Gravel Pit Solar

Windsorville Road & Plantation Road
East Windsor, Connecticut

PREPARED FOR

Gravel Pit Solar, LLC
Gravel Pit Solar II, LLC
Gravel Pit Solar III, LLC
Gravel Pit Solar IV, LLC

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July 2020

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1

Project Summary

Project Description

The Applicant, Gravel Pit Solar, LLC, Gravel Pit Solar II, LLC, Gravel Pit Solar III, LLC, and Gravel Pit Solar IV, LLC (collectively Gravel Pit Solar or the Applicant), is proposing to construct a ±120 MW alternating current ground-mounted solar photovoltaic system, along with all associated utilities, access paths, fencing, and landscaping (the Project), on undeveloped gravel pit and farm fields in East Windsor, Connecticut. When the Project reaches its useful life the improvements constructed as part of the Project will be removed and the land will be restored in accordance with the decommissioning plan.

Site Description

The approximately ±737 acre Project Site is comprised of eight parcels, (Map, Block, Lots: 057-65-001, 057-65-002, 048-65-007, 037-65-005A, 027-49-017C, 025-49-17A, 016-49-007, and 016-50-001) in East Windsor, Connecticut (see Figure 1). The Project Site is bounded by Apothecaries Hall Road to the north and Windsorville Road to the east and south. The development parcels are zoned R-3, A-1, and M-1, and are bisected by Ketch Brook, a railroad right-of-way (ROW) and an Eversource electric transmission line ROW. The Project development (the Project Area) will encompass approximately 485 acres of the Project Site.

The farm field portions of the Project Area within lots 057-65-001, 025-49-017C, 025-49-017A, 016-49-007 and 016-50-001 have been planted mostly in tobacco or silage corn. Portions of the two gravel mining operations in the Project Area within lots 027-49-17C, 057-65-001, 057-65-002, 048-65-007 and 037-65-005A are active. The southern portion of the site includes areas of ice contact stratified drift with features including kame hills, kettle holes, and glacial meltwater valleys. Under existing conditions, runoff from the northern parcels (057-65-001, 057-65-002, 048-65-007 and 037-65-005A) is generally self-contained within the parcel boundaries without discharge to a watercourse. Runoff from the central parcels north of Plantation Road (027-49-017C, 025-49-017A and 016-49-007) generally flows east towards the

railroad tracks or north or west to Ketch Brook. Runoff from the southern parcel south of Plantation Road (016-50-001) generally flows to the south towards one of two large glacial meltwater valleys where runoff infiltrates or flows offsite to wetlands in the Scantic River watershed.

According to available Natural Resource Conservation Service (NRCS) soil mapping[1], the majority of on-Site soils within the Project Area belong to the Hydrologic Soil Group "B", indicating that the soils have a relatively-high infiltration rate when thoroughly wet. Hydrologic soil group investigations have taken place at the Site, and geotechnical investigations for stormwater design are ongoing. Geotechnical borings and test pits have been performed as well. See Appendix B for NRCS Web Soil Survey output.

According to available Connecticut Department of Energy and Environmental Protection (CTDEEP) Groundwater Classification maps, the majority of groundwater at the Project Site is GA with a small portion of the northern part of the Project listed as GB (see Appendix A). The presence of GB Groundwater Quality Classification in this area is likely due to the adjacent closed NORCAP landfill which straddles the railroad south of Ketch Brook.

Mapping from the CTDEEP Aquifer Protection Areas Mapping website portrays that a portion of the northern array lies within an Aquifer Protection Area (see Appendix A).

Methodology

The Project was designed to incorporate measures provided in the Connecticut Stormwater Quality Manual (CTDEEP 2004) as well as the CTDEEP guidance document Guidance Regarding Solar Arrays dated January 8, 2020 to prevent potential erosion and sedimentation during construction and to properly manage post-development runoff. The conclusion of this analysis is that the proposed improvements will not increase the post-development peak runoff rates in comparison to existing pre-development rates at any of the critical design points analyzed and the Project will provide the required water quality mitigation of stormwater runoff prior to discharge from the Site.

[1] https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

Figure 1: Site Location Map

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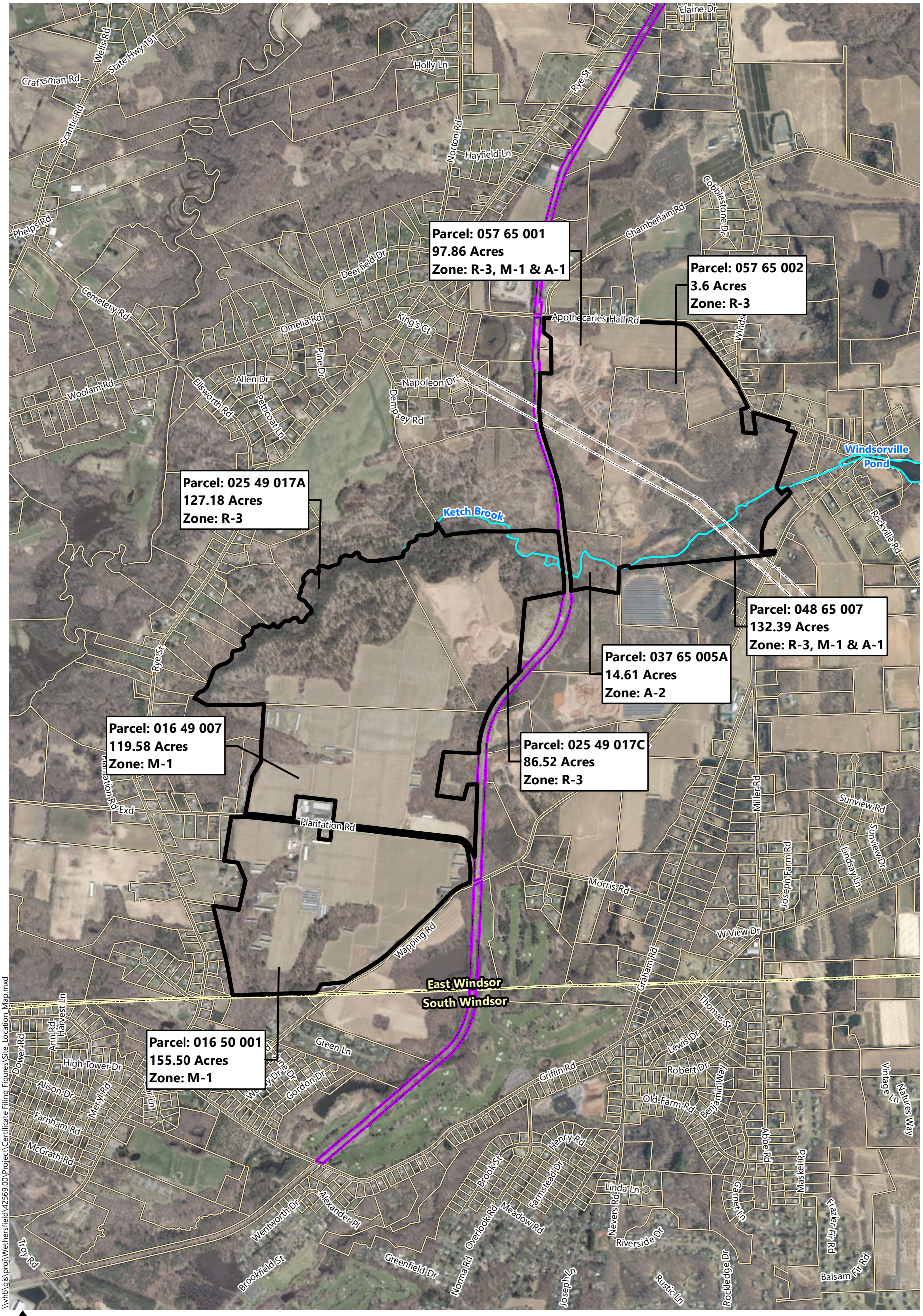
July 20, 2020



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0 700 1400 2800 Feet

Property Boundary
Adjacent Parcels
Town Boundary
Approximate Railroad Boundary
Approximate Eversource ROW
Stream

Gravel Pit Solar

East Windsor, Connecticut

Site Location Map

Source: VHB, CTDEEP, ESRI

2

Existing Drainage Conditions

Summary

The Project Area consists primarily of gravel pits and cultivated farm fields. Farm fields are mostly near level with slopes ranging from one to five percent. Gravel mine areas have much more variable slopes as a result of mining and reclamation activities. The Project also includes some forested areas that are flat to gradually sloping.

The Project Site has been broken up into three study areas: the Northern Array along Apothecaries Hall Road and Windsorville Road, the Central Array north of Plantation Road and south and east of Ketch Brook, and the Southern Array south of Plantation Road.

Under existing conditions, stormwater runoff from the Northern Array is generally contained on site by a system of depressions created by gravel extraction. Stormwater runoff from the Central Array generally flows to the east towards the railroad tracks where it is captured by natural depressions, or to the north or west towards Ketch Brook where other natural depressions trap some of the runoff. Stormwater runoff from the Southern Array flows to one of two glacial meltwater valleys which infiltrate runoff and convey the rest off-site to wetlands south of the site in the watershed of the Scantic River.

Hydrologic Information

The Project Area has been divided into three existing conditions hydrologic analysis study areas and 69 drainage sub-watersheds. Sub-watersheds were designated as areas at the Project limits where flow begins to concentrate naturally. Figure 2 illustrates the existing drainage patterns on the Site. All portions of the Project Site and tributary offsite areas have been considered in the hydrologic analysis.

Drainage Area 2A - This ±205-acre area (parcels 057-65-001, 057-65-002, 048-65-007 and 037-65-005A) is located along Windsorville Road near its intersection with

Apothecaries Hall Road, bordered to the south by Ketch Brook but separated by a large berm. The majority of this area is gravel pit with smaller portions consisting of farm fields and forested blocks. This area is self-contained within the gravel pit floor and discharges to constructed process water ponds and the groundwater.

Drainage Area 2B - This ±200-acre area (Parcels 027-49-017C, 025-49-017A and 016-49-007) is located to the north of Plantation Road and is bordered to the east by the railroad ROW and to the north and west by Ketch Brook. Stormwater in this area flows in all directions off the farm fields and gravel pit areas including to kettle holes upgradient of Ketch Brook, through steeply sloping drainage swales and to the railroad ROW.

Drainage Area 2C - This ±145-acre area (Parcel 016-50-001) is located to the south of Plantation Road and is bordered to the west and south by residential development and to the east by Windsorville Road. Stormwater in this area generally flows to one of two glacial meltwater valleys which slope towards the Town boundary with South Windsor to enter off-site wetlands in the Scantic River watershed.

Figure 2: Existing Drainage Areas

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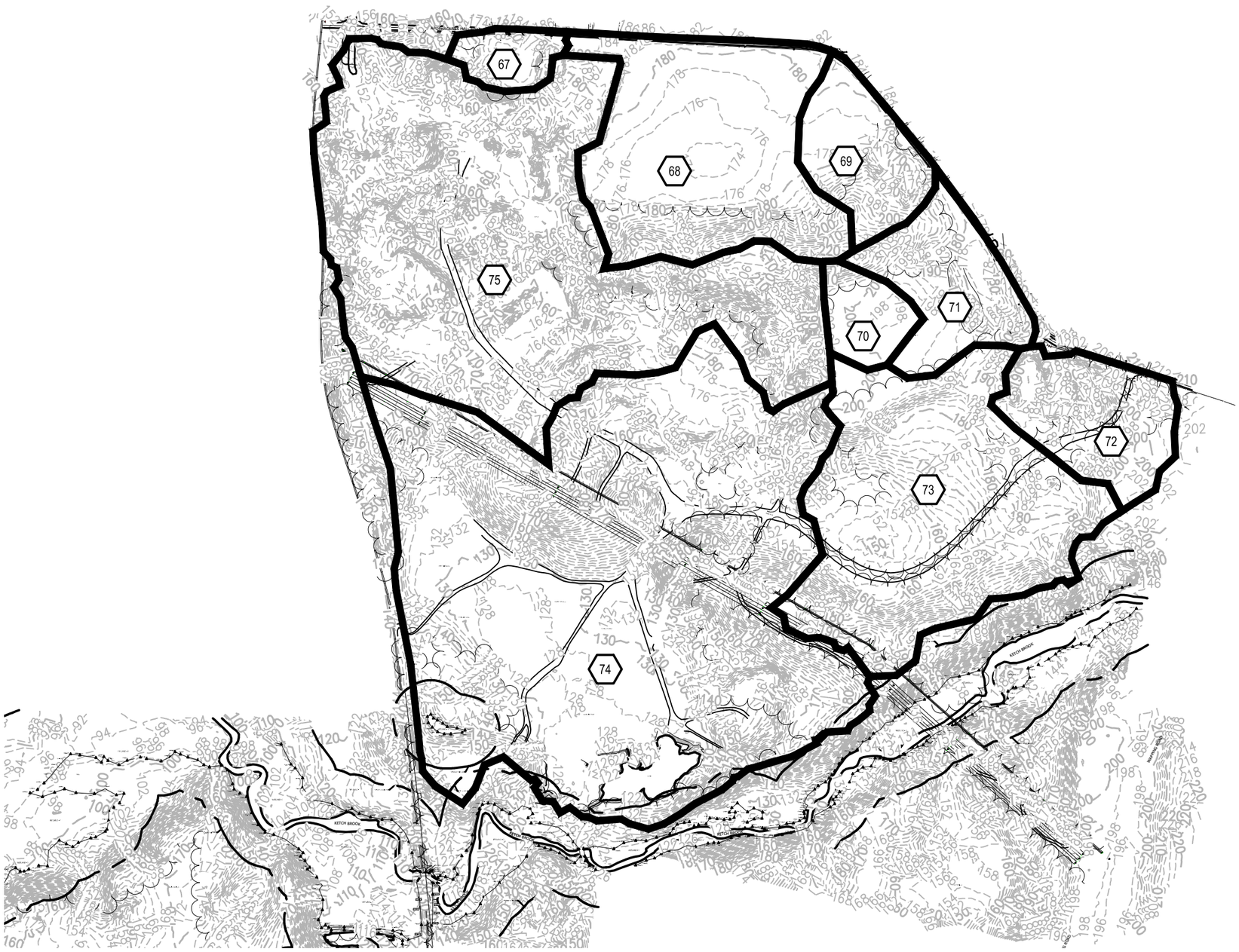


Legend

SYMBOLS

X — DRAINAGE AREA DESIGNATION

LINETYPES

DRAINAGE AREA BOUNDARY

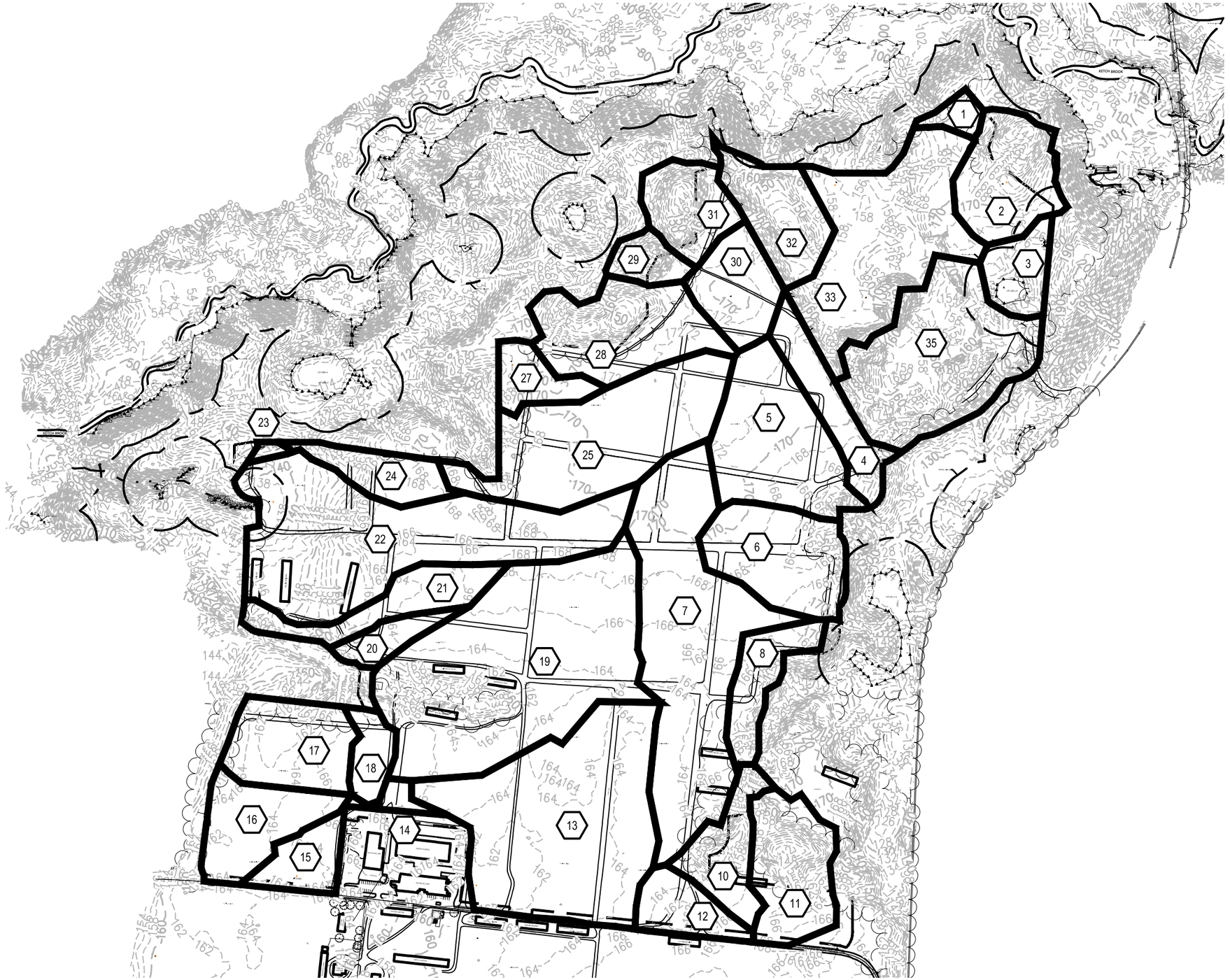
0 250 500 Feet

Existing Drainage Areas
Northern Array Area
Gravel Pit Solar
Windsorville Road - East Windsor, CT

Figure 2A

7/24/20

\\vhb\gbl\proj\Wethersfield\42569.00\tech\Drainage\Gravel Pit Solar - Existing Conditions - North Plantation.dwg



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SYMBOLS

X — DRAINAGE AREA DESIGNATION

LINETYPES

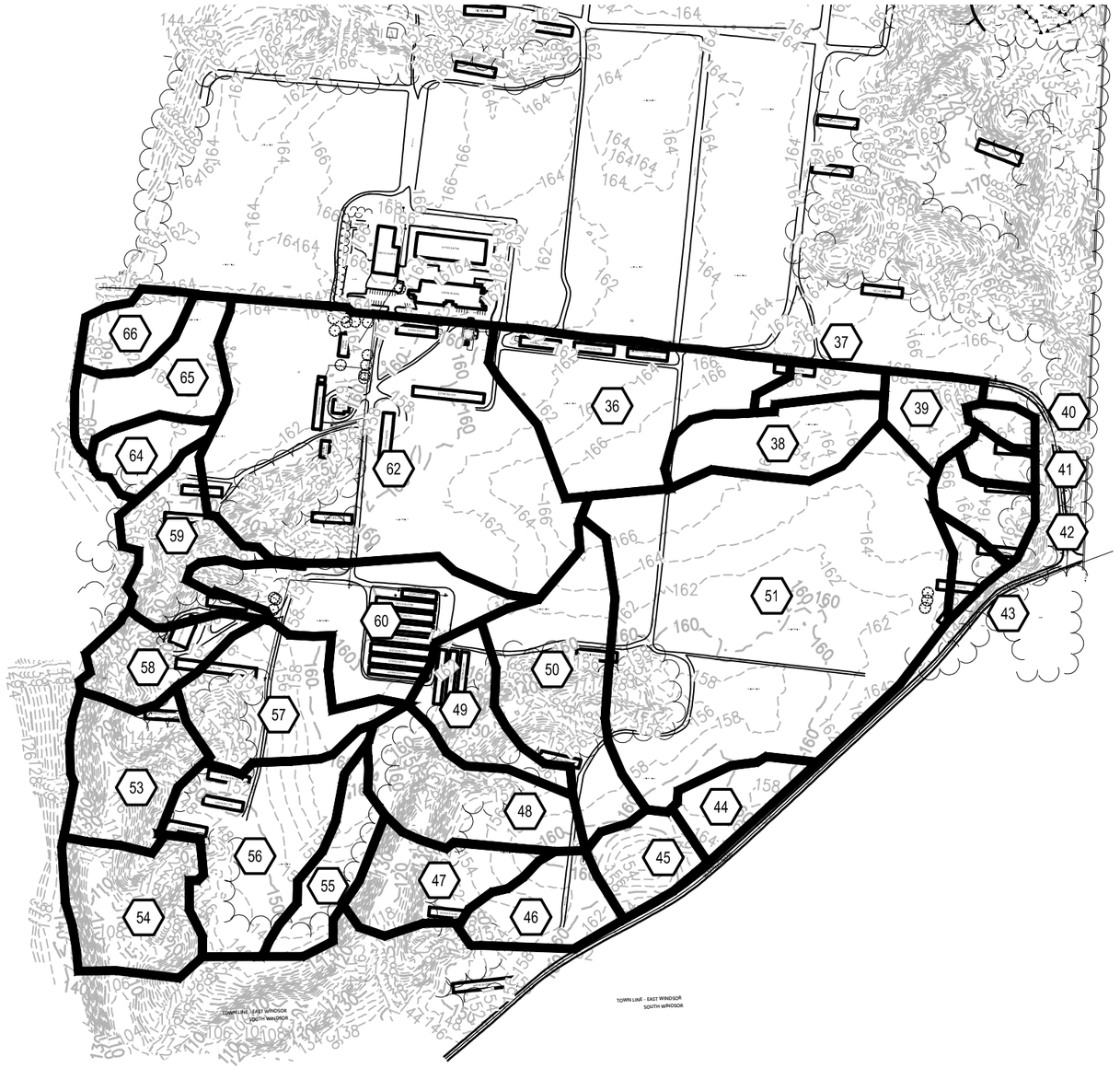
DRAINAGE AREA BOUNDARY

0 250 500 Feet

Existing Drainage Areas
Central Array Area
Gravel Pit Solar
North of Plantation Road - East Windsor, CT

Figure 2B

7/24/20



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SYMBOLS

X — DRAINAGE AREA DESIGNATION

LINETYPES

DRAINAGE AREA BOUNDARY

0 250 500 Feet

Existing Drainage Areas
Southern Array Area
Gravel Pit Solar
South of Plantation Road - East Windsor, CT

Figure 2C

7/24/20

3

Proposed Drainage Conditions

Summary

The Site has been designed to maintain existing topography and mimic existing drainage patterns to the maximum extent practicable. In the majority of the Project Area, permanent turf-forming grasses will be planted to stabilize the soil, cycle nutrients and sequester any residual contaminants remaining from past farming activities. These grasses will improve soil structure and promote infiltration which will lower runoff rates from the operational facility. Existing forest vegetation has been preserved to the maximum extent practicable. Majority of the tree clearing is proposed to protect Project assets from damage and minimize shading. The Project will cut approximately 91 acres of woodland across the entire Project Area.

The only impervious surfaces proposed to be constructed are access roads and small pads for utility equipment. Once operational, vehicular access to the Project will be limited to infrequent maintenance visits. The use of natural depressions and vegetated buffers as well as the proposed stormwater basins will provide water quality treatment for the Project.

Hydrologic Information

Natural drainage patterns will be maintained throughout the Site so that the proposed hydrologic conditions will closely match existing conditions at each of the modelled discharge points. The proposed conditions analysis utilizes the same three (3) analysis areas and 69 sub-watersheds from existing conditions.

Learning from experience designing and constructing other solar projects in Connecticut, the Project approach to stormwater management has emphasized the use of non-structural controls such as pre-seeding and establishing permanent vegetation cover before construction starts. In this case site preparation is anticipated in the summer and fall of the year preceding the spring start of construction. Similarly, the Project will mitigate increases in peak discharge rates by promoting infiltration into the sandy soils present at various depths below finer textured soil

mantles. The Project will utilize the natural terrain of upland depressions (kettle holes) and upland glacial meltwater valleys to retain and infiltrate stormwater runoff. This infiltration will also provide the water quality treatment required under the CTDEEP regulations and guidance documents. This approach has been developed in consultation with CTDEEP personnel.

Drainage Area 3A - This ±205-acre area is located along Windsorville Road near its intersection with Apothecaries Hall Road, bordered to the south by Ketch Brook but separated by a large berm. It is proposed to modify the grades within the gravel pit areas but generally maintain that all stormwater runoff will discharge to groundwater from the area.

Drainage Area 3B - This ±200-acre area is located to the north of Plantation Road and is bordered to the east by the railroad tracks and to the north and west by Ketch Brook. to the Project will regrade the gravel pit area but existing grades within the farm fields will generally not be modified. Existing drainage patterns will be maintained.

Drainage Area 3C - This ±145-acre area is located to the south of Plantation Road and is bordered to the west and south by residential development and to the east by Wapping Road. Almost no regrading is proposed within this area and existing drainage patterns from the existing farm fields will be maintained.

Figure 3: Proposed Drainage Areas

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Legend

SYMBOLS

X — DRAINAGE AREA DESIGNATION

LINETYPES

DRAINAGE AREA BOUNDARY

0 250 500 Feet

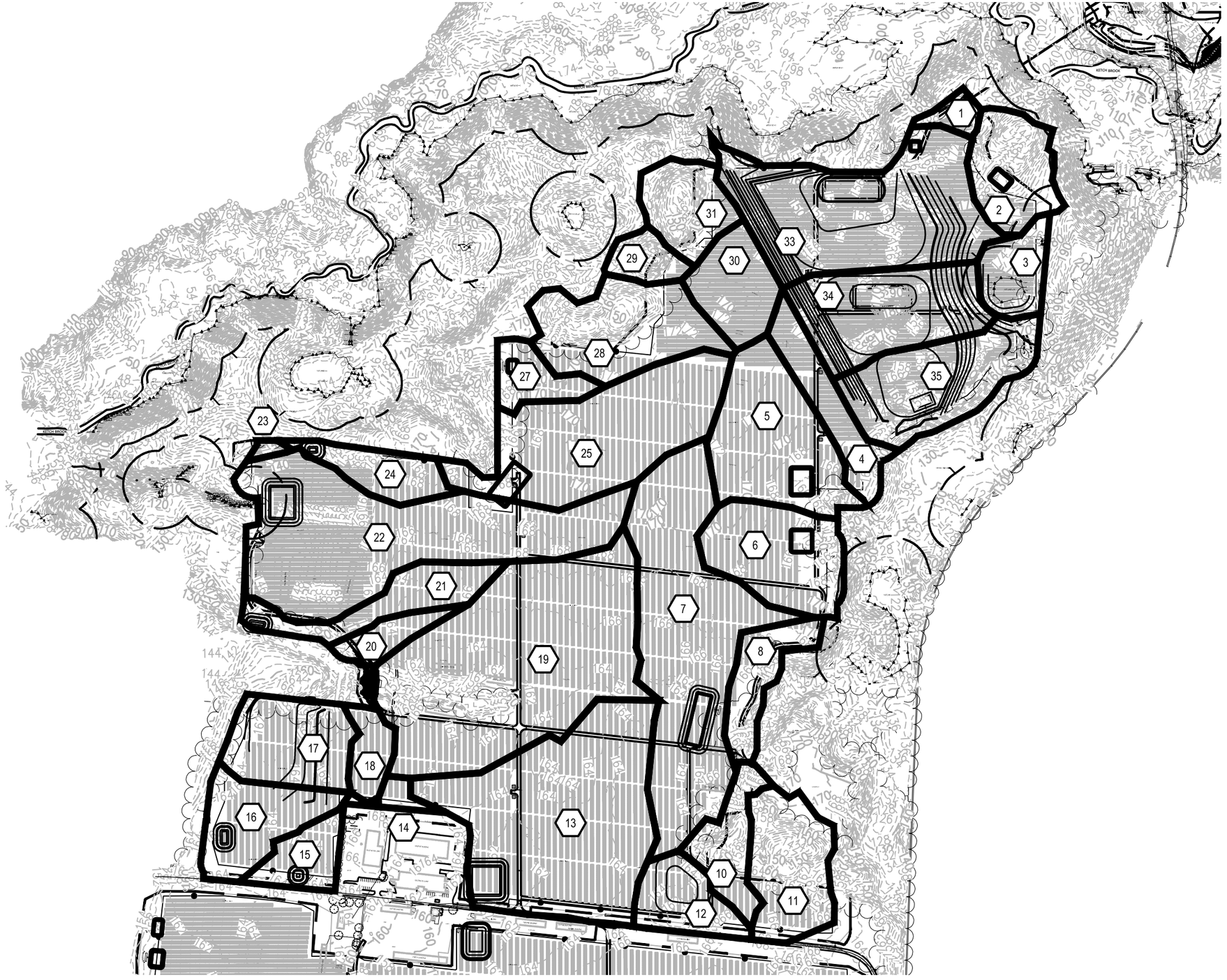
vhb

Proposed Drainage Areas
Northern Array Area
Gravel Pit Solar
Windsorville Road - East Windsor, CT

Figure 3A

7/24/20

\\vhb\gbl\proj\Wethersfield\42569.00\tech\Drainage\Gravel Pit Solar - Proposed Conditions - North Plantation.dwg



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LINETYPES

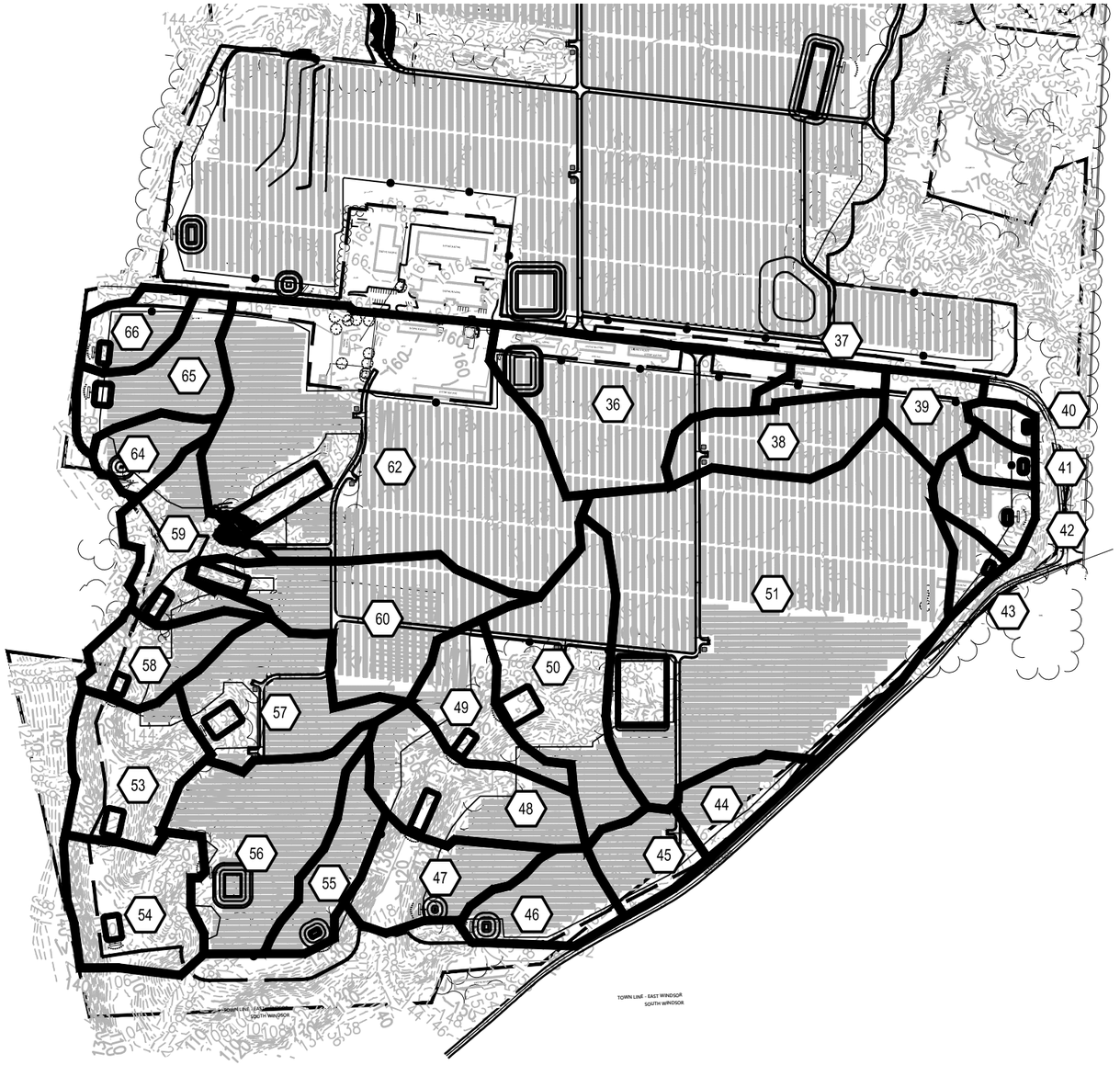
DRAINAGE AREA BOUNDARY

0 250 500 Feet

Proposed Drainage Areas
Central Array Area
Gravel Pit Solar
North of Plantation Road - East Windsor, CT

Figure 3B

7/24/20



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SYMBOLS

X — DRAINAGE AREA DESIGNATION

LINETYPES

DRAINAGE AREA BOUNDARY

0 250 500 Feet

Proposed Drainage Areas
Southern Array Area
Gravel Pit Solar
South of Plantation Road - East Windsor, CT

Figure 3C

7/24/20

4

Hydrologic Analysis

Hydrologic Analysis

The rainfall-runoff was evaluated for the 2-, 25-, 50-, and 100-year storm recurrence intervals. Rainfall volumes used for this analysis were based on the National Weather Service NOAA Hydrometeorological Design Studies Center, Type III, 24—hour storm event for the Site. Rainfall depths were 3.16, 6.18, 7.02, 7.96 inches respectively. Runoff coefficients for the pre- and post- development conditions provided in the tables below were determined using NRCS Technical Release 55 (TR-55) methodology as provided in the HydroCAD reports found in Appendix D. Under proposed conditions, the majority of Project Area soils (approximately 395 acres) are considered hydrologic soil group "B" based on confirmation of NRCS mapping units as confirmed by onsite soil evaluation and in-situ constant head permeameter testing.

