.52	1,154.52
18.500	1,154.52	1,154.51	1,154.51	1,154.51	1,154.50
19.000	1,154.50	1,154.50	1,154.49	1,154.49	1,154.49
19.500	1,154.48	1,154.48	1,154.48	1,154.47	1,154.47

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 100 years

Label: WINN C WETLAND (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
20.000	1,154.47	1,154.46	1,154.46	1,154.46	1,154.45
20.500	1,154.45	1,154.45	1,154.44	1,154.44	1,154.44
21.000	1,154.43	1,154.43	1,154.43	1,154.42	1,154.42
21.500	1,154.42	1,154.41	1,154.41	1,154.41	1,154.40
22.000	1,154.40	1,154.40	1,154.39	1,154.39	1,154.38
22.500	1,154.38	1,154.38	1,154.37	1,154.37	1,154.36
23.000	1,154.36	1,154.36	1,154.35	1,154.35	1,154.34
23.500	1,154.34	1,154.33	1,154.33	1,154.33	1,154.32
24.000	1,154.32	1,154.31	1,154.31	1,154.30	1,154.30
24.500	1,154.29	1,154.29	1,154.28	1,154.27	1,154.26
25.000	1,154.25	1,154.24	1,154.24	1,154.23	1,154.22
25.500	1,154.21	1,154.20	1,154.19	1,154.19	1,154.18
26.000	1,154.17	1,154.17	1,154.16	1,154.16	1,154.15
26.500	1,154.15	1,154.14	1,154.14	1,154.13	1,154.13
27.000	1,154.13	1,154.12	1,154.12	1,154.12	1,154.12
27.500	1,154.12	1,154.11	1,154.11	1,154.11	1,154.11
28.000	1,154.11	1,154.11	1,154.11	1,154.11	1,154.10
28.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
29.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
30.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
31.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
32.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
33.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
34.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
35.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
36.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
37.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
38.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
39.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
40.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 100 years

Label: WINN C WETLAND (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
40.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
41.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
42.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
43.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
44.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
45.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
46.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
47.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
48.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
49.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
50.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
51.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
52.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
53.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
54.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
55.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
56.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
57.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
58.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
59.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
60.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Elevation

Return Event: 100 years

Label: WINN C WETLAND (IN)

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Elevation (ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)	Elevation (ft)
61.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
61.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
62.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
63.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
64.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
65.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
66.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
67.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
68.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
69.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
70.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.000	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
71.500	1,154.10	1,154.10	1,154.10	1,154.10	1,154.10
72.000	1,154.10	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000	0.000	0.000
10.500	0.000	0.000	0.000	0.000	0.000
11.000	0.001	0.001	0.001	0.001	0.001
11.500	0.002	0.005	0.009	0.014	0.021
12.000	0.030	0.060	0.108	0.182	0.280
12.500	0.406	0.561	0.743	0.989	1.201
13.000	1.329	1.437	1.520	1.576	1.609
13.500	1.619	1.610	1.582	1.537	1.471
14.000	1.390	1.293	1.180	1.061	0.903
14.500	0.688	0.515	0.400	0.328	0.279
15.000	0.242	0.214	0.193	0.176	0.161
15.500	0.146	0.133	0.120	0.109	0.101
16.000	0.093	0.085	0.079	0.072	0.065
16.500	0.060	0.054	0.050	0.045	0.041
17.000	0.037	0.034	0.031	0.028	0.027
17.500	0.026	0.026	0.025	0.025	0.024
18.000	0.024	0.023	0.023	0.023	0.022
18.500	0.022	0.021	0.021	0.021	0.020
19.000	0.020	0.020	0.019	0.019	0.019
19.500	0.018	0.018	0.018	0.017	0.017

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.017	0.016	0.016	0.016	0.015
20.500	0.015	0.014	0.014	0.014	0.013
21.000	0.013	0.012	0.012	0.012	0.011
21.500	0.011	0.011	0.010	0.010	0.009
22.000	0.009	0.009	0.008	0.008	0.008
22.500	0.007	0.007	0.007	0.006	0.006
23.000	0.005	0.005	0.005	0.004	0.004
23.500	0.003	0.003	0.002	0.002	0.001
24.000	0.001	0.001	0.001	0.001	0.001
24.500	0.001	0.001	0.001	0.001	0.001
25.000	0.001	0.001	0.001	0.001	0.001
25.500	0.001	0.001	0.001	0.000	0.000
26.000	0.000	0.000	0.000	0.000	0.000
26.500	0.000	0.000	0.000	0.000	0.000
27.000	0.000	0.000	0.000	0.000	0.000
27.500	0.000	0.000	0.000	0.000	0.000
28.000	0.000	0.000	0.000	0.000	0.000
28.500	0.000	0.000	0.000	0.000	0.000
29.000	0.000	0.000	0.000	0.000	0.000
29.500	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
30.500	0.000	0.000	0.000	0.000	0.000
31.000	0.000	0.000	0.000	0.000	0.000
31.500	0.000	0.000	0.000	0.000	0.000
32.000	0.000	0.000	0.000	0.000	0.000
32.500	0.000	0.000	0.000	0.000	0.000
33.000	0.000	0.000	0.000	0.000	0.000
33.500	0.000	0.000	0.000	0.000	0.000
34.000	0.000	0.000	0.000	0.000	0.000
34.500	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
35.500	0.000	0.000	0.000	0.000	0.000
36.000	0.000	0.000	0.000	0.000	0.000
36.500	0.000	0.000	0.000	0.000	0.000
37.000	0.000	0.000	0.000	0.000	0.000
37.500	0.000	0.000	0.000	0.000	0.000
38.000	0.000	0.000	0.000	0.000	0.000
38.500	0.000	0.000	0.000	0.000	0.000
39.000	0.000	0.000	0.000	0.000	0.000
39.500	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	0.000	0.000	0.000	0.000	0.000
41.000	0.000	0.000	0.000	0.000	0.000
41.500	0.000	0.000	0.000	0.000	0.000
42.000	0.000	0.000	0.000	0.000	0.000
42.500	0.000	0.000	0.000	0.000	0.000
43.000	0.000	0.000	0.000	0.000	0.000
43.500	0.000	0.000	0.000	0.000	0.000
44.000	0.000	0.000	0.000	0.000	0.000
44.500	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.000	0.000	0.000
45.500	0.000	0.000	0.000	0.000	0.000
46.000	0.000	0.000	0.000	0.000	0.000
46.500	0.000	0.000	0.000	0.000	0.000
47.000	0.000	0.000	0.000	0.000	0.000
47.500	0.000	0.000	0.000	0.000	0.000
48.000	0.000	0.000	0.000	0.000	0.000
48.500	0.000	0.000	0.000	0.000	0.000
49.000	0.000	0.000	0.000	0.000	0.000
49.500	0.000	0.000	0.000	0.000	0.000
50.000	0.000	0.000	0.000	0.000	0.000
50.500	0.000	0.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000	0.000	0.000
51.500	0.000	0.000	0.000	0.000	0.000
52.000	0.000	0.000	0.000	0.000	0.000
52.500	0.000	0.000	0.000	0.000	0.000
53.000	0.000	0.000	0.000	0.000	0.000
53.500	0.000	0.000	0.000	0.000	0.000
54.000	0.000	0.000	0.000	0.000	0.000
54.500	0.000	0.000	0.000	0.000	0.000
55.000	0.000	0.000	0.000	0.000	0.000
55.500	0.000	0.000	0.000	0.000	0.000
56.000	0.000	0.000	0.000	0.000	0.000
56.500	0.000	0.000	0.000	0.000	0.000
57.000	0.000	0.000	0.000	0.000	0.000
57.500	0.000	0.000	0.000	0.000	0.000
58.000	0.000	0.000	0.000	0.000	0.000
58.500	0.000	0.000	0.000	0.000	0.000
59.000	0.000	0.000	0.000	0.000	0.000
59.500	0.000	0.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000	0.000	0.000
60.500	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	0.000	0.000	0.000	0.000	0.000
61.500	0.000	0.000	0.000	0.000	0.000
62.000	0.000	0.000	0.000	0.000	0.000
62.500	0.000	0.000	0.000	0.000	0.000
63.000	0.000	0.000	0.000	0.000	0.000
63.500	0.000	0.000	0.000	0.000	0.000
64.000	0.000	0.000	0.000	0.000	0.000
64.500	0.000	0.000	0.000	0.000	0.000
65.000	0.000	0.000	0.000	0.000	0.000
65.500	0.000	0.000	0.000	0.000	0.000
66.000	0.000	0.000	0.000	0.000	0.000
66.500	0.000	0.000	0.000	0.000	0.000
67.000	0.000	0.000	0.000	0.000	0.000
67.500	0.000	0.000	0.000	0.000	0.000
68.000	0.000	0.000	0.000	0.000	0.000
68.500	0.000	0.000	0.000	0.000	0.000
69.000	0.000	0.000	0.000	0.000	0.000
69.500	0.000	0.000	0.000	0.000	0.000
70.000	0.000	0.000	0.000	0.000	0.000
70.500	0.000	0.000	0.000	0.000	0.000
71.000	0.000	0.000	0.000	0.000	0.000
71.500	0.000	0.000	0.000	0.000	0.000
72.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.001	0.001	0.001
10.500	0.001	0.001	0.001	0.001	0.002
11.000	0.004	0.006	0.009	0.012	0.016
11.500	0.020	0.025	0.032	0.049	0.072
12.000	0.104	0.157	0.243	0.371	0.538
12.500	0.744	1.062	1.334	1.551	1.738
13.000	1.884	1.983	2.030	2.049	2.045
13.500	2.027	2.002	1.970	1.930	1.880
14.000	1.823	1.763	1.692	1.612	1.528
14.500	1.421	1.301	1.167	1.027	0.835
15.000	0.609	0.454	0.357	0.301	0.262
15.500	0.232	0.210	0.193	0.177	0.163
16.000	0.149	0.136	0.123	0.112	0.103
16.500	0.096	0.090	0.084	0.078	0.073
17.000	0.068	0.065	0.061	0.058	0.055
17.500	0.053	0.050	0.048	0.046	0.044
18.000	0.043	0.041	0.040	0.038	0.037
18.500	0.035	0.034	0.032	0.031	0.029
19.000	0.028	0.028	0.027	0.027	0.027
19.500	0.026	0.026	0.025	0.025	0.024