The results of the pre- and post-development hydrologic models indicate that peak runoff rates from the Site will be reduced at all design points for all design storms with the implementation of the proposed permanent stormwater basins. The ongoing field soil test data will be used to advance the design of the stormwater basins. One-half of the lowest field-tested infiltration rate for each infiltration basin will be assumed in the hydrologic model, to be conservative. It is anticipated that high infiltration rates can be expected at all basin locations due to the boring pit logs depicting a consistent sandy substrate across the site.

Floodplain Information / Analysis

The only portion of the Site which includes a 100-year floodplain area is associated with Ketch Brook (included in Appendix A). Impacts to Ketch Brook and its' associated floodplain will be avoided by utilizing a horizontal direction drill crossing method and the development limits are kept well beyond the floodplain limits.

Water Quality Volume

Water Quality Volume (WQV) is based upon the first inch of rainfall, or a 1-inch rainfall event, over the acreage of proposed impervious surfaces for the development. Neither the solar panels nor the equipment pads will be subject to vehicular access nor will they contribute any pollutants to stormwater runoff. The crushed stone access paths will be trafficked infrequently and the grassy meadows downstream of the paths will provide residence time of stormwater runoff to remove the small amount of sediment from runoff.

Water quality treatment for all areas of the site which do not discharge completely to groundwater will be treated by stormwater management basins prior to discharge from the site. Final design of the stormwater management basins and preparation of WQV computations will be prepared upon completion of onsite stormwater geotechnical testing.

Water Quality Flow

Water Quality Flow (WQF) is a rate of stormwater runoff based upon the first inch of rainfall, or a 1-inch rainfall event. This alternative to WQV storage is generally followed for "flow-through" treatment devices. As the proposed development does not incorporate any "flow-through" water quality treatment devices, WQF is not applicable to this project.

Appendix A:

- FEMA Flood Insurance Rate Map
- NOAA Rainfall Depth Estimates
- CTDEEP Groundwater Classification Map
- Aquifer Protection Area Mapping

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FEMA Flood Insurance Rate Map

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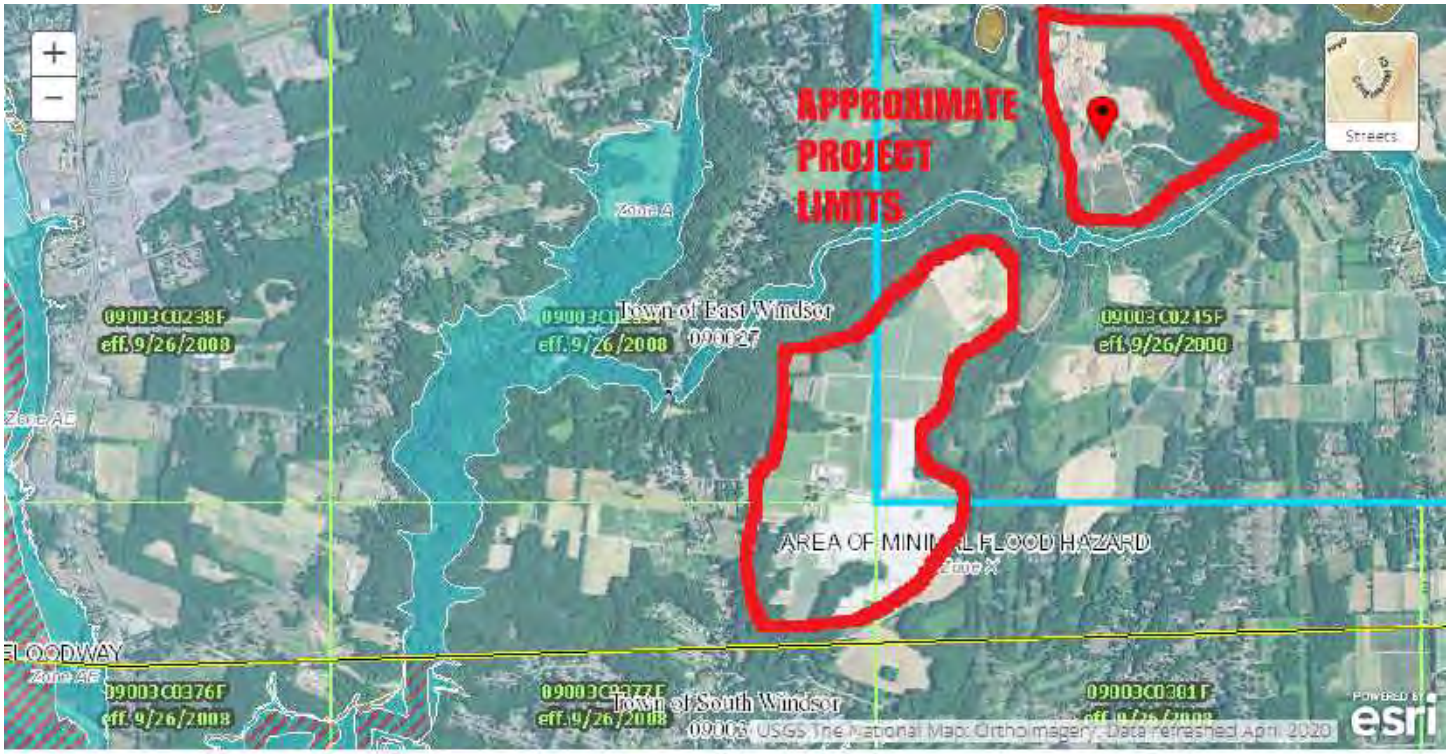

PIN
- Approximate location based on user input and does not represent an authoritative property location

MAP PANELS
- Selected FloodMap Boundary
- Digital Data Available
- No Digital Data Available
- Unmapped

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D
- Otherwise Protected Area
- Coastal Barrier Resource System Area

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth
- Regulatory Floodway Zone AE, AH, AR, VE, VR

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER FEATURES
- 20.2 / 17.5 — Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

NOAA Rainfall Depth Estimates

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NOAA Atlas 14, Volume 10, Version 3
Location name: Broad Brook, Connecticut, USA*
Latitude: 41.8887°, Longitude: -72.5547°
Elevation: 118.51 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sandra Pavlovic, Michael St. Laurent, Carl Trypaluk, Dale Unruh, Orlan Wilhite

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.338 (0.259-0.441)	0.409 (0.313-0.533)	0.524 (0.400-0.686)	0.620 (0.470-0.816)	0.751 (0.554-1.03)	0.850 (0.615-1.20)	0.954 (0.673-1.39)	1.07 (0.718-1.60)	1.24 (0.801-1.91)	1.38 (0.872-2.17)
10-min	0.479 (0.367-0.624)	0.579 (0.443-0.755)	0.742 (0.566-0.972)	0.878 (0.666-1.16)	1.06 (0.785-1.47)	1.21 (0.872-1.69)	1.35 (0.953-1.97)	1.52 (1.02-2.26)	1.76 (1.14-2.71)	1.95 (1.24-3.07)
15-min	0.563 (0.432-0.734)	0.681 (0.521-0.889)	0.873 (0.666-1.14)	1.03 (0.784-1.36)	1.25 (0.923-1.72)	1.42 (1.03-1.99)	1.59 (1.12-2.32)	1.79 (1.20-2.66)	2.07 (1.34-3.19)	2.30 (1.45-3.62)
30-min	0.758 (0.581-0.989)	0.920 (0.704-1.20)	1.18 (0.904-1.55)	1.40 (1.06-1.85)	1.70 (1.25-2.34)	1.93 (1.40-2.71)	2.17 (1.53-3.16)	2.43 (1.63-3.63)	2.82 (1.82-4.35)	3.13 (1.98-4.93)
60-min	0.953 (0.730-1.24)	1.16 (0.886-1.51)	1.49 (1.14-1.96)	1.77 (1.34-2.33)	2.15 (1.59-2.96)	2.44 (1.77-3.43)	2.74 (1.93-4.00)	3.08 (2.07-4.59)	3.57 (2.31-5.51)	3.96 (2.51-6.24)
2-hr	1.23 (0.946-1.59)	1.48 (1.14-1.92)	1.90 (1.46-2.47)	2.25 (1.71-2.94)	2.72 (2.02-3.73)	3.07 (2.24-4.32)	3.45 (2.46-5.05)	3.90 (2.62-5.79)	4.57 (2.97-7.02)	5.14 (3.26-8.05)
3-hr	1.41 (1.09-1.83)	1.71 (1.32-2.21)	2.18 (1.68-2.83)	2.58 (1.97-3.37)	3.13 (2.33-4.28)	3.53 (2.59-4.95)	3.97 (2.84-5.80)	4.50 (3.03-6.65)	5.31 (3.45-8.12)	6.00 (3.82-9.35)
6-hr	1.78 (1.38-2.28)	2.15 (1.67-2.77)	2.77 (2.14-3.58)	3.28 (2.53-4.26)	3.99 (2.99-5.44)	4.50 (3.32-6.30)	5.07 (3.66-7.40)	5.78 (3.90-8.49)	6.88 (4.48-10.5)	7.83 (5.00-12.1)
12-hr	2.18 (1.70-2.79)	2.67 (2.09-3.42)	3.48 (2.71-4.46)	4.15 (3.21-5.35)	5.07 (3.82-6.88)	5.74 (4.26-7.99)	6.49 (4.71-9.43)	7.42 (5.03-10.8)	8.88 (5.80-13.4)	10.2 (6.50-15.6)
24-hr	2.54 (2.00-3.23)	3.16 (2.48-4.03)	4.18 (3.27-5.33)	5.02 (3.90-6.44)	6.18 (4.69-8.36)	7.02 (5.24-9.75)	7.96 (5.83-11.6)	9.16 (6.23-13.3)	11.1 (7.26-16.6)	12.8 (8.19-19.5)
2-day	2.85 (2.25-3.60)	3.59 (2.83-4.55)	4.81 (3.78-6.10)	5.81 (4.54-7.42)	7.20 (5.50-9.71)	8.20 (6.17-11.4)	9.33 (6.90-13.6)	10.8 (7.38-15.6)	13.2 (8.71-19.8)	15.4 (9.93-23.4)
3-day	3.11 (2.46-3.91)	3.92 (3.10-4.94)	5.25 (4.14-6.64)	6.35 (4.98-8.08)	7.87 (6.03-10.6)	8.97 (6.77-12.4)	10.2 (7.58-14.8)	11.9 (8.10-17.1)	14.6 (9.59-21.7)	17.0 (11.0-25.7)
4-day	3.35 (2.66-4.20)	4.21 (3.34-5.30)	5.63 (4.45-7.11)	6.81 (5.35-8.64)	8.43 (6.47-11.3)	9.60 (7.26-13.2)	10.9 (8.12-15.8)	12.7 (8.68-18.2)	15.6 (10.3-23.1)	18.2 (11.7-27.4)
7-day	4.00 (3.19-5.00)	4.98 (3.97-6.24)	6.59 (5.23-8.28)	7.92 (6.25-10.0)	9.75 (7.51-13.0)	11.1 (8.40-15.2)	12.6 (9.36-18.0)	14.5 (9.99-20.8)	17.7 (11.7-26.2)	20.6 (13.3-30.9)
10-day	4.65 (3.72-5.80)	5.70 (4.55-7.11)	7.40 (5.90-9.27)	8.82 (6.98-11.1)	10.8 (8.30-14.3)	12.2 (9.24-16.6)	13.8 (10.2-19.6)	15.8 (10.9-22.5)	19.1 (12.6-28.0)	21.9 (14.2-32.9)
20-day	6.70 (5.39-8.31)	7.81 (6.28-9.70)	9.62 (7.71-12.0)	11.1 (8.86-13.9)	13.2 (10.2-17.3)	14.7 (11.2-19.7)	16.4 (12.1-22.8)	18.4 (12.7-25.9)	21.4 (14.2-31.2)	24.0 (15.6-35.6)
30-day	8.45 (6.82-10.4)	9.58 (7.72-11.9)	11.4 (9.18-14.2)	13.0 (10.4-16.2)	15.1 (11.7-19.6)	16.7 (12.6-22.1)	18.3 (13.5-25.2)	20.2 (14.1-28.4)	22.9 (15.3-33.3)	25.1 (16.4-37.2)
45-day	10.6 (8.61-13.1)	11.8 (9.55-14.6)	13.7 (11.0-17.0)	15.3 (12.3-19.0)	17.5 (13.5-22.5)	19.1 (14.5-25.1)	20.8 (15.2-28.1)	22.5 (15.7-31.5)	24.8 (16.7-35.9)	26.6 (17.3-39.2)
60-day	12.5 (10.1-15.3)	13.7 (11.1-16.8)	15.7 (12.6-19.3)	17.3 (13.9-21.4)	19.5 (15.1-25.0)	21.3 (16.1-27.7)	23.0 (16.7-30.8)	24.6 (17.2-34.2)	26.6 (17.9-38.3)	28.0 (18.3-41.2)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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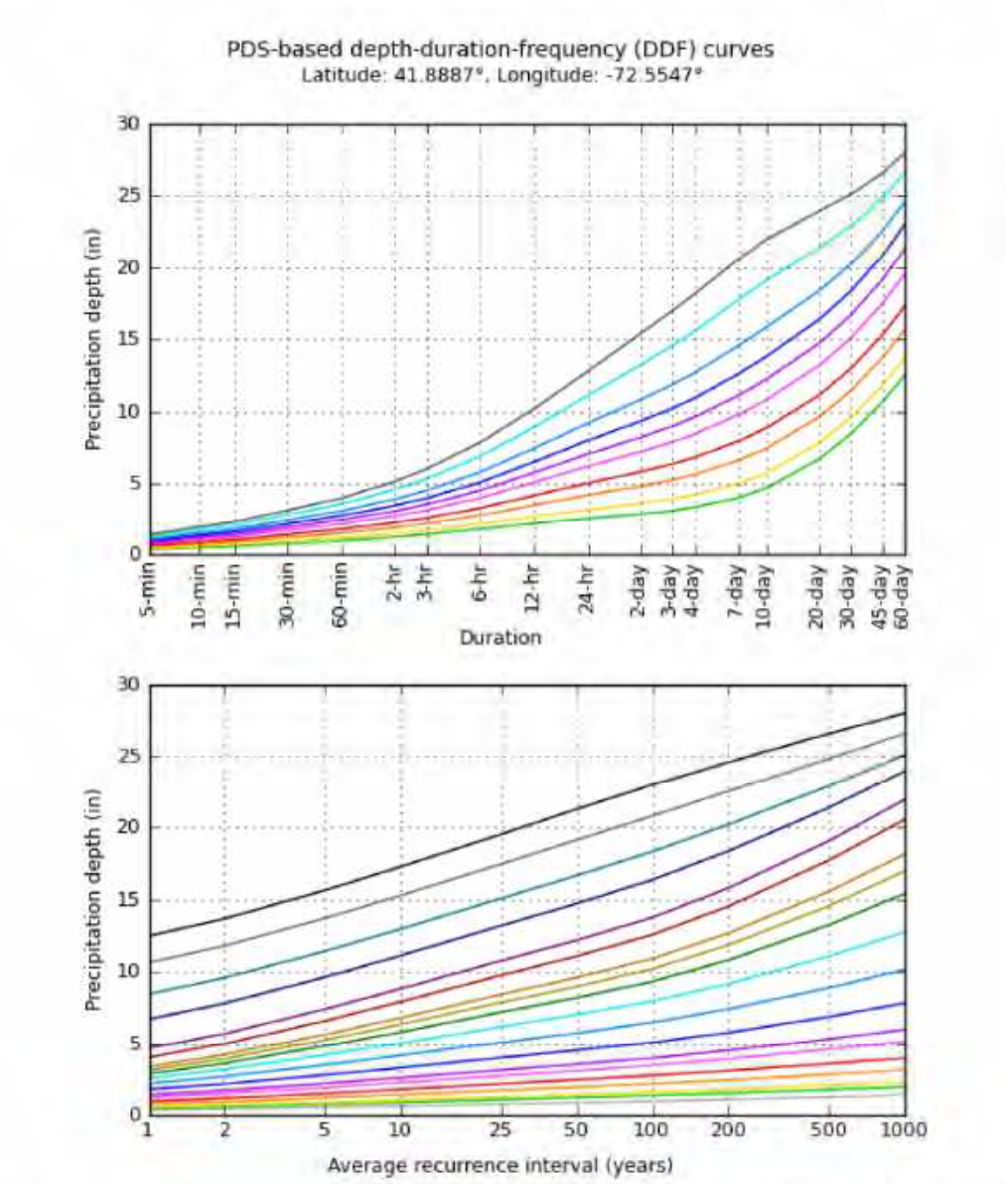
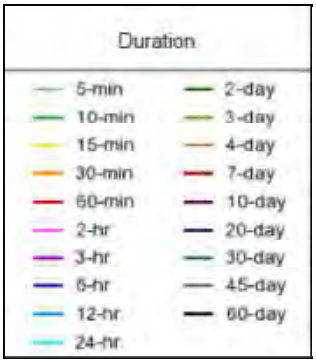
PF graphical





NOAA Atlas 14, Volume 10, Version 3

Created (GMT): Fri Jan 10 16:10:31 2020

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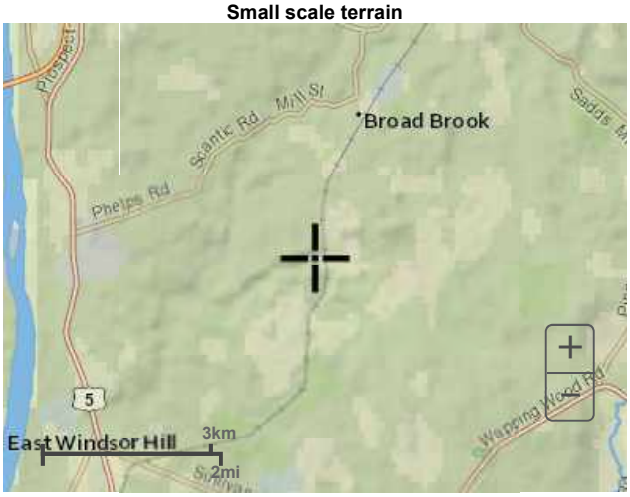
Maps & aerials

Small scale terrain



Large scale terrain

Large scale map

Large scale aerial

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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

CTDEEP Groundwater Classification Map

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WATER QUALITY CLASSIFICATIONS
EAST WINDSOR, CT

SURFACE WATER QUALITY CLASSES

A	A
AA	AA
B, B*	B, B*
SA	SA
SB	SB

NOTES:
Surface Water Classifications beginning with S refer to Coastal and Marine Surface Water.
B* is a subset of Class B where no direct wastewater discharges are allowed other than those consistent with Class AA, A and SA surface waters.

GROUND WATER QUALITY CLASSES

GA (white background)

GAA, GAAs

GA, GAA may not meet current standards

GB

GC

Area of Contribution to Public Supply Well

Final Aquifer Protection Area (Level A)

Major Basin Boundary

EXPLANATION

WATER QUALITY CLASSIFICATIONS (WQC) MAPS are one of the elements of the Water Quality Standards (WQS) for the State of Connecticut. The WQS are a part of Connecticut's clean water program and are essential for protecting and improving water quality. The WQS follow the principles of Connecticut's Clean Water Act which is in Chapter 446K of the Connecticut General Statutes. The WQS provide policy guidance in many areas, for example decisions on acceptable discharges to water resources, siting of landfills, remediations or prioritization of municipal sewerage system projects. The first two elements of the WQS are the Standards, which set an overall policy for management of water quality, and the Criteria, which are descriptive and numerical standards that describe the allowable parameters and goals for various water quality classifications. A discussion of these two elements is found in the Water Quality Standards document available on the CT DEEP website. The third element is the Classifications and the Water Quality Classification Maps which show the Classification assigned to each surface and groundwater resource throughout the State. The WQS are adopted using a public participation process. The WQC maps are also adopted using a public participation process but go through hearings separately from the Standards and Criteria hearings. Revision and adoption of the WQC data occurs in accordance with the public participation procedures contained in Section 22a-426 of the Connecticut General Statutes. Ground WQC is subject to Connecticut regulation and changes must be reviewed and adopted. All changes to the Surface WQC require an adoption process which is subject to federal review and approval in addition to CT regulation. The adoption dates for the WQC by major drainage basin are: Housatonic River, Hudson River and Southwest Coastal Basins - March 1999; Connecticut River and South Central Coastal Basins - February 1993; Thames River, Pawcatuck River and Southeast Coastal Basins - December 1986. Surface Water Classifications do not change after the adoption date until the next major revision. Ground Water Classifications may change after the adoption date under specific circumstances. The map may have more than one WQC adoption date because a town may be in more than one major drainage basin.

SURFACE WATERS in Connecticut are divided into freshwater classified as AA, A, B or B* and saline waters classified as SA or SB. Class AA designated uses are existing or proposed drinking water supplies; habitat for fish and other aquatic life and wildlife; recreation; and water supply for industry and agriculture. Class A designated uses are habitat for fish and other aquatic life and wildlife; potential drinking water supplies; recreation; navigation; and water supply for industry and agriculture. Class SA designated uses are habitat for marine fish, other aquatic life and wildlife; shellfish harvesting for direct human consumption; recreation; industrial water supply; and navigation. Class B designated uses are habitat for fish and aquatic life and wildlife; recreation; navigation; and industrial and agricultural water supply. Class B*, applicable to Candlewood Lake, is a subset of Class B and is identical in all ways to the designated uses, criteria and standards for Class B waters except for the restriction on direct discharges. Class SB designated uses are habitat for marine fish and aquatic life and wildlife; commercial shellfish harvesting; recreation; industrial water supply; and navigation.

Surface waters which are not specifically classified shall be considered as Class A or Class AA. Surface waters in GA ground water areas are assumed Class A or Class SA unless otherwise indicated. Surface waters in GAA ground water areas are assumed Class AA unless otherwise indicated.

On the WQC map a surface water quality goal of A is represented by blue colored water bodies. Surface water quality goal of AA is represented by purple colored water bodies. Surface water quality goal of B is represented by gold colored water bodies.

GROUND WATERS in Connecticut are classified as GAA, GA, GB and GC. Class GAA designated uses are existing or potential public supply of water suitable for drinking without treatment and baseflow for hydraulically-connected surface water bodies. The Class GAAs is a subclass of GAA for ground water that is tributary to a public water supply reservoir. The area of contribution to a public water supply well is represented by a 500-foot radius around the well and is assumed to be Class GAA unless otherwise classified. Class GA designated uses are existing private and potential public or private supplies of water suitable for drinking without treatment and baseflow for hydraulically-connected surface water bodies. All ground waters not specifically classified are considered as Class GA. Class GB designated uses are industrial process water and cooling waters and baseflow for hydraulically-connected water bodies and is presumed not suitable for human consumption without treatment. Class GC designated uses are assimilation of discharges authorized by the Commissioner pursuant to Section 22a-430 of the General Statutes.

On the WQC map GA is represented by white colored land areas. Class GAA and class GAAs are represented by blue colored land areas. The area of contribution to a public water supply well is shown by a blue cross-hatch overprint. A notation of GAA followed by a state abbreviation indicates a watershed that contributes to the public water supply for a state other than Connecticut. Class GA or Class GAA areas that currently may not be meeting the GA or GAA standards are represented on the WQC maps by tan colored land areas. Class GB is represented by green colored land areas. Class GC is represented by magenta colored land areas.

FINAL AQUIFER PROTECTION AREAS (Level A) are included on the WQC maps for informational purposes. These areas are anticipated to be reclassified GAA during the next major basin updates, subject to public participation. The Aquifer Protection Program helps protect Connecticut's public drinking water resources by delineating aquifer protection areas (also called wellhead protection areas) for public supply wells and establishing land use regulations within these areas. These areas represent the land area contributing ground water to active public water supply wells or well fields that serve more than 1000 people and are set in sand and gravel aquifers (stratified drift deposits).

DATA SOURCES

WATER QUALITY CLASSIFICATIONS DATA – Water quality classifications shown on this map are based on information from the following digital spatial datasets that are typically shown together – Ground Water Quality Classifications Poly, Surface Water Quality Classifications Line, and Surface Water Quality Classifications Poly. The map legend above reflects the content of these three data sources. These WQC data were initially compiled on 1:24,000-scale 7.5 minute USGS topographic quadrangle maps and later digitized at 1:24,000 scale. For example, the Surface Water Quality Classifications Line and Surface Water Quality Classifications Poly digital data assigns surface water quality classifications to water bodies such as rivers, streams, reservoirs, lakes, ponds and coves found in 1:24,000-scale hydrography data available from CT DEEP. The hydrography may not include all the waterbodies in Connecticut. The Ground Water Quality Classifications Poly data assigns ground water quality classifications, at 1:24,000 scale, to the remaining land areas in Connecticut.

AQUIFER PROTECTION AREA DATA – Aquifer Protection Areas shown on this map are from the Aquifer Protection Area digital dataset which contains polygon data intended to be used at 1:24,000 scale. The dataset contains regulated areas classified as Level A Aquifer Protection Area (Final) and Level B Aquifer Protection Area (Preliminary). The Level B areas are not shown on the WQC maps. The data was collected from 1991 to the present and is actively updated as Final area mapping replaces earlier Preliminary areas. The Aquifer Protection Areas are delineated by the individual water companies owning the well fields and submitted to the CT DEEP for approval. Preliminary mapping provides a general estimate of the area contributing ground water to the well field. Final mapping is based on extensive, site-specific, detailed modeling of the ground water flow system. CT DEEP may adjust Final area boundaries to be consistent with 1:24,000 scale topography and base map data where appropriate during the approval process.

MAJOR DRAINAGE BASIN DATA – Major drainage basins shown on this map are from Major Basin Line data developed by CT DEEP and intended to be used at 1:24,000 scale.

BASE MAP DATA - Based on data originally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas® copyrighted data. Base map information is neither current nor complete.

RELATED INFORMATION
This map is intended to be printed at its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet).
WATER QUALITY STANDARDS - Go to the CT DEEP website for a summary and the full text of the "Water Quality Standards" and for other information on water quality.
AQUIFER PROTECTION AREAS - Go to the CT DEEP website for more information.

ADOPTED DATES

Water Quality Standards
February 25, 2011

Thames River, Pawcatuck River and Southeast Coastal Basins: December 1986

Connecticut River and South Central Coastal Basins: February 1993

Housatonic River, Hudson River and Southwest Coastal Basins: March 1999

MAJOR BASINS

1 Pawcatuck
2 Southeast Coast
3 Thames
4 Connecticut
5 South Central Coast
6 Housatonic
7 Southwest Coast
8 Hudson

MAP LOCATION

State Plane Coordinate System of 1983. Zone 3526
Lambert Conformal Conic Projection
North American Datum of 1983

0.5 0 1 Miles
1000 0 1000 2000 3000 4000 5000 6000 7000 Feet
0.5 0 1 Kilometers

SCALE 1:24,000 (1 inch = 2000 feet) when map is printed at original size

STATE OF CONNECTICUT
DEPARTMENT OF
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127

Map created by CT DEEP
October 2018

Map is not colorfast
Protect from light and moisture

Aquifer Protection Area Mapping

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AQUIFER PROTECTION AREAS

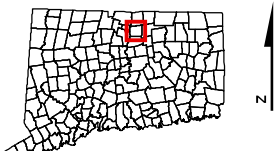
East Windsor, CT

August 26, 2019

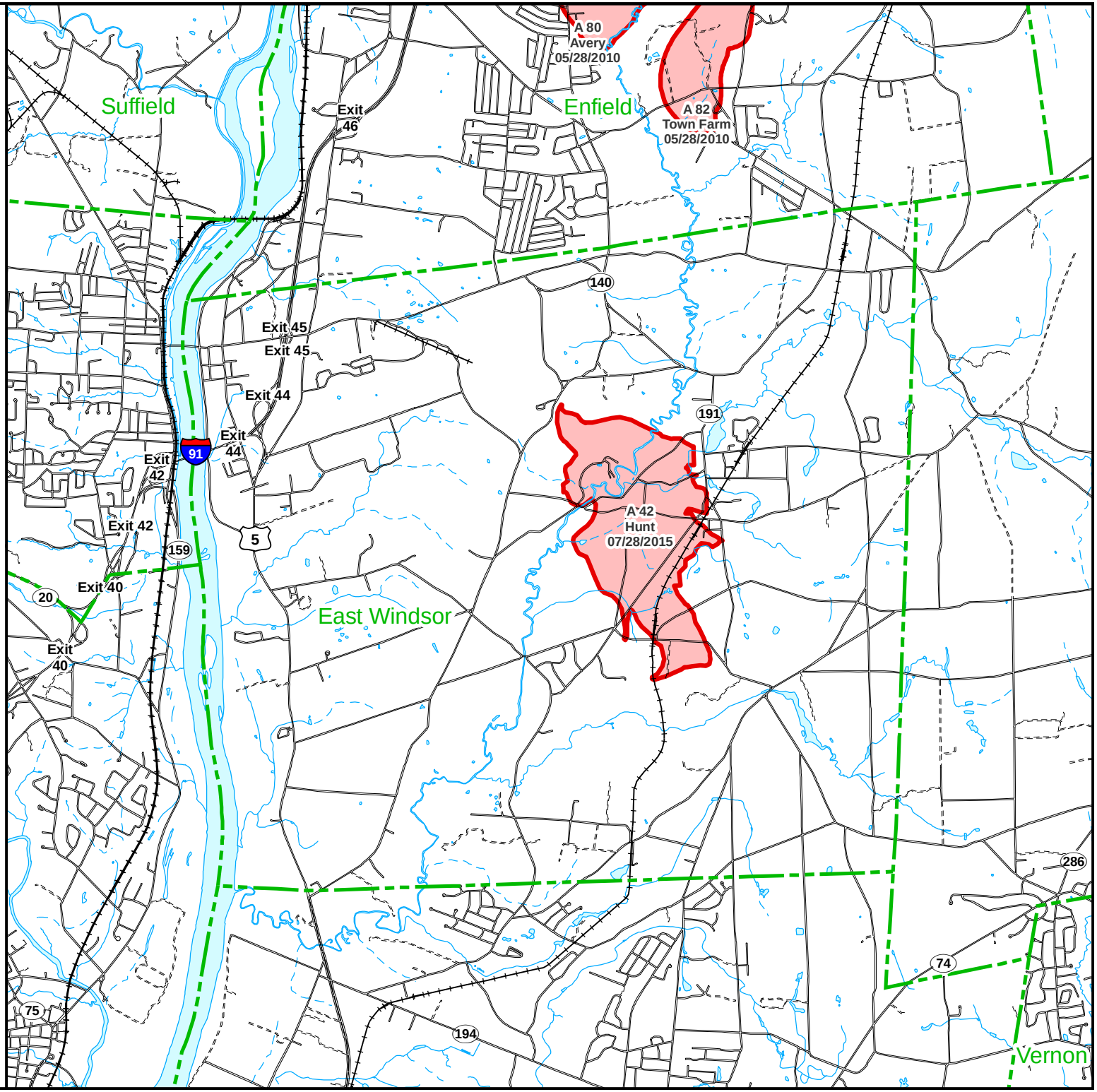
- Level A APA (Final Adopted)
- Level A APA (Final)
- Level B APA (Preliminary)
- Town Boundary

NOTE: The Aquifer Protection Areas were delineated through Connecitcut's Level A and Level B Mapping Processes. Aquifer Protection Areas are delineated for active public water supply wells in stratified drift that serve more than 1000 people, in accordance with Sections 22a-354c and 22a-354z of the Connecticut General Statutes. Level B Mapping delineates a preliminary aquifer protection area, providing an estimate of the land area from which the well draws its water. Level A Mapping delineates the final Aquifer Protection Area, which becomes the regulatory boundary for land use controls designed to protect the well from contamination. As Level A Mapping is completed for each well field and approved by DEEP, it replaces the Level B Mapping. Final Adopted Level A Areas are those where towns have land use regulations for them. Masschusetts and Rhode Island Wellhead Protection Areas may be shown for informational purposes.