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.024	0.024	0.023	0.023	0.022
20.500	0.022	0.022	0.021	0.021	0.020
21.000	0.020	0.020	0.019	0.019	0.018
21.500	0.018	0.017	0.017	0.016	0.016
22.000	0.015	0.015	0.014	0.014	0.013
22.500	0.013	0.012	0.012	0.011	0.011
23.000	0.010	0.010	0.009	0.009	0.008
23.500	0.008	0.007	0.007	0.007	0.006
24.000	0.006	0.005	0.005	0.004	0.003
24.500	0.003	0.002	0.001	0.001	0.001
25.000	0.001	0.001	0.001	0.001	0.001
25.500	0.001	0.001	0.001	0.001	0.001
26.000	0.000	0.000	0.000	0.000	0.000
26.500	0.000	0.000	0.000	0.000	0.000
27.000	0.000	0.000	0.000	0.000	0.000
27.500	0.000	0.000	0.000	0.000	0.000
28.000	0.000	0.000	0.000	0.000	0.000
28.500	0.000	0.000	0.000	0.000	0.000
29.000	0.000	0.000	0.000	0.000	0.000
29.500	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
30.500	0.000	0.000	0.000	0.000	0.000
31.000	0.000	0.000	0.000	0.000	0.000
31.500	0.000	0.000	0.000	0.000	0.000
32.000	0.000	0.000	0.000	0.000	0.000
32.500	0.000	0.000	0.000	0.000	0.000
33.000	0.000	0.000	0.000	0.000	0.000
33.500	0.000	0.000	0.000	0.000	0.000
34.000	0.000	0.000	0.000	0.000	0.000
34.500	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
35.500	0.000	0.000	0.000	0.000	0.000
36.000	0.000	0.000	0.000	0.000	0.000
36.500	0.000	0.000	0.000	0.000	0.000
37.000	0.000	0.000	0.000	0.000	0.000
37.500	0.000	0.000	0.000	0.000	0.000
38.000	0.000	0.000	0.000	0.000	0.000
38.500	0.000	0.000	0.000	0.000	0.000
39.000	0.000	0.000	0.000	0.000	0.000
39.500	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	0.000	0.000	0.000	0.000	0.000
41.000	0.000	0.000	0.000	0.000	0.000
41.500	0.000	0.000	0.000	0.000	0.000
42.000	0.000	0.000	0.000	0.000	0.000
42.500	0.000	0.000	0.000	0.000	0.000
43.000	0.000	0.000	0.000	0.000	0.000
43.500	0.000	0.000	0.000	0.000	0.000
44.000	0.000	0.000	0.000	0.000	0.000
44.500	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.000	0.000	0.000
45.500	0.000	0.000	0.000	0.000	0.000
46.000	0.000	0.000	0.000	0.000	0.000
46.500	0.000	0.000	0.000	0.000	0.000
47.000	0.000	0.000	0.000	0.000	0.000
47.500	0.000	0.000	0.000	0.000	0.000
48.000	0.000	0.000	0.000	0.000	0.000
48.500	0.000	0.000	0.000	0.000	0.000
49.000	0.000	0.000	0.000	0.000	0.000
49.500	0.000	0.000	0.000	0.000	0.000
50.000	0.000	0.000	0.000	0.000	0.000
50.500	0.000	0.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000	0.000	0.000
51.500	0.000	0.000	0.000	0.000	0.000
52.000	0.000	0.000	0.000	0.000	0.000
52.500	0.000	0.000	0.000	0.000	0.000
53.000	0.000	0.000	0.000	0.000	0.000
53.500	0.000	0.000	0.000	0.000	0.000
54.000	0.000	0.000	0.000	0.000	0.000
54.500	0.000	0.000	0.000	0.000	0.000
55.000	0.000	0.000	0.000	0.000	0.000
55.500	0.000	0.000	0.000	0.000	0.000
56.000	0.000	0.000	0.000	0.000	0.000
56.500	0.000	0.000	0.000	0.000	0.000
57.000	0.000	0.000	0.000	0.000	0.000
57.500	0.000	0.000	0.000	0.000	0.000
58.000	0.000	0.000	0.000	0.000	0.000
58.500	0.000	0.000	0.000	0.000	0.000
59.000	0.000	0.000	0.000	0.000	0.000
59.500	0.000	0.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000	0.000	0.000
60.500	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	0.000	0.000	0.000	0.000	0.000
61.500	0.000	0.000	0.000	0.000	0.000
62.000	0.000	0.000	0.000	0.000	0.000
62.500	0.000	0.000	0.000	0.000	0.000
63.000	0.000	0.000	0.000	0.000	0.000
63.500	0.000	0.000	0.000	0.000	0.000
64.000	0.000	0.000	0.000	0.000	0.000
64.500	0.000	0.000	0.000	0.000	0.000
65.000	0.000	0.000	0.000	0.000	0.000
65.500	0.000	0.000	0.000	0.000	0.000
66.000	0.000	0.000	0.000	0.000	0.000
66.500	0.000	0.000	0.000	0.000	0.000
67.000	0.000	0.000	0.000	0.000	0.000
67.500	0.000	0.000	0.000	0.000	0.000
68.000	0.000	0.000	0.000	0.000	0.000
68.500	0.000	0.000	0.000	0.000	0.000
69.000	0.000	0.000	0.000	0.000	0.000
69.500	0.000	0.000	0.000	0.000	0.000
70.000	0.000	0.000	0.000	0.000	0.000
70.500	0.000	0.000	0.000	0.000	0.000
71.000	0.000	0.000	0.000	0.000	0.000
71.500	0.000	0.000	0.000	0.000	0.000
72.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.000
9.000	0.000	0.000	0.000	0.000	0.000
9.500	0.000	0.001	0.001	0.001	0.001
10.000	0.001	0.001	0.001	0.001	0.003
10.500	0.005	0.007	0.009	0.011	0.014
11.000	0.017	0.019	0.022	0.026	0.032
11.500	0.045	0.061	0.080	0.102	0.134
12.000	0.185	0.262	0.387	0.565	0.802
12.500	1.166	1.444	1.691	1.912	2.052
13.000	2.133	2.184	2.210	2.211	2.192
13.500	2.159	2.121	2.079	2.037	1.994
14.000	1.952	1.898	1.842	1.784	1.722
14.500	1.636	1.554	1.456	1.343	1.215
15.000	1.085	0.923	0.705	0.525	0.411
15.500	0.341	0.298	0.265	0.238	0.216
16.000	0.199	0.184	0.169	0.156	0.143
16.500	0.131	0.121	0.111	0.104	0.099
17.000	0.094	0.089	0.085	0.082	0.079
17.500	0.076	0.073	0.070	0.068	0.066
18.000	0.064	0.062	0.061	0.059	0.057
18.500	0.056	0.054	0.053	0.051	0.050
19.000	0.048	0.047	0.045	0.044	0.043
19.500	0.041	0.040	0.038	0.037	0.036

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.034	0.032	0.031	0.029	0.028
20.500	0.028	0.027	0.027	0.026	0.026
21.000	0.025	0.025	0.024	0.024	0.023
21.500	0.023	0.022	0.022	0.021	0.021
22.000	0.020	0.020	0.019	0.019	0.018
22.500	0.018	0.017	0.017	0.016	0.015
23.000	0.015	0.014	0.013	0.013	0.012
23.500	0.012	0.011	0.010	0.010	0.009
24.000	0.009	0.008	0.008	0.007	0.006
24.500	0.006	0.005	0.004	0.003	0.001
25.000	0.001	0.001	0.001	0.001	0.001
25.500	0.001	0.001	0.001	0.001	0.001
26.000	0.001	0.000	0.000	0.000	0.000
26.500	0.000	0.000	0.000	0.000	0.000
27.000	0.000	0.000	0.000	0.000	0.000
27.500	0.000	0.000	0.000	0.000	0.000
28.000	0.000	0.000	0.000	0.000	0.000
28.500	0.000	0.000	0.000	0.000	0.000
29.000	0.000	0.000	0.000	0.000	0.000
29.500	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
30.500	0.000	0.000	0.000	0.000	0.000
31.000	0.000	0.000	0.000	0.000	0.000
31.500	0.000	0.000	0.000	0.000	0.000
32.000	0.000	0.000	0.000	0.000	0.000
32.500	0.000	0.000	0.000	0.000	0.000
33.000	0.000	0.000	0.000	0.000	0.000
33.500	0.000	0.000	0.000	0.000	0.000
34.000	0.000	0.000	0.000	0.000	0.000
34.500	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
35.500	0.000	0.000	0.000	0.000	0.000
36.000	0.000	0.000	0.000	0.000	0.000
36.500	0.000	0.000	0.000	0.000	0.000
37.000	0.000	0.000	0.000	0.000	0.000
37.500	0.000	0.000	0.000	0.000	0.000
38.000	0.000	0.000	0.000	0.000	0.000
38.500	0.000	0.000	0.000	0.000	0.000
39.000	0.000	0.000	0.000	0.000	0.000
39.500	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	0.000	0.000	0.000	0.000	0.000
41.000	0.000	0.000	0.000	0.000	0.000
41.500	0.000	0.000	0.000	0.000	0.000
42.000	0.000	0.000	0.000	0.000	0.000
42.500	0.000	0.000	0.000	0.000	0.000
43.000	0.000	0.000	0.000	0.000	0.000
43.500	0.000	0.000	0.000	0.000	0.000
44.000	0.000	0.000	0.000	0.000	0.000
44.500	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.000	0.000	0.000
45.500	0.000	0.000	0.000	0.000	0.000
46.000	0.000	0.000	0.000	0.000	0.000
46.500	0.000	0.000	0.000	0.000	0.000
47.000	0.000	0.000	0.000	0.000	0.000
47.500	0.000	0.000	0.000	0.000	0.000
48.000	0.000	0.000	0.000	0.000	0.000
48.500	0.000	0.000	0.000	0.000	0.000
49.000	0.000	0.000	0.000	0.000	0.000
49.500	0.000	0.000	0.000	0.000	0.000
50.000	0.000	0.000	0.000	0.000	0.000
50.500	0.000	0.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000	0.000	0.000
51.500	0.000	0.000	0.000	0.000	0.000
52.000	0.000	0.000	0.000	0.000	0.000
52.500	0.000	0.000	0.000	0.000	0.000
53.000	0.000	0.000	0.000	0.000	0.000
53.500	0.000	0.000	0.000	0.000	0.000
54.000	0.000	0.000	0.000	0.000	0.000
54.500	0.000	0.000	0.000	0.000	0.000
55.000	0.000	0.000	0.000	0.000	0.000
55.500	0.000	0.000	0.000	0.000	0.000
56.000	0.000	0.000	0.000	0.000	0.000
56.500	0.000	0.000	0.000	0.000	0.000
57.000	0.000	0.000	0.000	0.000	0.000
57.500	0.000	0.000	0.000	0.000	0.000
58.000	0.000	0.000	0.000	0.000	0.000
58.500	0.000	0.000	0.000	0.000	0.000
59.000	0.000	0.000	0.000	0.000	0.000
59.500	0.000	0.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000	0.000	0.000
60.500	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	0.000	0.000	0.000	0.000	0.000
61.500	0.000	0.000	0.000	0.000	0.000
62.000	0.000	0.000	0.000	0.000	0.000
62.500	0.000	0.000	0.000	0.000	0.000
63.000	0.000	0.000	0.000	0.000	0.000
63.500	0.000	0.000	0.000	0.000	0.000
64.000	0.000	0.000	0.000	0.000	0.000
64.500	0.000	0.000	0.000	0.000	0.000
65.000	0.000	0.000	0.000	0.000	0.000
65.500	0.000	0.000	0.000	0.000	0.000
66.000	0.000	0.000	0.000	0.000	0.000
66.500	0.000	0.000	0.000	0.000	0.000
67.000	0.000	0.000	0.000	0.000	0.000
67.500	0.000	0.000	0.000	0.000	0.000
68.000	0.000	0.000	0.000	0.000	0.000
68.500	0.000	0.000	0.000	0.000	0.000
69.000	0.000	0.000	0.000	0.000	0.000
69.500	0.000	0.000	0.000	0.000	0.000
70.000	0.000	0.000	0.000	0.000	0.000
70.500	0.000	0.000	0.000	0.000	0.000
71.000	0.000	0.000	0.000	0.000	0.000
71.500	0.000	0.000	0.000	0.000	0.000
72.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	0.000	0.000	0.000	0.000	0.000
0.500	0.000	0.000	0.000	0.000	0.000
1.000	0.000	0.000	0.000	0.000	0.000
1.500	0.000	0.000	0.000	0.000	0.000
2.000	0.000	0.000	0.000	0.000	0.000
2.500	0.000	0.000	0.000	0.000	0.000
3.000	0.000	0.000	0.000	0.000	0.000
3.500	0.000	0.000	0.000	0.000	0.000
4.000	0.000	0.000	0.000	0.000	0.000
4.500	0.000	0.000	0.000	0.000	0.000
5.000	0.000	0.000	0.000	0.000	0.000
5.500	0.000	0.000	0.000	0.000	0.000
6.000	0.000	0.000	0.000	0.000	0.000
6.500	0.000	0.000	0.000	0.000	0.000
7.000	0.000	0.000	0.000	0.000	0.000
7.500	0.000	0.000	0.000	0.000	0.000
8.000	0.000	0.000	0.000	0.000	0.000
8.500	0.000	0.000	0.000	0.000	0.001
9.000	0.001	0.001	0.001	0.001	0.001
9.500	0.001	0.001	0.001	0.002	0.004
10.000	0.006	0.007	0.009	0.012	0.014
10.500	0.017	0.019	0.021	0.023	0.026
11.000	0.029	0.037	0.048	0.060	0.075
11.500	0.092	0.111	0.137	0.173	0.219
12.000	0.288	0.396	0.566	0.813	1.200
12.500	1.494	1.770	1.998	2.143	2.250
13.000	2.308	2.336	2.341	2.330	2.306
13.500	2.274	2.235	2.187	2.136	2.089
14.000	2.043	1.997	1.954	1.900	1.842
14.500	1.785	1.724	1.640	1.560	1.466
15.000	1.358	1.238	1.115	0.972	0.777
15.500	0.584	0.458	0.377	0.327	0.291
16.000	0.262	0.238	0.217	0.201	0.187
16.500	0.174	0.162	0.150	0.140	0.131
17.000	0.123	0.116	0.110	0.106	0.102
17.500	0.099	0.096	0.093	0.091	0.089
18.000	0.087	0.085	0.083	0.081	0.079
18.500	0.077	0.075	0.074	0.072	0.070
19.000	0.068	0.067	0.065	0.064	0.062
19.500	0.060	0.059	0.057	0.056	0.054

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	0.052	0.051	0.049	0.048	0.046
20.500	0.044	0.043	0.041	0.040	0.038
21.000	0.036	0.035	0.033	0.031	0.029
21.500	0.028	0.027	0.027	0.026	0.026
22.000	0.025	0.024	0.024	0.023	0.023
22.500	0.022	0.022	0.021	0.020	0.020
23.000	0.019	0.019	0.018	0.017	0.017
23.500	0.016	0.015	0.014	0.014	0.013
24.000	0.012	0.011	0.011	0.010	0.009
24.500	0.008	0.007	0.006	0.005	0.004
25.000	0.003	0.001	0.001	0.001	0.001
25.500	0.001	0.001	0.001	0.001	0.001
26.000	0.001	0.001	0.000	0.000	0.000
26.500	0.000	0.000	0.000	0.000	0.000
27.000	0.000	0.000	0.000	0.000	0.000
27.500	0.000	0.000	0.000	0.000	0.000
28.000	0.000	0.000	0.000	0.000	0.000
28.500	0.000	0.000	0.000	0.000	0.000
29.000	0.000	0.000	0.000	0.000	0.000
29.500	0.000	0.000	0.000	0.000	0.000
30.000	0.000	0.000	0.000	0.000	0.000
30.500	0.000	0.000	0.000	0.000	0.000
31.000	0.000	0.000	0.000	0.000	0.000
31.500	0.000	0.000	0.000	0.000	0.000
32.000	0.000	0.000	0.000	0.000	0.000
32.500	0.000	0.000	0.000	0.000	0.000
33.000	0.000	0.000	0.000	0.000	0.000
33.500	0.000	0.000	0.000	0.000	0.000
34.000	0.000	0.000	0.000	0.000	0.000
34.500	0.000	0.000	0.000	0.000	0.000
35.000	0.000	0.000	0.000	0.000	0.000
35.500	0.000	0.000	0.000	0.000	0.000
36.000	0.000	0.000	0.000	0.000	0.000
36.500	0.000	0.000	0.000	0.000	0.000
37.000	0.000	0.000	0.000	0.000	0.000
37.500	0.000	0.000	0.000	0.000	0.000
38.000	0.000	0.000	0.000	0.000	0.000
38.500	0.000	0.000	0.000	0.000	0.000
39.000	0.000	0.000	0.000	0.000	0.000
39.500	0.000	0.000	0.000	0.000	0.000
40.000	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	0.000	0.000	0.000	0.000	0.000
41.000	0.000	0.000	0.000	0.000	0.000
41.500	0.000	0.000	0.000	0.000	0.000
42.000	0.000	0.000	0.000	0.000	0.000
42.500	0.000	0.000	0.000	0.000	0.000
43.000	0.000	0.000	0.000	0.000	0.000
43.500	0.000	0.000	0.000	0.000	0.000
44.000	0.000	0.000	0.000	0.000	0.000
44.500	0.000	0.000	0.000	0.000	0.000
45.000	0.000	0.000	0.000	0.000	0.000
45.500	0.000	0.000	0.000	0.000	0.000
46.000	0.000	0.000	0.000	0.000	0.000
46.500	0.000	0.000	0.000	0.000	0.000
47.000	0.000	0.000	0.000	0.000	0.000
47.500	0.000	0.000	0.000	0.000	0.000
48.000	0.000	0.000	0.000	0.000	0.000
48.500	0.000	0.000	0.000	0.000	0.000
49.000	0.000	0.000	0.000	0.000	0.000
49.500	0.000	0.000	0.000	0.000	0.000
50.000	0.000	0.000	0.000	0.000	0.000
50.500	0.000	0.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000	0.000	0.000
51.500	0.000	0.000	0.000	0.000	0.000
52.000	0.000	0.000	0.000	0.000	0.000
52.500	0.000	0.000	0.000	0.000	0.000
53.000	0.000	0.000	0.000	0.000	0.000
53.500	0.000	0.000	0.000	0.000	0.000
54.000	0.000	0.000	0.000	0.000	0.000
54.500	0.000	0.000	0.000	0.000	0.000
55.000	0.000	0.000	0.000	0.000	0.000
55.500	0.000	0.000	0.000	0.000	0.000
56.000	0.000	0.000	0.000	0.000	0.000
56.500	0.000	0.000	0.000	0.000	0.000
57.000	0.000	0.000	0.000	0.000	0.000
57.500	0.000	0.000	0.000	0.000	0.000
58.000	0.000	0.000	0.000	0.000	0.000
58.500	0.000	0.000	0.000	0.000	0.000
59.000	0.000	0.000	0.000	0.000	0.000
59.500	0.000	0.000	0.000	0.000	0.000
60.000	0.000	0.000	0.000	0.000	0.000
60.500	0.000	0.000	0.000	0.000	0.000