QUESTIONS:
Bureau of Water Protection and Land Reuse
Planning and Standards Division
Phone: (860) 424-3020
www.ct.gov/deep/aquiferprotection



STATE OF CONNECTICUT
DEPARTMENT OF
ENERGY & ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, CT 06106-5127



Appendix B:
NRCS Soil Survey Information

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NRCS Soil Survey Information

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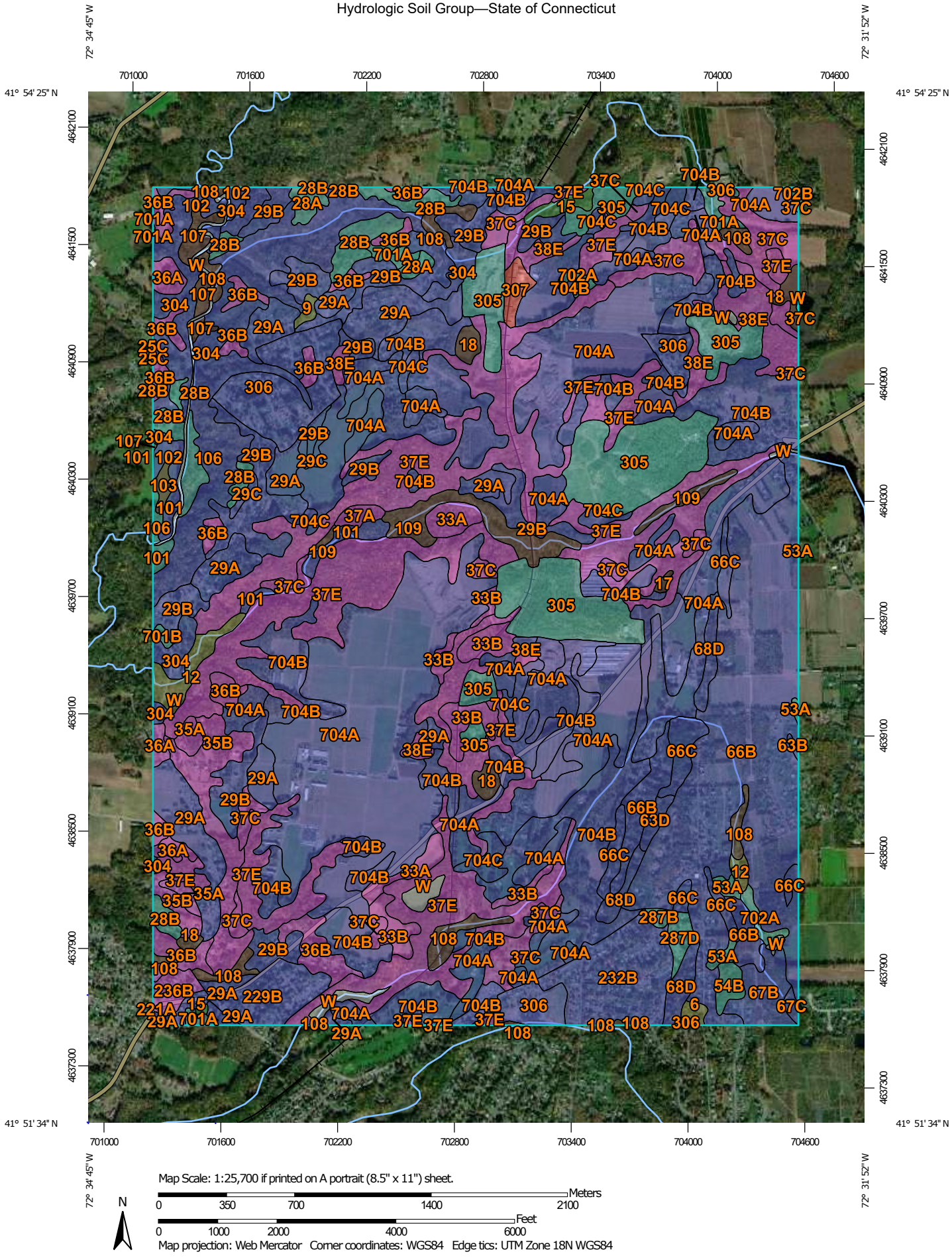
Hydrologic Soil Group—State of Connecticut



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: State of Connecticut
Survey Area Data: Version 19, Sep 13, 2019

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

Date(s) aerial images were photographed: Aug 27, 2016—Oct 30, 2017

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
6	Wilbraham and Menlo soils, 0 to 8 percent slopes, extremely stony	C/D	3.0	0.1%
9	Scitico, Shaker, and Maybid soils	C/D	2.5	0.1%
12	Raypol silt loam	C/D	17.5	0.5%
15	Scarboro muck, 0 to 3 percent slopes	A/D	6.6	0.2%
17	Timakwa and Natchaug soils, 0 to 2 percent slopes	B/D	1.4	0.0%
18	Catden and Freetown soils, 0 to 2 percent slopes	B/D	17.3	0.5%
25C	Brancroft silt loam, 8 to 15 percent slopes	C	0.1	0.0%
28A	Elmridge fine sandy loam, 0 to 3 percent slopes	C	10.0	0.3%
28B	Elmridge fine sandy loam, 3 to 8 percent slopes	C	40.7	1.2%
29A	Agawam fine sandy loam, 0 to 3 percent slopes	B	128.5	3.6%
29B	Agawam fine sandy loam, 3 to 8 percent slopes	B	150.1	4.3%
29C	Agawam fine sandy loam, 8 to 15 percent slopes	B	6.4	0.2%
33A	Hartford sandy loam, 0 to 3 percent slopes	A	19.0	0.5%
33B	Hartford sandy loam, 3 to 8 percent slopes	A	39.7	1.1%
35A	Penwood loamy sand, 0 to 3 percent slopes	A	8.6	0.2%
35B	Penwood loamy sand, 3 to 8 percent slopes	A	53.2	1.5%
36A	Windsor loamy sand, 0 to 3 percent slopes	A	13.9	0.4%
36B	Windsor loamy sand, 3 to 8 percent slopes	A	67.5	1.9%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
37A	Manchester gravelly sandy loam, 0 to 3 percent slopes	A	5.0	0.1%
37C	Manchester gravelly sandy loam, 3 to 15 percent slopes	A	90.9	2.6%
37E	Manchester gravelly sandy loam, 15 to 45 percent slopes	A	470.8	13.4%
38E	Hinckley loamy sand, 15 to 45 percent slopes	A	51.6	1.5%
53A	Wapping very fine sandy loam, 0 to 3 percent slopes	C	6.6	0.2%
54B	Wapping very fine sandy loam, 2 to 8 percent slopes, very stony	C	6.7	0.2%
63B	Cheshire fine sandy loam, 3 to 8 percent slopes	B	0.9	0.0%
63D	Cheshire fine sandy loam, 15 to 25 percent slopes	B	5.2	0.1%
66B	Narragansett silt loam, 2 to 8 percent slopes	B	315.5	9.0%
66C	Narragansett silt loam, 8 to 15 percent slopes	B	33.5	1.0%
67B	Narragansett silt loam, 3 to 8 percent slopes, very stony	B	21.5	0.6%
67C	Narragansett silt loam, 8 to 15 percent slopes, very stony	B	2.3	0.1%
68D	Narragansett silt loam, 15 to 25 percent slopes, extremely stony	B	24.4	0.7%
101	Occum fine sandy loam	B	14.8	0.4%
102	Pootatuck fine sandy loam	B	13.4	0.4%
103	Rippowam fine sandy loam	B/D	3.8	0.1%
106	Winooski silt loam	C	13.7	0.4%
107	Limerick and Lim soils	B/D	12.6	0.4%
108	Saco silt loam	B/D	32.9	0.9%
109	Fluvaquents-Udifluvents complex, frequently flooded	B/D	36.1	1.0%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
221A	Ninigret-Urban land complex, 0 to 5 percent slopes	B	0.6	0.0%
229B	Agawam-Urban land complex, 0 to 8 percent slopes	B	34.7	1.0%
232B	Haven-Urban land complex, 0 to 8 percent slopes	B	63.9	1.8%
236B	Windsor-Urban land complex, 0 to 8 percent slopes	A	10.0	0.3%
287B	Wethersfield-Urban land complex, 3 to 8 percent slopes	C	2.5	0.1%
287D	Wethersfield-Urban land complex, 15 to 25 percent slopes	C	7.2	0.2%
304	Udorthents, loamy, very steep	B	190.4	5.4%
305	Udorthents-Pits complex, gravelly	C	189.8	5.4%
306	Udorthents-Urban land complex	B	82.2	2.3%
307	Urban land	D	7.9	0.2%
701A	Ninigret fine sandy loam, 0 to 3 percent slopes	C	13.3	0.4%
701B	Ninigret fine sandy loam, 3 to 8 percent slopes	C	1.7	0.0%
702A	Tisbury silt loam, 0 to 3 percent slopes	C	8.1	0.2%
702B	Tisbury silt loam, 3 to 8 percent slopes	C	0.9	0.0%
704A	Enfield silt loam, 0 to 3 percent slopes	B	647.3	18.4%
704B	Enfield silt loam, 3 to 8 percent slopes	B	445.5	12.6%
704C	Enfield silt loam, 8 to 15 percent slopes	B	47.4	1.3%
W	Water		22.2	0.6%
Totals for Area of Interest			**3,523.6**	**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

Appendix C:

- Erosion and Sedimentation Control Checklist
- Long Term Stormwater Operation and Maintenance Measures

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Erosion and Sedimentation Control Checklist

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Gravel Pit Solar – East Windsor, CT – Windsorville Road & Plantation Road

Best Management Practices – Maintenance/ Evaluation Checklist

Construction Practices

Best Management Practice	Inspection Frequency	Date Inspected	Inspector	Minimum Maintenance and Key Items to Check	Cleaning/Repair Needed ☐yes ☐no (List Items)	Date of Cleaning/Repair	Performed by
Silt Fencing	Once per week or after a 0.5″ or greater storm event						
Compost Filter Sock	Once per week or after a 0.5″ or greater storm event						
Straw Wattles	Once per week or after a 0.5″ or greater storm event						
Stabilized Construction Exit	Once per week or after a 0.5″ or greater storm event						
Temporary Sediment Trap/Basin & Diversion Swales	Once per week or after a 0.5″ or greater storm event						
Vegetated Slope Stabilization	Once per week or after a 0.5″ or greater storm event						
Energy Dissipators	Once per week or after a 0.5″ or greater storm event						

Stormwater Control Manager _____

Long Term Stormwater Operation and Maintenance Measures

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Project Information

Site

Project Name:	Gravel Pit Solar
Address or Locus:	Windsorville Road & Plantation Road
City, State & Zip:	East Windsor, CT 06016

Developer

Client Name:	Gravel Pit Solar, LLC
Client Address:	1166 Avenue of the Americas, 9th Floor
Client City, State & Zip:	New York, NY 10036
Client Telephone No.:	
Client Cell Phone:	(207) 233-3644
Client E-Mail:	aaron@nleservices.com

Site Supervisor

Site Manager Name:	To be determined
Site Manager Address:	
Site Manager City, State & Zip:	
Site Manager Telephone No.:	
Site Manager Cell Phone:	
Site Manager E-Mail:	

Gravel Pit Solar – East Windsor, CT – Windsorville Road & Plantation Road

Best Management Practices – Maintenance/ Evaluation Checklist

Long Term Practices

Best Management Practice	Inspection Frequency	Date Inspected	Inspector	Minimum Maintenance and Key Items to Check	Cleaning/Repair Needed ☐yes ☐no (List Items)	Date of Cleaning/Repair	Performed by
Trash/Litter	Routinely pick up and remove litter from entire property as required.						
Vegetated Areas	Inspect bi-annually. Replant bare areas upon identification.						
Energy Dissipators	Inspect monthly for the first 3 months and after any rain event exceeding 0.5″. Inspect 2x per year thereafter.						
Diversion Swales	Inspect monthly for the first 3 months and after any rain event exceeding 0.5″. Inspect 2x per year thereafter.						
Infiltration Basin	Inspect monthly for the first 3 months and after any rain event exceeding 0.5″. Inspect 2x per year thereafter.						

Stormwater Control Manager _____

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Appendix D:

- HydroCAD: Existing Conditions
- HydroCAD: Proposed Conditions

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HydroCAD Analysis: Existing Conditions

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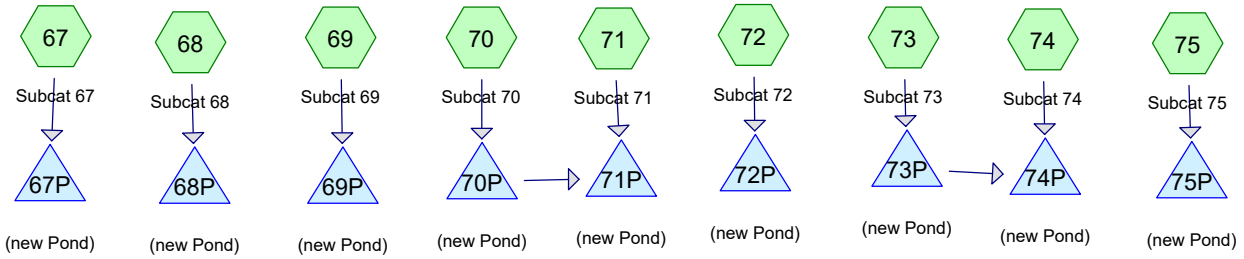


Subcat Reach Pond Link

Routing Diagram for Exisiting Conditions - Windsorville
Prepared by VHB, Printed 7/22/2020

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.000	0	, HSG B (72)
0.000	0	, HSG C (72, 74)
0.210	70	1/2 acre lots, 25% imp, HSG B (72)
1.640	49	50-75% Grass cover, Fair, HSG A (74, 75)
6.478	69	50-75% Grass cover, Fair, HSG B (74, 75)
4.061	79	50-75% Grass cover, Fair, HSG C (74)
10.203	39	>75% Grass cover, Good, HSG A (74)
11.877	61	>75% Grass cover, Good, HSG B (74)
11.563	74	>75% Grass cover, Good, HSG C (74)
1.440	35	Brush, Fair, HSG A (74, 75)
0.093	56	Brush, Fair, HSG B (74, 75)
5.348	70	Brush, Fair, HSG C (73, 74, 75)
14.115	77	Fallow, bare soil, HSG A (74, 75)
31.311	86	Fallow, bare soil, HSG B (67, 68, 74, 75)
11.233	91	Fallow, bare soil, HSG C (72, 73, 74)
0.103	83	Paved roads w/open ditches, 50% imp, HSG A (71)
2.527	89	Paved roads w/open ditches, 50% imp, HSG B (67, 68, 69, 71, 72)
0.236	92	Paved roads w/open ditches, 50% imp, HSG C (72)
0.298	67	Row crops, straight row, Good, HSG A (68, 69, 70, 73)
24.451	78	Row crops, straight row, Good, HSG B (67, 68, 69, 70, 71, 73, 75)
13.272	36	Woods, Fair, HSG A (68, 69, 70, 71, 73, 74, 75)
19.322	60	Woods, Fair, HSG B (67, 68, 69, 70, 71, 72, 73, 74, 75)
36.001	73	Woods, Fair, HSG C (71, 72, 73, 74, 75)
205.781	**71**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
41.071	HSG A	68, 69, 70, 71, 73, 74, 75
96.267	HSG B	67, 68, 69, 70, 71, 72, 73, 74, 75
68.443	HSG C	71, 72, 73, 74, 75
0.000	HSG D	
0.000	Other	
205.781		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatch Numbers
0.000	0.000	0.000	0.000	0.000	0.000		
0.000	0.210	0.000	0.000	0.000	0.210	1/2 acre lots, 25% imp	
1.640	6.478	4.061	0.000	0.000	12.179	50-75% Grass cover, Fair	
10.203	11.877	11.563	0.000	0.000	33.643	>75% Grass cover, Good	
1.440	0.093	5.348	0.000	0.000	6.881	Brush, Fair	
14.115	31.311	11.233	0.000	0.000	56.659	Fallow, bare soil	
0.103	2.527	0.236	0.000	0.000	2.865	Paved roads w/open ditches, 50% imp	
0.298	24.451	0.000	0.000	0.000	24.749	Row crops, straight row, Good	
13.272	19.322	36.001	0.000	0.000	68.594	Woods, Fair	
41.071	**96.267**	**68.443**	**0.000**	**0.000**	**205.781**	**TOTAL AREA**	

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment67: Subcat 67 Runoff Area=2.473 ac 5.83% Impervious Runoff Depth>0.77"
Flow Length=286' Tc=10.4 min CN=71 Runoff=1.91 cfs 0.159 af

Subcatchment68: Subcat 68 Runoff Area=21.623 ac 2.26% Impervious Runoff Depth>0.68"
Flow Length=931' Tc=21.4 min CN=69 Runoff=10.88 cfs 1.218 af

Subcatchment69: Subcat 69 Runoff Area=6.832 ac 3.28% Impervious Runoff Depth>0.48"
Flow Length=664' Tc=10.8 min CN=64 Runoff=2.65 cfs 0.271 af

Subcatchment70: Subcat 70 Runoff Area=3.224 ac 0.00% Impervious Runoff Depth>0.87"
Flow Length=425' Tc=10.2 min CN=73 Runoff=2.89 cfs 0.233 af

Subcatchment71: Subcat 71 Runoff Area=8.154 ac 4.96% Impervious Runoff Depth>0.48"
Flow Length=616' Tc=15.8 min CN=64 Runoff=2.79 cfs 0.323 af

Subcatchment72: Subcat 72 Runoff Area=8.312 ac 2.69% Impervious Runoff Depth>0.72"
Flow Length=983' Tc=15.3 min CN=70 Runoff=5.15 cfs 0.501 af

Subcatchment73: Subcat 73 Runoff Area=28.689 ac 0.00% Impervious Runoff Depth>0.97"
Flow Length=1,079' Tc=21.5 min CN=75 Runoff=22.25 cfs 2.315 af

Subcatchment74: Subcat 74 Runoff Area=74.807 ac 0.00% Impervious Runoff Depth>0.59"
Flow Length=2,328' Tc=35.2 min CN=67 Runoff=25.61 cfs 3.653 af

Subcatchment75: Subcat 75 Runoff Area=51.667 ac 0.00% Impervious Runoff Depth>1.02"
Flow Length=1,192' Tc=16.5 min CN=76 Runoff=47.30 cfs 4.412 af

Pond 67P: (new Pond) Peak Elev=172.71' Storage=6,915 cf Inflow=1.91 cfs 0.159 af
Outflow=0.00 cfs 0.000 af

Pond 68P: (new Pond) Peak Elev=174.83' Storage=52,987 cf Inflow=10.88 cfs 1.218 af
Outflow=0.00 cfs 0.000 af

Pond 69P: (new Pond) Peak Elev=171.46' Storage=11,810 cf Inflow=2.65 cfs 0.271 af
Outflow=0.00 cfs 0.000 af

Pond 70P: (new Pond) Peak Elev=198.25' Storage=10,161 cf Inflow=2.89 cfs 0.233 af
Outflow=0.00 cfs 0.000 af

Pond 71P: (new Pond) Peak Elev=178.16' Storage=14,054 cf Inflow=2.79 cfs 0.323 af
Outflow=0.00 cfs 0.000 af

Pond 72P: (new Pond) Peak Elev=174.81' Storage=21,784 cf Inflow=5.15 cfs 0.501 af
Outflow=0.00 cfs 0.000 af

Pond 73P: (new Pond) Peak Elev=153.36' Storage=100,746 cf Inflow=22.25 cfs 2.315 af
Outflow=0.00 cfs 0.000 af

Pond 74P: (new Pond) Peak Elev=124.21' Storage=158,962 cf Inflow=25.61 cfs 3.653 af
Outflow=0.00 cfs 0.000 af

Pond 75P: (new Pond) Peak Elev=124.47' Storage=192,042 cf Inflow=47.30 cfs 4.412 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 205.781 ac Runoff Volume = 13.085 af Average Runoff Depth = 0.76"
99.28% Pervious = 204.296 ac 0.72% Impervious = 1.485 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment67: Subcat 67 Runoff Area=2.473 ac 5.83% Impervious Runoff Depth>2.82"
Flow Length=286' Tc=10.4 min CN=71 Runoff=7.52 cfs 0.581 af

Subcatchment68: Subcat 68 Runoff Area=21.623 ac 2.26% Impervious Runoff Depth>2.63"
Flow Length=931' Tc=21.4 min CN=69 Runoff=46.87 cfs 4.732 af

Subcatchment69: Subcat 69 Runoff Area=6.832 ac 3.28% Impervious Runoff Depth>2.19"
Flow Length=664' Tc=10.8 min CN=64 Runoff=15.77 cfs 1.249 af

Subcatchment70: Subcat 70 Runoff Area=3.224 ac 0.00% Impervious Runoff Depth>3.01"
Flow Length=425' Tc=10.2 min CN=73 Runoff=10.51 cfs 0.808 af

Subcatchment71: Subcat 71 Runoff Area=8.154 ac 4.96% Impervious Runoff Depth>2.19"
Flow Length=616' Tc=15.8 min CN=64 Runoff=16.33 cfs 1.488 af

Subcatchment72: Subcat 72 Runoff Area=8.312 ac 2.69% Impervious Runoff Depth>2.72"
Flow Length=983' Tc=15.3 min CN=70 Runoff=21.36 cfs 1.887 af

Subcatchment73: Subcat 73 Runoff Area=28.689 ac 0.00% Impervious Runoff Depth>3.19"
Flow Length=1,079' Tc=21.5 min CN=75 Runoff=75.42 cfs 7.621 af

Subcatchment74: Subcat 74 Runoff Area=74.807 ac 0.00% Impervious Runoff Depth>2.43"
Flow Length=2,328' Tc=35.2 min CN=67 Runoff=120.79 cfs 15.168 af

Subcatchment75: Subcat 75 Runoff Area=51.667 ac 0.00% Impervious Runoff Depth>3.29"
Flow Length=1,192' Tc=16.5 min CN=76 Runoff=155.15 cfs 14.166 af

Pond 67P: (new Pond) Peak Elev=173.70' Storage=25,307 cf Inflow=7.52 cfs 0.581 af
Outflow=0.00 cfs 0.000 af

Pond 68P: (new Pond) Peak Elev=175.92' Storage=206,003 cf Inflow=46.87 cfs 4.732 af
Outflow=0.00 cfs 0.000 af

Pond 69P: (new Pond) Peak Elev=173.77' Storage=54,384 cf Inflow=15.77 cfs 1.249 af
Outflow=0.00 cfs 0.000 af

Pond 70P: (new Pond) Peak Elev=198.49' Storage=17,111 cf Inflow=10.51 cfs 0.808 af
Outflow=3.60 cfs 0.472 af

Pond 71P: (new Pond) Peak Elev=179.38' Storage=48,054 cf Inflow=16.25 cfs 1.960 af
Outflow=3.14 cfs 0.898 af

Pond 72P: (new Pond) Peak Elev=178.70' Storage=82,127 cf Inflow=21.36 cfs 1.887 af
Outflow=0.00 cfs 0.000 af

Pond 73P: (new Pond) Peak Elev=154.40' Storage=180,807 cf Inflow=75.42 cfs 7.621 af
Outflow=20.19 cfs 4.103 af

Pond 74P: (new Pond) Peak Elev=127.95' Storage=838,716 cf Inflow=126.11 cfs 19.271 af
Outflow=0.00 cfs 0.000 af

Pond 75P: (new Pond) Peak Elev=130.43' Storage=616,698 cf Inflow=155.15 cfs 14.166 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 205.781 ac Runoff Volume = 47.701 af Average Runoff Depth = 2.78"
99.28% Pervious = 204.296 ac 0.72% Impervious = 1.485 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment67: Subcat 67 Runoff Area=2.473 ac 5.83% Impervious Runoff Depth>3.48"
Flow Length=286' Tc=10.4 min CN=71 Runoff=9.26 cfs 0.717 af

Subcatchment68: Subcat 68 Runoff Area=21.623 ac 2.26% Impervious Runoff Depth>3.26"
Flow Length=931' Tc=21.4 min CN=69 Runoff=58.32 cfs 5.876 af

Subcatchment69: Subcat 69 Runoff Area=6.832 ac 3.28% Impervious Runoff Depth>2.78"
Flow Length=664' Tc=10.8 min CN=64 Runoff=20.14 cfs 1.582 af

Subcatchment70: Subcat 70 Runoff Area=3.224 ac 0.00% Impervious Runoff Depth>3.68"
Flow Length=425' Tc=10.2 min CN=73 Runoff=12.84 cfs 0.990 af

Subcatchment71: Subcat 71 Runoff Area=8.154 ac 4.96% Impervious Runoff Depth>2.77"
Flow Length=616' Tc=15.8 min CN=64 Runoff=20.87 cfs 1.884 af

Subcatchment72: Subcat 72 Runoff Area=8.312 ac 2.69% Impervious Runoff Depth>3.37"
Flow Length=983' Tc=15.3 min CN=70 Runoff=26.45 cfs 2.334 af

Subcatchment73: Subcat 73 Runoff Area=28.689 ac 0.00% Impervious Runoff Depth>3.88"
Flow Length=1,079' Tc=21.5 min CN=75 Runoff=91.45 cfs 9.269 af

Subcatchment74: Subcat 74 Runoff Area=74.807 ac 0.00% Impervious Runoff Depth>3.05"
Flow Length=2,328' Tc=35.2 min CN=67 Runoff=151.69 cfs 18.983 af

Subcatchment75: Subcat 75 Runoff Area=51.667 ac 0.00% Impervious Runoff Depth>3.99"
Flow Length=1,192' Tc=16.5 min CN=76 Runoff=187.39 cfs 17.173 af

Pond 67P: (new Pond) Peak Elev=173.93' Storage=31,194 cf Inflow=9.26 cfs 0.717 af
Outflow=0.00 cfs 0.000 af

Pond 68P: (new Pond) Peak Elev=176.17' Storage=255,813 cf Inflow=58.32 cfs 5.876 af
Outflow=0.00 cfs 0.000 af

Pond 69P: (new Pond) Peak Elev=174.35' Storage=68,873 cf Inflow=20.14 cfs 1.582 af
Outflow=0.00 cfs 0.000 af

Pond 70P: (new Pond) Peak Elev=198.54' Storage=18,425 cf Inflow=12.84 cfs 0.990 af
Outflow=6.24 cfs 0.652 af

Pond 71P: (new Pond) Peak Elev=179.46' Storage=50,730 cf Inflow=24.88 cfs 2.536 af
Outflow=8.37 cfs 1.471 af

Pond 72P: (new Pond) Peak Elev=179.58' Storage=101,596 cf Inflow=26.45 cfs 2.334 af
Outflow=0.00 cfs 0.000 af

Pond 73P: (new Pond) Peak Elev=154.58' Storage=199,832 cf Inflow=91.45 cfs 9.269 af
Outflow=36.20 cfs 5.734 af

Pond 74P: (new Pond) Peak Elev=128.49' Storage=1,075,871 cf Inflow=178.58 cfs 24.717 af
Outflow=0.00 cfs 0.000 af

Pond 75P: (new Pond) Peak Elev=131.84' Storage=747,654 cf Inflow=187.39 cfs 17.173 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 205.781 ac Runoff Volume = 58.808 af Average Runoff Depth = 3.43"
99.28% Pervious = 204.296 ac 0.72% Impervious = 1.485 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment67: Subcat 67 Runoff Area=2.473 ac 5.83% Impervious Runoff Depth>4.24"
Flow Length=286' Tc=10.4 min CN=71 Runoff=11.26 cfs 0.873 af

Subcatchment68: Subcat 68 Runoff Area=21.623 ac 2.26% Impervious Runoff Depth>4.00"
Flow Length=931' Tc=21.4 min CN=69 Runoff=71.49 cfs 7.207 af

Subcatchment69: Subcat 69 Runoff Area=6.832 ac 3.28% Impervious Runoff Depth>3.47"
Flow Length=664' Tc=10.8 min CN=64 Runoff=25.23 cfs 1.974 af

Subcatchment70: Subcat 70 Runoff Area=3.224 ac 0.00% Impervious Runoff Depth>4.46"
Flow Length=425' Tc=10.2 min CN=73 Runoff=15.49 cfs 1.199 af

Subcatchment71: Subcat 71 Runoff Area=8.154 ac 4.96% Impervious Runoff Depth>3.46"
Flow Length=616' Tc=15.8 min CN=64 Runoff=26.28 cfs 2.352 af

Subcatchment72: Subcat 72 Runoff Area=8.312 ac 2.69% Impervious Runoff Depth>4.12"
Flow Length=983' Tc=15.3 min CN=70 Runoff=32.30 cfs 2.853 af

Subcatchment73: Subcat 73 Runoff Area=28.689 ac 0.00% Impervious Runoff Depth>4.67"
Flow Length=1,079' Tc=21.5 min CN=75 Runoff=109.64 cfs 11.163 af

Subcatchment74: Subcat 74 Runoff Area=74.807 ac 0.00% Impervious Runoff Depth>3.76"
Flow Length=2,328' Tc=35.2 min CN=67 Runoff=187.46 cfs 23.444 af

Subcatchment75: Subcat 75 Runoff Area=51.667 ac 0.00% Impervious Runoff Depth>4.79"
Flow Length=1,192' Tc=16.5 min CN=76 Runoff=224.70 cfs 20.621 af

Pond 67P: (new Pond) Peak Elev=174.18' Storage=38,011 cf Inflow=11.26 cfs 0.873 af
Outflow=0.00 cfs 0.000 af

Pond 68P: (new Pond) Peak Elev=176.44' Storage=313,741 cf Inflow=71.49 cfs 7.207 af
Outflow=0.00 cfs 0.000 af

Pond 69P: (new Pond) Peak Elev=174.97' Storage=85,938 cf Inflow=25.23 cfs 1.974 af
Outflow=0.00 cfs 0.000 af

Pond 70P: (new Pond) Peak Elev=198.58' Storage=19,889 cf Inflow=15.49 cfs 1.199 af
Outflow=9.61 cfs 0.860 af

Pond 71P: (new Pond) Peak Elev=179.57' Storage=54,815 cf Inflow=34.95 cfs 3.211 af
Outflow=18.76 cfs 2.142 af

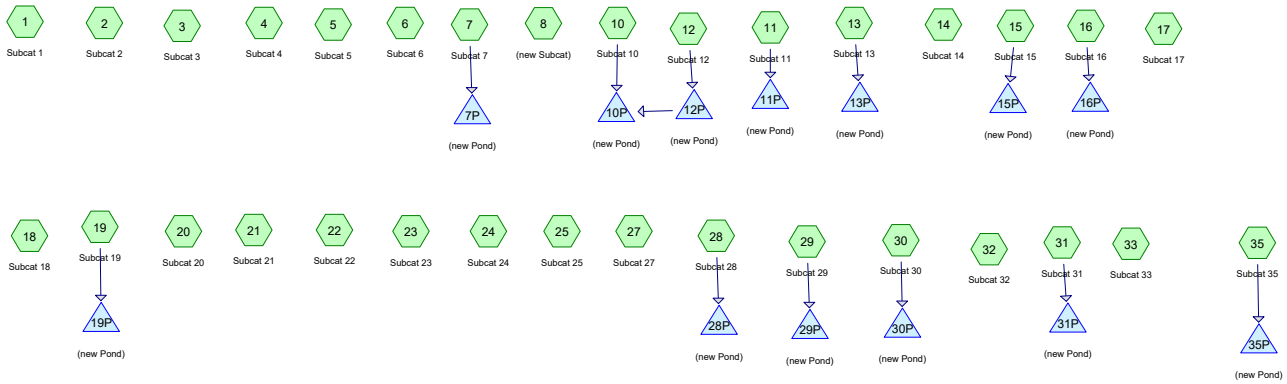
Pond 72P: (new Pond) Peak Elev=180.48' Storage=124,199 cf Inflow=32.30 cfs 2.853 af
Outflow=0.00 cfs 0.000 af