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	0.000	0.000	0.000	0.000	0.000
61.500	0.000	0.000	0.000	0.000	0.000
62.000	0.000	0.000	0.000	0.000	0.000
62.500	0.000	0.000	0.000	0.000	0.000
63.000	0.000	0.000	0.000	0.000	0.000
63.500	0.000	0.000	0.000	0.000	0.000
64.000	0.000	0.000	0.000	0.000	0.000
64.500	0.000	0.000	0.000	0.000	0.000
65.000	0.000	0.000	0.000	0.000	0.000
65.500	0.000	0.000	0.000	0.000	0.000
66.000	0.000	0.000	0.000	0.000	0.000
66.500	0.000	0.000	0.000	0.000	0.000
67.000	0.000	0.000	0.000	0.000	0.000
67.500	0.000	0.000	0.000	0.000	0.000
68.000	0.000	0.000	0.000	0.000	0.000
68.500	0.000	0.000	0.000	0.000	0.000
69.000	0.000	0.000	0.000	0.000	0.000
69.500	0.000	0.000	0.000	0.000	0.000
70.000	0.000	0.000	0.000	0.000	0.000
70.500	0.000	0.000	0.000	0.000	0.000
71.000	0.000	0.000	0.000	0.000	0.000
71.500	0.000	0.000	0.000	0.000	0.000
72.000	0.000	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	2.796	2.796	2.796	2.796	2.796
0.500	2.796	2.796	2.796	2.796	2.796
1.000	2.796	2.796	2.796	2.796	2.796
1.500	2.796	2.796	2.796	2.796	2.796
2.000	2.796	2.796	2.796	2.796	2.796
2.500	2.796	2.796	2.796	2.796	2.796
3.000	2.796	2.796	2.796	2.796	2.796
3.500	2.796	2.796	2.796	2.796	2.796
4.000	2.796	2.796	2.796	2.796	2.796
4.500	2.796	2.796	2.796	2.796	2.796
5.000	2.796	2.796	2.796	2.796	2.796
5.500	2.796	2.796	2.796	2.796	2.796
6.000	2.796	2.796	2.796	2.796	2.796
6.500	2.796	2.796	2.796	2.796	2.796
7.000	2.796	2.796	2.796	2.796	2.796
7.500	2.796	2.796	2.796	2.796	2.796
8.000	2.796	2.796	2.796	2.796	2.796
8.500	2.796	2.796	2.796	2.796	2.796
9.000	2.796	2.796	2.796	2.797	2.797
9.500	2.799	2.800	2.803	2.806	2.811
10.000	2.817	2.824	2.833	2.844	2.857
10.500	2.871	2.887	2.906	2.928	2.952
11.000	2.981	3.015	3.054	3.099	3.147
11.500	3.201	3.263	3.335	3.418	3.522
12.000	3.658	3.843	4.087	4.395	4.758
12.500	5.153	5.568	5.965	6.312	6.721
13.000	7.189	7.634	8.023	8.329	8.523
13.500	8.597	8.543	8.376	8.106	7.764
14.000	7.361	6.918	6.452	5.977	5.535
14.500	5.197	4.963	4.795	4.665	4.560
15.000	4.472	4.396	4.331	4.272	4.218
15.500	4.168	4.122	4.078	4.034	3.992
16.000	3.952	3.914	3.878	3.845	3.813
16.500	3.783	3.755	3.729	3.706	3.685
17.000	3.666	3.649	3.634	3.621	3.609
17.500	3.599	3.589	3.581	3.572	3.564
18.000	3.557	3.549	3.542	3.535	3.528
18.500	3.522	3.515	3.509	3.503	3.497
19.000	3.491	3.485	3.479	3.473	3.467
19.500	3.461	3.456	3.450	3.444	3.438

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	3.433	3.427	3.421	3.416	3.410
20.500	3.404	3.399	3.393	3.387	3.382
21.000	3.376	3.370	3.365	3.359	3.353
21.500	3.347	3.342	3.336	3.330	3.325
22.000	3.319	3.313	3.307	3.300	3.293
22.500	3.286	3.279	3.272	3.265	3.257
23.000	3.250	3.243	3.235	3.228	3.220
23.500	3.212	3.205	3.197	3.190	3.182
24.000	3.174	3.167	3.159	3.150	3.141
24.500	3.131	3.120	3.109	3.096	3.083
25.000	3.070	3.057	3.042	3.027	3.012
25.500	2.996	2.981	2.965	2.951	2.937
26.000	2.925	2.913	2.902	2.891	2.882
26.500	2.873	2.865	2.858	2.852	2.846
27.000	2.840	2.835	2.831	2.827	2.824
27.500	2.821	2.818	2.815	2.813	2.811
28.000	2.809	2.808	2.806	2.805	2.804
28.500	2.803	2.802	2.801	2.801	2.800
29.000	2.799	2.799	2.799	2.798	2.798
29.500	2.798	2.797	2.797	2.797	2.797
30.000	2.797	2.797	2.797	2.796	2.796
30.500	2.796	2.796	2.796	2.796	2.796
31.000	2.796	2.796	2.796	2.796	2.796
31.500	2.796	2.796	2.796	2.796	2.796
32.000	2.796	2.796	2.796	2.796	2.796
32.500	2.796	2.796	2.796	2.796	2.796
33.000	2.796	2.796	2.796	2.796	2.796
33.500	2.796	2.796	2.796	2.796	2.796
34.000	2.796	2.796	2.796	2.796	2.796
34.500	2.796	2.796	2.796	2.796	2.796
35.000	2.796	2.796	2.796	2.796	2.796
35.500	2.796	2.796	2.796	2.796	2.796
36.000	2.796	2.796	2.796	2.796	2.796
36.500	2.796	2.796	2.796	2.796	2.796
37.000	2.796	2.796	2.796	2.796	2.796
37.500	2.796	2.796	2.796	2.796	2.796
38.000	2.796	2.796	2.796	2.796	2.796
38.500	2.796	2.796	2.796	2.796	2.796
39.000	2.796	2.796	2.796	2.796	2.796
39.500	2.796	2.796	2.796	2.796	2.796
40.000	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	2.796	2.796	2.796	2.796	2.796
41.000	2.796	2.796	2.796	2.796	2.796
41.500	2.796	2.796	2.796	2.796	2.796
42.000	2.796	2.796	2.796	2.796	2.796
42.500	2.796	2.796	2.796	2.796	2.796
43.000	2.796	2.796	2.796	2.796	2.796
43.500	2.796	2.796	2.796	2.796	2.796
44.000	2.796	2.796	2.796	2.796	2.796
44.500	2.796	2.796	2.796	2.796	2.796
45.000	2.796	2.796	2.796	2.796	2.796
45.500	2.796	2.796	2.796	2.796	2.796
46.000	2.796	2.796	2.796	2.796	2.796
46.500	2.796	2.796	2.796	2.796	2.796
47.000	2.796	2.796	2.796	2.796	2.796
47.500	2.796	2.796	2.796	2.796	2.796
48.000	2.796	2.796	2.796	2.796	2.796
48.500	2.796	2.796	2.796	2.796	2.796
49.000	2.796	2.796	2.796	2.796	2.796
49.500	2.796	2.796	2.796	2.796	2.796
50.000	2.796	2.796	2.796	2.796	2.796
50.500	2.796	2.796	2.796	2.796	2.796
51.000	2.796	2.796	2.796	2.796	2.796
51.500	2.796	2.796	2.796	2.796	2.796
52.000	2.796	2.796	2.796	2.796	2.796
52.500	2.796	2.796	2.796	2.796	2.796
53.000	2.796	2.796	2.796	2.796	2.796
53.500	2.796	2.796	2.796	2.796	2.796
54.000	2.796	2.796	2.796	2.796	2.796
54.500	2.796	2.796	2.796	2.796	2.796
55.000	2.796	2.796	2.796	2.796	2.796
55.500	2.796	2.796	2.796	2.796	2.796
56.000	2.796	2.796	2.796	2.796	2.796
56.500	2.796	2.796	2.796	2.796	2.796
57.000	2.796	2.796	2.796	2.796	2.796
57.500	2.796	2.796	2.796	2.796	2.796
58.000	2.796	2.796	2.796	2.796	2.796
58.500	2.796	2.796	2.796	2.796	2.796
59.000	2.796	2.796	2.796	2.796	2.796
59.500	2.796	2.796	2.796	2.796	2.796
60.000	2.796	2.796	2.796	2.796	2.796
60.500	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	2.796	2.796	2.796	2.796	2.796
61.500	2.796	2.796	2.796	2.796	2.796
62.000	2.796	2.796	2.796	2.796	2.796
62.500	2.796	2.796	2.796	2.796	2.796
63.000	2.796	2.796	2.796	2.796	2.796
63.500	2.796	2.796	2.796	2.796	2.796
64.000	2.796	2.796	2.796	2.796	2.796
64.500	2.796	2.796	2.796	2.796	2.796
65.000	2.796	2.796	2.796	2.796	2.796
65.500	2.796	2.796	2.796	2.796	2.796
66.000	2.796	2.796	2.796	2.796	2.796
66.500	2.796	2.796	2.796	2.796	2.796
67.000	2.796	2.796	2.796	2.796	2.796
67.500	2.796	2.796	2.796	2.796	2.796
68.000	2.796	2.796	2.796	2.796	2.796
68.500	2.796	2.796	2.796	2.796	2.796
69.000	2.796	2.796	2.796	2.796	2.796
69.500	2.796	2.796	2.796	2.796	2.796
70.000	2.796	2.796	2.796	2.796	2.796
70.500	2.796	2.796	2.796	2.796	2.796
71.000	2.796	2.796	2.796	2.796	2.796
71.500	2.796	2.796	2.796	2.796	2.796
72.000	2.796	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	2.796	2.796	2.796	2.796	2.796
0.500	2.796	2.796	2.796	2.796	2.796
1.000	2.796	2.796	2.796	2.796	2.796
1.500	2.796	2.796	2.796	2.796	2.796
2.000	2.796	2.796	2.796	2.796	2.796
2.500	2.796	2.796	2.796	2.796	2.796
3.000	2.796	2.796	2.796	2.796	2.796
3.500	2.796	2.796	2.796	2.796	2.796
4.000	2.796	2.796	2.796	2.796	2.796
4.500	2.796	2.796	2.796	2.796	2.796
5.000	2.796	2.796	2.796	2.796	2.796
5.500	2.796	2.796	2.796	2.796	2.796
6.000	2.796	2.796	2.796	2.796	2.796
6.500	2.796	2.796	2.796	2.796	2.796
7.000	2.796	2.796	2.796	2.796	2.796
7.500	2.796	2.796	2.796	2.796	2.796
8.000	2.796	2.796	2.797	2.797	2.798
8.500	2.798	2.800	2.802	2.804	2.807
9.000	2.811	2.816	2.822	2.830	2.838
9.500	2.849	2.861	2.876	2.893	2.912
10.000	2.933	2.957	2.983	3.012	3.043
10.500	3.075	3.106	3.138	3.170	3.205
11.000	3.242	3.285	3.333	3.387	3.446
11.500	3.514	3.591	3.678	3.779	3.909
12.000	4.080	4.313	4.619	4.998	5.451
12.500	5.959	6.494	7.244	8.176	9.215
13.000	10.142	10.837	11.217	11.357	11.332
13.500	11.201	10.990	10.746	10.479	10.155
14.000	9.797	9.421	9.038	8.577	8.056
14.500	7.507	6.943	6.382	5.843	5.381
15.000	5.066	4.861	4.719	4.613	4.528
15.500	4.456	4.393	4.335	4.280	4.227
16.000	4.178	4.132	4.088	4.047	4.008
16.500	3.972	3.939	3.908	3.881	3.857
17.000	3.835	3.815	3.797	3.781	3.766
17.500	3.753	3.741	3.730	3.719	3.709
18.000	3.700	3.692	3.683	3.676	3.668
18.500	3.661	3.653	3.647	3.640	3.633
19.000	3.626	3.620	3.613	3.607	3.600
19.500	3.594	3.588	3.581	3.575	3.568

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	3.562	3.555	3.547	3.540	3.533
20.500	3.526	3.518	3.511	3.503	3.496
21.000	3.488	3.481	3.474	3.466	3.459
21.500	3.451	3.444	3.436	3.429	3.421
22.000	3.413	3.406	3.398	3.391	3.383
22.500	3.376	3.368	3.360	3.353	3.345
23.000	3.338	3.330	3.322	3.315	3.307
23.500	3.298	3.289	3.280	3.271	3.262
24.000	3.252	3.242	3.232	3.221	3.209
24.500	3.196	3.182	3.167	3.151	3.134
25.000	3.117	3.100	3.082	3.065	3.049
25.500	3.032	3.015	2.998	2.981	2.966
26.000	2.951	2.937	2.924	2.912	2.900
26.500	2.890	2.881	2.872	2.864	2.857
27.000	2.850	2.845	2.839	2.835	2.830
27.500	2.826	2.823	2.820	2.817	2.815
28.000	2.812	2.810	2.809	2.807	2.806
28.500	2.805	2.803	2.803	2.802	2.801
29.000	2.800	2.800	2.799	2.799	2.798
29.500	2.798	2.798	2.798	2.797	2.797
30.000	2.797	2.797	2.797	2.797	2.796
30.500	2.796	2.796	2.796	2.796	2.796
31.000	2.796	2.796	2.796	2.796	2.796
31.500	2.796	2.796	2.796	2.796	2.796
32.000	2.796	2.796	2.796	2.796	2.796
32.500	2.796	2.796	2.796	2.796	2.796
33.000	2.796	2.796	2.796	2.796	2.796
33.500	2.796	2.796	2.796	2.796	2.796
34.000	2.796	2.796	2.796	2.796	2.796
34.500	2.796	2.796	2.796	2.796	2.796
35.000	2.796	2.796	2.796	2.796	2.796
35.500	2.796	2.796	2.796	2.796	2.796
36.000	2.796	2.796	2.796	2.796	2.796
36.500	2.796	2.796	2.796	2.796	2.796
37.000	2.796	2.796	2.796	2.796	2.796
37.500	2.796	2.796	2.796	2.796	2.796
38.000	2.796	2.796	2.796	2.796	2.796
38.500	2.796	2.796	2.796	2.796	2.796
39.000	2.796	2.796	2.796	2.796	2.796
39.500	2.796	2.796	2.796	2.796	2.796
40.000	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	2.796	2.796	2.796	2.796	2.796
41.000	2.796	2.796	2.796	2.796	2.796
41.500	2.796	2.796	2.796	2.796	2.796
42.000	2.796	2.796	2.796	2.796	2.796
42.500	2.796	2.796	2.796	2.796	2.796
43.000	2.796	2.796	2.796	2.796	2.796
43.500	2.796	2.796	2.796	2.796	2.796
44.000	2.796	2.796	2.796	2.796	2.796
44.500	2.796	2.796	2.796	2.796	2.796
45.000	2.796	2.796	2.796	2.796	2.796
45.500	2.796	2.796	2.796	2.796	2.796
46.000	2.796	2.796	2.796	2.796	2.796
46.500	2.796	2.796	2.796	2.796	2.796
47.000	2.796	2.796	2.796	2.796	2.796
47.500	2.796	2.796	2.796	2.796	2.796
48.000	2.796	2.796	2.796	2.796	2.796
48.500	2.796	2.796	2.796	2.796	2.796
49.000	2.796	2.796	2.796	2.796	2.796
49.500	2.796	2.796	2.796	2.796	2.796
50.000	2.796	2.796	2.796	2.796	2.796
50.500	2.796	2.796	2.796	2.796	2.796
51.000	2.796	2.796	2.796	2.796	2.796
51.500	2.796	2.796	2.796	2.796	2.796
52.000	2.796	2.796	2.796	2.796	2.796
52.500	2.796	2.796	2.796	2.796	2.796
53.000	2.796	2.796	2.796	2.796	2.796
53.500	2.796	2.796	2.796	2.796	2.796
54.000	2.796	2.796	2.796	2.796	2.796
54.500	2.796	2.796	2.796	2.796	2.796
55.000	2.796	2.796	2.796	2.796	2.796
55.500	2.796	2.796	2.796	2.796	2.796
56.000	2.796	2.796	2.796	2.796	2.796
56.500	2.796	2.796	2.796	2.796	2.796
57.000	2.796	2.796	2.796	2.796	2.796
57.500	2.796	2.796	2.796	2.796	2.796
58.000	2.796	2.796	2.796	2.796	2.796
58.500	2.796	2.796	2.796	2.796	2.796
59.000	2.796	2.796	2.796	2.796	2.796
59.500	2.796	2.796	2.796	2.796	2.796
60.000	2.796	2.796	2.796	2.796	2.796
60.500	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	2.796	2.796	2.796	2.796	2.796
61.500	2.796	2.796	2.796	2.796	2.796
62.000	2.796	2.796	2.796	2.796	2.796
62.500	2.796	2.796	2.796	2.796	2.796
63.000	2.796	2.796	2.796	2.796	2.796
63.500	2.796	2.796	2.796	2.796	2.796
64.000	2.796	2.796	2.796	2.796	2.796
64.500	2.796	2.796	2.796	2.796	2.796
65.000	2.796	2.796	2.796	2.796	2.796
65.500	2.796	2.796	2.796	2.796	2.796
66.000	2.796	2.796	2.796	2.796	2.796
66.500	2.796	2.796	2.796	2.796	2.796
67.000	2.796	2.796	2.796	2.796	2.796
67.500	2.796	2.796	2.796	2.796	2.796
68.000	2.796	2.796	2.796	2.796	2.796
68.500	2.796	2.796	2.796	2.796	2.796
69.000	2.796	2.796	2.796	2.796	2.796
69.500	2.796	2.796	2.796	2.796	2.796
70.000	2.796	2.796	2.796	2.796	2.796
70.500	2.796	2.796	2.796	2.796	2.796
71.000	2.796	2.796	2.796	2.796	2.796
71.500	2.796	2.796	2.796	2.796	2.796
72.000	2.796	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	2.796	2.796	2.796	2.796	2.796
0.500	2.796	2.796	2.796	2.796	2.796
1.000	2.796	2.796	2.796	2.796	2.796
1.500	2.796	2.796	2.796	2.796	2.796
2.000	2.796	2.796	2.796	2.796	2.796
2.500	2.796	2.796	2.796	2.796	2.796
3.000	2.796	2.796	2.796	2.796	2.796
3.500	2.796	2.796	2.796	2.796	2.796
4.000	2.796	2.796	2.796	2.796	2.796
4.500	2.796	2.796	2.796	2.796	2.796
5.000	2.796	2.796	2.796	2.796	2.796
5.500	2.796	2.796	2.796	2.796	2.796
6.000	2.796	2.796	2.796	2.796	2.796
6.500	2.796	2.796	2.796	2.796	2.796
7.000	2.796	2.796	2.796	2.796	2.796
7.500	2.796	2.797	2.798	2.799	2.800
8.000	2.802	2.805	2.808	2.813	2.819
8.500	2.825	2.833	2.842	2.852	2.863
9.000	2.875	2.888	2.903	2.919	2.937
9.500	2.958	2.980	3.006	3.034	3.065
10.000	3.097	3.129	3.161	3.193	3.226
10.500	3.260	3.294	3.330	3.366	3.405
11.000	3.446	3.493	3.547	3.610	3.678
11.500	3.756	3.844	3.945	4.063	4.215
12.000	4.416	4.689	5.043	5.491	6.035
12.500	6.676	7.674	8.954	10.290	11.365
13.000	12.065	12.474	12.659	12.665	12.532
13.500	12.295	11.984	11.635	11.277	10.938
14.000	10.631	10.303	9.933	9.548	9.160
14.500	8.727	8.221	7.681	7.129	6.580
15.000	6.047	5.569	5.212	4.981	4.826
15.500	4.712	4.622	4.545	4.477	4.414
16.000	4.357	4.303	4.252	4.205	4.161
16.500	4.121	4.084	4.050	4.018	3.990
17.000	3.964	3.942	3.922	3.904	3.889
17.500	3.875	3.862	3.850	3.839	3.829
18.000	3.819	3.809	3.800	3.790	3.781
18.500	3.773	3.764	3.756	3.748	3.740
19.000	3.732	3.724	3.716	3.708	3.700
19.500	3.693	3.685	3.677	3.670	3.662