Pond 73P: (new Pond) Peak Elev=154.78' Storage=220,890 cf Inflow=109.64 cfs 11.163 af
Outflow=54.43 cfs 7.608 af

Pond 74P: (new Pond) Peak Elev=129.02' Storage=1,351,652 cf Inflow=236.61 cfs 31.052 af
Outflow=0.00 cfs 0.000 af

Pond 75P: (new Pond) Peak Elev=133.35' Storage=897,797 cf Inflow=224.70 cfs 20.621 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 205.781 ac Runoff Volume = 71.684 af Average Runoff Depth = 4.18"
99.28% Pervious = 204.296 ac 0.72% Impervious = 1.485 ac



Subcat Reach Pond Link

Routing Diagram for Exisiting Conditions - North Plantation
Prepared by VHB, Printed 7/22/2020

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.028	65	2 acre lots, 12% imp, HSG B (15)
0.440	49	50-75% Grass cover, Fair, HSG A (4, 19, 21, 28, 29, 30, 31, 32)
21.336	69	50-75% Grass cover, Fair, HSG B (4, 5, 6, 7, 10, 12, 17, 18, 19, 20, 21, 22, 25, 28, 29, 30, 31, 32, 33, 35)
1.246	56	Brush, Fair, HSG B (11, 22, 24)
4.892	77	Fallow, bare soil, HSG A (1, 2, 3, 4, 31, 32, 33, 35)
26.083	86	Fallow, bare soil, HSG B (1, 2, 3, 4, 30, 31, 32, 33, 35)
1.123	89	Paved roads w/open ditches, 50% imp, HSG B (11, 12, 13, 15, 16)
0.216	67	Row crops, straight row, Good, HSG A (6, 10, 11)
114.795	78	Row crops, straight row, Good, HSG B (4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 30)
18.481	36	Woods, Fair, HSG A (1, 2, 3, 4, 5, 6, 10, 11, 19, 20, 21, 25, 27, 28, 29, 30, 31, 32, 35)
12.099	60	Woods, Fair, HSG B (1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 16, 17, 18, 19, 20, 21, 22, 24, 25, 27, 28, 29, 33, 35)
0.080	73	Woods, Fair, HSG C (2)
200.819	**73**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
24.028	HSG A	1, 2, 3, 4, 5, 6, 10, 11, 19, 20, 21, 25, 27, 28, 29, 30, 31, 32, 33, 35
176.711	HSG B	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 32, 33, 35
0.080	HSG C	2
0.000	HSG D	
0.000	Other	
200.819		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatch Numbers
0.000	0.028	0.000	0.000	0.000	0.028	2 acre lots, 12% imp	
0.440	21.336	0.000	0.000	0.000	21.775	50-75% Grass cover, Fair	
0.000	1.246	0.000	0.000	0.000	1.246	Brush, Fair	
4.892	26.083	0.000	0.000	0.000	30.975	Fallow, bare soil	
0.000	1.123	0.000	0.000	0.000	1.123	Paved roads w/open ditches, 50% imp	
0.216	114.795	0.000	0.000	0.000	115.011	Row crops, straight row, Good	
18.481	12.099	0.080	0.000	0.000	30.661	Woods, Fair	
24.028	**176.711**	**0.080**	**0.000**	**0.000**	**200.819**	**TOTAL AREA**	

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1: Subcat 1 Runoff Area=0.863 ac 0.00% Impervious Runoff Depth>1.27"
Flow Length=247' Tc=7.9 min CN=80 Runoff=1.27 cfs 0.091 af

Subcatchment2: Subcat 2 Runoff Area=5.512 ac 0.00% Impervious Runoff Depth>0.13"
Flow Length=343' Tc=15.3 min CN=52 Runoff=0.22 cfs 0.060 af

Subcatchment3: Subcat 3 Runoff Area=2.555 ac 0.00% Impervious Runoff Depth>0.47"
Flow Length=188' Tc=18.8 min CN=64 Runoff=0.83 cfs 0.101 af

Subcatchment4: Subcat 4 Runoff Area=3.648 ac 0.00% Impervious Runoff Depth>0.48"
Flow Length=462' Tc=11.1 min CN=64 Runoff=1.41 cfs 0.145 af

Subcatchment5: Subcat 5 Runoff Area=8.688 ac 0.00% Impervious Runoff Depth>0.92"
Flow Length=790' Tc=21.9 min CN=74 Runoff=6.26 cfs 0.663 af

Subcatchment6: Subcat 6 Runoff Area=6.474 ac 0.00% Impervious Runoff Depth>0.87"
Flow Length=527' Tc=15.4 min CN=73 Runoff=5.00 cfs 0.468 af

Subcatchment7: Subcat 7 Runoff Area=17.083 ac 0.00% Impervious Runoff Depth>1.07"
Flow Length=1,407' Tc=41.0 min CN=77 Runoff=11.14 cfs 1.523 af

Subcatchment8: (new Subcat) Runoff Area=3.130 ac 0.00% Impervious Runoff Depth>0.72"
Tc=10.0 min CN=70 Runoff=2.26 cfs 0.189 af

Subcatchment10: Subcat 10 Runoff Area=3.666 ac 0.00% Impervious Runoff Depth>0.44"
Flow Length=427' Tc=12.8 min CN=63 Runoff=1.19 cfs 0.134 af

Subcatchment11: Subcat 11 Runoff Area=5.661 ac 0.85% Impervious Runoff Depth>0.28"
Flow Length=598' Tc=15.6 min CN=58 Runoff=0.84 cfs 0.131 af

Subcatchment12: Subcat 12 Runoff Area=2.699 ac 5.89% Impervious Runoff Depth>1.14"
Flow Length=374' Tc=13.9 min CN=78 Runoff=2.97 cfs 0.256 af

Subcatchment13: Subcat 13 Runoff Area=18.096 ac 1.07% Impervious Runoff Depth>1.12"
Flow Length=1,351' Tc=52.0 min CN=78 Runoff=10.96 cfs 1.692 af

Subcatchment14: Subcat 14 Runoff Area=0.597 ac 0.00% Impervious Runoff Depth>1.14"
Flow Length=270' Tc=12.6 min CN=78 Runoff=0.68 cfs 0.057 af

Subcatchment15: Subcat 15 Runoff Area=2.521 ac 4.81% Impervious Runoff Depth>1.20"
Flow Length=562' Tc=18.2 min CN=79 Runoff=2.64 cfs 0.252 af

Subcatchment16: Subcat 16 Runoff Area=4.718 ac 0.92% Impervious Runoff Depth>1.14"
Flow Length=719' Tc=24.0 min CN=78 Runoff=4.17 cfs 0.446 af

Subcatchment17: Subcat 17 Runoff Area=5.336 ac 0.00% Impervious Runoff Depth>0.97"
Flow Length=704' Tc=20.0 min CN=75 Runoff=4.26 cfs 0.431 af

Subcatchment18: Subcat 18 Runoff Area=1.751 ac 0.00% Impervious Runoff Depth>1.02"
Flow Length=422' Tc=21.6 min CN=76 Runoff=1.44 cfs 0.149 af

Subcatchment19: Subcat 19 Runoff Area=21.570 ac 0.00% Impervious Runoff Depth>0.96"
Flow Length=1,667' Tc=39.5 min CN=75 Runoff=12.72 cfs 1.726 af

Subcatchment20: Subcat 20 Runoff Area=1.629 ac 0.00% Impervious Runoff Depth>0.87"
Flow Length=544' Tc=18.7 min CN=73 Runoff=1.17 cfs 0.117 af

Subcatchment21: Subcat 21 Runoff Area=3.990 ac 0.00% Impervious Runoff Depth>0.72"
Flow Length=1,249' Tc=27.1 min CN=70 Runoff=1.98 cfs 0.239 af

Subcatchment22: Subcat 22 Runoff Area=17.726 ac 0.00% Impervious Runoff Depth>0.85"
Flow Length=2,340' Tc=55.2 min CN=73 Runoff=7.61 cfs 1.256 af

Subcatchment23: Subcat 23 Runoff Area=0.264 ac 0.00% Impervious Runoff Depth>1.14"
Flow Length=133' Tc=5.5 min CN=78 Runoff=0.37 cfs 0.025 af

Subcatchment24: Subcat 24 Runoff Area=2.795 ac 0.00% Impervious Runoff Depth>0.92"
Flow Length=746' Tc=16.2 min CN=74 Runoff=2.27 cfs 0.214 af

Subcatchment25: Subcat 25 Runoff Area=12.168 ac 0.00% Impervious Runoff Depth>1.02"
Tc=38.1 min CN=76 Runoff=7.76 cfs 1.029 af

Subcatchment27: Subcat 27 Runoff Area=2.191 ac 0.00% Impervious Runoff Depth>0.63"
Flow Length=464' Tc=19.4 min CN=68 Runoff=1.05 cfs 0.116 af

Subcatchment28: Subcat 28 Runoff Area=7.360 ac 0.00% Impervious Runoff Depth>0.28"
Flow Length=461' Tc=15.3 min CN=58 Runoff=1.09 cfs 0.171 af

Subcatchment29: Subcat 29 Runoff Area=1.626 ac 0.00% Impervious Runoff Depth=0.00"
Flow Length=167' Tc=13.2 min CN=36 Runoff=0.00 cfs 0.000 af

Subcatchment30: Subcat 30 Runoff Area=3.911 ac 0.00% Impervious Runoff Depth>0.72"
Flow Length=380' Tc=11.2 min CN=70 Runoff=2.69 cfs 0.236 af

Subcatchment31: Subcat 31 Runoff Area=3.646 ac 0.00% Impervious Runoff Depth>0.00"
Flow Length=261' Tc=7.6 min CN=41 Runoff=0.00 cfs 0.000 af

Subcatchment32: Subcat 32 Runoff Area=4.598 ac 0.00% Impervious Runoff Depth>1.68"
Tc=0.0 min CN=86 Runoff=11.15 cfs 0.645 af

Subcatchment33: Subcat 33 Runoff Area=12.509 ac 0.00% Impervious Runoff Depth>1.61"
Tc=0.0 min CN=85 Runoff=29.06 cfs 1.678 af

Subcatchment35: Subcat 35 Runoff Area=11.838 ac 0.00% Impervious Runoff Depth>1.14"
Flow Length=579' Tc=21.7 min CN=78 Runoff=10.93 cfs 1.121 af

Pond 7P: (new Pond) Peak Elev=164.35' Storage=66,271 cf Inflow=11.14 cfs 1.523 af
Outflow=0.00 cfs 0.000 af

Pond 10P: (new Pond) Peak Elev=147.73' Storage=5,844 cf Inflow=1.19 cfs 0.134 af
Outflow=0.00 cfs 0.000 af

Pond 11P: (new Pond) Peak Elev=143.18' Storage=5,718 cf Inflow=0.84 cfs 0.131 af
Outflow=0.00 cfs 0.000 af

Pond 12P: (new Pond) Peak Elev=162.44' Storage=11,163 cf Inflow=2.97 cfs 0.256 af
Outflow=0.00 cfs 0.000 af

Pond 13P: (new Pond) Peak Elev=161.55' Storage=48,154 cf Inflow=10.96 cfs 1.692 af
Outflow=2.14 cfs 0.640 af

Pond 15P: (new Pond) Peak Elev=162.96' Storage=10,959 cf Inflow=2.64 cfs 0.252 af
Outflow=0.00 cfs 0.000 af

Pond 16P: (new Pond) Peak Elev=162.72' Storage=19,435 cf Inflow=4.17 cfs 0.446 af
Outflow=0.00 cfs 0.000 af

Pond 19P: (new Pond) Peak Elev=153.23' Storage=31,899 cf Inflow=12.72 cfs 1.726 af
Outflow=5.71 cfs 1.120 af

Pond 28P: (new Pond) Peak Elev=151.79' Storage=7,432 cf Inflow=1.09 cfs 0.171 af
Outflow=0.00 cfs 0.000 af

Pond 29P: (new Pond) Peak Elev=146.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 30P: (new Pond) Peak Elev=170.04' Storage=10,273 cf Inflow=2.69 cfs 0.236 af
Outflow=0.00 cfs 0.000 af

Pond 31P: (new Pond) Peak Elev=144.03' Storage=13 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 35P: (new Pond) Peak Elev=156.02' Storage=48,798 cf Inflow=10.93 cfs 1.121 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 200.819 ac Runoff Volume = 15.362 af Average Runoff Depth = 0.92"
99.72% Pervious = 200.254 ac 0.28% Impervious = 0.565 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1: Subcat 1 Runoff Area=0.863 ac 0.00% Impervious Runoff Depth>3.70"
Flow Length=247' Tc=7.9 min CN=80 Runoff=3.68 cfs 0.266 af

Subcatchment2: Subcat 2 Runoff Area=5.512 ac 0.00% Impervious Runoff Depth>1.24"
Flow Length=343' Tc=15.3 min CN=52 Runoff=5.61 cfs 0.568 af

Subcatchment3: Subcat 3 Runoff Area=2.555 ac 0.00% Impervious Runoff Depth>2.19"
Flow Length=188' Tc=18.8 min CN=64 Runoff=4.80 cfs 0.466 af

Subcatchment4: Subcat 4 Runoff Area=3.648 ac 0.00% Impervious Runoff Depth>2.19"
Flow Length=462' Tc=11.1 min CN=64 Runoff=8.35 cfs 0.667 af

Subcatchment5: Subcat 5 Runoff Area=8.688 ac 0.00% Impervious Runoff Depth>3.09"
Flow Length=790' Tc=21.9 min CN=74 Runoff=22.00 cfs 2.238 af

Subcatchment6: Subcat 6 Runoff Area=6.474 ac 0.00% Impervious Runoff Depth>3.00"
Flow Length=527' Tc=15.4 min CN=73 Runoff=18.32 cfs 1.620 af

Subcatchment7: Subcat 7 Runoff Area=17.083 ac 0.00% Impervious Runoff Depth>3.36"
Flow Length=1,407' Tc=41.0 min CN=77 Runoff=35.39 cfs 4.783 af

Subcatchment8: (new Subcat) Runoff Area=3.130 ac 0.00% Impervious Runoff Depth>2.73"
Tc=10.0 min CN=70 Runoff=9.30 cfs 0.712 af

Subcatchment10: Subcat 10 Runoff Area=3.666 ac 0.00% Impervious Runoff Depth>2.11"
Flow Length=427' Tc=12.8 min CN=63 Runoff=7.60 cfs 0.644 af

Subcatchment11: Subcat 11 Runoff Area=5.661 ac 0.85% Impervious Runoff Depth>1.69"
Flow Length=598' Tc=15.6 min CN=58 Runoff=8.50 cfs 0.799 af

Subcatchment12: Subcat 12 Runoff Area=2.699 ac 5.89% Impervious Runoff Depth>3.49"
Flow Length=374' Tc=13.9 min CN=78 Runoff=9.14 cfs 0.785 af

Subcatchment13: Subcat 13 Runoff Area=18.096 ac 1.07% Impervious Runoff Depth>3.45"
Flow Length=1,351' Tc=52.0 min CN=78 Runoff=33.84 cfs 5.195 af

Subcatchment14: Subcat 14 Runoff Area=0.597 ac 0.00% Impervious Runoff Depth>3.49"
Flow Length=270' Tc=12.6 min CN=78 Runoff=2.10 cfs 0.174 af

Subcatchment15: Subcat 15 Runoff Area=2.521 ac 4.81% Impervious Runoff Depth>3.58"
Flow Length=562' Tc=18.2 min CN=79 Runoff=7.92 cfs 0.753 af

Subcatchment16: Subcat 16 Runoff Area=4.718 ac 0.92% Impervious Runoff Depth>3.48"
Flow Length=719' Tc=24.0 min CN=78 Runoff=12.86 cfs 1.367 af

Subcatchment17: Subcat 17 Runoff Area=5.336 ac 0.00% Impervious Runoff Depth>3.19"
Flow Length=704' Tc=20.0 min CN=75 Runoff=14.43 cfs 1.418 af

Subcatchment18: Subcat 18 Runoff Area=1.751 ac 0.00% Impervious Runoff Depth>3.28"
Flow Length=422' Tc=21.6 min CN=76 Runoff=4.73 cfs 0.479 af

Subcatchment19: Subcat 19 Runoff Area=21.570 ac 0.00% Impervious Runoff Depth>3.17"
Flow Length=1,667' Tc=39.5 min CN=75 Runoff=42.97 cfs 5.694 af

Subcatchment20: Subcat 20 Runoff Area=1.629 ac 0.00% Impervious Runoff Depth>3.00"
Flow Length=544' Tc=18.7 min CN=73 Runoff=4.27 cfs 0.407 af

Subcatchment21: Subcat 21 Runoff Area=3.990 ac 0.00% Impervious Runoff Depth>2.71"
Flow Length=1,249' Tc=27.1 min CN=70 Runoff=8.10 cfs 0.902 af

Subcatchment22: Subcat 22 Runoff Area=17.726 ac 0.00% Impervious Runoff Depth>2.96"
Flow Length=2,340' Tc=55.2 min CN=73 Runoff=27.68 cfs 4.372 af

Subcatchment23: Subcat 23 Runoff Area=0.264 ac 0.00% Impervious Runoff Depth>3.50"
Flow Length=133' Tc=5.5 min CN=78 Runoff=1.14 cfs 0.077 af

Subcatchment24: Subcat 24 Runoff Area=2.795 ac 0.00% Impervious Runoff Depth>3.10"
Flow Length=746' Tc=16.2 min CN=74 Runoff=8.00 cfs 0.722 af

Subcatchment25: Subcat 25 Runoff Area=12.168 ac 0.00% Impervious Runoff Depth>3.27"
Tc=38.1 min CN=76 Runoff=25.42 cfs 3.311 af

Subcatchment27: Subcat 27 Runoff Area=2.191 ac 0.00% Impervious Runoff Depth>2.54"
Flow Length=464' Tc=19.4 min CN=68 Runoff=4.76 cfs 0.463 af

Subcatchment28: Subcat 28 Runoff Area=7.360 ac 0.00% Impervious Runoff Depth>1.69"
Flow Length=461' Tc=15.3 min CN=58 Runoff=11.12 cfs 1.038 af

Subcatchment29: Subcat 29 Runoff Area=1.626 ac 0.00% Impervious Runoff Depth>0.27"
Flow Length=167' Tc=13.2 min CN=36 Runoff=0.15 cfs 0.037 af

Subcatchment30: Subcat 30 Runoff Area=3.911 ac 0.00% Impervious Runoff Depth>2.73"
Flow Length=380' Tc=11.2 min CN=70 Runoff=11.24 cfs 0.889 af

Subcatchment31: Subcat 31 Runoff Area=3.646 ac 0.00% Impervious Runoff Depth>0.53"
Flow Length=261' Tc=7.6 min CN=41 Runoff=1.07 cfs 0.160 af

Subcatchment32: Subcat 32 Runoff Area=4.598 ac 0.00% Impervious Runoff Depth>4.33"
Tc=0.0 min CN=86 Runoff=27.60 cfs 1.659 af

Subcatchment33: Subcat 33 Runoff Area=12.509 ac 0.00% Impervious Runoff Depth>4.22"
Tc=0.0 min CN=85 Runoff=73.68 cfs 4.403 af

Subcatchment35: Subcat 35 Runoff Area=11.838 ac 0.00% Impervious Runoff Depth>3.48"
Flow Length=579' Tc=21.7 min CN=78 Runoff=33.70 cfs 3.434 af

Pond 7P: (new Pond) Peak Elev=164.71' Storage=138,244 cf Inflow=35.39 cfs 4.783 af
Outflow=4.93 cfs 2.077 af

Pond 10P: (new Pond) Peak Elev=150.18' Storage=28,013 cf Inflow=7.60 cfs 0.644 af
Outflow=0.00 cfs 0.000 af

Pond 11P: (new Pond) Peak Elev=145.96' Storage=34,757 cf Inflow=8.50 cfs 0.799 af
Outflow=0.00 cfs 0.000 af

Pond 12P: (new Pond) Peak Elev=163.37' Storage=34,165 cf Inflow=9.14 cfs 0.785 af
Outflow=0.00 cfs 0.000 af

Pond 13P: (new Pond) Peak Elev=161.78' Storage=70,089 cf Inflow=33.84 cfs 5.195 af
Outflow=28.52 cfs 4.110 af

Pond 15P: (new Pond) Peak Elev=163.66' Storage=32,790 cf Inflow=7.92 cfs 0.753 af
Outflow=0.00 cfs 0.000 af

Pond 16P: (new Pond) Peak Elev=163.05' Storage=40,041 cf Inflow=12.86 cfs 1.367 af
Outflow=1.56 cfs 0.500 af

Pond 19P: (new Pond) Peak Elev=153.80' Storage=52,762 cf Inflow=42.97 cfs 5.694 af
Outflow=38.63 cfs 5.055 af

Pond 28P: (new Pond) Peak Elev=154.55' Storage=45,177 cf Inflow=11.12 cfs 1.038 af
Outflow=0.00 cfs 0.000 af

Pond 29P: (new Pond) Peak Elev=147.17' Storage=1,607 cf Inflow=0.15 cfs 0.037 af
Outflow=0.00 cfs 0.000 af

Pond 30P: (new Pond) Peak Elev=170.99' Storage=38,698 cf Inflow=11.24 cfs 0.889 af
Outflow=0.00 cfs 0.000 af

Pond 31P: (new Pond) Peak Elev=146.13' Storage=6,953 cf Inflow=1.07 cfs 0.160 af
Outflow=0.00 cfs 0.000 af

Pond 35P: (new Pond) Peak Elev=157.52' Storage=149,473 cf Inflow=33.70 cfs 3.434 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 200.819 ac Runoff Volume = 50.501 af Average Runoff Depth = 3.02"
99.72% Pervious = 200.254 ac 0.28% Impervious = 0.565 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1: Subcat 1 Runoff Area=0.863 ac 0.00% Impervious Runoff Depth>4.43"
Flow Length=247' Tc=7.9 min CN=80 Runoff=4.37 cfs 0.319 af

Subcatchment2: Subcat 2 Runoff Area=5.512 ac 0.00% Impervious Runoff Depth>1.67"
Flow Length=343' Tc=15.3 min CN=52 Runoff=7.98 cfs 0.768 af

Subcatchment3: Subcat 3 Runoff Area=2.555 ac 0.00% Impervious Runoff Depth>2.77"
Flow Length=188' Tc=18.8 min CN=64 Runoff=6.13 cfs 0.590 af

Subcatchment4: Subcat 4 Runoff Area=3.648 ac 0.00% Impervious Runoff Depth>2.78"
Flow Length=462' Tc=11.1 min CN=64 Runoff=10.66 cfs 0.845 af

Subcatchment5: Subcat 5 Runoff Area=8.688 ac 0.00% Impervious Runoff Depth>3.77"
Flow Length=790' Tc=21.9 min CN=74 Runoff=26.78 cfs 2.731 af

Subcatchment6: Subcat 6 Runoff Area=6.474 ac 0.00% Impervious Runoff Depth>3.68"
Flow Length=527' Tc=15.4 min CN=73 Runoff=22.39 cfs 1.983 af

Subcatchment7: Subcat 7 Runoff Area=17.083 ac 0.00% Impervious Runoff Depth>4.06"
Flow Length=1,407' Tc=41.0 min CN=77 Runoff=42.59 cfs 5.782 af

Subcatchment8: (new Subcat) Runoff Area=3.130 ac 0.00% Impervious Runoff Depth>3.38"
Tc=10.0 min CN=70 Runoff=11.51 cfs 0.880 af

Subcatchment10: Subcat 10 Runoff Area=3.666 ac 0.00% Impervious Runoff Depth>2.68"
Flow Length=427' Tc=12.8 min CN=63 Runoff=9.76 cfs 0.819 af

Subcatchment11: Subcat 11 Runoff Area=5.661 ac 0.85% Impervious Runoff Depth>2.21"
Flow Length=598' Tc=15.6 min CN=58 Runoff=11.32 cfs 1.041 af

Subcatchment12: Subcat 12 Runoff Area=2.699 ac 5.89% Impervious Runoff Depth>4.20"
Flow Length=374' Tc=13.9 min CN=78 Runoff=10.95 cfs 0.945 af

Subcatchment13: Subcat 13 Runoff Area=18.096 ac 1.07% Impervious Runoff Depth>4.15"
Flow Length=1,351' Tc=52.0 min CN=78 Runoff=40.60 cfs 6.262 af

Subcatchment14: Subcat 14 Runoff Area=0.597 ac 0.00% Impervious Runoff Depth>4.21"
Flow Length=270' Tc=12.6 min CN=78 Runoff=2.52 cfs 0.209 af

Subcatchment15: Subcat 15 Runoff Area=2.521 ac 4.81% Impervious Runoff Depth>4.31"
Flow Length=562' Tc=18.2 min CN=79 Runoff=9.46 cfs 0.905 af

Subcatchment16: Subcat 16 Runoff Area=4.718 ac 0.92% Impervious Runoff Depth>4.19"
Flow Length=719' Tc=24.0 min CN=78 Runoff=15.42 cfs 1.648 af

Subcatchment17: Subcat 17 Runoff Area=5.336 ac 0.00% Impervious Runoff Depth>3.88"
Flow Length=704' Tc=20.0 min CN=75 Runoff=17.55 cfs 1.725 af

Subcatchment18: Subcat 18 Runoff Area=1.751 ac 0.00% Impervious Runoff Depth>3.98"
Flow Length=422' Tc=21.6 min CN=76 Runoff=5.71 cfs 0.581 af

Subcatchment19: Subcat 19 Runoff Area=21.570 ac 0.00% Impervious Runoff Depth>3.85"
Flow Length=1,667' Tc=39.5 min CN=75 Runoff=52.11 cfs 6.927 af

Subcatchment20: Subcat 20 Runoff Area=1.629 ac 0.00% Impervious Runoff Depth>3.67"
Flow Length=544' Tc=18.7 min CN=73 Runoff=5.22 cfs 0.499 af

Subcatchment21: Subcat 21 Runoff Area=3.990 ac 0.00% Impervious Runoff Depth>3.36"
Flow Length=1,249' Tc=27.1 min CN=70 Runoff=10.02 cfs 1.115 af

Subcatchment22: Subcat 22 Runoff Area=17.726 ac 0.00% Impervious Runoff Depth>3.63"
Flow Length=2,340' Tc=55.2 min CN=73 Runoff=33.86 cfs 5.355 af

Subcatchment23: Subcat 23 Runoff Area=0.264 ac 0.00% Impervious Runoff Depth>4.21"
Flow Length=133' Tc=5.5 min CN=78 Runoff=1.37 cfs 0.093 af

Subcatchment24: Subcat 24 Runoff Area=2.795 ac 0.00% Impervious Runoff Depth>3.78"
Flow Length=746' Tc=16.2 min CN=74 Runoff=9.74 cfs 0.880 af

Subcatchment25: Subcat 25 Runoff Area=12.168 ac 0.00% Impervious Runoff Depth>3.96"
Tc=38.1 min CN=76 Runoff=30.73 cfs 4.015 af

Subcatchment27: Subcat 27 Runoff Area=2.191 ac 0.00% Impervious Runoff Depth>3.16"
Flow Length=464' Tc=19.4 min CN=68 Runoff=5.97 cfs 0.578 af

Subcatchment28: Subcat 28 Runoff Area=7.360 ac 0.00% Impervious Runoff Depth>2.21"
Flow Length=461' Tc=15.3 min CN=58 Runoff=14.81 cfs 1.353 af

Subcatchment29: Subcat 29 Runoff Area=1.626 ac 0.00% Impervious Runoff Depth>0.47"
Flow Length=167' Tc=13.2 min CN=36 Runoff=0.36 cfs 0.064 af

Subcatchment30: Subcat 30 Runoff Area=3.911 ac 0.00% Impervious Runoff Depth>3.37"
Flow Length=380' Tc=11.2 min CN=70 Runoff=13.91 cfs 1.100 af

Subcatchment31: Subcat 31 Runoff Area=3.646 ac 0.00% Impervious Runoff Depth>0.81"
Flow Length=261' Tc=7.6 min CN=41 Runoff=2.20 cfs 0.245 af

Subcatchment32: Subcat 32 Runoff Area=4.598 ac 0.00% Impervious Runoff Depth>5.09"
Tc=0.0 min CN=86 Runoff=32.19 cfs 1.952 af

Subcatchment33: Subcat 33 Runoff Area=12.509 ac 0.00% Impervious Runoff Depth>4.98"
Tc=0.0 min CN=85 Runoff=86.17 cfs 5.196 af

Subcatchment35: Subcat 35 Runoff Area=11.838 ac 0.00% Impervious Runoff Depth>4.19"
Flow Length=579' Tc=21.7 min CN=78 Runoff=40.41 cfs 4.137 af

Pond 7P: (new Pond) Peak Elev=164.79' Storage=155,819 cf Inflow=42.59 cfs 5.782 af
Outflow=8.07 cfs 3.013 af

Pond 10P: (new Pond) Peak Elev=150.84' Storage=37,490 cf Inflow=9.76 cfs 0.862 af
Outflow=0.00 cfs 0.000 af

Pond 11P: (new Pond) Peak Elev=146.66' Storage=45,298 cf Inflow=11.32 cfs 1.041 af
Outflow=0.00 cfs 0.000 af

Pond 12P: (new Pond) Peak Elev=163.53' Storage=39,314 cf Inflow=10.95 cfs 0.945 af
Outflow=0.24 cfs 0.043 af

Pond 13P: (new Pond) Peak Elev=161.83' Storage=75,112 cf Inflow=40.60 cfs 6.262 af
Outflow=35.97 cfs 5.169 af

Pond 15P: (new Pond) Peak Elev=163.81' Storage=39,386 cf Inflow=9.46 cfs 0.905 af
Outflow=0.00 cfs 0.000 af

Pond 16P: (new Pond) Peak Elev=163.09' Storage=42,823 cf Inflow=15.42 cfs 1.648 af
Outflow=3.54 cfs 0.777 af

Pond 19P: (new Pond) Peak Elev=153.92' Storage=57,779 cf Inflow=52.11 cfs 6.927 af
Outflow=47.33 cfs 6.280 af

Pond 28P: (new Pond) Peak Elev=155.13' Storage=58,912 cf Inflow=14.81 cfs 1.353 af
Outflow=0.00 cfs 0.000 af

Pond 29P: (new Pond) Peak Elev=147.74' Storage=2,786 cf Inflow=0.36 cfs 0.064 af
Outflow=0.00 cfs 0.000 af

Pond 30P: (new Pond) Peak Elev=171.20' Storage=47,872 cf Inflow=13.91 cfs 1.100 af
Outflow=0.00 cfs 0.000 af

Pond 31P: (new Pond) Peak Elev=146.63' Storage=10,635 cf Inflow=2.20 cfs 0.245 af
Outflow=0.00 cfs 0.000 af

Pond 35P: (new Pond) Peak Elev=157.82' Storage=180,107 cf Inflow=40.41 cfs 4.137 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 200.819 ac Runoff Volume = 61.542 af Average Runoff Depth = 3.68"
99.72% Pervious = 200.254 ac 0.28% Impervious = 0.565 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1: Subcat 1 Runoff Area=0.863 ac 0.00% Impervious Runoff Depth>5.26"
Flow Length=247' Tc=7.9 min CN=80 Runoff=5.15 cfs 0.378 af

Subcatchment2: Subcat 2 Runoff Area=5.512 ac 0.00% Impervious Runoff Depth>2.21"
Flow Length=343' Tc=15.3 min CN=52 Runoff=10.87 cfs 1.014 af

Subcatchment3: Subcat 3 Runoff Area=2.555 ac 0.00% Impervious Runoff Depth>3.46"
Flow Length=188' Tc=18.8 min CN=64 Runoff=7.69 cfs 0.736 af

Subcatchment4: Subcat 4 Runoff Area=3.648 ac 0.00% Impervious Runoff Depth>3.47"
Flow Length=462' Tc=11.1 min CN=64 Runoff=13.36 cfs 1.054 af

Subcatchment5: Subcat 5 Runoff Area=8.688 ac 0.00% Impervious Runoff Depth>4.56"
Flow Length=790' Tc=21.9 min CN=74 Runoff=32.22 cfs 3.298 af