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	3.655	3.647	3.640	3.632	3.625
20.500	3.617	3.610	3.602	3.594	3.587
21.000	3.579	3.572	3.564	3.555	3.547
21.500	3.538	3.529	3.520	3.511	3.502
22.000	3.493	3.484	3.475	3.466	3.457
22.500	3.448	3.439	3.430	3.421	3.412
23.000	3.403	3.394	3.384	3.375	3.366
23.500	3.357	3.348	3.339	3.330	3.320
24.000	3.311	3.301	3.290	3.278	3.264
24.500	3.249	3.233	3.216	3.197	3.177
25.000	3.156	3.135	3.115	3.095	3.075
25.500	3.057	3.039	3.021	3.004	2.987
26.000	2.971	2.955	2.941	2.927	2.915
26.500	2.903	2.892	2.883	2.874	2.866
27.000	2.858	2.852	2.846	2.840	2.835
27.500	2.831	2.827	2.823	2.820	2.817
28.000	2.815	2.813	2.811	2.809	2.807
28.500	2.806	2.805	2.804	2.803	2.802
29.000	2.801	2.800	2.800	2.799	2.799
29.500	2.798	2.798	2.798	2.798	2.797
30.000	2.797	2.797	2.797	2.797	2.797
30.500	2.796	2.796	2.796	2.796	2.796
31.000	2.796	2.796	2.796	2.796	2.796
31.500	2.796	2.796	2.796	2.796	2.796
32.000	2.796	2.796	2.796	2.796	2.796
32.500	2.796	2.796	2.796	2.796	2.796
33.000	2.796	2.796	2.796	2.796	2.796
33.500	2.796	2.796	2.796	2.796	2.796
34.000	2.796	2.796	2.796	2.796	2.796
34.500	2.796	2.796	2.796	2.796	2.796
35.000	2.796	2.796	2.796	2.796	2.796
35.500	2.796	2.796	2.796	2.796	2.796
36.000	2.796	2.796	2.796	2.796	2.796
36.500	2.796	2.796	2.796	2.796	2.796
37.000	2.796	2.796	2.796	2.796	2.796
37.500	2.796	2.796	2.796	2.796	2.796
38.000	2.796	2.796	2.796	2.796	2.796
38.500	2.796	2.796	2.796	2.796	2.796
39.000	2.796	2.796	2.796	2.796	2.796
39.500	2.796	2.796	2.796	2.796	2.796
40.000	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	2.796	2.796	2.796	2.796	2.796
41.000	2.796	2.796	2.796	2.796	2.796
41.500	2.796	2.796	2.796	2.796	2.796
42.000	2.796	2.796	2.796	2.796	2.796
42.500	2.796	2.796	2.796	2.796	2.796
43.000	2.796	2.796	2.796	2.796	2.796
43.500	2.796	2.796	2.796	2.796	2.796
44.000	2.796	2.796	2.796	2.796	2.796
44.500	2.796	2.796	2.796	2.796	2.796
45.000	2.796	2.796	2.796	2.796	2.796
45.500	2.796	2.796	2.796	2.796	2.796
46.000	2.796	2.796	2.796	2.796	2.796
46.500	2.796	2.796	2.796	2.796	2.796
47.000	2.796	2.796	2.796	2.796	2.796
47.500	2.796	2.796	2.796	2.796	2.796
48.000	2.796	2.796	2.796	2.796	2.796
48.500	2.796	2.796	2.796	2.796	2.796
49.000	2.796	2.796	2.796	2.796	2.796
49.500	2.796	2.796	2.796	2.796	2.796
50.000	2.796	2.796	2.796	2.796	2.796
50.500	2.796	2.796	2.796	2.796	2.796
51.000	2.796	2.796	2.796	2.796	2.796
51.500	2.796	2.796	2.796	2.796	2.796
52.000	2.796	2.796	2.796	2.796	2.796
52.500	2.796	2.796	2.796	2.796	2.796
53.000	2.796	2.796	2.796	2.796	2.796
53.500	2.796	2.796	2.796	2.796	2.796
54.000	2.796	2.796	2.796	2.796	2.796
54.500	2.796	2.796	2.796	2.796	2.796
55.000	2.796	2.796	2.796	2.796	2.796
55.500	2.796	2.796	2.796	2.796	2.796
56.000	2.796	2.796	2.796	2.796	2.796
56.500	2.796	2.796	2.796	2.796	2.796
57.000	2.796	2.796	2.796	2.796	2.796
57.500	2.796	2.796	2.796	2.796	2.796
58.000	2.796	2.796	2.796	2.796	2.796
58.500	2.796	2.796	2.796	2.796	2.796
59.000	2.796	2.796	2.796	2.796	2.796
59.500	2.796	2.796	2.796	2.796	2.796
60.000	2.796	2.796	2.796	2.796	2.796
60.500	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	2.796	2.796	2.796	2.796	2.796
61.500	2.796	2.796	2.796	2.796	2.796
62.000	2.796	2.796	2.796	2.796	2.796
62.500	2.796	2.796	2.796	2.796	2.796
63.000	2.796	2.796	2.796	2.796	2.796
63.500	2.796	2.796	2.796	2.796	2.796
64.000	2.796	2.796	2.796	2.796	2.796
64.500	2.796	2.796	2.796	2.796	2.796
65.000	2.796	2.796	2.796	2.796	2.796
65.500	2.796	2.796	2.796	2.796	2.796
66.000	2.796	2.796	2.796	2.796	2.796
66.500	2.796	2.796	2.796	2.796	2.796
67.000	2.796	2.796	2.796	2.796	2.796
67.500	2.796	2.796	2.796	2.796	2.796
68.000	2.796	2.796	2.796	2.796	2.796
68.500	2.796	2.796	2.796	2.796	2.796
69.000	2.796	2.796	2.796	2.796	2.796
69.500	2.796	2.796	2.796	2.796	2.796
70.000	2.796	2.796	2.796	2.796	2.796
70.500	2.796	2.796	2.796	2.796	2.796
71.000	2.796	2.796	2.796	2.796	2.796
71.500	2.796	2.796	2.796	2.796	2.796
72.000	2.796	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
0.000	2.796	2.796	2.796	2.796	2.796
0.500	2.796	2.796	2.796	2.796	2.796
1.000	2.796	2.796	2.796	2.796	2.796
1.500	2.796	2.796	2.796	2.796	2.796
2.000	2.796	2.796	2.796	2.796	2.796
2.500	2.796	2.796	2.796	2.796	2.796
3.000	2.796	2.796	2.796	2.796	2.796
3.500	2.796	2.796	2.796	2.796	2.796
4.000	2.796	2.796	2.796	2.796	2.796
4.500	2.796	2.796	2.796	2.796	2.796
5.000	2.796	2.796	2.796	2.796	2.796
5.500	2.796	2.796	2.796	2.796	2.796
6.000	2.796	2.796	2.796	2.796	2.796
6.500	2.796	2.796	2.796	2.796	2.797
7.000	2.797	2.798	2.799	2.801	2.803
7.500	2.806	2.810	2.815	2.822	2.829
8.000	2.838	2.848	2.860	2.873	2.887
8.500	2.902	2.919	2.936	2.955	2.975
9.000	2.995	3.017	3.041	3.066	3.091
9.500	3.116	3.142	3.170	3.200	3.231
10.000	3.265	3.301	3.338	3.375	3.411
10.500	3.447	3.483	3.521	3.561	3.604
11.000	3.651	3.704	3.764	3.834	3.913
11.500	4.002	4.103	4.220	4.357	4.532
12.000	4.764	5.077	5.492	6.023	6.717
12.500	7.851	9.369	10.928	12.138	12.994
13.000	13.496	13.732	13.777	13.679	13.472
13.500	13.188	12.858	12.500	12.104	11.701
14.000	11.313	10.960	10.644	10.313	9.940
14.500	9.553	9.169	8.747	8.256	7.736
15.000	7.206	6.681	6.171	5.704	5.328
15.500	5.079	4.912	4.791	4.695	4.615
16.000	4.544	4.479	4.421	4.367	4.318
16.500	4.272	4.229	4.191	4.156	4.125
17.000	4.098	4.074	4.052	4.032	4.014
17.500	3.998	3.983	3.969	3.956	3.944
18.000	3.933	3.923	3.913	3.903	3.894
18.500	3.885	3.876	3.867	3.859	3.850
19.000	3.842	3.834	3.825	3.816	3.808
19.500	3.799	3.790	3.781	3.772	3.763

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
20.000	3.754	3.745	3.736	3.728	3.719
20.500	3.710	3.701	3.692	3.683	3.674
21.000	3.665	3.656	3.647	3.638	3.629
21.500	3.621	3.612	3.603	3.594	3.585
22.000	3.576	3.566	3.556	3.546	3.536
22.500	3.526	3.515	3.505	3.494	3.483
23.000	3.473	3.462	3.451	3.441	3.430
23.500	3.419	3.408	3.397	3.387	3.376
24.000	3.365	3.354	3.342	3.330	3.317
24.500	3.301	3.284	3.265	3.243	3.221
25.000	3.197	3.173	3.149	3.125	3.103
25.500	3.082	3.062	3.044	3.025	3.007
26.000	2.990	2.973	2.957	2.942	2.929
26.500	2.916	2.904	2.893	2.883	2.874
27.000	2.866	2.859	2.852	2.846	2.840
27.500	2.836	2.831	2.827	2.824	2.820
28.000	2.818	2.815	2.813	2.811	2.809
28.500	2.807	2.806	2.805	2.804	2.803
29.000	2.802	2.801	2.800	2.800	2.799
29.500	2.799	2.798	2.798	2.798	2.798
30.000	2.797	2.797	2.797	2.797	2.797
30.500	2.797	2.796	2.796	2.796	2.796
31.000	2.796	2.796	2.796	2.796	2.796
31.500	2.796	2.796	2.796	2.796	2.796
32.000	2.796	2.796	2.796	2.796	2.796
32.500	2.796	2.796	2.796	2.796	2.796
33.000	2.796	2.796	2.796	2.796	2.796
33.500	2.796	2.796	2.796	2.796	2.796
34.000	2.796	2.796	2.796	2.796	2.796
34.500	2.796	2.796	2.796	2.796	2.796
35.000	2.796	2.796	2.796	2.796	2.796
35.500	2.796	2.796	2.796	2.796	2.796
36.000	2.796	2.796	2.796	2.796	2.796
36.500	2.796	2.796	2.796	2.796	2.796
37.000	2.796	2.796	2.796	2.796	2.796
37.500	2.796	2.796	2.796	2.796	2.796
38.000	2.796	2.796	2.796	2.796	2.796
38.500	2.796	2.796	2.796	2.796	2.796
39.000	2.796	2.796	2.796	2.796	2.796
39.500	2.796	2.796	2.796	2.796	2.796
40.000	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
40.500	2.796	2.796	2.796	2.796	2.796
41.000	2.796	2.796	2.796	2.796	2.796
41.500	2.796	2.796	2.796	2.796	2.796
42.000	2.796	2.796	2.796	2.796	2.796
42.500	2.796	2.796	2.796	2.796	2.796
43.000	2.796	2.796	2.796	2.796	2.796
43.500	2.796	2.796	2.796	2.796	2.796
44.000	2.796	2.796	2.796	2.796	2.796
44.500	2.796	2.796	2.796	2.796	2.796
45.000	2.796	2.796	2.796	2.796	2.796
45.500	2.796	2.796	2.796	2.796	2.796
46.000	2.796	2.796	2.796	2.796	2.796
46.500	2.796	2.796	2.796	2.796	2.796
47.000	2.796	2.796	2.796	2.796	2.796
47.500	2.796	2.796	2.796	2.796	2.796
48.000	2.796	2.796	2.796	2.796	2.796
48.500	2.796	2.796	2.796	2.796	2.796
49.000	2.796	2.796	2.796	2.796	2.796
49.500	2.796	2.796	2.796	2.796	2.796
50.000	2.796	2.796	2.796	2.796	2.796
50.500	2.796	2.796	2.796	2.796	2.796
51.000	2.796	2.796	2.796	2.796	2.796
51.500	2.796	2.796	2.796	2.796	2.796
52.000	2.796	2.796	2.796	2.796	2.796
52.500	2.796	2.796	2.796	2.796	2.796
53.000	2.796	2.796	2.796	2.796	2.796
53.500	2.796	2.796	2.796	2.796	2.796
54.000	2.796	2.796	2.796	2.796	2.796
54.500	2.796	2.796	2.796	2.796	2.796
55.000	2.796	2.796	2.796	2.796	2.796
55.500	2.796	2.796	2.796	2.796	2.796
56.000	2.796	2.796	2.796	2.796	2.796
56.500	2.796	2.796	2.796	2.796	2.796
57.000	2.796	2.796	2.796	2.796	2.796
57.500	2.796	2.796	2.796	2.796	2.796
58.000	2.796	2.796	2.796	2.796	2.796
58.500	2.796	2.796	2.796	2.796	2.796
59.000	2.796	2.796	2.796	2.796	2.796
59.500	2.796	2.796	2.796	2.796	2.796
60.000	2.796	2.796	2.796	2.796	2.796
60.500	2.796	2.796	2.796	2.796	2.796

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Time vs. Volume

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Time vs. Volume (ac-ft)

Output Time increment = 0.100 hours

Time on left represents time for first value in each row.