Subcatchment6: Subcat 6 Runoff Area=6.474 ac 0.00% Impervious Runoff Depth>4.45"
Flow Length=527' Tc=15.4 min CN=73 Runoff=27.03 cfs 2.402 af

Subcatchment7: Subcat 7 Runoff Area=17.083 ac 0.00% Impervious Runoff Depth>4.87"
Flow Length=1,407' Tc=41.0 min CN=77 Runoff=50.74 cfs 6.926 af

Subcatchment8: (new Subcat) Runoff Area=3.130 ac 0.00% Impervious Runoff Depth>4.13"
Tc=10.0 min CN=70 Runoff=14.04 cfs 1.076 af

Subcatchment10: Subcat 10 Runoff Area=3.666 ac 0.00% Impervious Runoff Depth>3.36"
Flow Length=427' Tc=12.8 min CN=63 Runoff=12.30 cfs 1.025 af

Subcatchment11: Subcat 11 Runoff Area=5.661 ac 0.85% Impervious Runoff Depth>2.82"
Flow Length=598' Tc=15.6 min CN=58 Runoff=14.68 cfs 1.331 af

Subcatchment12: Subcat 12 Runoff Area=2.699 ac 5.89% Impervious Runoff Depth>5.02"
Flow Length=374' Tc=13.9 min CN=78 Runoff=13.00 cfs 1.129 af

Subcatchment13: Subcat 13 Runoff Area=18.096 ac 1.07% Impervious Runoff Depth>4.96"
Flow Length=1,351' Tc=52.0 min CN=78 Runoff=48.23 cfs 7.481 af

Subcatchment14: Subcat 14 Runoff Area=0.597 ac 0.00% Impervious Runoff Depth>5.02"
Flow Length=270' Tc=12.6 min CN=78 Runoff=2.98 cfs 0.250 af

Subcatchment15: Subcat 15 Runoff Area=2.521 ac 4.81% Impervious Runoff Depth>5.13"
Flow Length=562' Tc=18.2 min CN=79 Runoff=11.19 cfs 1.077 af

Subcatchment16: Subcat 16 Runoff Area=4.718 ac 0.92% Impervious Runoff Depth>5.01"
Flow Length=719' Tc=24.0 min CN=78 Runoff=18.31 cfs 1.968 af

Subcatchment17: Subcat 17 Runoff Area=5.336 ac 0.00% Impervious Runoff Depth>4.67"
Flow Length=704' Tc=20.0 min CN=75 Runoff=21.04 cfs 2.077 af

Subcatchment18: Subcat 18 Runoff Area=1.751 ac 0.00% Impervious Runoff Depth>4.78"
Flow Length=422' Tc=21.6 min CN=76 Runoff=6.83 cfs 0.698 af

Subcatchment19: Subcat 19 Runoff Area=21.570 ac 0.00% Impervious Runoff Depth>4.64"
Flow Length=1,667' Tc=39.5 min CN=75 Runoff=62.49 cfs 8.343 af

Subcatchment20: Subcat 20 Runoff Area=1.629 ac 0.00% Impervious Runoff Depth>4.45"
Flow Length=544' Tc=18.7 min CN=73 Runoff=6.30 cfs 0.604 af

Subcatchment21: Subcat 21 Runoff Area=3.990 ac 0.00% Impervious Runoff Depth>4.10"
Flow Length=1,249' Tc=27.1 min CN=70 Runoff=12.24 cfs 1.364 af

Subcatchment22: Subcat 22 Runoff Area=17.726 ac 0.00% Impervious Runoff Depth>4.39"
Flow Length=2,340' Tc=55.2 min CN=73 Runoff=40.91 cfs 6.490 af

Subcatchment23: Subcat 23 Runoff Area=0.264 ac 0.00% Impervious Runoff Depth>5.03"
Flow Length=133' Tc=5.5 min CN=78 Runoff=1.62 cfs 0.111 af

Subcatchment24: Subcat 24 Runoff Area=2.795 ac 0.00% Impervious Runoff Depth>4.56"
Flow Length=746' Tc=16.2 min CN=74 Runoff=11.72 cfs 1.063 af

Subcatchment25: Subcat 25 Runoff Area=12.168 ac 0.00% Impervious Runoff Depth>4.76"
Tc=38.1 min CN=76 Runoff=36.73 cfs 4.823 af

Subcatchment27: Subcat 27 Runoff Area=2.191 ac 0.00% Impervious Runoff Depth>3.89"
Flow Length=464' Tc=19.4 min CN=68 Runoff=7.35 cfs 0.711 af

Subcatchment28: Subcat 28 Runoff Area=7.360 ac 0.00% Impervious Runoff Depth>2.82"
Flow Length=461' Tc=15.3 min CN=58 Runoff=19.33 cfs 1.731 af

Subcatchment29: Subcat 29 Runoff Area=1.626 ac 0.00% Impervious Runoff Depth>0.75"
Flow Length=167' Tc=13.2 min CN=36 Runoff=0.69 cfs 0.102 af

Subcatchment30: Subcat 30 Runoff Area=3.911 ac 0.00% Impervious Runoff Depth>4.12"
Flow Length=380' Tc=11.2 min CN=70 Runoff=16.98 cfs 1.344 af

Subcatchment31: Subcat 31 Runoff Area=3.646 ac 0.00% Impervious Runoff Depth>1.17"
Flow Length=261' Tc=7.6 min CN=41 Runoff=3.79 cfs 0.356 af

Subcatchment32: Subcat 32 Runoff Area=4.598 ac 0.00% Impervious Runoff Depth>5.96"
Tc=0.0 min CN=86 Runoff=37.30 cfs 2.282 af

Subcatchment33: Subcat 33 Runoff Area=12.509 ac 0.00% Impervious Runoff Depth>5.84"
Tc=0.0 min CN=85 Runoff=100.11 cfs 6.090 af

Subcatchment35: Subcat 35 Runoff Area=11.838 ac 0.00% Impervious Runoff Depth>5.01"
Flow Length=579' Tc=21.7 min CN=78 Runoff=47.97 cfs 4.941 af

Pond 7P: (new Pond) Peak Elev=164.89' Storage=176,610 cf Inflow=50.74 cfs 6.926 af
Outflow=12.38 cfs 4.095 af

Pond 10P: (new Pond) Peak Elev=151.82' Storage=54,358 cf Inflow=12.30 cfs 1.249 af
Outflow=0.00 cfs 0.000 af

Pond 11P: (new Pond) Peak Elev=147.38' Storage=57,944 cf Inflow=14.68 cfs 1.331 af
Outflow=0.00 cfs 0.000 af

Pond 12P: (new Pond) Peak Elev=163.56' Storage=40,334 cf Inflow=13.00 cfs 1.129 af
Outflow=0.68 cfs 0.224 af

Pond 13P: (new Pond) Peak Elev=161.88' Storage=80,241 cf Inflow=48.23 cfs 7.481 af
Outflow=43.83 cfs 6.380 af

Pond 15P: (new Pond) Peak Elev=163.98' Storage=46,912 cf Inflow=11.19 cfs 1.077 af
Outflow=0.00 cfs 0.000 af

Pond 16P: (new Pond) Peak Elev=163.14' Storage=46,466 cf Inflow=18.31 cfs 1.968 af
Outflow=6.70 cfs 1.094 af

Pond 19P: (new Pond) Peak Elev=154.04' Storage=63,241 cf Inflow=62.49 cfs 8.343 af
Outflow=57.05 cfs 7.689 af

Pond 28P: (new Pond) Peak Elev=155.72' Storage=75,341 cf Inflow=19.33 cfs 1.731 af
Outflow=0.00 cfs 0.000 af

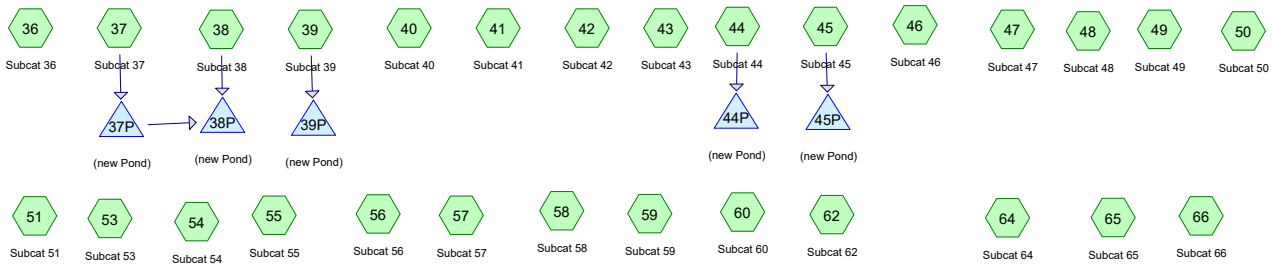
Pond 29P: (new Pond) Peak Elev=148.37' Storage=4,416 cf Inflow=0.69 cfs 0.102 af
Outflow=0.00 cfs 0.000 af

Pond 30P: (new Pond) Peak Elev=171.43' Storage=58,516 cf Inflow=16.98 cfs 1.344 af
Outflow=0.00 cfs 0.000 af

Pond 31P: (new Pond) Peak Elev=147.13' Storage=15,454 cf Inflow=3.79 cfs 0.356 af
Outflow=0.00 cfs 0.000 af

Pond 35P: (new Pond) Peak Elev=158.11' Storage=215,118 cf Inflow=47.97 cfs 4.941 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 200.819 ac Runoff Volume = 74.275 af Average Runoff Depth = 4.44"
99.72% Pervious = 200.254 ac 0.28% Impervious = 0.565 ac



Subcat | Reach | Pond | Link

Routing Diagram for Exisiting Conditions - South Plantation
Prepared by VHB, Printed 7/22/2020

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.002	0	, HSG A (62)
0.001	0	, HSG B (62)
2.022	46	2 acre lots, 12% imp, HSG A (40, 41, 42, 43, 53, 56, 57, 58, 59, 60, 62, 64)
16.959	65	2 acre lots, 12% imp, HSG B (36, 39, 40, 41, 42, 43, 51, 53, 54, 56, 57, 58, 59, 60, 62)
0.107	89	Paved roads w/open ditches, 50% imp, HSG B (36, 37, 39, 62, 66)
2.256	98	Roofs, HSG B (49, 60)
1.324	67	Row crops, straight row, Good, HSG A (44, 45, 46, 47, 48, 49, 55, 59, 64, 65)
94.391	78	Row crops, straight row, Good, HSG B (36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 55, 56, 57, 59, 60, 62, 64, 65, 66)
20.938	36	Woods, Fair, HSG A (42, 43, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 62, 64, 65)
7.953	60	Woods, Fair, HSG B (43, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 62, 65, 66)
145.952	**69**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
24.286	HSG A	40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 62, 64, 65
121.666	HSG B	36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 62, 64, 65, 66
0.000	HSG C	
0.000	HSG D	
0.000	Other	
145.952		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatch Numbers
0.002	0.001	0.000	0.000	0.000	0.003		
2.022	16.959	0.000	0.000	0.000	18.981	2 acre lots, 12% imp	
0.000	0.107	0.000	0.000	0.000	0.107	Paved roads w/open ditches, 50% imp	
0.000	2.256	0.000	0.000	0.000	2.256	Roofs	
1.324	94.391	0.000	0.000	0.000	95.715	Row crops, straight row, Good	
20.938	7.953	0.000	0.000	0.000	28.890	Woods, Fair	
24.286	**121.666**	**0.000**	**0.000**	**0.000**	**145.952**	**TOTAL AREA**	

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment36: Subcat 36 Runoff Area=8.684 ac 0.33% Impervious Runoff Depth>1.13"
Flow Length=944' Tc=28.5 min CN=78 Runoff=7.14 cfs 0.820 af

Subcatchment37: Subcat 37 Runoff Area=1.143 ac 0.10% Impervious Runoff Depth>1.14"
Flow Length=405' Tc=15.1 min CN=78 Runoff=1.22 cfs 0.109 af

Subcatchment38: Subcat 38 Runoff Area=3.921 ac 0.00% Impervious Runoff Depth>1.14"
Flow Length=567' Tc=20.9 min CN=78 Runoff=3.68 cfs 0.372 af

Subcatchment39: Subcat 39 Runoff Area=2.047 ac 5.11% Impervious Runoff Depth>0.87"
Flow Length=200' Tc=10.7 min CN=73 Runoff=1.81 cfs 0.148 af

Subcatchment40: Subcat 40 Runoff Area=0.652 ac 12.00% Impervious Runoff Depth>0.51"
Flow Length=208' Tc=10.2 min CN=65 Runoff=0.29 cfs 0.028 af

Subcatchment41: Subcat 41 Runoff Area=0.889 ac 10.73% Impervious Runoff Depth>0.48"
Flow Length=245' Tc=9.2 min CN=64 Runoff=0.37 cfs 0.035 af

Subcatchment42: Subcat 42 Runoff Area=1.849 ac 7.72% Impervious Runoff Depth>0.51"
Flow Length=384' Tc=13.6 min CN=65 Runoff=0.75 cfs 0.079 af

Subcatchment43: Subcat 43 Runoff Area=0.915 ac 7.83% Impervious Runoff Depth>0.44"
Flow Length=354' Tc=14.5 min CN=63 Runoff=0.29 cfs 0.034 af

Subcatchment44: Subcat 44 Runoff Area=2.114 ac 0.00% Impervious Runoff Depth>1.08"
Flow Length=363' Tc=10.2 min CN=77 Runoff=2.44 cfs 0.191 af

Subcatchment45: Subcat 45 Runoff Area=2.350 ac 0.00% Impervious Runoff Depth>1.09"
Flow Length=214' Tc=6.4 min CN=77 Runoff=3.08 cfs 0.213 af

Subcatchment46: Subcat 46 Runoff Area=3.063 ac 0.00% Impervious Runoff Depth>1.08"
Flow Length=522' Tc=11.7 min CN=77 Runoff=3.38 cfs 0.276 af

Subcatchment47: Subcat 47 Runoff Area=3.767 ac 0.00% Impervious Runoff Depth>0.25"
Flow Length=463' Tc=13.2 min CN=57 Runoff=0.49 cfs 0.079 af

Subcatchment48: Subcat 48 Runoff Area=5.342 ac 0.00% Impervious Runoff Depth>0.44"
Flow Length=376' Tc=12.2 min CN=63 Runoff=1.77 cfs 0.196 af

Subcatchment49: Subcat 49 Runoff Area=3.212 ac 20.41% Impervious Runoff Depth>0.48"
Flow Length=466' Tc=13.3 min CN=64 Runoff=1.16 cfs 0.127 af

Subcatchment50: Subcat 50 Runoff Area=7.384 ac 0.00% Impervious Runoff Depth>0.59"
Tc=13.3 min CN=67 Runoff=3.72 cfs 0.365 af

Subcatchment51: Subcat 51 Runoff Area=27.555 ac 0.43% Impervious Runoff Depth>1.07"
Flow Length=1,356' Tc=33.5 min CN=77 Runoff=19.86 cfs 2.464 af

Subcatchment53: Subcat 53 Runoff Area=4.763 ac 1.36% Impervious Runoff Depth>0.00"
Tc=0.0 min CN=40 Runoff=0.00 cfs 0.000 af

Subcatchment54: Subcat 54 Runoff Area=4.933 ac 0.15% Impervious Runoff Depth>0.00"
Tc=0.0 min CN=41 Runoff=0.00 cfs 0.001 af

Subcatchment55: Subcat 55 Runoff Area=2.683 ac 0.00% Impervious Runoff Depth>0.97"
Flow Length=790' Tc=20.4 min CN=75 Runoff=2.12 cfs 0.217 af

Subcatchment56: Subcat 56 Runoff Area=7.230 ac 2.24% Impervious Runoff Depth>0.82"
Tc=0.0 min CN=72 Runoff=8.14 cfs 0.496 af

Subcatchment57: Subcat 57 Runoff Area=5.692 ac 2.59% Impervious Runoff Depth>0.77"
Flow Length=567' Tc=16.3 min CN=71 Runoff=3.73 cfs 0.365 af

Subcatchment58: Subcat 58 Runoff Area=2.853 ac 4.92% Impervious Runoff Depth>0.05"
Flow Length=591' Tc=14.0 min CN=47 Runoff=0.03 cfs 0.011 af

Subcatchment59: Subcat 59 Runoff Area=4.073 ac 4.25% Impervious Runoff Depth>0.05"
Flow Length=316' Tc=12.3 min CN=47 Runoff=0.04 cfs 0.016 af

Subcatchment60: Subcat 60 Runoff Area=7.389 ac 22.44% Impervious Runoff Depth>1.13"
Flow Length=1,003' Tc=32.4 min CN=78 Runoff=5.72 cfs 0.697 af

Subcatchment62: Subcat 62 Runoff Area=24.202 ac 3.83% Impervious Runoff Depth>0.76"
Flow Length=1,288' Tc=29.6 min CN=71 Runoff=12.47 cfs 1.540 af

Subcatchment64: Subcat 64 Runoff Area=1.772 ac 0.08% Impervious Runoff Depth>0.63"
Flow Length=404' Tc=14.5 min CN=68 Runoff=0.94 cfs 0.094 af

Subcatchment65: Subcat 65 Runoff Area=3.560 ac 0.00% Impervious Runoff Depth>0.97"
Flow Length=599' Tc=22.0 min CN=75 Runoff=2.73 cfs 0.287 af

Subcatchment66: Subcat 66 Runoff Area=1.916 ac 0.53% Impervious Runoff Depth>1.03"
Flow Length=379' Tc=13.5 min CN=76 Runoff=1.89 cfs 0.164 af

Pond 37P: (new Pond) Peak Elev=166.51' Storage=2,623 cf Inflow=1.22 cfs 0.109 af
Outflow=0.22 cfs 0.050 af

Pond 38P: (new Pond) Peak Elev=164.52' Storage=13,479 cf Inflow=3.68 cfs 0.422 af
Outflow=0.41 cfs 0.119 af

Pond 39P: (new Pond) Peak Elev=164.66' Storage=6,449 cf Inflow=1.81 cfs 0.148 af
Outflow=0.00 cfs 0.000 af

Pond 44P: (new Pond) Peak Elev=158.53' Storage=8,312 cf Inflow=2.44 cfs 0.191 af
Outflow=0.00 cfs 0.000 af

Pond 45P: (new Pond) Peak Elev=154.81' Storage=9,255 cf Inflow=3.08 cfs 0.213 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 145.952 ac Runoff Volume = 9.424 af Average Runoff Depth = 0.77"
96.86% Pervious = 141.365 ac 3.14% Impervious = 4.587 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment36: Subcat 36 Runoff Area=8.684 ac 0.33% Impervious Runoff Depth>3.47"
Flow Length=944' Tc=28.5 min CN=78 Runoff=21.99 cfs 2.513 af

Subcatchment37: Subcat 37 Runoff Area=1.143 ac 0.10% Impervious Runoff Depth>3.49"
Flow Length=405' Tc=15.1 min CN=78 Runoff=3.76 cfs 0.332 af

Subcatchment38: Subcat 38 Runoff Area=3.921 ac 0.00% Impervious Runoff Depth>3.48"
Flow Length=567' Tc=20.9 min CN=78 Runoff=11.33 cfs 1.138 af

Subcatchment39: Subcat 39 Runoff Area=2.047 ac 5.11% Impervious Runoff Depth>3.01"
Flow Length=200' Tc=10.7 min CN=73 Runoff=6.58 cfs 0.513 af

Subcatchment40: Subcat 40 Runoff Area=0.652 ac 12.00% Impervious Runoff Depth>2.28"
Flow Length=208' Tc=10.2 min CN=65 Runoff=1.60 cfs 0.124 af

Subcatchment41: Subcat 41 Runoff Area=0.889 ac 10.73% Impervious Runoff Depth>2.20"
Flow Length=245' Tc=9.2 min CN=64 Runoff=2.14 cfs 0.163 af

Subcatchment42: Subcat 42 Runoff Area=1.849 ac 7.72% Impervious Runoff Depth>2.28"
Flow Length=384' Tc=13.6 min CN=65 Runoff=4.10 cfs 0.351 af

Subcatchment43: Subcat 43 Runoff Area=0.915 ac 7.83% Impervious Runoff Depth>2.11"
Flow Length=354' Tc=14.5 min CN=63 Runoff=1.82 cfs 0.161 af

Subcatchment44: Subcat 44 Runoff Area=2.114 ac 0.00% Impervious Runoff Depth>3.39"
Flow Length=363' Tc=10.2 min CN=77 Runoff=7.74 cfs 0.598 af

Subcatchment45: Subcat 45 Runoff Area=2.350 ac 0.00% Impervious Runoff Depth>3.40"
Flow Length=214' Tc=6.4 min CN=77 Runoff=9.72 cfs 0.666 af

Subcatchment46: Subcat 46 Runoff Area=3.063 ac 0.00% Impervious Runoff Depth>3.39"
Flow Length=522' Tc=11.7 min CN=77 Runoff=10.76 cfs 0.866 af

Subcatchment47: Subcat 47 Runoff Area=3.767 ac 0.00% Impervious Runoff Depth>1.62"
Flow Length=463' Tc=13.2 min CN=57 Runoff=5.70 cfs 0.507 af

Subcatchment48: Subcat 48 Runoff Area=5.342 ac 0.00% Impervious Runoff Depth>2.11"
Flow Length=376' Tc=12.2 min CN=63 Runoff=11.23 cfs 0.938 af

Subcatchment49: Subcat 49 Runoff Area=3.212 ac 20.41% Impervious Runoff Depth>2.19"
Flow Length=466' Tc=13.3 min CN=64 Runoff=6.88 cfs 0.587 af

Subcatchment50: Subcat 50 Runoff Area=7.384 ac 0.00% Impervious Runoff Depth>2.45"
Tc=13.3 min CN=67 Runoff=17.85 cfs 1.510 af

Subcatchment51: Subcat 51 Runoff Area=27.555 ac 0.43% Impervious Runoff Depth>3.37"
Flow Length=1,356' Tc=33.5 min CN=77 Runoff=63.05 cfs 7.735 af

Subcatchment53: Subcat 53 Runoff Area=4.763 ac 1.36% Impervious Runoff Depth>0.47"
Tc=0.0 min CN=40 Runoff=1.32 cfs 0.188 af

Subcatchment54: Subcat 54 Runoff Area=4.933 ac 0.15% Impervious Runoff Depth>0.53"
Tc=0.0 min CN=41 Runoff=1.78 cfs 0.218 af

Subcatchment55: Subcat 55 Runoff Area=2.683 ac 0.00% Impervious Runoff Depth>3.19"
Flow Length=790' Tc=20.4 min CN=75 Runoff=7.20 cfs 0.713 af

Subcatchment56: Subcat 56 Runoff Area=7.230 ac 2.24% Impervious Runoff Depth>2.92"
Tc=0.0 min CN=72 Runoff=30.58 cfs 1.762 af

Subcatchment57: Subcat 57 Runoff Area=5.692 ac 2.59% Impervious Runoff Depth>2.81"
Flow Length=567' Tc=16.3 min CN=71 Runoff=14.71 cfs 1.335 af

Subcatchment58: Subcat 58 Runoff Area=2.853 ac 4.92% Impervious Runoff Depth>0.89"
Flow Length=591' Tc=14.0 min CN=47 Runoff=1.86 cfs 0.212 af

Subcatchment59: Subcat 59 Runoff Area=4.073 ac 4.25% Impervious Runoff Depth>0.89"
Flow Length=316' Tc=12.3 min CN=47 Runoff=2.78 cfs 0.302 af

Subcatchment60: Subcat 60 Runoff Area=7.389 ac 22.44% Impervious Runoff Depth>3.47"
Flow Length=1,003' Tc=32.4 min CN=78 Runoff=17.62 cfs 2.136 af

Subcatchment62: Subcat 62 Runoff Area=24.202 ac 3.83% Impervious Runoff Depth>2.80"
Flow Length=1,288' Tc=29.6 min CN=71 Runoff=48.90 cfs 5.649 af

Subcatchment64: Subcat 64 Runoff Area=1.772 ac 0.08% Impervious Runoff Depth>2.54"
Flow Length=404' Tc=14.5 min CN=68 Runoff=4.32 cfs 0.376 af

Subcatchment65: Subcat 65 Runoff Area=3.560 ac 0.00% Impervious Runoff Depth>3.19"
Flow Length=599' Tc=22.0 min CN=75 Runoff=9.27 cfs 0.946 af

Subcatchment66: Subcat 66 Runoff Area=1.916 ac 0.53% Impervious Runoff Depth>3.29"
Flow Length=379' Tc=13.5 min CN=76 Runoff=6.20 cfs 0.526 af

Pond 37P: (new Pond) Peak Elev=166.59' Storage=3,286 cf Inflow=3.76 cfs 0.332 af
Outflow=3.61 cfs 0.273 af

Pond 38P: (new Pond) Peak Elev=164.70' Storage=18,415 cf Inflow=14.87 cfs 1.411 af
Outflow=12.32 cfs 1.102 af

Pond 39P: (new Pond) Peak Elev=165.34' Storage=22,340 cf Inflow=6.58 cfs 0.513 af
Outflow=0.00 cfs 0.000 af

Pond 44P: (new Pond) Peak Elev=159.03' Storage=18,005 cf Inflow=7.74 cfs 0.598 af
Outflow=0.67 cfs 0.194 af

Pond 45P: (new Pond) Peak Elev=156.02' Storage=28,983 cf Inflow=9.72 cfs 0.666 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 145.952 ac Runoff Volume = 33.064 af Average Runoff Depth = 2.72"
96.86% Pervious = 141.365 ac 3.14% Impervious = 4.587 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment36: Subcat 36 Runoff Area=8.684 ac 0.33% Impervious Runoff Depth>4.18"
Flow Length=944' Tc=28.5 min CN=78 Runoff=26.36 cfs 3.029 af

Subcatchment37: Subcat 37 Runoff Area=1.143 ac 0.10% Impervious Runoff Depth>4.20"
Flow Length=405' Tc=15.1 min CN=78 Runoff=4.51 cfs 0.400 af

Subcatchment38: Subcat 38 Runoff Area=3.921 ac 0.00% Impervious Runoff Depth>4.19"
Flow Length=567' Tc=20.9 min CN=78 Runoff=13.59 cfs 1.371 af

Subcatchment39: Subcat 39 Runoff Area=2.047 ac 5.11% Impervious Runoff Depth>3.68"
Flow Length=200' Tc=10.7 min CN=73 Runoff=8.04 cfs 0.628 af

Subcatchment40: Subcat 40 Runoff Area=0.652 ac 12.00% Impervious Runoff Depth>2.88"
Flow Length=208' Tc=10.2 min CN=65 Runoff=2.03 cfs 0.156 af

Subcatchment41: Subcat 41 Runoff Area=0.889 ac 10.73% Impervious Runoff Depth>2.78"
Flow Length=245' Tc=9.2 min CN=64 Runoff=2.73 cfs 0.206 af

Subcatchment42: Subcat 42 Runoff Area=1.849 ac 7.72% Impervious Runoff Depth>2.87"
Flow Length=384' Tc=13.6 min CN=65 Runoff=5.21 cfs 0.443 af

Subcatchment43: Subcat 43 Runoff Area=0.915 ac 7.83% Impervious Runoff Depth>2.68"
Flow Length=354' Tc=14.5 min CN=63 Runoff=2.34 cfs 0.204 af

Subcatchment44: Subcat 44 Runoff Area=2.114 ac 0.00% Impervious Runoff Depth>4.10"
Flow Length=363' Tc=10.2 min CN=77 Runoff=9.30 cfs 0.723 af

Subcatchment45: Subcat 45 Runoff Area=2.350 ac 0.00% Impervious Runoff Depth>4.11"
Flow Length=214' Tc=6.4 min CN=77 Runoff=11.68 cfs 0.804 af

Subcatchment46: Subcat 46 Runoff Area=3.063 ac 0.00% Impervious Runoff Depth>4.10"
Flow Length=522' Tc=11.7 min CN=77 Runoff=12.94 cfs 1.047 af

Subcatchment47: Subcat 47 Runoff Area=3.767 ac 0.00% Impervious Runoff Depth>2.12"
Flow Length=463' Tc=13.2 min CN=57 Runoff=7.66 cfs 0.665 af

Subcatchment48: Subcat 48 Runoff Area=5.342 ac 0.00% Impervious Runoff Depth>2.68"
Flow Length=376' Tc=12.2 min CN=63 Runoff=14.44 cfs 1.193 af

Subcatchment49: Subcat 49 Runoff Area=3.212 ac 20.41% Impervious Runoff Depth>2.78"
Flow Length=466' Tc=13.3 min CN=64 Runoff=8.78 cfs 0.743 af

Subcatchment50: Subcat 50 Runoff Area=7.384 ac 0.00% Impervious Runoff Depth>3.07"
Tc=13.3 min CN=67 Runoff=22.43 cfs 1.889 af

Subcatchment51: Subcat 51 Runoff Area=27.555 ac 0.43% Impervious Runoff Depth>4.07"
Flow Length=1,356' Tc=33.5 min CN=77 Runoff=75.88 cfs 9.350 af

Subcatchment53: Subcat 53 Runoff Area=4.763 ac 1.36% Impervious Runoff Depth>0.74"
Tc=0.0 min CN=40 Runoff=2.97 cfs 0.293 af

Subcatchment54: Subcat 54 Runoff Area=4.933 ac 0.15% Impervious Runoff Depth>0.81"
Tc=0.0 min CN=41 Runoff=3.63 cfs 0.333 af

Subcatchment55: Subcat 55 Runoff Area=2.683 ac 0.00% Impervious Runoff Depth>3.88"
Flow Length=790' Tc=20.4 min CN=75 Runoff=8.73 cfs 0.867 af

Subcatchment56: Subcat 56 Runoff Area=7.230 ac 2.24% Impervious Runoff Depth>3.59"
Tc=0.0 min CN=72 Runoff=37.49 cfs 2.164 af

Subcatchment57: Subcat 57 Runoff Area=5.692 ac 2.59% Impervious Runoff Depth>3.47"
Flow Length=567' Tc=16.3 min CN=71 Runoff=18.14 cfs 1.646 af

Subcatchment58: Subcat 58 Runoff Area=2.853 ac 4.92% Impervious Runoff Depth>1.26"
Flow Length=591' Tc=14.0 min CN=47 Runoff=2.91 cfs 0.299 af

Subcatchment59: Subcat 59 Runoff Area=4.073 ac 4.25% Impervious Runoff Depth>1.26"
Flow Length=316' Tc=12.3 min CN=47 Runoff=4.38 cfs 0.427 af

Subcatchment60: Subcat 60 Runoff Area=7.389 ac 22.44% Impervious Runoff Depth>4.18"
Flow Length=1,003' Tc=32.4 min CN=78 Runoff=21.13 cfs 2.573 af

Subcatchment62: Subcat 62 Runoff Area=24.202 ac 3.83% Impervious Runoff Depth>3.45"
Flow Length=1,288' Tc=29.6 min CN=71 Runoff=60.28 cfs 6.965 af

Subcatchment64: Subcat 64 Runoff Area=1.772 ac 0.08% Impervious Runoff Depth>3.17"
Flow Length=404' Tc=14.5 min CN=68 Runoff=5.40 cfs 0.468 af

Subcatchment65: Subcat 65 Runoff Area=3.560 ac 0.00% Impervious Runoff Depth>3.88"
Flow Length=599' Tc=22.0 min CN=75 Runoff=11.24 cfs 1.150 af

Subcatchment66: Subcat 66 Runoff Area=1.916 ac 0.53% Impervious Runoff Depth>3.99"
Flow Length=379' Tc=13.5 min CN=76 Runoff=7.49 cfs 0.637 af

Pond 37P: (new Pond) Peak Elev=166.60' Storage=3,394 cf Inflow=4.51 cfs 0.400 af
Outflow=4.34 cfs 0.341 af

Pond 38P: (new Pond) Peak Elev=164.74' Storage=19,545 cf Inflow=17.89 cfs 1.712 af
Outflow=15.89 cfs 1.402 af

Pond 39P: (new Pond) Peak Elev=165.49' Storage=27,347 cf Inflow=8.04 cfs 0.628 af
Outflow=0.00 cfs 0.000 af

Pond 44P: (new Pond) Peak Elev=159.05' Storage=18,670 cf Inflow=9.30 cfs 0.723 af
Outflow=1.76 cfs 0.318 af

Pond 45P: (new Pond) Peak Elev=156.29' Storage=35,025 cf Inflow=11.68 cfs 0.804 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 145.952 ac Runoff Volume = 40.674 af Average Runoff Depth = 3.34"
96.86% Pervious = 141.365 ac 3.14% Impervious = 4.587 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment36: Subcat 36 Runoff Area=8.684 ac 0.33% Impervious Runoff Depth>5.00"
Flow Length=944' Tc=28.5 min CN=78 Runoff=31.30 cfs 3.617 af

Subcatchment37: Subcat 37 Runoff Area=1.143 ac 0.10% Impervious Runoff Depth>5.02"
Flow Length=405' Tc=15.1 min CN=78 Runoff=5.35 cfs 0.478 af

Subcatchment38: Subcat 38 Runoff Area=3.921 ac 0.00% Impervious Runoff Depth>5.01"
Flow Length=567' Tc=20.9 min CN=78 Runoff=16.13 cfs 1.637 af

Subcatchment39: Subcat 39 Runoff Area=2.047 ac 5.11% Impervious Runoff Depth>4.46"
Flow Length=200' Tc=10.7 min CN=73 Runoff=9.70 cfs 0.761 af

Subcatchment40: Subcat 40 Runoff Area=0.652 ac 12.00% Impervious Runoff Depth>3.58"
Flow Length=208' Tc=10.2 min CN=65 Runoff=2.53 cfs 0.194 af

Subcatchment41: Subcat 41 Runoff Area=0.889 ac 10.73% Impervious Runoff Depth>3.47"
Flow Length=245' Tc=9.2 min CN=64 Runoff=3.42 cfs 0.257 af

Subcatchment42: Subcat 42 Runoff Area=1.849 ac 7.72% Impervious Runoff Depth>3.57"
Flow Length=384' Tc=13.6 min CN=65 Runoff=6.49 cfs 0.550 af

Subcatchment43: Subcat 43 Runoff Area=0.915 ac 7.83% Impervious Runoff Depth>3.35"
Flow Length=354' Tc=14.5 min CN=63 Runoff=2.95 cfs 0.256 af

Subcatchment44: Subcat 44 Runoff Area=2.114 ac 0.00% Impervious Runoff Depth>4.91"
Flow Length=363' Tc=10.2 min CN=77 Runoff=11.07 cfs 0.865 af

Subcatchment45: Subcat 45 Runoff Area=2.350 ac 0.00% Impervious Runoff Depth>4.92"
Flow Length=214' Tc=6.4 min CN=77 Runoff=13.89 cfs 0.963 af

Subcatchment46: Subcat 46 Runoff Area=3.063 ac 0.00% Impervious Runoff Depth>4.91"
Flow Length=522' Tc=11.7 min CN=77 Runoff=15.40 cfs 1.253 af

Subcatchment47: Subcat 47 Runoff Area=3.767 ac 0.00% Impervious Runoff Depth>2.72"
Flow Length=463' Tc=13.2 min CN=57 Runoff=9.99 cfs 0.854 af

Subcatchment48: Subcat 48 Runoff Area=5.342 ac 0.00% Impervious Runoff Depth>3.36"
Flow Length=376' Tc=12.2 min CN=63 Runoff=18.31 cfs 1.495 af

Subcatchment49: Subcat 49 Runoff Area=3.212 ac 20.41% Impervious Runoff Depth>3.46"
Flow Length=466' Tc=13.3 min CN=64 Runoff=11.00 cfs 0.927 af

Subcatchment50: Subcat 50 Runoff Area=7.384 ac 0.00% Impervious Runoff Depth>3.79"
Tc=13.3 min CN=67 Runoff=27.72 cfs 2.332 af

Subcatchment51: Subcat 51 Runoff Area=27.555 ac 0.43% Impervious Runoff Depth>4.88"
Flow Length=1,356' Tc=33.5 min CN=77 Runoff=90.38 cfs 11.198 af

Subcatchment53: Subcat 53 Runoff Area=4.763 ac 1.36% Impervious Runoff Depth>1.09"
Tc=0.0 min CN=40 Runoff=5.30 cfs 0.432 af

Subcatchment54: Subcat 54 Runoff Area=4.933 ac 0.15% Impervious Runoff Depth>1.18"
Tc=0.0 min CN=41 Runoff=6.39 cfs 0.483 af

Subcatchment55: Subcat 55 Runoff Area=2.683 ac 0.00% Impervious Runoff Depth>4.67"
Flow Length=790' Tc=20.4 min CN=75 Runoff=10.46 cfs 1.044 af

Subcatchment56: Subcat 56 Runoff Area=7.230 ac 2.24% Impervious Runoff Depth>4.36"
Tc=0.0 min CN=72 Runoff=45.36 cfs 2.629 af

Subcatchment57: Subcat 57 Runoff Area=5.692 ac 2.59% Impervious Runoff Depth>4.23"
Flow Length=567' Tc=16.3 min CN=71 Runoff=22.15 cfs 2.006 af

Subcatchment58: Subcat 58 Runoff Area=2.853 ac 4.92% Impervious Runoff Depth>1.72"
Flow Length=591' Tc=14.0 min CN=47 Runoff=4.29 cfs 0.408 af

Subcatchment59: Subcat 59 Runoff Area=4.073 ac 4.25% Impervious Runoff Depth>1.72"
Flow Length=316' Tc=12.3 min CN=47 Runoff=6.38 cfs 0.583 af

Subcatchment60: Subcat 60 Runoff Area=7.389 ac 22.44% Impervious Runoff Depth>4.99"
Flow Length=1,003' Tc=32.4 min CN=78 Runoff=25.09 cfs 3.074 af

Subcatchment62: Subcat 62 Runoff Area=24.202 ac 3.83% Impervious Runoff Depth>4.21"
Flow Length=1,288' Tc=29.6 min CN=71 Runoff=73.32 cfs 8.490 af

Subcatchment64: Subcat 64 Runoff Area=1.772 ac 0.08% Impervious Runoff Depth>3.90"
Flow Length=404' Tc=14.5 min CN=68 Runoff=6.65 cfs 0.576 af

Subcatchment65: Subcat 65 Runoff Area=3.560 ac 0.00% Impervious Runoff Depth>4.67"
Flow Length=599' Tc=22.0 min CN=75 Runoff=13.48 cfs 1.385 af

Subcatchment66: Subcat 66 Runoff Area=1.916 ac 0.53% Impervious Runoff Depth>4.79"
Flow Length=379' Tc=13.5 min CN=76 Runoff=8.95 cfs 0.765 af

Pond 37P: (new Pond) Peak Elev=166.61' Storage=3,511 cf Inflow=5.35 cfs 0.478 af
Outflow=5.17 cfs 0.419 af

Pond 38P: (new Pond) Peak Elev=164.78' Storage=20,623 cf Inflow=21.24 cfs 2.056 af
Outflow=19.46 cfs 1.745 af

Pond 39P: (new Pond) Peak Elev=165.53' Storage=28,646 cf Inflow=9.70 cfs 0.761 af
Outflow=0.35 cfs 0.110 af

Pond 44P: (new Pond) Peak Elev=159.10' Storage=19,755 cf Inflow=11.07 cfs 0.865 af
Outflow=4.14 cfs 0.460 af

Pond 45P: (new Pond) Peak Elev=156.57' Storage=41,938 cf Inflow=13.89 cfs 0.963 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 145.952 ac Runoff Volume = 49.513 af Average Runoff Depth = 4.07"
96.86% Pervious = 141.365 ac 3.14% Impervious = 4.587 ac

HydroCAD Analysis: Proposed Conditions

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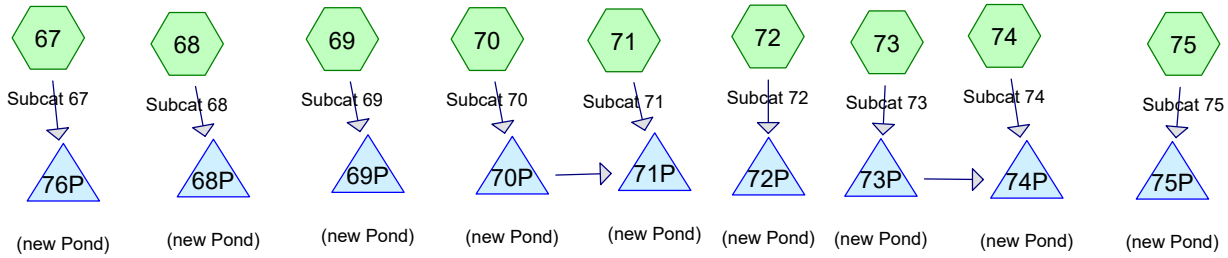


Subcat Reach Pond Link

Routing Diagram for Proposed Conditions - Windsorville
Prepared by VHB, Printed 7/22/2020

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.000	0	, HSG B (69, 72)
0.000	0	, HSG C (72, 74)
0.209	70	1/2 acre lots, 25% imp, HSG B (72)
0.824	49	50-75% Grass cover, Fair, HSG A (74, 75)
2.243	69	50-75% Grass cover, Fair, HSG B (74, 75)
3.228	79	50-75% Grass cover, Fair, HSG C (74)
34.933	39	>75% Grass cover, Good, HSG A (68, 69, 70, 71, 73, 74, 75)
82.264	61	>75% Grass cover, Good, HSG B (67, 68, 69, 70, 71, 72, 73, 74, 75)
50.706	74	>75% Grass cover, Good, HSG C (71, 72, 73, 74)
0.815	70	Brush, Fair, HSG C (74)
2.411	77	Fallow, bare soil, HSG A (74, 75)
1.596	86	Fallow, bare soil, HSG B (67, 74, 75)
4.271	91	Fallow, bare soil, HSG C (73, 74)
0.103	83	Paved roads w/open ditches, 50% imp, HSG A (71)
2.525	89	Paved roads w/open ditches, 50% imp, HSG B (67, 68, 69, 71, 72)
0.233	92	Paved roads w/open ditches, 50% imp, HSG C (72)
2.785	36	Woods, Fair, HSG A (69, 71, 73, 74)
7.532	60	Woods, Fair, HSG B (67, 69, 71, 72, 73, 74, 75)
9.199	73	Woods, Fair, HSG C (72, 73, 74)
205.877	**62**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
41.055	HSG A	68, 69, 70, 71, 73, 74, 75
96.369	HSG B	67, 68, 69, 70, 71, 72, 73, 74, 75
68.452	HSG C	71, 72, 73, 74
0.000	HSG D	
0.000	Other	
205.877		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatch Numbers
0.000	0.000	0.000	0.000	0.000	0.000		
0.000	0.209	0.000	0.000	0.000	0.209	1/2 acre lots, 25% imp	
0.824	2.243	3.228	0.000	0.000	6.295	50-75% Grass cover, Fair	
34.933	82.264	50.706	0.000	0.000	167.903	>75% Grass cover, Good	
0.000	0.000	0.815	0.000	0.000	0.815	Brush, Fair	
2.411	1.596	4.271	0.000	0.000	8.277	Fallow, bare soil	
0.103	2.525	0.233	0.000	0.000	2.862	Paved roads w/open ditches, 50% imp	
2.785	7.532	9.199	0.000	0.000	19.515	Woods, Fair	
41.055	**96.369**	**68.452**	**0.000**	**0.000**	**205.877**	**TOTAL AREA**	

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment67: Subcat 67 Runoff Area=1.280 ac 11.27% Impervious Runoff Depth>0.59"
Flow Length=286' Tc=9.9 min CN=67 Runoff=0.71 cfs 0.063 af

Subcatchment68: Subcat 68 Runoff Area=18.623 ac 2.62% Impervious Runoff Depth>0.34"
Flow Length=931' Tc=24.4 min CN=60 Runoff=3.33 cfs 0.523 af

Subcatchment69: Subcat 69 Runoff Area=6.832 ac 3.28% Impervious Runoff Depth>0.25"
Flow Length=664' Tc=12.0 min CN=57 Runoff=0.90 cfs 0.143 af

Subcatchment70: Subcat 70 Runoff Area=3.224 ac 0.00% Impervious Runoff Depth>0.25"
Flow Length=425' Tc=8.8 min CN=57 Runoff=0.44 cfs 0.068 af

Subcatchment71: Subcat 71 Runoff Area=8.154 ac 4.96% Impervious Runoff Depth>0.34"
Flow Length=616' Tc=16.7 min CN=60 Runoff=1.62 cfs 0.230 af

Subcatchment72: Subcat 72 Runoff Area=8.308 ac 2.67% Impervious Runoff Depth>0.68"
Flow Length=983' Tc=15.3 min CN=69 Runoff=4.74 cfs 0.469 af

Subcatchment73: Subcat 73 Runoff Area=28.700 ac 0.00% Impervious Runoff Depth>0.92"
Flow Length=1,079' Tc=13.8 min CN=74 Runoff=24.81 cfs 2.197 af

Subcatchment74: Subcat 74 Runoff Area=82.866 ac 0.00% Impervious Runoff Depth>0.40"
Flow Length=2,328' Tc=42.6 min CN=62 Runoff=15.17 cfs 2.742 af

Subcatchment75: Subcat 75 Runoff Area=47.890 ac 0.00% Impervious Runoff Depth>0.25"
Flow Length=1,192' Tc=19.3 min CN=57 Runoff=5.72 cfs 0.998 af

Pond 68P: (new Pond) Peak Elev=174.48' Storage=22,727 cf Inflow=3.33 cfs 0.523 af
Outflow=0.00 cfs 0.000 af

Pond 69P: (new Pond) Peak Elev=170.95' Storage=6,227 cf Inflow=0.90 cfs 0.143 af
Outflow=0.00 cfs 0.000 af

Pond 70P: (new Pond) Peak Elev=197.78' Storage=2,946 cf Inflow=0.44 cfs 0.068 af
Outflow=0.00 cfs 0.000 af

Pond 71P: (new Pond) Peak Elev=177.96' Storage=10,008 cf Inflow=1.62 cfs 0.230 af
Outflow=0.00 cfs 0.000 af

Pond 72P: (new Pond) Peak Elev=174.68' Storage=20,421 cf Inflow=4.74 cfs 0.469 af
Outflow=0.00 cfs 0.000 af

Pond 73P: (new Pond) Peak Elev=153.59' Storage=95,627 cf Inflow=24.81 cfs 2.197 af
Outflow=0.00 cfs 0.000 af

Pond 74P: (new Pond) Peak Elev=123.72' Storage=119,299 cf Inflow=15.17 cfs 2.742 af
Outflow=0.00 cfs 0.000 af

Pond 75P: (new Pond) Peak Elev=135.35' Storage=43,392 cf Inflow=5.72 cfs 0.998 af
Outflow=0.00 cfs 0.000 af

Pond 76P: (new Pond) Peak Elev=173.11' Storage=2,758 cf Inflow=0.71 cfs 0.063 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 205.877 ac Runoff Volume = 7.433 af Average Runoff Depth = 0.43"
99.28% Pervious = 204.393 ac 0.72% Impervious = 1.483 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment67: Subcat 67 Runoff Area=1.280 ac 11.27% Impervious Runoff Depth>2.46"
Flow Length=286' Tc=9.9 min CN=67 Runoff=3.42 cfs 0.262 af

Subcatchment68: Subcat 68 Runoff Area=18.623 ac 2.62% Impervious Runoff Depth>1.85"
Flow Length=931' Tc=24.4 min CN=60 Runoff=26.09 cfs 2.866 af

Subcatchment69: Subcat 69 Runoff Area=6.832 ac 3.28% Impervious Runoff Depth>1.62"
Flow Length=664' Tc=12.0 min CN=57 Runoff=10.63 cfs 0.920 af

Subcatchment70: Subcat 70 Runoff Area=3.224 ac 0.00% Impervious Runoff Depth>1.62"
Flow Length=425' Tc=8.8 min CN=57 Runoff=5.54 cfs 0.435 af

Subcatchment71: Subcat 71 Runoff Area=8.154 ac 4.96% Impervious Runoff Depth>1.85"
Flow Length=616' Tc=16.7 min CN=60 Runoff=13.30 cfs 1.259 af

Subcatchment72: Subcat 72 Runoff Area=8.308 ac 2.67% Impervious Runoff Depth>2.63"
Flow Length=983' Tc=15.3 min CN=69 Runoff=20.61 cfs 1.823 af

Subcatchment73: Subcat 73 Runoff Area=28.700 ac 0.00% Impervious Runoff Depth>3.10"
Flow Length=1,079' Tc=13.8 min CN=74 Runoff=87.05 cfs 7.414 af

Subcatchment74: Subcat 74 Runoff Area=82.866 ac 0.00% Impervious Runoff Depth>2.00"
Flow Length=2,328' Tc=42.6 min CN=62 Runoff=98.46 cfs 13.783 af

Subcatchment75: Subcat 75 Runoff Area=47.890 ac 0.00% Impervious Runoff Depth>1.61"
Flow Length=1,192' Tc=19.3 min CN=57 Runoff=62.61 cfs 6.428 af

Pond 68P: (new Pond) Peak Elev=175.50' Storage=124,758 cf Inflow=26.09 cfs 2.866 af
Outflow=0.00 cfs 0.000 af

Pond 69P: (new Pond) Peak Elev=173.12' Storage=40,057 cf Inflow=10.63 cfs 0.920 af
Outflow=0.00 cfs 0.000 af

Pond 70P: (new Pond) Peak Elev=198.42' Storage=14,801 cf Inflow=5.54 cfs 0.435 af
Outflow=0.34 cfs 0.100 af

Pond 71P: (new Pond) Peak Elev=179.34' Storage=49,145 cf Inflow=13.30 cfs 1.360 af
Outflow=0.96 cfs 0.241 af

Pond 72P: (new Pond) Peak Elev=178.57' Storage=79,337 cf Inflow=20.61 cfs 1.823 af
Outflow=0.00 cfs 0.000 af

Pond 73P: (new Pond) Peak Elev=155.69' Storage=235,094 cf Inflow=87.05 cfs 7.414 af
Outflow=6.45 cfs 2.225 af

Pond 74P: (new Pond) Peak Elev=127.64' Storage=696,592 cf Inflow=98.46 cfs 16.008 af
Outflow=0.00 cfs 0.000 af

Pond 75P: (new Pond) Peak Elev=144.41' Storage=279,795 cf Inflow=62.61 cfs 6.428 af
Outflow=0.00 cfs 0.000 af

Pond 76P: (new Pond) Peak Elev=174.61' Storage=11,409 cf Inflow=3.42 cfs 0.262 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 205.877 ac Runoff Volume = 35.192 af Average Runoff Depth = 2.05"
99.28% Pervious = 204.393 ac 0.72% Impervious = 1.483 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment67: Subcat 67 Runoff Area=1.280 ac 11.27% Impervious Runoff Depth>3.07"
Flow Length=286' Tc=9.9 min CN=67 Runoff=4.29 cfs 0.328 af

Subcatchment68: Subcat 68 Runoff Area=18.623 ac 2.62% Impervious Runoff Depth>2.38"
Flow Length=931' Tc=24.4 min CN=60 Runoff=34.19 cfs 3.698 af

Subcatchment69: Subcat 69 Runoff Area=6.832 ac 3.28% Impervious Runoff Depth>2.12"
Flow Length=664' Tc=12.0 min CN=57 Runoff=14.28 cfs 1.206 af

Subcatchment70: Subcat 70 Runoff Area=3.224 ac 0.00% Impervious Runoff Depth>2.12"
Flow Length=425' Tc=8.8 min CN=57 Runoff=7.44 cfs 0.570 af

Subcatchment71: Subcat 71 Runoff Area=8.154 ac 4.96% Impervious Runoff Depth>2.39"
Flow Length=616' Tc=16.7 min CN=60 Runoff=17.44 cfs 1.625 af

Subcatchment72: Subcat 72 Runoff Area=8.308 ac 2.67% Impervious Runoff Depth>3.27"
Flow Length=983' Tc=15.3 min CN=69 Runoff=25.65 cfs 2.263 af

Subcatchment73: Subcat 73 Runoff Area=28.700 ac 0.00% Impervious Runoff Depth>3.78"
Flow Length=1,079' Tc=13.8 min CN=74 Runoff=105.94 cfs 9.046 af

Subcatchment74: Subcat 74 Runoff Area=82.866 ac 0.00% Impervious Runoff Depth>2.55"
Flow Length=2,328' Tc=42.6 min CN=62 Runoff=127.14 cfs 17.624 af

Subcatchment75: Subcat 75 Runoff Area=47.890 ac 0.00% Impervious Runoff Depth>2.11"
Flow Length=1,192' Tc=19.3 min CN=57 Runoff=84.10 cfs 8.426 af

Pond 68P: (new Pond) Peak Elev=175.75' Storage=160,994 cf Inflow=34.19 cfs 3.698 af
Outflow=0.00 cfs 0.000 af

Pond 69P: (new Pond) Peak Elev=173.69' Storage=52,496 cf Inflow=14.28 cfs 1.206 af
Outflow=0.00 cfs 0.000 af

Pond 70P: (new Pond) Peak Elev=198.43' Storage=15,220 cf Inflow=7.44 cfs 0.570 af
Outflow=0.75 cfs 0.234 af

Pond 71P: (new Pond) Peak Elev=179.37' Storage=50,346 cf Inflow=17.44 cfs 1.859 af
Outflow=2.42 cfs 0.736 af

Pond 72P: (new Pond) Peak Elev=179.45' Storage=98,504 cf Inflow=25.65 cfs 2.263 af
Outflow=0.00 cfs 0.000 af

Pond 73P: (new Pond) Peak Elev=155.81' Storage=245,416 cf Inflow=105.94 cfs 9.046 af
Outflow=13.04 cfs 3.837 af

Pond 74P: (new Pond) Peak Elev=128.31' Storage=934,028 cf Inflow=131.31 cfs 21.461 af
Outflow=0.00 cfs 0.000 af

Pond 75P: (new Pond) Peak Elev=146.55' Storage=366,766 cf Inflow=84.10 cfs 8.426 af
Outflow=0.00 cfs 0.000 af

Pond 76P: (new Pond) Peak Elev=174.96' Storage=14,272 cf Inflow=4.29 cfs 0.328 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 205.877 ac Runoff Volume = 44.786 af Average Runoff Depth = 2.61"
99.28% Pervious = 204.393 ac 0.72% Impervious = 1.483 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment67: Subcat 67 Runoff Area=1.280 ac 11.27% Impervious Runoff Depth>3.80"
Flow Length=286' Tc=9.9 min CN=67 Runoff=5.30 cfs 0.405 af

Subcatchment68: Subcat 68 Runoff Area=18.623 ac 2.62% Impervious Runoff Depth>3.02"
Flow Length=931' Tc=24.4 min CN=60 Runoff=43.76 cfs 4.690 af

Subcatchment69: Subcat 69 Runoff Area=6.832 ac 3.28% Impervious Runoff Depth>2.72"
Flow Length=664' Tc=12.0 min CN=57 Runoff=18.65 cfs 1.550 af

Subcatchment70: Subcat 70 Runoff Area=3.224 ac 0.00% Impervious Runoff Depth>2.73"
Flow Length=425' Tc=8.8 min CN=57 Runoff=9.70 cfs 0.732 af

Subcatchment71: Subcat 71 Runoff Area=8.154 ac 4.96% Impervious Runoff Depth>3.03"
Flow Length=616' Tc=16.7 min CN=60 Runoff=22.33 cfs 2.060 af

Subcatchment72: Subcat 72 Runoff Area=8.308 ac 2.67% Impervious Runoff Depth>4.01"
Flow Length=983' Tc=15.3 min CN=69 Runoff=31.44 cfs 2.775 af

Subcatchment73: Subcat 73 Runoff Area=28.700 ac 0.00% Impervious Runoff Depth>4.57"
Flow Length=1,079' Tc=13.8 min CN=74 Runoff=127.40 cfs 10.925 af

Subcatchment74: Subcat 74 Runoff Area=82.866 ac 0.00% Impervious Runoff Depth>3.21"
Flow Length=2,328' Tc=42.6 min CN=62 Runoff=160.90 cfs 22.174 af

Subcatchment75: Subcat 75 Runoff Area=47.890 ac 0.00% Impervious Runoff Depth>2.71"
Flow Length=1,192' Tc=19.3 min CN=57 Runoff=109.79 cfs 10.829 af

Pond 68P: (new Pond) Peak Elev=176.01' Storage=204,146 cf Inflow=43.76 cfs 4.690 af
Outflow=0.00 cfs 0.000 af

Pond 69P: (new Pond) Peak Elev=174.29' Storage=67,456 cf Inflow=18.65 cfs 1.550 af
Outflow=0.00 cfs 0.000 af

Pond 70P: (new Pond) Peak Elev=198.46' Storage=15,988 cf Inflow=9.70 cfs 0.732 af
Outflow=1.73 cfs 0.395 af

Pond 71P: (new Pond) Peak Elev=179.42' Storage=52,149 cf Inflow=22.33 cfs 2.455 af
Outflow=5.38 cfs 1.328 af

Pond 72P: (new Pond) Peak Elev=180.35' Storage=120,811 cf Inflow=31.44 cfs 2.775 af
Outflow=0.00 cfs 0.000 af

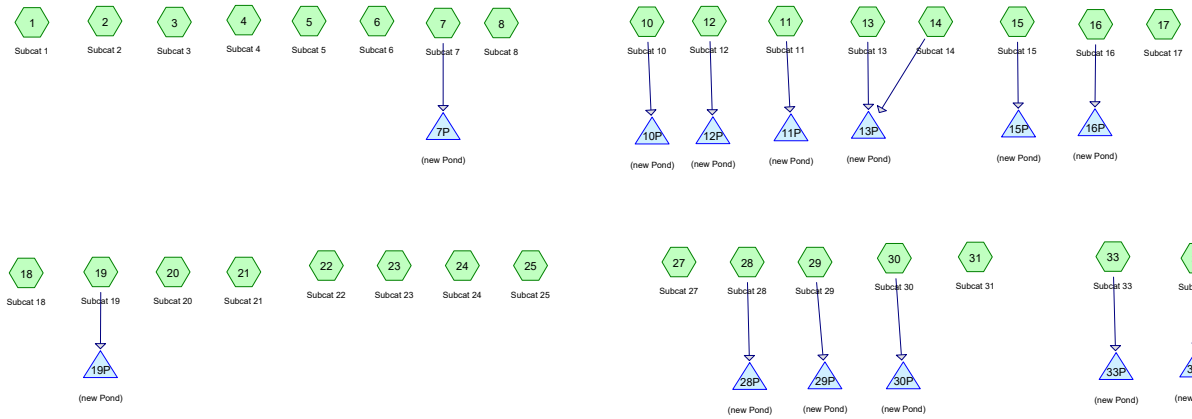
Pond 73P: (new Pond) Peak Elev=156.15' Storage=263,427 cf Inflow=127.40 cfs 10.925 af
Outflow=42.07 cfs 5.693 af

Pond 74P: (new Pond) Peak Elev=128.94' Storage=1,212,886 cf Inflow=202.97 cfs 27.867 af
Outflow=0.00 cfs 0.000 af

Pond 75P: (new Pond) Peak Elev=148.43' Storage=470,810 cf Inflow=109.79 cfs 10.829 af
Outflow=0.00 cfs 0.000 af

Pond 76P: (new Pond) Peak Elev=175.32' Storage=17,619 cf Inflow=5.30 cfs 0.405 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 205.877 ac Runoff Volume = 56.139 af Average Runoff Depth = 3.27"
99.28% Pervious = 204.393 ac 0.72% Impervious = 1.483 ac



Subcat Reach Pond Link

Routing Diagram for Proposed Conditions - North Plantation

Prepared by VHB, Printed 7/22/2020

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.000	0	, HSG A (31)
0.000	0	, HSG B (28)
0.028	65	2 acre lots, 12% imp, HSG B (15)
13.601	39	>75% Grass cover, Good, HSG A (1, 2, 3, 4, 5, 6, 8, 10, 11, 19, 20, 21, 25, 27, 28, 29, 30, 31, 33, 34, 35)
172.891	61	>75% Grass cover, Good, HSG B (1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 33, 34, 35)
0.368	56	Brush, Fair, HSG B (11)
0.066	77	Fallow, bare soil, HSG A (1, 31, 33)
0.226	86	Fallow, bare soil, HSG B (33)
1.123	89	Paved roads w/open ditches, 50% imp, HSG B (11, 12, 13, 15, 16)
10.373	36	Woods, Fair, HSG A (1, 2, 8, 10, 11, 28, 29, 31)
2.049	60	Woods, Fair, HSG B (2, 8, 10, 11, 28)
0.080	73	Woods, Fair, HSG C (2)
200.805	**58**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
24.041	HSG A	1, 2, 3, 4, 5, 6, 8, 10, 11, 19, 20, 21, 25, 27, 28, 29, 30, 31, 33, 34, 35
176.684	HSG B	1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 30, 31, 33, 34, 35
0.080	HSG C	2
0.000	HSG D	
0.000	Other	
200.805		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatch Numbers
0.000	0.000	0.000	0.000	0.000	0.000		
0.000	0.028	0.000	0.000	0.000	0.028	2 acre lots, 12% imp	
13.601	172.891	0.000	0.000	0.000	186.492	>75% Grass cover, Good	
0.000	0.368	0.000	0.000	0.000	0.368	Brush, Fair	
0.066	0.226	0.000	0.000	0.000	0.292	Fallow, bare soil	
0.000	1.123	0.000	0.000	0.000	1.123	Paved roads w/open ditches, 50% imp	
10.373	2.049	0.080	0.000	0.000	12.502	Woods, Fair	
24.041	**176.684**	**0.080**	**0.000**	**0.000**	**200.805**	**TOTAL AREA**	

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1: Subcat 1 Runoff Area=0.864 ac 0.00% Impervious Runoff Depth>0.31"
Flow Length=247' Tc=7.8 min CN=59 Runoff=0.17 cfs 0.022 af

Subcatchment2: Subcat 2 Runoff Area=4.510 ac 0.00% Impervious Runoff Depth>0.00"
Flow Length=343' Tc=9.5 min CN=41 Runoff=0.00 cfs 0.001 af

Subcatchment3: Subcat 3 Runoff Area=2.727 ac 0.00% Impervious Runoff Depth>0.06"
Flow Length=188' Tc=9.5 min CN=48 Runoff=0.03 cfs 0.014 af

Subcatchment4: Subcat 4 Runoff Area=3.638 ac 0.00% Impervious Runoff Depth>0.25"
Flow Length=462' Tc=11.1 min CN=57 Runoff=0.48 cfs 0.076 af

Subcatchment5: Subcat 5 Runoff Area=8.688 ac 0.00% Impervious Runoff Depth>0.34"
Flow Length=790' Tc=24.2 min CN=60 Runoff=1.56 cfs 0.244 af

Subcatchment6: Subcat 6 Runoff Area=6.472 ac 0.00% Impervious Runoff Depth>0.31"
Flow Length=527' Tc=16.2 min CN=59 Runoff=1.11 cfs 0.166 af

Subcatchment7: Subcat 7 Runoff Area=17.047 ac 0.00% Impervious Runoff Depth>0.36"
Flow Length=1,407' Tc=49.6 min CN=61 Runoff=2.53 cfs 0.514 af

Subcatchment8: Subcat 8 Runoff Area=3.131 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=435' Tc=11.6 min CN=61 Runoff=0.78 cfs 0.097 af

Subcatchment10: Subcat 10 Runoff Area=3.173 ac 0.00% Impervious Runoff Depth>0.18"
Flow Length=427' Tc=13.0 min CN=54 Runoff=0.23 cfs 0.046 af

Subcatchment11: Subcat 11 Runoff Area=5.661 ac 0.85% Impervious Runoff Depth>0.11"
Flow Length=598' Tc=16.1 min CN=51 Runoff=0.15 cfs 0.053 af

Subcatchment12: Subcat 12 Runoff Area=3.290 ac 4.83% Impervious Runoff Depth>0.48"
Flow Length=374' Tc=14.4 min CN=64 Runoff=1.17 cfs 0.130 af

Subcatchment13: Subcat 13 Runoff Area=18.033 ac 1.07% Impervious Runoff Depth>0.39"
Flow Length=1,351' Tc=63.8 min CN=62 Runoff=2.61 cfs 0.588 af

Subcatchment14: Subcat 14 Runoff Area=0.597 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=270' Tc=13.0 min CN=61 Runoff=0.15 cfs 0.018 af

Subcatchment15: Subcat 15 Runoff Area=2.521 ac 4.81% Impervious Runoff Depth>0.47"
Flow Length=562' Tc=21.3 min CN=64 Runoff=0.78 cfs 0.100 af

Subcatchment16: Subcat 16 Runoff Area=4.718 ac 0.92% Impervious Runoff Depth>0.40"
Flow Length=719' Tc=27.7 min CN=62 Runoff=1.05 cfs 0.158 af

Subcatchment17: Subcat 17 Runoff Area=5.336 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=704' Tc=22.6 min CN=61 Runoff=1.12 cfs 0.164 af

Subcatchment18: Subcat 18 Runoff Area=1.751 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=422' Tc=24.5 min CN=61 Runoff=0.36 cfs 0.054 af