Time (hours)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)	Volume (ac-ft)
61.000	2.796	2.796	2.796	2.796	2.796
61.500	2.796	2.796	2.796	2.796	2.796
62.000	2.796	2.796	2.796	2.796	2.796
62.500	2.796	2.796	2.796	2.796	2.796
63.000	2.796	2.796	2.796	2.796	2.796
63.500	2.796	2.796	2.796	2.796	2.796
64.000	2.796	2.796	2.796	2.796	2.796
64.500	2.796	2.796	2.796	2.796	2.796
65.000	2.796	2.796	2.796	2.796	2.796
65.500	2.796	2.796	2.796	2.796	2.796
66.000	2.796	2.796	2.796	2.796	2.796
66.500	2.796	2.796	2.796	2.796	2.796
67.000	2.796	2.796	2.796	2.796	2.796
67.500	2.796	2.796	2.796	2.796	2.796
68.000	2.796	2.796	2.796	2.796	2.796
68.500	2.796	2.796	2.796	2.796	2.796
69.000	2.796	2.796	2.796	2.796	2.796
69.500	2.796	2.796	2.796	2.796	2.796
70.000	2.796	2.796	2.796	2.796	2.796
70.500	2.796	2.796	2.796	2.796	2.796
71.000	2.796	2.796	2.796	2.796	2.796
71.500	2.796	2.796	2.796	2.796	2.796
72.000	2.796	(N/A)	(N/A)	(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Elevation-Area Volume Curve

Return Event: 10 years

Label: Culvert

Storm Event: 10 year

Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	2,885.5	3,616.5	0.028	0.029
1,150.00	0.0	4,506.1	10,997.4	0.084	0.113
1,151.00	0.0	6,066.9	15,801.6	0.121	0.234
1,152.00	0.0	7,893.8	20,881.1	0.160	0.393
1,153.00	0.0	10,403.2	27,359.0	0.209	0.603
1,154.00	0.0	13,249.6	35,393.2	0.271	0.874
1,155.00	0.0	16,735.8	44,876.4	0.343	1.217
1,156.00	0.0	20,497.9	55,755.3	0.427	1.644
1,157.00	0.0	24,576.7	67,519.5	0.517	2.160
1,158.00	0.0	28,022.6	78,842.4	0.603	2.764
1,159.00	0.0	32,069.1	90,069.2	0.689	3.453

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Elevation-Area Volume Curve

Return Event: 25 years

Label: Culvert

Storm Event: 25 year

Scenario: Post-Development 25 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	2,885.5	3,616.5	0.028	0.029
1,150.00	0.0	4,506.1	10,997.4	0.084	0.113
1,151.00	0.0	6,066.9	15,801.6	0.121	0.234
1,152.00	0.0	7,893.8	20,881.1	0.160	0.393
1,153.00	0.0	10,403.2	27,359.0	0.209	0.603
1,154.00	0.0	13,249.6	35,393.2	0.271	0.874
1,155.00	0.0	16,735.8	44,876.4	0.343	1.217
1,156.00	0.0	20,497.9	55,755.3	0.427	1.644
1,157.00	0.0	24,576.7	67,519.5	0.517	2.160
1,158.00	0.0	28,022.6	78,842.4	0.603	2.764
1,159.00	0.0	32,069.1	90,069.2	0.689	3.453

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Elevation-Area Volume Curve

Return Event: 50 years

Label: Culvert

Storm Event: 50 year

Scenario: Post-Development 50 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	2,885.5	3,616.5	0.028	0.029
1,150.00	0.0	4,506.1	10,997.4	0.084	0.113
1,151.00	0.0	6,066.9	15,801.6	0.121	0.234
1,152.00	0.0	7,893.8	20,881.1	0.160	0.393
1,153.00	0.0	10,403.2	27,359.0	0.209	0.603
1,154.00	0.0	13,249.6	35,393.2	0.271	0.874
1,155.00	0.0	16,735.8	44,876.4	0.343	1.217
1,156.00	0.0	20,497.9	55,755.3	0.427	1.644
1,157.00	0.0	24,576.7	67,519.5	0.517	2.160
1,158.00	0.0	28,022.6	78,842.4	0.603	2.764
1,159.00	0.0	32,069.1	90,069.2	0.689	3.453

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Elevation-Area Volume Curve

Return Event: 100 years

Label: Culvert

Storm Event: 100 year

Scenario: Post-Development 100 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,147.10	0.0	1.0	0.0	0.000	0.000
1,148.00	0.0	126.6	138.7	0.001	0.001
1,149.00	0.0	2,885.5	3,616.5	0.028	0.029
1,150.00	0.0	4,506.1	10,997.4	0.084	0.113
1,151.00	0.0	6,066.9	15,801.6	0.121	0.234
1,152.00	0.0	7,893.8	20,881.1	0.160	0.393
1,153.00	0.0	10,403.2	27,359.0	0.209	0.603
1,154.00	0.0	13,249.6	35,393.2	0.271	0.874
1,155.00	0.0	16,735.8	44,876.4	0.343	1.217
1,156.00	0.0	20,497.9	55,755.3	0.427	1.644
1,157.00	0.0	24,576.7	67,519.5	0.517	2.160
1,158.00	0.0	28,022.6	78,842.4	0.603	2.764
1,159.00	0.0	32,069.1	90,069.2	0.689	3.453

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Elevation-Area Volume Curve

Return Event: 10 years

Label: WINN C WETLAND

Storm Event: 10 year

Scenario: Post-Development 10 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,149.30	0.0	111.7	0.0	0.000	0.000
1,150.00	0.0	2,995.9	3,686.2	0.020	0.020
1,151.00	0.0	7,633.4	15,411.4	0.118	0.138
1,152.00	0.0	19,110.9	38,822.5	0.297	0.435
1,153.00	0.0	36,713.8	82,313.1	0.630	1.065
1,154.00	0.0	98,796.6	195,736.6	1.498	2.562
1,154.10	0.0	104,462.6	304,849.3	0.233	2.796
1,155.00	0.0	123,221.9	341,139.7	2.349	5.145
1,156.00	0.0	135,550.8	388,012.1	2.969	8.114
1,157.00	0.0	148,458.3	425,867.0	3.259	11.373
1,158.00	0.0	162,585.8	466,405.6	3.569	14.942
1,159.00	0.0	180,057.7	513,742.3	3.931	18.874

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Elevation-Area Volume Curve

Return Event: 25 years

Label: WINN C WETLAND

Storm Event: 25 year

Scenario: Post-Development 25 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,149.30	0.0	111.7	0.0	0.000	0.000
1,150.00	0.0	2,995.9	3,686.2	0.020	0.020
1,151.00	0.0	7,633.4	15,411.4	0.118	0.138
1,152.00	0.0	19,110.9	38,822.5	0.297	0.435
1,153.00	0.0	36,713.8	82,313.1	0.630	1.065
1,154.00	0.0	98,796.6	195,736.6	1.498	2.562
1,154.10	0.0	104,462.6	304,849.3	0.233	2.796
1,155.00	0.0	123,221.9	341,139.7	2.349	5.145
1,156.00	0.0	135,550.8	388,012.1	2.969	8.114
1,157.00	0.0	148,458.3	425,867.0	3.259	11.373
1,158.00	0.0	162,585.8	466,405.6	3.569	14.942
1,159.00	0.0	180,057.7	513,742.3	3.931	18.874

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Elevation-Area Volume Curve

Return Event: 50 years

Label: WINN C WETLAND

Storm Event: 50 year

Scenario: Post-Development 50 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,149.30	0.0	111.7	0.0	0.000	0.000
1,150.00	0.0	2,995.9	3,686.2	0.020	0.020
1,151.00	0.0	7,633.4	15,411.4	0.118	0.138
1,152.00	0.0	19,110.9	38,822.5	0.297	0.435
1,153.00	0.0	36,713.8	82,313.1	0.630	1.065
1,154.00	0.0	98,796.6	195,736.6	1.498	2.562
1,154.10	0.0	104,462.6	304,849.3	0.233	2.796
1,155.00	0.0	123,221.9	341,139.7	2.349	5.145
1,156.00	0.0	135,550.8	388,012.1	2.969	8.114
1,157.00	0.0	148,458.3	425,867.0	3.259	11.373
1,158.00	0.0	162,585.8	466,405.6	3.569	14.942
1,159.00	0.0	180,057.7	513,742.3	3.931	18.874