Subcatchment19: Subcat 19 Runoff Area=21.570 ac 0.00% Impervious Runoff Depth>0.36"
Flow Length=1,667' Tc=45.7 min CN=61 Runoff=3.35 cfs 0.653 af

Subcatchment20: Subcat 20 Runoff Area=1.629 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=544' Tc=20.9 min CN=61 Runoff=0.35 cfs 0.050 af

Subcatchment21: Subcat 21 Runoff Area=3.990 ac 0.00% Impervious Runoff Depth>0.28"
Flow Length=1,249' Tc=29.8 min CN=58 Runoff=0.49 cfs 0.092 af

Subcatchment22: Subcat 22 Runoff Area=17.726 ac 0.00% Impervious Runoff Depth>0.36"
Flow Length=2,340' Tc=64.5 min CN=61 Runoff=2.26 cfs 0.529 af

Subcatchment23: Subcat 23 Runoff Area=0.264 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=133' Tc=5.3 min CN=61 Runoff=0.08 cfs 0.008 af

Subcatchment24: Subcat 24 Runoff Area=2.795 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=746' Tc=17.4 min CN=61 Runoff=0.63 cfs 0.086 af

Subcatchment25: Subcat 25 Runoff Area=12.168 ac 0.00% Impervious Runoff Depth>0.36"
Tc=45.8 min CN=61 Runoff=1.89 cfs 0.368 af

Subcatchment27: Subcat 27 Runoff Area=2.191 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=464' Tc=21.7 min CN=61 Runoff=0.47 cfs 0.067 af

Subcatchment28: Subcat 28 Runoff Area=7.360 ac 0.00% Impervious Runoff Depth>0.11"
Flow Length=461' Tc=16.1 min CN=51 Runoff=0.20 cfs 0.068 af

Subcatchment29: Subcat 29 Runoff Area=1.626 ac 0.00% Impervious Runoff Depth=0.00"
Flow Length=167' Tc=6.5 min CN=37 Runoff=0.00 cfs 0.000 af

Subcatchment30: Subcat 30 Runoff Area=3.911 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=380' Tc=11.2 min CN=61 Runoff=1.00 cfs 0.121 af

Subcatchment31: Subcat 31 Runoff Area=3.646 ac 0.00% Impervious Runoff Depth>0.00"
Flow Length=261' Tc=7.6 min CN=40 Runoff=0.00 cfs 0.000 af

Subcatchment33: Subcat 33 Runoff Area=14.255 ac 0.00% Impervious Runoff Depth>0.28"
Tc=0.0 min CN=58 Runoff=2.87 cfs 0.335 af

Subcatchment34: Subcat 34 Runoff Area=7.888 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=596' Tc=24.6 min CN=61 Runoff=1.61 cfs 0.242 af

Subcatchment35: Subcat 35 Runoff Area=7.628 ac 0.00% Impervious Runoff Depth>0.17"
Flow Length=579' Tc=23.5 min CN=54 Runoff=0.46 cfs 0.110 af

Pond 7P: (new Pond) Peak Elev=163.88' Storage=22,381 cf Inflow=2.53 cfs 0.514 af
Outflow=0.00 cfs 0.000 af

Pond 10P: (new Pond) Peak Elev=146.83' Storage=2,013 cf Inflow=0.23 cfs 0.046 af
Outflow=0.00 cfs 0.000 af

Pond 11P: (new Pond) Peak Elev=142.01' Storage=42 cf Inflow=0.15 cfs 0.053 af
Outflow=0.14 cfs 0.052 af

Pond 12P: (new Pond) Peak Elev=162.22' Storage=5,675 cf Inflow=1.17 cfs 0.130 af
Outflow=0.00 cfs 0.000 af

Pond 13P: (new Pond) Peak Elev=161.23' Storage=26,374 cf Inflow=2.66 cfs 0.606 af
Outflow=0.00 cfs 0.000 af

Pond 15P: (new Pond) Peak Elev=162.60' Storage=4,331 cf Inflow=0.78 cfs 0.100 af
Outflow=0.00 cfs 0.000 af

Pond 16P: (new Pond) Peak Elev=162.41' Storage=6,859 cf Inflow=1.05 cfs 0.158 af
Outflow=0.00 cfs 0.000 af

Pond 19P: (new Pond) Peak Elev=153.04' Storage=25,921 cf Inflow=3.35 cfs 0.653 af
Outflow=0.37 cfs 0.058 af

Pond 28P: (new Pond) Peak Elev=151.02' Storage=2,969 cf Inflow=0.20 cfs 0.068 af
Outflow=0.00 cfs 0.000 af

Pond 29P: (new Pond) Peak Elev=146.00' Storage=0 cf Inflow=0.00 cfs 0.000 af
Outflow=0.00 cfs 0.000 af

Pond 30P: (new Pond) Peak Elev=169.74' Storage=5,271 cf Inflow=1.00 cfs 0.121 af
Outflow=0.00 cfs 0.000 af

Pond 33P: (new Pond) Peak Elev=150.41' Storage=14,573 cf Inflow=2.87 cfs 0.335 af
Outflow=0.00 cfs 0.000 af

Pond 34P: (new Pond) Peak Elev=152.83' Storage=10,541 cf Inflow=1.61 cfs 0.242 af
Outflow=0.00 cfs 0.000 af

Pond 35P: (new Pond) Peak Elev=155.00' Storage=4,801 cf Inflow=0.46 cfs 0.110 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 200.805 ac Runoff Volume = 5.177 af Average Runoff Depth = 0.31"
99.72% Pervious = 200.240 ac 0.28% Impervious = 0.565 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1: Subcat 1 Runoff Area=0.864 ac 0.00% Impervious Runoff Depth>1.78"
Flow Length=247' Tc=7.8 min CN=59 Runoff=1.73 cfs 0.128 af

Subcatchment2: Subcat 2 Runoff Area=4.510 ac 0.00% Impervious Runoff Depth>0.53"
Flow Length=343' Tc=9.5 min CN=41 Runoff=1.31 cfs 0.198 af

Subcatchment3: Subcat 3 Runoff Area=2.727 ac 0.00% Impervious Runoff Depth>0.96"
Flow Length=188' Tc=9.5 min CN=48 Runoff=2.28 cfs 0.218 af

Subcatchment4: Subcat 4 Runoff Area=3.638 ac 0.00% Impervious Runoff Depth>1.62"
Flow Length=462' Tc=11.1 min CN=57 Runoff=5.86 cfs 0.490 af

Subcatchment5: Subcat 5 Runoff Area=8.688 ac 0.00% Impervious Runoff Depth>1.85"
Flow Length=790' Tc=24.2 min CN=60 Runoff=12.21 cfs 1.337 af

Subcatchment6: Subcat 6 Runoff Area=6.472 ac 0.00% Impervious Runoff Depth>1.77"
Flow Length=527' Tc=16.2 min CN=59 Runoff=10.13 cfs 0.956 af

Subcatchment7: Subcat 7 Runoff Area=17.047 ac 0.00% Impervious Runoff Depth>1.91"
Flow Length=1,407' Tc=49.6 min CN=61 Runoff=17.77 cfs 2.709 af

Subcatchment8: Subcat 8 Runoff Area=3.131 ac 0.00% Impervious Runoff Depth>1.94"
Flow Length=435' Tc=11.6 min CN=61 Runoff=6.15 cfs 0.506 af

Subcatchment10: Subcat 10 Runoff Area=3.173 ac 0.00% Impervious Runoff Depth>1.38"
Flow Length=427' Tc=13.0 min CN=54 Runoff=3.98 cfs 0.366 af

Subcatchment11: Subcat 11 Runoff Area=5.661 ac 0.85% Impervious Runoff Depth>1.16"
Flow Length=598' Tc=16.1 min CN=51 Runoff=5.22 cfs 0.549 af

Subcatchment12: Subcat 12 Runoff Area=3.290 ac 4.83% Impervious Runoff Depth>2.19"
Flow Length=374' Tc=14.4 min CN=64 Runoff=6.86 cfs 0.601 af

Subcatchment13: Subcat 13 Runoff Area=18.033 ac 1.07% Impervious Runoff Depth>1.98"
Flow Length=1,351' Tc=63.8 min CN=62 Runoff=16.93 cfs 2.970 af

Subcatchment14: Subcat 14 Runoff Area=0.597 ac 0.00% Impervious Runoff Depth>1.94"
Flow Length=270' Tc=13.0 min CN=61 Runoff=1.12 cfs 0.096 af

Subcatchment15: Subcat 15 Runoff Area=2.521 ac 4.81% Impervious Runoff Depth>2.18"
Flow Length=562' Tc=21.3 min CN=64 Runoff=4.50 cfs 0.459 af

Subcatchment16: Subcat 16 Runoff Area=4.718 ac 0.92% Impervious Runoff Depth>2.01"
Flow Length=719' Tc=27.7 min CN=62 Runoff=6.89 cfs 0.790 af

Subcatchment17: Subcat 17 Runoff Area=5.336 ac 0.00% Impervious Runoff Depth>1.93"
Flow Length=704' Tc=22.6 min CN=61 Runoff=8.10 cfs 0.859 af

Subcatchment18: Subcat 18 Runoff Area=1.751 ac 0.00% Impervious Runoff Depth>1.93"
Flow Length=422' Tc=24.5 min CN=61 Runoff=2.57 cfs 0.282 af

Subcatchment19: Subcat 19 Runoff Area=21.570 ac 0.00% Impervious Runoff Depth>1.91"
Flow Length=1,667' Tc=45.7 min CN=61 Runoff=23.57 cfs 3.434 af

Subcatchment20: Subcat 20 Runoff Area=1.629 ac 0.00% Impervious Runoff Depth>1.93"
Flow Length=544' Tc=20.9 min CN=61 Runoff=2.56 cfs 0.262 af

Subcatchment21: Subcat 21 Runoff Area=3.990 ac 0.00% Impervious Runoff Depth>1.68"
Flow Length=1,249' Tc=29.8 min CN=58 Runoff=4.61 cfs 0.559 af

Subcatchment22: Subcat 22 Runoff Area=17.726 ac 0.00% Impervious Runoff Depth>1.89"
Flow Length=2,340' Tc=64.5 min CN=61 Runoff=15.75 cfs 2.797 af

Subcatchment23: Subcat 23 Runoff Area=0.264 ac 0.00% Impervious Runoff Depth>1.95"
Flow Length=133' Tc=5.3 min CN=61 Runoff=0.63 cfs 0.043 af

Subcatchment24: Subcat 24 Runoff Area=2.795 ac 0.00% Impervious Runoff Depth>1.94"
Flow Length=746' Tc=17.4 min CN=61 Runoff=4.72 cfs 0.451 af

Subcatchment25: Subcat 25 Runoff Area=12.168 ac 0.00% Impervious Runoff Depth>1.91"
Tc=45.8 min CN=61 Runoff=13.26 cfs 1.937 af

Subcatchment27: Subcat 27 Runoff Area=2.191 ac 0.00% Impervious Runoff Depth>1.93"
Flow Length=464' Tc=21.7 min CN=61 Runoff=3.39 cfs 0.353 af

Subcatchment28: Subcat 28 Runoff Area=7.360 ac 0.00% Impervious Runoff Depth>1.16"
Flow Length=461' Tc=16.1 min CN=51 Runoff=6.79 cfs 0.713 af

Subcatchment29: Subcat 29 Runoff Area=1.626 ac 0.00% Impervious Runoff Depth>0.32"
Flow Length=167' Tc=6.5 min CN=37 Runoff=0.22 cfs 0.043 af

Subcatchment30: Subcat 30 Runoff Area=3.911 ac 0.00% Impervious Runoff Depth>1.94"
Flow Length=380' Tc=11.2 min CN=61 Runoff=7.78 cfs 0.632 af

Subcatchment31: Subcat 31 Runoff Area=3.646 ac 0.00% Impervious Runoff Depth>0.47"
Flow Length=261' Tc=7.6 min CN=40 Runoff=0.91 cfs 0.143 af

Subcatchment33: Subcat 33 Runoff Area=14.255 ac 0.00% Impervious Runoff Depth>1.70"
Tc=0.0 min CN=58 Runoff=33.60 cfs 2.025 af

Subcatchment34: Subcat 34 Runoff Area=7.888 ac 0.00% Impervious Runoff Depth>1.93"
Flow Length=596' Tc=24.6 min CN=61 Runoff=11.57 cfs 1.268 af

Subcatchment35: Subcat 35 Runoff Area=7.628 ac 0.00% Impervious Runoff Depth>1.38"
Flow Length=579' Tc=23.5 min CN=54 Runoff=7.64 cfs 0.876 af

Pond 7P: (new Pond) Peak Elev=164.57' Storage=108,081 cf Inflow=17.77 cfs 2.709 af
Outflow=0.94 cfs 0.227 af

Pond 10P: (new Pond) Peak Elev=149.12' Storage=15,938 cf Inflow=3.98 cfs 0.366 af
Outflow=0.00 cfs 0.000 af

Pond 11P: (new Pond) Peak Elev=142.33' Storage=1,197 cf Inflow=5.22 cfs 0.549 af
Outflow=4.96 cfs 0.547 af

Pond 12P: (new Pond) Peak Elev=162.68' Storage=26,147 cf Inflow=6.86 cfs 0.601 af
Outflow=0.00 cfs 0.000 af

Pond 13P: (new Pond) Peak Elev=161.64' Storage=55,889 cf Inflow=17.14 cfs 3.066 af
Outflow=9.72 cfs 1.992 af

Pond 15P: (new Pond) Peak Elev=163.29' Storage=19,982 cf Inflow=4.50 cfs 0.459 af
Outflow=0.00 cfs 0.000 af

Pond 16P: (new Pond) Peak Elev=162.97' Storage=34,386 cf Inflow=6.89 cfs 0.790 af
Outflow=0.00 cfs 0.000 af

Pond 19P: (new Pond) Peak Elev=153.49' Storage=40,773 cf Inflow=23.57 cfs 3.434 af
Outflow=18.28 cfs 2.806 af

Pond 28P: (new Pond) Peak Elev=153.81' Storage=31,034 cf Inflow=6.79 cfs 0.713 af
Outflow=0.00 cfs 0.000 af

Pond 29P: (new Pond) Peak Elev=147.32' Storage=1,888 cf Inflow=0.22 cfs 0.043 af
Outflow=0.00 cfs 0.000 af

Pond 30P: (new Pond) Peak Elev=170.68' Storage=27,525 cf Inflow=7.78 cfs 0.632 af
Outflow=0.00 cfs 0.000 af

Pond 33P: (new Pond) Peak Elev=152.13' Storage=88,157 cf Inflow=33.60 cfs 2.025 af
Outflow=0.00 cfs 0.000 af

Pond 34P: (new Pond) Peak Elev=154.99' Storage=55,192 cf Inflow=11.57 cfs 1.268 af
Outflow=0.00 cfs 0.000 af

Pond 35P: (new Pond) Peak Elev=157.02' Storage=38,101 cf Inflow=7.64 cfs 0.876 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 200.805 ac Runoff Volume = 29.049 af Average Runoff Depth = 1.74"
99.72% Pervious = 200.240 ac 0.28% Impervious = 0.565 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1: Subcat 1 Runoff Area=0.864 ac 0.00% Impervious Runoff Depth>2.31"
Flow Length=247' Tc=7.8 min CN=59 Runoff=2.28 cfs 0.166 af

Subcatchment2: Subcat 2 Runoff Area=4.510 ac 0.00% Impervious Runoff Depth>0.80"
Flow Length=343' Tc=9.5 min CN=41 Runoff=2.53 cfs 0.302 af

Subcatchment3: Subcat 3 Runoff Area=2.727 ac 0.00% Impervious Runoff Depth>1.34"
Flow Length=188' Tc=9.5 min CN=48 Runoff=3.50 cfs 0.305 af

Subcatchment4: Subcat 4 Runoff Area=3.638 ac 0.00% Impervious Runoff Depth>2.12"
Flow Length=462' Tc=11.1 min CN=57 Runoff=7.88 cfs 0.642 af

Subcatchment5: Subcat 5 Runoff Area=8.688 ac 0.00% Impervious Runoff Depth>2.38"
Flow Length=790' Tc=24.2 min CN=60 Runoff=16.00 cfs 1.726 af

Subcatchment6: Subcat 6 Runoff Area=6.472 ac 0.00% Impervious Runoff Depth>2.30"
Flow Length=527' Tc=16.2 min CN=59 Runoff=13.38 cfs 1.240 af

Subcatchment7: Subcat 7 Runoff Area=17.047 ac 0.00% Impervious Runoff Depth>2.45"
Flow Length=1,407' Tc=49.6 min CN=61 Runoff=23.11 cfs 3.481 af

Subcatchment8: Subcat 8 Runoff Area=3.131 ac 0.00% Impervious Runoff Depth>2.49"
Flow Length=435' Tc=11.6 min CN=61 Runoff=8.01 cfs 0.650 af

Subcatchment10: Subcat 10 Runoff Area=3.173 ac 0.00% Impervious Runoff Depth>1.85"
Flow Length=427' Tc=13.0 min CN=54 Runoff=5.52 cfs 0.489 af

Subcatchment11: Subcat 11 Runoff Area=5.661 ac 0.85% Impervious Runoff Depth>1.59"
Flow Length=598' Tc=16.1 min CN=51 Runoff=7.55 cfs 0.748 af

Subcatchment12: Subcat 12 Runoff Area=3.290 ac 4.83% Impervious Runoff Depth>2.77"
Flow Length=374' Tc=14.4 min CN=64 Runoff=8.76 cfs 0.761 af

Subcatchment13: Subcat 13 Runoff Area=18.033 ac 1.07% Impervious Runoff Depth>2.53"
Flow Length=1,351' Tc=63.8 min CN=62 Runoff=21.91 cfs 3.799 af

Subcatchment14: Subcat 14 Runoff Area=0.597 ac 0.00% Impervious Runoff Depth>2.49"
Flow Length=270' Tc=13.0 min CN=61 Runoff=1.46 cfs 0.124 af

Subcatchment15: Subcat 15 Runoff Area=2.521 ac 4.81% Impervious Runoff Depth>2.77"
Flow Length=562' Tc=21.3 min CN=64 Runoff=5.75 cfs 0.581 af

Subcatchment16: Subcat 16 Runoff Area=4.718 ac 0.92% Impervious Runoff Depth>2.57"
Flow Length=719' Tc=27.7 min CN=62 Runoff=8.90 cfs 1.010 af

Subcatchment17: Subcat 17 Runoff Area=5.336 ac 0.00% Impervious Runoff Depth>2.48"
Flow Length=704' Tc=22.6 min CN=61 Runoff=10.54 cfs 1.102 af

Subcatchment18: Subcat 18 Runoff Area=1.751 ac 0.00% Impervious Runoff Depth>2.48"
Flow Length=422' Tc=24.5 min CN=61 Runoff=3.35 cfs 0.362 af

Subcatchment19: Subcat 19 Runoff Area=21.570 ac 0.00% Impervious Runoff Depth>2.45"
Flow Length=1,667' Tc=45.7 min CN=61 Runoff=30.66 cfs 4.412 af

Subcatchment20: Subcat 20 Runoff Area=1.629 ac 0.00% Impervious Runoff Depth>2.48"
Flow Length=544' Tc=20.9 min CN=61 Runoff=3.33 cfs 0.337 af

Subcatchment21: Subcat 21 Runoff Area=3.990 ac 0.00% Impervious Runoff Depth>2.19"
Flow Length=1,249' Tc=29.8 min CN=58 Runoff=6.13 cfs 0.729 af

Subcatchment22: Subcat 22 Runoff Area=17.726 ac 0.00% Impervious Runoff Depth>2.43"
Flow Length=2,340' Tc=64.5 min CN=61 Runoff=20.51 cfs 3.595 af

Subcatchment23: Subcat 23 Runoff Area=0.264 ac 0.00% Impervious Runoff Depth>2.50"
Flow Length=133' Tc=5.3 min CN=61 Runoff=0.82 cfs 0.055 af

Subcatchment24: Subcat 24 Runoff Area=2.795 ac 0.00% Impervious Runoff Depth>2.48"
Flow Length=746' Tc=17.4 min CN=61 Runoff=6.15 cfs 0.579 af

Subcatchment25: Subcat 25 Runoff Area=12.168 ac 0.00% Impervious Runoff Depth>2.45"
Tc=45.8 min CN=61 Runoff=17.25 cfs 2.489 af

Subcatchment27: Subcat 27 Runoff Area=2.191 ac 0.00% Impervious Runoff Depth>2.48"
Flow Length=464' Tc=21.7 min CN=61 Runoff=4.41 cfs 0.453 af

Subcatchment28: Subcat 28 Runoff Area=7.360 ac 0.00% Impervious Runoff Depth>1.59"
Flow Length=461' Tc=16.1 min CN=51 Runoff=9.81 cfs 0.973 af

Subcatchment29: Subcat 29 Runoff Area=1.626 ac 0.00% Impervious Runoff Depth>0.54"
Flow Length=167' Tc=6.5 min CN=37 Runoff=0.46 cfs 0.073 af

Subcatchment30: Subcat 30 Runoff Area=3.911 ac 0.00% Impervious Runoff Depth>2.49"
Flow Length=380' Tc=11.2 min CN=61 Runoff=10.13 cfs 0.812 af

Subcatchment31: Subcat 31 Runoff Area=3.646 ac 0.00% Impervious Runoff Depth>0.74"
Flow Length=261' Tc=7.6 min CN=40 Runoff=1.85 cfs 0.223 af

Subcatchment33: Subcat 33 Runoff Area=14.255 ac 0.00% Impervious Runoff Depth>2.22"
Tc=0.0 min CN=58 Runoff=44.71 cfs 2.639 af

Subcatchment34: Subcat 34 Runoff Area=7.888 ac 0.00% Impervious Runoff Depth>2.48"
Flow Length=596' Tc=24.6 min CN=61 Runoff=15.05 cfs 1.628 af

Subcatchment35: Subcat 35 Runoff Area=7.628 ac 0.00% Impervious Runoff Depth>1.84"
Flow Length=579' Tc=23.5 min CN=54 Runoff=10.56 cfs 1.169 af

Pond 7P: (new Pond) Peak Elev=164.62' Storage=118,720 cf Inflow=23.11 cfs 3.481 af
Outflow=2.11 cfs 0.848 af

Pond 10P: (new Pond) Peak Elev=149.63' Storage=21,272 cf Inflow=5.52 cfs 0.489 af
Outflow=0.00 cfs 0.000 af

Pond 11P: (new Pond) Peak Elev=142.42' Storage=1,579 cf Inflow=7.55 cfs 0.748 af
Outflow=7.27 cfs 0.746 af

Pond 12P: (new Pond) Peak Elev=162.80' Storage=33,116 cf Inflow=8.76 cfs 0.761 af
Outflow=0.00 cfs 0.000 af

Pond 13P: (new Pond) Peak Elev=161.69' Storage=60,803 cf Inflow=22.18 cfs 3.923 af
Outflow=15.74 cfs 2.839 af

Pond 15P: (new Pond) Peak Elev=163.45' Storage=25,312 cf Inflow=5.75 cfs 0.581 af
Outflow=0.00 cfs 0.000 af

Pond 16P: (new Pond) Peak Elev=163.02' Storage=38,069 cf Inflow=8.90 cfs 1.010 af
Outflow=0.51 cfs 0.144 af

Pond 19P: (new Pond) Peak Elev=153.62' Storage=45,325 cf Inflow=30.66 cfs 4.412 af
Outflow=26.12 cfs 3.776 af

Pond 28P: (new Pond) Peak Elev=154.41' Storage=42,310 cf Inflow=9.81 cfs 0.973 af
Outflow=0.00 cfs 0.000 af

Pond 29P: (new Pond) Peak Elev=147.90' Storage=3,166 cf Inflow=0.46 cfs 0.073 af
Outflow=0.00 cfs 0.000 af

Pond 30P: (new Pond) Peak Elev=170.90' Storage=35,332 cf Inflow=10.13 cfs 0.812 af
Outflow=0.00 cfs 0.000 af

Pond 33P: (new Pond) Peak Elev=152.65' Storage=114,863 cf Inflow=44.71 cfs 2.639 af
Outflow=0.00 cfs 0.000 af

Pond 34P: (new Pond) Peak Elev=155.54' Storage=70,875 cf Inflow=15.05 cfs 1.628 af
Outflow=0.00 cfs 0.000 af

Pond 35P: (new Pond) Peak Elev=157.26' Storage=50,873 cf Inflow=10.56 cfs 1.169 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 200.805 ac Runoff Volume = 37.651 af Average Runoff Depth = 2.25"
99.72% Pervious = 200.240 ac 0.28% Impervious = 0.565 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment1: Subcat 1 Runoff Area=0.864 ac 0.00% Impervious Runoff Depth>2.94"
Flow Length=247' Tc=7.8 min CN=59 Runoff=2.94 cfs 0.212 af

Subcatchment2: Subcat 2 Runoff Area=4.510 ac 0.00% Impervious Runoff Depth>1.17"
Flow Length=343' Tc=9.5 min CN=41 Runoff=4.45 cfs 0.439 af

Subcatchment3: Subcat 3 Runoff Area=2.727 ac 0.00% Impervious Runoff Depth>1.82"
Flow Length=188' Tc=9.5 min CN=48 Runoff=5.01 cfs 0.413 af

Subcatchment4: Subcat 4 Runoff Area=3.638 ac 0.00% Impervious Runoff Depth>2.72"
Flow Length=462' Tc=11.1 min CN=57 Runoff=10.29 cfs 0.825 af

Subcatchment5: Subcat 5 Runoff Area=8.688 ac 0.00% Impervious Runoff Depth>3.02"
Flow Length=790' Tc=24.2 min CN=60 Runoff=20.48 cfs 2.188 af

Subcatchment6: Subcat 6 Runoff Area=6.472 ac 0.00% Impervious Runoff Depth>2.93"
Flow Length=527' Tc=16.2 min CN=59 Runoff=17.24 cfs 1.578 af

Subcatchment7: Subcat 7 Runoff Area=17.047 ac 0.00% Impervious Runoff Depth>3.10"
Flow Length=1,407' Tc=49.6 min CN=61 Runoff=29.41 cfs 4.398 af

Subcatchment8: Subcat 8 Runoff Area=3.131 ac 0.00% Impervious Runoff Depth>3.14"
Flow Length=435' Tc=11.6 min CN=61 Runoff=10.20 cfs 0.820 af

Subcatchment10: Subcat 10 Runoff Area=3.173 ac 0.00% Impervious Runoff Depth>2.41"
Flow Length=427' Tc=13.0 min CN=54 Runoff=7.38 cfs 0.638 af

Subcatchment11: Subcat 11 Runoff Area=5.661 ac 0.85% Impervious Runoff Depth>2.11"
Flow Length=598' Tc=16.1 min CN=51 Runoff=10.39 cfs 0.993 af

Subcatchment12: Subcat 12 Runoff Area=3.290 ac 4.83% Impervious Runoff Depth>3.46"
Flow Length=374' Tc=14.4 min CN=64 Runoff=10.98 cfs 0.949 af

Subcatchment13: Subcat 13 Runoff Area=18.033 ac 1.07% Impervious Runoff Depth>3.18"
Flow Length=1,351' Tc=63.8 min CN=62 Runoff=27.77 cfs 4.782 af

Subcatchment14: Subcat 14 Runoff Area=0.597 ac 0.00% Impervious Runoff Depth>3.14"
Flow Length=270' Tc=13.0 min CN=61 Runoff=1.86 cfs 0.156 af

Subcatchment15: Subcat 15 Runoff Area=2.521 ac 4.81% Impervious Runoff Depth>3.45"
Flow Length=562' Tc=21.3 min CN=64 Runoff=7.20 cfs 0.726 af

Subcatchment16: Subcat 16 Runoff Area=4.718 ac 0.92% Impervious Runoff Depth>3.23"
Flow Length=719' Tc=27.7 min CN=62 Runoff=11.27 cfs 1.270 af

Subcatchment17: Subcat 17 Runoff Area=5.336 ac 0.00% Impervious Runoff Depth>3.13"
Flow Length=704' Tc=22.6 min CN=61 Runoff=13.41 cfs 1.392 af

Subcatchment18: Subcat 18 Runoff Area=1.751 ac 0.00% Impervious Runoff Depth>3.13"
Flow Length=422' Tc=24.5 min CN=61 Runoff=4.26 cfs 0.457 af

Subcatchment19: Subcat 19 Runoff Area=21.570 ac 0.00% Impervious Runoff Depth>3.10"
Flow Length=1,667' Tc=45.7 min CN=61 Runoff=39.03 cfs 5.574 af

Subcatchment20: Subcat 20 Runoff Area=1.629 ac 0.00% Impervious Runoff Depth>3.13"
Flow Length=544' Tc=20.9 min CN=61 Runoff=4.23 cfs 0.425 af

Subcatchment21: Subcat 21 Runoff Area=3.990 ac 0.00% Impervious Runoff Depth>2.81"
Flow Length=1,249' Tc=29.8 min CN=58 Runoff=7.94 cfs 0.933 af

Subcatchment22: Subcat 22 Runoff Area=17.726 ac 0.00% Impervious Runoff Depth>3.08"
Flow Length=2,340' Tc=64.5 min CN=61 Runoff=26.14 cfs 4.543 af

Subcatchment23: Subcat 23 Runoff Area=0.264 ac 0.00% Impervious Runoff Depth>3.15"
Flow Length=133' Tc=5.3 min CN=61 Runoff=1.04 cfs 0.069 af

Subcatchment24: Subcat 24 Runoff Area=2.795 ac 0.00% Impervious Runoff Depth>3.14"
Flow Length=746' Tc=17.4 min CN=61 Runoff=7.83 cfs 0.731 af

Subcatchment25: Subcat 25 Runoff Area=12.168 ac 0.00% Impervious Runoff Depth>3.10"
Tc=45.8 min CN=61 Runoff=21.96 cfs 3.144 af

Subcatchment27: Subcat 27 Runoff Area=2.191 ac 0.00% Impervious Runoff Depth>3.13"
Flow Length=464' Tc=21.7 min CN=61 Runoff=5.61 cfs 0.572 af

Subcatchment28: Subcat 28 Runoff Area=7.360 ac 0.00% Impervious Runoff Depth>2.11"
Flow Length=461' Tc=16.1 min CN=51 Runoff=13.51 cfs 1.292 af

Subcatchment29: Subcat 29 Runoff Area=1.626 ac 0.00% Impervious Runoff Depth>0.83"
Flow Length=167' Tc=6.5 min CN=37 Runoff=0.96 cfs 0.113 af

Subcatchment30: Subcat 30 Runoff Area=3.911 ac 0.00% Impervious Runoff Depth>3.14"
Flow Length=380' Tc=11.2 min CN=61 Runoff=12.89 cfs 1.025 af

Subcatchment31: Subcat 31 Runoff Area=3.646 ac 0.00% Impervious Runoff Depth>1.08"
Flow Length=261' Tc=7.6 min CN=40 Runoff=3.35 cfs 0.329 af

Subcatchment33: Subcat 33 Runoff Area=14.255 ac 0.00% Impervious Runoff Depth>2.84"
Tc=0.0 min CN=58 Runoff=57.90 cfs 3.374 af

Subcatchment34: Subcat 34 Runoff Area=7.888 ac 0.00% Impervious Runoff Depth>3.13"
Flow Length=596' Tc=24.6 min CN=61 Runoff=19.16 cfs 2.056 af

Subcatchment35: Subcat 35 Runoff Area=7.628 ac 0.00% Impervious Runoff Depth>2.40"
Flow Length=579' Tc=23.5 min CN=54 Runoff=14.10 cfs 1.526 af

Pond 7P: (new Pond) Peak Elev=164.68' Storage=131,492 cf Inflow=29.41 cfs 4.398 af
Outflow=3.86 cfs 1.669 af

Pond 10P: (new Pond) Peak Elev=150.16' Storage=27,755 cf Inflow=7.38 cfs 0.638 af
Outflow=0.00 cfs 0.000 af

Pond 11P: (new Pond) Peak Elev=142.52' Storage=2,024 cf Inflow=10.39 cfs 0.993 af
Outflow=10.03 cfs 0.991 af

Pond 12P: (new Pond) Peak Elev=162.92' Storage=41,323 cf Inflow=10.98 cfs 0.949 af
Outflow=0.00 cfs 0.000 af

Pond 13P: (new Pond) Peak Elev=161.74' Storage=66,055 cf Inflow=28.13 cfs 4.939 af
Outflow=22.78 cfs 3.846 af

Pond 15P: (new Pond) Peak Elev=163.62' Storage=31,589 cf Inflow=7.20 cfs 0.726 af
Outflow=0.00 cfs 0.000 af

Pond 16P: (new Pond) Peak Elev=163.04' Storage=39,432 cf Inflow=11.27 cfs 1.270 af
Outflow=1.19 cfs 0.400 af

Pond 19P: (new Pond) Peak Elev=153.75' Storage=50,457 cf Inflow=39.03 cfs 5.574 af
Outflow=34.70 cfs 4.929 af

Pond 28P: (new Pond) Peak Elev=155.02' Storage=56,199 cf Inflow=13.51 cfs 1.292 af
Outflow=0.00 cfs 0.000 af

Pond 29P: (new Pond) Peak Elev=148.53' Storage=4,907 cf Inflow=0.96 cfs 0.113 af
Outflow=0.00 cfs 0.000 af

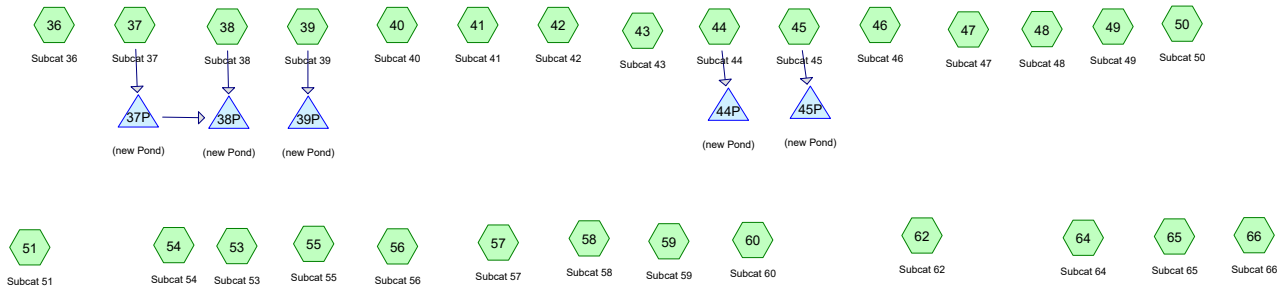
Pond 30P: (new Pond) Peak Elev=171.13' Storage=44,607 cf Inflow=12.89 cfs 1.025 af
Outflow=0.00 cfs 0.000 af

Pond 33P: (new Pond) Peak Elev=153.22' Storage=146,865 cf Inflow=57.90 cfs 3.374 af
Outflow=0.00 cfs 0.000 af

Pond 34P: (new Pond) Peak Elev=156.11' Storage=89,474 cf Inflow=19.16 cfs 2.056 af
Outflow=0.00 cfs 0.000 af

Pond 35P: (new Pond) Peak Elev=157.52' Storage=66,405 cf Inflow=14.10 cfs 1.526 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 200.805 ac Runoff Volume = 47.941 af Average Runoff Depth = 2.86"
99.72% Pervious = 200.240 ac 0.28% Impervious = 0.565 ac



Subcat Reach Pond Link

Routing Diagram for Proposed Conditions - South Plantation
Prepared by VHB, Printed 7/22/2020

Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
0.000	0	, HSG A (54)
0.012	46	2 acre lots, 12% imp, HSG A (64)
4.022	65	2 acre lots, 12% imp, HSG B (36, 62)
9.708	39	>75% Grass cover, Good, HSG A (40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 53, 54, 55, 56, 57, 58, 59, 60, 62, 64, 65)
115.246	61	>75% Grass cover, Good, HSG B (36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 62, 64, 65, 66)
0.105	89	Paved roads w/open ditches, 50% imp, HSG B (36, 37, 39, 62, 66)
14.570	36	Woods, Fair, HSG A (47, 48, 49, 50, 51, 53, 54, 57, 58, 59, 60)
2.295	60	Woods, Fair, HSG B (46, 47, 48, 49, 50, 51, 53, 54, 57)
145.958	**57**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
24.289	HSG A	40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 62, 64, 65
121.668	HSG B	36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 62, 64, 65, 66
0.000	HSG C	
0.000	HSG D	
0.000	Other	
145.958		**TOTAL AREA**

Ground Covers (all nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatch Numbers
0.000	0.000	0.000	0.000	0.000	0.000		
0.012	4.022	0.000	0.000	0.000	4.033	2 acre lots, 12% imp	
9.708	115.246	0.000	0.000	0.000	124.954	>75% Grass cover, Good	
0.000	0.105	0.000	0.000	0.000	0.105	Paved roads w/open ditches, 50% imp	
14.570	2.295	0.000	0.000	0.000	16.865	Woods, Fair	
24.289	**121.668**	**0.000**	**0.000**	**0.000**	**145.958**	**TOTAL AREA**	

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment36: Subcat 36 Runoff Area=8.684 ac 0.33% Impervious Runoff Depth>0.37"
Flow Length=944' Tc=33.6 min CN=61 Runoff=1.57 cfs 0.265 af

Subcatchment37: Subcat 37 Runoff Area=1.143 ac 0.10% Impervious Runoff Depth>0.37"
Flow Length=405' Tc=17.0 min CN=61 Runoff=0.26 cfs 0.035 af

Subcatchment38: Subcat 38 Runoff Area=3.921 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=567' Tc=23.7 min CN=61 Runoff=0.81 cfs 0.121 af

Subcatchment39: Subcat 39 Runoff Area=2.047 ac 0.60% Impervious Runoff Depth>0.37"
Flow Length=200' Tc=10.6 min CN=61 Runoff=0.53 cfs 0.063 af

Subcatchment40: Subcat 40 Runoff Area=0.652 ac 0.00% Impervious Runoff Depth>0.37"
Flow Length=208' Tc=10.2 min CN=61 Runoff=0.17 cfs 0.020 af

Subcatchment41: Subcat 41 Runoff Area=0.889 ac 0.00% Impervious Runoff Depth>0.28"
Flow Length=245' Tc=8.6 min CN=58 Runoff=0.14 cfs 0.021 af

Subcatchment42: Subcat 42 Runoff Area=1.849 ac 0.00% Impervious Runoff Depth>0.25"
Flow Length=384' Tc=13.0 min CN=57 Runoff=0.24 cfs 0.039 af

Subcatchment43: Subcat 43 Runoff Area=0.915 ac 0.00% Impervious Runoff Depth>0.25"
Flow Length=354' Tc=15.5 min CN=57 Runoff=0.12 cfs 0.019 af

Subcatchment44: Subcat 44 Runoff Area=2.114 ac 0.00% Impervious Runoff Depth>0.31"
Flow Length=363' Tc=10.2 min CN=59 Runoff=0.39 cfs 0.054 af

Subcatchment45: Subcat 45 Runoff Area=2.350 ac 0.00% Impervious Runoff Depth>0.31"
Flow Length=214' Tc=6.4 min CN=59 Runoff=0.49 cfs 0.061 af

Subcatchment46: Subcat 46 Runoff Area=3.063 ac 0.00% Impervious Runoff Depth>0.34"
Flow Length=522' Tc=11.7 min CN=60 Runoff=0.66 cfs 0.087 af

Subcatchment47: Subcat 47 Runoff Area=3.767 ac 0.00% Impervious Runoff Depth>0.08"
Flow Length=463' Tc=13.8 min CN=49 Runoff=0.05 cfs 0.024 af

Subcatchment48: Subcat 48 Runoff Area=5.342 ac 0.00% Impervious Runoff Depth>0.15"
Flow Length=376' Tc=12.5 min CN=53 Runoff=0.30 cfs 0.068 af

Subcatchment49: Subcat 49 Runoff Area=3.212 ac 0.00% Impervious Runoff Depth>0.11"
Flow Length=466' Tc=14.7 min CN=51 Runoff=0.09 cfs 0.030 af

Subcatchment50: Subcat 50 Runoff Area=7.384 ac 0.00% Impervious Runoff Depth>0.20"
Tc=14.7 min CN=55 Runoff=0.64 cfs 0.122 af

Subcatchment51: Subcat 51 Runoff Area=27.555 ac 0.00% Impervious Runoff Depth>0.36"
Flow Length=1,356' Tc=39.9 min CN=61 Runoff=4.60 cfs 0.837 af

Subcatchment53: Subcat 53 Runoff Area=4.763 ac 0.00% Impervious Runoff Depth>0.00"
Tc=0.0 min CN=40 Runoff=0.00 cfs 0.000 af

Subcatchment54: Subcat 54 Runoff Area=4.936 ac 0.00% Impervious Runoff Depth>0.00"
Tc=0.0 min CN=42 Runoff=0.01 cfs 0.002 af

Subcatchment55: Subcat 55 Runoff Area=2.683 ac 0.00% Impervious Runoff Depth>0.31"
Flow Length=790' Tc=23.0 min CN=59 Runoff=0.42 cfs 0.068 af

Subcatchment56: Subcat 56 Runoff Area=7.230 ac 0.00% Impervious Runoff Depth>0.37"
Tc=0.0 min CN=61 Runoff=2.51 cfs 0.226 af

Subcatchment57: Subcat 57 Runoff Area=5.692 ac 0.00% Impervious Runoff Depth>0.34"
Flow Length=567' Tc=17.8 min CN=60 Runoff=1.11 cfs 0.160 af

Subcatchment58: Subcat 58 Runoff Area=2.853 ac 0.00% Impervious Runoff Depth>0.04"
Flow Length=591' Tc=14.0 min CN=46 Runoff=0.02 cfs 0.009 af

Subcatchment59: Subcat 59 Runoff Area=4.073 ac 0.00% Impervious Runoff Depth>0.02"
Flow Length=316' Tc=12.3 min CN=44 Runoff=0.01 cfs 0.006 af

Subcatchment60: Subcat 60 Runoff Area=7.389 ac 0.00% Impervious Runoff Depth>0.30"
Flow Length=1,003' Tc=38.2 min CN=59 Runoff=0.95 cfs 0.186 af

Subcatchment62: Subcat 62 Runoff Area=24.202 ac 2.00% Impervious Runoff Depth>0.34"
Flow Length=1,288' Tc=29.7 min CN=60 Runoff=4.02 cfs 0.676 af

Subcatchment64: Subcat 64 Runoff Area=1.772 ac 0.08% Impervious Runoff Depth>0.15"
Flow Length=404' Tc=15.4 min CN=53 Runoff=0.09 cfs 0.023 af

Subcatchment65: Subcat 65 Runoff Area=3.565 ac 0.00% Impervious Runoff Depth>0.31"
Flow Length=599' Tc=25.1 min CN=59 Runoff=0.54 cfs 0.091 af

Subcatchment66: Subcat 66 Runoff Area=1.913 ac 0.49% Impervious Runoff Depth>0.37"
Flow Length=379' Tc=14.2 min CN=61 Runoff=0.46 cfs 0.059 af

Pond 37P: (new Pond) Peak Elev=166.36' Storage=1,535 cf Inflow=0.26 cfs 0.035 af
Outflow=0.00 cfs 0.000 af

Pond 38P: (new Pond) Peak Elev=164.05' Storage=5,243 cf Inflow=0.81 cfs 0.121 af
Outflow=0.00 cfs 0.000 af

Pond 39P: (new Pond) Peak Elev=164.40' Storage=2,762 cf Inflow=0.53 cfs 0.063 af
Outflow=0.00 cfs 0.000 af

Pond 44P: (new Pond) Peak Elev=157.92' Storage=2,370 cf Inflow=0.39 cfs 0.054 af
Outflow=0.00 cfs 0.000 af

Pond 45P: (new Pond) Peak Elev=154.02' Storage=2,640 cf Inflow=0.49 cfs 0.061 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 145.958 ac Runoff Volume = 3.374 af Average Runoff Depth = 0.28"
99.63% Pervious = 145.421 ac 0.37% Impervious = 0.537 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment36: Subcat 36 Runoff Area=8.684 ac 0.33% Impervious Runoff Depth>1.92"
Flow Length=944' Tc=33.6 min CN=61 Runoff=11.08 cfs 1.390 af

Subcatchment37: Subcat 37 Runoff Area=1.143 ac 0.10% Impervious Runoff Depth>1.94"
Flow Length=405' Tc=17.0 min CN=61 Runoff=1.95 cfs 0.184 af

Subcatchment38: Subcat 38 Runoff Area=3.921 ac 0.00% Impervious Runoff Depth>1.93"
Flow Length=567' Tc=23.7 min CN=61 Runoff=5.84 cfs 0.631 af

Subcatchment39: Subcat 39 Runoff Area=2.047 ac 0.60% Impervious Runoff Depth>1.94"
Flow Length=200' Tc=10.6 min CN=61 Runoff=4.14 cfs 0.331 af

Subcatchment40: Subcat 40 Runoff Area=0.652 ac 0.00% Impervious Runoff Depth>1.94"
Flow Length=208' Tc=10.2 min CN=61 Runoff=1.34 cfs 0.106 af

Subcatchment41: Subcat 41 Runoff Area=0.889 ac 0.00% Impervious Runoff Depth>1.70"
Flow Length=245' Tc=8.6 min CN=58 Runoff=1.62 cfs 0.126 af

Subcatchment42: Subcat 42 Runoff Area=1.849 ac 0.00% Impervious Runoff Depth>1.62"
Flow Length=384' Tc=13.0 min CN=57 Runoff=2.81 cfs 0.249 af

Subcatchment43: Subcat 43 Runoff Area=0.915 ac 0.00% Impervious Runoff Depth>1.61"
Flow Length=354' Tc=15.5 min CN=57 Runoff=1.30 cfs 0.123 af

Subcatchment44: Subcat 44 Runoff Area=2.114 ac 0.00% Impervious Runoff Depth>1.78"
Flow Length=363' Tc=10.2 min CN=59 Runoff=3.91 cfs 0.313 af

Subcatchment45: Subcat 45 Runoff Area=2.350 ac 0.00% Impervious Runoff Depth>1.78"
Flow Length=214' Tc=6.4 min CN=59 Runoff=4.94 cfs 0.349 af

Subcatchment46: Subcat 46 Runoff Area=3.063 ac 0.00% Impervious Runoff Depth>1.86"
Flow Length=522' Tc=11.7 min CN=60 Runoff=5.70 cfs 0.474 af

Subcatchment47: Subcat 47 Runoff Area=3.767 ac 0.00% Impervious Runoff Depth>1.02"
Flow Length=463' Tc=13.8 min CN=49 Runoff=3.04 cfs 0.322 af

Subcatchment48: Subcat 48 Runoff Area=5.342 ac 0.00% Impervious Runoff Depth>1.31"
Flow Length=376' Tc=12.5 min CN=53 Runoff=6.32 cfs 0.583 af

Subcatchment49: Subcat 49 Runoff Area=3.212 ac 0.00% Impervious Runoff Depth>1.16"
Flow Length=466' Tc=14.7 min CN=51 Runoff=3.05 cfs 0.311 af

Subcatchment50: Subcat 50 Runoff Area=7.384 ac 0.00% Impervious Runoff Depth>1.46"
Tc=14.7 min CN=55 Runoff=9.43 cfs 0.898 af

Subcatchment51: Subcat 51 Runoff Area=27.555 ac 0.00% Impervious Runoff Depth>1.92"
Flow Length=1,356' Tc=39.9 min CN=61 Runoff=32.31 cfs 4.399 af

Subcatchment53: Subcat 53 Runoff Area=4.763 ac 0.00% Impervious Runoff Depth>0.47"
Tc=0.0 min CN=40 Runoff=1.32 cfs 0.188 af

Subcatchment54: Subcat 54 Runoff Area=4.936 ac 0.00% Impervious Runoff Depth>0.59"
Tc=0.0 min CN=42 Runoff=2.21 cfs 0.241 af

Subcatchment55: Subcat 55 Runoff Area=2.683 ac 0.00% Impervious Runoff Depth>1.77"
Flow Length=790' Tc=23.0 min CN=59 Runoff=3.65 cfs 0.395 af

Subcatchment56: Subcat 56 Runoff Area=7.230 ac 0.00% Impervious Runoff Depth>1.95"
Tc=0.0 min CN=61 Runoff=19.90 cfs 1.175 af

Subcatchment57: Subcat 57 Runoff Area=5.692 ac 0.00% Impervious Runoff Depth>1.85"
Flow Length=567' Tc=17.8 min CN=60 Runoff=9.07 cfs 0.879 af

Subcatchment58: Subcat 58 Runoff Area=2.853 ac 0.00% Impervious Runoff Depth>0.82"
Flow Length=591' Tc=14.0 min CN=46 Runoff=1.65 cfs 0.196 af

Subcatchment59: Subcat 59 Runoff Area=4.073 ac 0.00% Impervious Runoff Depth>0.70"
Flow Length=316' Tc=12.3 min CN=44 Runoff=1.85 cfs 0.238 af

Subcatchment60: Subcat 60 Runoff Area=7.389 ac 0.00% Impervious Runoff Depth>1.75"
Flow Length=1,003' Tc=38.2 min CN=59 Runoff=8.01 cfs 1.080 af

Subcatchment62: Subcat 62 Runoff Area=24.202 ac 2.00% Impervious Runoff Depth>1.84"
Flow Length=1,288' Tc=29.7 min CN=60 Runoff=31.12 cfs 3.716 af

Subcatchment64: Subcat 64 Runoff Area=1.772 ac 0.08% Impervious Runoff Depth>1.31"
Flow Length=404' Tc=15.4 min CN=53 Runoff=1.94 cfs 0.193 af

Subcatchment65: Subcat 65 Runoff Area=3.565 ac 0.00% Impervious Runoff Depth>1.77"
Flow Length=599' Tc=25.1 min CN=59 Runoff=4.68 cfs 0.524 af

Subcatchment66: Subcat 66 Runoff Area=1.913 ac 0.49% Impervious Runoff Depth>1.94"
Flow Length=379' Tc=14.2 min CN=61 Runoff=3.49 cfs 0.309 af

Pond 37P: (new Pond) Peak Elev=166.54' Storage=2,870 cf Inflow=1.95 cfs 0.184 af
Outflow=1.19 cfs 0.126 af

Pond 38P: (new Pond) Peak Elev=164.57' Storage=14,596 cf Inflow=6.35 cfs 0.756 af
Outflow=2.26 cfs 0.450 af

Pond 39P: (new Pond) Peak Elev=165.05' Storage=14,411 cf Inflow=4.14 cfs 0.331 af
Outflow=0.00 cfs 0.000 af

Pond 44P: (new Pond) Peak Elev=158.83' Storage=13,628 cf Inflow=3.91 cfs 0.313 af
Outflow=0.00 cfs 0.000 af

Pond 45P: (new Pond) Peak Elev=155.26' Storage=15,175 cf Inflow=4.94 cfs 0.349 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 145.958 ac Runoff Volume = 19.923 af Average Runoff Depth = 1.64"
99.63% Pervious = 145.421 ac 0.37% Impervious = 0.537 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment36: Subcat 36 Runoff Area=8.684 ac 0.33% Impervious Runoff Depth>2.47"
Flow Length=944' Tc=33.6 min CN=61 Runoff=14.41 cfs 1.786 af

Subcatchment37: Subcat 37 Runoff Area=1.143 ac 0.10% Impervious Runoff Depth>2.48"
Flow Length=405' Tc=17.0 min CN=61 Runoff=2.53 cfs 0.237 af

Subcatchment38: Subcat 38 Runoff Area=3.921 ac 0.00% Impervious Runoff Depth>2.48"
Flow Length=567' Tc=23.7 min CN=61 Runoff=7.60 cfs 0.810 af

Subcatchment39: Subcat 39 Runoff Area=2.047 ac 0.60% Impervious Runoff Depth>2.49"
Flow Length=200' Tc=10.6 min CN=61 Runoff=5.39 cfs 0.425 af

Subcatchment40: Subcat 40 Runoff Area=0.652 ac 0.00% Impervious Runoff Depth>2.49"
Flow Length=208' Tc=10.2 min CN=61 Runoff=1.74 cfs 0.135 af

Subcatchment41: Subcat 41 Runoff Area=0.889 ac 0.00% Impervious Runoff Depth>2.21"
Flow Length=245' Tc=8.6 min CN=58 Runoff=2.16 cfs 0.164 af

Subcatchment42: Subcat 42 Runoff Area=1.849 ac 0.00% Impervious Runoff Depth>2.12"
Flow Length=384' Tc=13.0 min CN=57 Runoff=3.78 cfs 0.326 af

Subcatchment43: Subcat 43 Runoff Area=0.915 ac 0.00% Impervious Runoff Depth>2.11"
Flow Length=354' Tc=15.5 min CN=57 Runoff=1.75 cfs 0.161 af

Subcatchment44: Subcat 44 Runoff Area=2.114 ac 0.00% Impervious Runoff Depth>2.30"
Flow Length=363' Tc=10.2 min CN=59 Runoff=5.17 cfs 0.406 af

Subcatchment45: Subcat 45 Runoff Area=2.350 ac 0.00% Impervious Runoff Depth>2.31"
Flow Length=214' Tc=6.4 min CN=59 Runoff=6.52 cfs 0.452 af

Subcatchment46: Subcat 46 Runoff Area=3.063 ac 0.00% Impervious Runoff Depth>2.40"
Flow Length=522' Tc=11.7 min CN=60 Runoff=7.48 cfs 0.612 af

Subcatchment47: Subcat 47 Runoff Area=3.767 ac 0.00% Impervious Runoff Depth>1.42"
Flow Length=463' Tc=13.8 min CN=49 Runoff=4.61 cfs 0.446 af

Subcatchment48: Subcat 48 Runoff Area=5.342 ac 0.00% Impervious Runoff Depth>1.76"
Flow Length=376' Tc=12.5 min CN=53 Runoff=8.87 cfs 0.784 af

Subcatchment49: Subcat 49 Runoff Area=3.212 ac 0.00% Impervious Runoff Depth>1.59"
Flow Length=466' Tc=14.7 min CN=51 Runoff=4.41 cfs 0.425 af

Subcatchment50: Subcat 50 Runoff Area=7.384 ac 0.00% Impervious Runoff Depth>1.94"
Tc=14.7 min CN=55 Runoff=13.03 cfs 1.191 af

Subcatchment51: Subcat 51 Runoff Area=27.555 ac 0.00% Impervious Runoff Depth>2.46"
Flow Length=1,356' Tc=39.9 min CN=61 Runoff=42.02 cfs 5.650 af

Subcatchment53: Subcat 53 Runoff Area=4.763 ac 0.00% Impervious Runoff Depth>0.74"
Tc=0.0 min CN=40 Runoff=2.97 cfs 0.293 af

Subcatchment54: Subcat 54 Runoff Area=4.936 ac 0.00% Impervious Runoff Depth>0.88"
Tc=0.0 min CN=42 Runoff=4.21 cfs 0.363 af

Subcatchment55: Subcat 55 Runoff Area=2.683 ac 0.00% Impervious Runoff Depth>2.29"
Flow Length=790' Tc=23.0 min CN=59 Runoff=4.82 cfs 0.512 af

Subcatchment56: Subcat 56 Runoff Area=7.230 ac 0.00% Impervious Runoff Depth>2.50"
Tc=0.0 min CN=61 Runoff=25.87 cfs 1.508 af

Subcatchment57: Subcat 57 Runoff Area=5.692 ac 0.00% Impervious Runoff Depth>2.39"
Flow Length=567' Tc=17.8 min CN=60 Runoff=11.89 cfs 1.134 af

Subcatchment58: Subcat 58 Runoff Area=2.853 ac 0.00% Impervious Runoff Depth>1.18"
Flow Length=591' Tc=14.0 min CN=46 Runoff=2.65 cfs 0.280 af

Subcatchment59: Subcat 59 Runoff Area=4.073 ac 0.00% Impervious Runoff Depth>1.02"
Flow Length=316' Tc=12.3 min CN=44 Runoff=3.22 cfs 0.347 af

Subcatchment60: Subcat 60 Runoff Area=7.389 ac 0.00% Impervious Runoff Depth>2.28"
Flow Length=1,003' Tc=38.2 min CN=59 Runoff=10.57 cfs 1.401 af

Subcatchment62: Subcat 62 Runoff Area=24.202 ac 2.00% Impervious Runoff Depth>2.38"
Flow Length=1,288' Tc=29.7 min CN=60 Runoff=40.74 cfs 4.796 af

Subcatchment64: Subcat 64 Runoff Area=1.772 ac 0.08% Impervious Runoff Depth>1.76"
Flow Length=404' Tc=15.4 min CN=53 Runoff=2.72 cfs 0.260 af

Subcatchment65: Subcat 65 Runoff Area=3.565 ac 0.00% Impervious Runoff Depth>2.29"
Flow Length=599' Tc=25.1 min CN=59 Runoff=6.19 cfs 0.680 af

Subcatchment66: Subcat 66 Runoff Area=1.913 ac 0.49% Impervious Runoff Depth>2.49"
Flow Length=379' Tc=14.2 min CN=61 Runoff=4.55 cfs 0.397 af

Pond 37P: (new Pond) Peak Elev=166.56' Storage=3,026 cf Inflow=2.53 cfs 0.237 af
Outflow=2.01 cfs 0.178 af

Pond 38P: (new Pond) Peak Elev=164.62' Storage=15,905 cf Inflow=9.47 cfs 0.988 af
Outflow=5.25 cfs 0.679 af

Pond 39P: (new Pond) Peak Elev=165.20' Storage=18,500 cf Inflow=5.39 cfs 0.425 af
Outflow=0.00 cfs 0.000 af

Pond 44P: (new Pond) Peak Elev=159.01' Storage=17,535 cf Inflow=5.17 cfs 0.406 af
Outflow=0.10 cfs 0.003 af

Pond 45P: (new Pond) Peak Elev=155.54' Storage=19,673 cf Inflow=6.52 cfs 0.452 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 145.958 ac Runoff Volume = 25.979 af Average Runoff Depth = 2.14"
99.63% Pervious = 145.421 ac 0.37% Impervious = 0.537 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment36: Subcat 36 Runoff Area=8.684 ac 0.33% Impervious Runoff Depth>3.12"
Flow Length=944' Tc=33.6 min CN=61 Runoff=18.34 cfs 2.255 af

Subcatchment37: Subcat 37 Runoff Area=1.143 ac 0.10% Impervious Runoff Depth>3.14"
Flow Length=405' Tc=17.0 min CN=61 Runoff=3.22 cfs 0.299 af

Subcatchment38: Subcat 38 Runoff Area=3.921 ac 0.00% Impervious Runoff Depth>3.13"
Flow Length=567' Tc=23.7 min CN=61 Runoff=9.67 cfs 1.022 af

Subcatchment39: Subcat 39 Runoff Area=2.047 ac 0.60% Impervious Runoff Depth>3.15"
Flow Length=200' Tc=10.6 min CN=61 Runoff=6.87 cfs 0.537 af

Subcatchment40: Subcat 40 Runoff Area=0.652 ac 0.00% Impervious Runoff Depth>3.15"
Flow Length=208' Tc=10.2 min CN=61 Runoff=2.21 cfs 0.171 af

Subcatchment41: Subcat 41 Runoff Area=0.889 ac 0.00% Impervious Runoff Depth>2.83"
Flow Length=245' Tc=8.6 min CN=58 Runoff=2.80 cfs 0.210 af

Subcatchment42: Subcat 42 Runoff Area=1.849 ac 0.00% Impervious Runoff Depth>2.72"
Flow Length=384' Tc=13.0 min CN=57 Runoff=4.93 cfs 0.419 af

Subcatchment43: Subcat 43 Runoff Area=0.915 ac 0.00% Impervious Runoff Depth>2.72"
Flow Length=354' Tc=15.5 min CN=57 Runoff=2.28 cfs 0.207 af

Subcatchment44: Subcat 44 Runoff Area=2.114 ac 0.00% Impervious Runoff Depth>2.93"
Flow Length=363' Tc=10.2 min CN=59 Runoff=6.65 cfs 0.517 af

Subcatchment45: Subcat 45 Runoff Area=2.350 ac 0.00% Impervious Runoff Depth>2.94"
Flow Length=214' Tc=6.4 min CN=59 Runoff=8.38 cfs 0.575 af

Subcatchment46: Subcat 46 Runoff Area=3.063 ac 0.00% Impervious Runoff Depth>3.04"
Flow Length=522' Tc=11.7 min CN=60 Runoff=9.59 cfs 0.775 af

Subcatchment47: Subcat 47 Runoff Area=3.767 ac 0.00% Impervious Runoff Depth>1.91"
Flow Length=463' Tc=13.8 min CN=49 Runoff=6.52 cfs 0.600 af

Subcatchment48: Subcat 48 Runoff Area=5.342 ac 0.00% Impervious Runoff Depth>2.31"
Flow Length=376' Tc=12.5 min CN=53 Runoff=11.97 cfs 1.028 af

Subcatchment49: Subcat 49 Runoff Area=3.212 ac 0.00% Impervious Runoff Depth>2.11"
Flow Length=466' Tc=14.7 min CN=51 Runoff=6.12 cfs 0.564 af

Subcatchment50: Subcat 50 Runoff Area=7.384 ac 0.00% Impervious Runoff Depth>2.51"
Tc=14.7 min CN=55 Runoff=17.28 cfs 1.546 af

Subcatchment51: Subcat 51 Runoff Area=27.555 ac 0.00% Impervious Runoff Depth>3.11"
Flow Length=1,356' Tc=39.9 min CN=61 Runoff=53.52 cfs 7.137 af

Subcatchment53: Subcat 53 Runoff Area=4.763 ac 0.00% Impervious Runoff Depth>1.09"
Tc=0.0 min CN=40 Runoff=5.30 cfs 0.432 af

Subcatchment54: Subcat 54 Runoff Area=4.936 ac 0.00% Impervious Runoff Depth>1.26"
Tc=0.0 min CN=42 Runoff=7.18 cfs 0.520 af

Subcatchment55: Subcat 55 Runoff Area=2.683 ac 0.00% Impervious Runoff Depth>2.92"
Flow Length=790' Tc=23.0 min CN=59 Runoff=6.21 cfs 0.652 af

Subcatchment56: Subcat 56 Runoff Area=7.230 ac 0.00% Impervious Runoff Depth>3.16"
Tc=0.0 min CN=61 Runoff=32.89 cfs 1.903 af

Subcatchment57: Subcat 57 Runoff Area=5.692 ac 0.00% Impervious Runoff Depth>3.03"
Flow Length=567' Tc=17.8 min CN=60 Runoff=15.23 cfs 1.437 af

Subcatchment58: Subcat 58 Runoff Area=2.853 ac 0.00% Impervious Runoff Depth>1.62"
Flow Length=591' Tc=14.0 min CN=46 Runoff=3.98 cfs 0.386 af

Subcatchment59: Subcat 59 Runoff Area=4.073 ac 0.00% Impervious Runoff Depth>1.44"
Flow Length=316' Tc=12.3 min CN=44 Runoff=5.01 cfs 0.488 af

Subcatchment60: Subcat 60 Runoff Area=7.389 ac 0.00% Impervious Runoff Depth>2.90"
Flow Length=1,003' Tc=38.2 min CN=59 Runoff=13.61 cfs 1.785 af

Subcatchment62: Subcat 62 Runoff Area=24.202 ac 2.00% Impervious Runoff Depth>3.02"
Flow Length=1,288' Tc=29.7 min CN=60 Runoff=52.13 cfs 6.082 af

Subcatchment64: Subcat 64 Runoff Area=1.772 ac 0.08% Impervious Runoff Depth>2.31"
Flow Length=404' Tc=15.4 min CN=53 Runoff=3.68 cfs 0.341 af

Subcatchment65: Subcat 65 Runoff Area=3.565 ac 0.00% Impervious Runoff Depth>2.92"
Flow Length=599' Tc=25.1 min CN=59 Runoff=7.97 cfs 0.866 af

Subcatchment66: Subcat 66 Runoff Area=1.913 ac 0.49% Impervious Runoff Depth>3.14"
Flow Length=379' Tc=14.2 min CN=61 Runoff=5.79 cfs 0.501 af

Pond 37P: (new Pond) Peak Elev=166.58' Storage=3,180 cf Inflow=3.22 cfs 0.299 af
Outflow=2.92 cfs 0.240 af

Pond 38P: (new Pond) Peak Elev=164.66' Storage=17,244 cf Inflow=12.59 cfs 1.262 af
Outflow=8.85 cfs 0.953 af

Pond 39P: (new Pond) Peak Elev=165.37' Storage=23,355 cf Inflow=6.87 cfs 0.537 af
Outflow=0.00 cfs 0.000 af

Pond 44P: (new Pond) Peak Elev=159.02' Storage=17,804 cf Inflow=6.65 cfs 0.517 af
Outflow=0.41 cfs 0.112 af

Pond 45P: (new Pond) Peak Elev=155.83' Storage=25,046 cf Inflow=8.38 cfs 0.575 af
Outflow=0.00 cfs 0.000 af

Total Runoff Area = 145.958 ac Runoff Volume = 33.255 af Average Runoff Depth = 2.73"
99.63% Pervious = 145.421 ac 0.37% Impervious = 0.537 ac