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Elevation-Area Volume Curve

Return Event: 100 years

Label: WINN C WETLAND

Storm Event: 100 year

Scenario: Post-Development 100 year

Elevation (ft)	Planimeter (ft ²)	Area (ft ²)	A1+A2+sqr (A1*A2) (ft ²)	Volume (ac-ft)	Volume (Total) (ac-ft)
1,149.30	0.0	111.7	0.0	0.000	0.000
1,150.00	0.0	2,995.9	3,686.2	0.020	0.020
1,151.00	0.0	7,633.4	15,411.4	0.118	0.138
1,152.00	0.0	19,110.9	38,822.5	0.297	0.435
1,153.00	0.0	36,713.8	82,313.1	0.630	1.065
1,154.00	0.0	98,796.6	195,736.6	1.498	2.562
1,154.10	0.0	104,462.6	304,849.3	0.233	2.796
1,155.00	0.0	123,221.9	341,139.7	2.349	5.145
1,156.00	0.0	135,550.8	388,012.1	2.969	8.114
1,157.00	0.0	148,458.3	425,867.0	3.259	11.373
1,158.00	0.0	162,585.8	466,405.6	3.569	14.942
1,159.00	0.0	180,057.7	513,742.3	3.931	18.874

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward & Reverse

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,149.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	40' Wide Sheet Pile	Forward + Reverse	TW	1,154.10	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward & Reverse

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: 40' Wide Sheet Pile

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	4.90
14.70	0.00
54.70	0.00
69.70	4.90

Lowest Elevation

1,154.10 ft

Weir Coefficient

3.33 (ft^{0.5})/s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward & Reverse

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,149.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	40' Wide Sheet Pile	Forward + Reverse	TW	1,154.10	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward & Reverse

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: 40' Wide Sheet Pile

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	4.90
14.70	0.00
54.70	0.00
69.70	4.90

Lowest Elevation 1,154.10 ft

Weir Coefficient 3.33 (ft^{0.5})/s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward & Reverse

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,149.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	40' Wide Sheet Pile	Forward + Reverse	TW	1,154.10	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward & Reverse

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: 40' Wide Sheet Pile

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	4.90
14.70	0.00
54.70	0.00
69.70	4.90

Lowest Elevation

1,154.10 ft

Weir Coefficient

3.33 (ft^{0.5})/s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: 40' Sheet Pile no Aux - Forward & Reverse

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,149.30 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir	40' Wide Sheet Pile	Forward + Reverse	TW	1,154.10	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Return Event: 100 years

Label: 40' Sheet Pile no Aux - Forward & Reverse

Storm Event: 100 year

Scenario: Post-Development 100 year

Structure ID: 40' Wide Sheet Pile

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
0.00	4.90
14.70	0.00
54.70	0.00
69.70	4.90

Lowest Elevation

1,154.10 ft

Weir Coefficient

3.33 (ft^{0.5})/s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Culvert-Box	Box Culvert #1	Forward	TW	1,147.15	1,159.00
Tailwater Settings	Tailwater			(N/A)	(N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: Box Culvert #1
Structure Type: Culvert-Box

Number of Barrels	1
Width	4.00 ft
Height	5.00 ft
Length	40.00 ft
Length (Computed Barrel)	40.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.004
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0610
M	0.7500
C	0.0423
Y	0.8200
T1 ratio (HW/D)	1.238
T2 ratio (HW/D)	1.492
Slope Correction Factor	-0.500

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control, interpolate between flows at T1 & T2...

T1 Elevation	1,153.34 ft	T1 Flow	156.52 ft ³ /s
T2 Elevation	1,154.61 ft	T2 Flow	178.89 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Culvert

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 10 year

Return Event: 10 years

Storm Event: 10 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Return Event: 25 years

Label: Road Overtop

Storm Event: 25 year

Scenario: Post-Development 25 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 25 year

Return Event: 25 years

Storm Event: 25 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 50 year

Return Event: 50 years

Storm Event: 50 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Return Event: 100 years

Label: Road Overtop

Storm Event: 100 year

Scenario: Post-Development 100 year

Requested Pond Water Surface Elevations

Minimum (Headwater)	1,147.10 ft
Increment (Headwater)	0.50 ft
Maximum (Headwater)	1,159.00 ft

Outlet Connectivity

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Irregular Weir Tailwater Settings	Conover Rd Tailwater	Forward	TW	1,156.17 (N/A)	1,159.00 (N/A)

WINN970905C Stormwater Report - Forward & Reverse Flow

Subsection: Outlet Input Data

Label: Road Overtop

Scenario: Post-Development 100 year

Return Event: 100 years

Storm Event: 100 year

Structure ID: Conover Rd

Structure Type: Irregular Weir

Station (ft)	Elevation (ft)
100.00	1,159.00
112.00	1,158.78
158.00	1,156.74
194.00	1,156.17
239.00	1,156.23
300.00	1,157.80
335.00	1,159.00

Lowest Elevation 1,156.17 ft

Weir Coefficient 3.00 (ft^{0.5})/s

Structure ID: TW

Structure Type: TW Setup, DS Channel

Tailwater Type	Free Outfall
----------------	--------------

Convergence Tolerances

Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft ³ /s
Flow Tolerance (Maximum)	10.000 ft ³ /s

WINN970905C Stormwater Report - Forward & Reverse Flow

Index

4

40' Sheet Pile no Aux - Forward & Reverse (Outlet Input Data, 10 years (Post-Development 10 year))...106, 107
40' Sheet Pile no Aux - Forward & Reverse (Outlet Input Data, 100 years (Post-Development 100 year))...112, 113
40' Sheet Pile no Aux - Forward & Reverse (Outlet Input Data, 25 years (Post-Development 25 year))...108, 109
40' Sheet Pile no Aux - Forward & Reverse (Outlet Input Data, 50 years (Post-Development 50 year))...110, 111

C

Culvert (Elevation-Area Volume Curve, 10 years (Post-Development 10 year))...98
Culvert (Elevation-Area Volume Curve, 100 years (Post-Development 100 year))...101
Culvert (Elevation-Area Volume Curve, 25 years (Post-Development 25 year))...99
Culvert (Elevation-Area Volume Curve, 50 years (Post-Development 50 year))...100
Culvert (IN) (Time vs. Elevation, 10 years (Post-Development 10 year))...34, 35, 36, 37
Culvert (IN) (Time vs. Elevation, 100 years (Post-Development 100 year))...46, 47, 48, 49
Culvert (IN) (Time vs. Elevation, 25 years (Post-Development 25 year))...38, 39, 40, 41
Culvert (IN) (Time vs. Elevation, 50 years (Post-Development 50 year))...42, 43, 44, 45
Culvert (Outlet Input Data, 10 years (Post-Development 10 year))...114, 115, 116
Culvert (Outlet Input Data, 100 years (Post-Development 100 year))...123, 124, 125
Culvert (Outlet Input Data, 25 years (Post-Development 25 year))...117, 118, 119
Culvert (Outlet Input Data, 50 years (Post-Development 50 year))...120, 121, 122
Culvert (Time vs. Volume, 10 years (Post-Development 10 year))...66, 67, 68, 69
Culvert (Time vs. Volume, 100 years (Post-Development 100 year))...78, 79, 80, 81
Culvert (Time vs. Volume, 25 years (Post-Development 25 year))...70, 71, 72, 73
Culvert (Time vs. Volume, 50 years (Post-Development 50 year))...74, 75, 76, 77

E

East Ditch DA (Runoff CN-Area, 100 years (Post-Development 100 year))...16
East Ditch DA (Time of Concentration Calculations, 100 years (Post-Development 100 year))...12, 13
East Ditch DA (Unit Hydrograph Summary, 10 years (Post-Development 10 year))...18, 19
East Ditch DA (Unit Hydrograph Summary, 100 years (Post-Development 100 year))...24, 25
East Ditch DA (Unit Hydrograph Summary, 25 years (Post-Development 25 year))...20, 21

WINN970905C Stormwater Report - Forward & Reverse Flow

East Ditch DA (Unit Hydrograph Summary, 50 years (Post-Development 50 year))...22, 23

M

Master Network Summary...1, 2, 3

MSE4 (Time-Depth Curve, 10 years (Post-Development 10 year))...4, 5

MSE4 (Time-Depth Curve, 100 years (Post-Development 100 year))...6, 7

MSE4 (Time-Depth Curve, 25 years (Post-Development 25 year))...8, 9

MSE4 (Time-Depth Curve, 50 years (Post-Development 50 year))...10, 11

R

Road Overtop (Outlet Input Data, 10 years (Post-Development 10 year))...126, 127

Road Overtop (Outlet Input Data, 100 years (Post-Development 100 year))...132, 133

Road Overtop (Outlet Input Data, 25 years (Post-Development 25 year))...128, 129

Road Overtop (Outlet Input Data, 50 years (Post-Development 50 year))...130, 131

W

Wetland DA (Runoff CN-Area, 100 years (Post-Development 100 year))...17

Wetland DA (Time of Concentration Calculations, 100 years (Post-Development 100 year))...14, 15

Wetland DA (Unit Hydrograph Summary, 10 years (Post-Development 10 year))...26, 27

Wetland DA (Unit Hydrograph Summary, 100 years (Post-Development 100 year))...32, 33

Wetland DA (Unit Hydrograph Summary, 25 years (Post-Development 25 year))...28, 29

Wetland DA (Unit Hydrograph Summary, 50 years (Post-Development 50 year))...30, 31

WINN C WETLAND (Elevation-Area Volume Curve, 10 years (Post-Development 10 year))...102

WINN C WETLAND (Elevation-Area Volume Curve, 100 years (Post-Development 100 year))...105

WINN C WETLAND (Elevation-Area Volume Curve, 25 years (Post-Development 25 year))...103

WINN C WETLAND (Elevation-Area Volume Curve, 50 years (Post-Development 50 year))...104

WINN C WETLAND (IN) (Time vs. Elevation, 10 years (Post-Development 10 year))...50, 51, 52, 53

WINN C WETLAND (IN) (Time vs. Elevation, 100 years (Post-Development 100 year))...62, 63, 64, 65

WINN C WETLAND (IN) (Time vs. Elevation, 25 years (Post-Development 25 year))...54, 55, 56, 57

WINN C WETLAND (IN) (Time vs. Elevation, 50 years (Post-Development 50 year))...58, 59, 60, 61

WINN C WETLAND (Time vs. Volume, 10 years (Post-Development 10 year))...82, 83, 84, 85

WINN970905C Stormwater Report - Forward & Reverse Flow

WINN C WETLAND (Time vs. Volume, 100 years (Post-Development 100 year))...94, 95, 96, 97

WINN C WETLAND (Time vs. Volume, 25 years (Post-Development 25 year))...86, 87, 88, 89

WINN C WETLAND (Time vs. Volume, 50 years (Post-Development 50 year))...90, 91, 92, 93