

## Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
HbA	Hambrook sandy loam, 0 to 2 percent slopes	B	31.8	99.8%
WddA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Tidewater Area	C	0.1	0.2%
<b>Totals for Area of Interest</b>			<b>31.9</b>	<b>100.0%</b>

### 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*

Soil Map—Sussex County, Delaware

































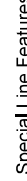

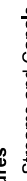



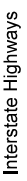
Map Scale: 1:2,970 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84



## MAP LEGEND

-  Area of Interest (AOI)
-  Area of Interest (AOI)
- Soils**
-  Soil Map Unit Polygons
-  Soil Map Unit Lines
-  Soil Map Unit Points
- Special Point Features**
-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features
- 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 1:24,000.

**Warning: Soil Map may not be valid at this scale.**  
 Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Sussex County, Delaware  
 Survey Area Data: Version 22, Aug 26, 2021

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

Date(s) aerial images were photographed: Nov 21, 2018—Mar 12, 2019

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.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
HbA	Hambrook sandy loam, 0 to 2 percent slopes	31.8	99.8%
WddA	Woodstown sandy loam, 0 to 2 percent slopes, Northern Tidewater Area	0.1	0.2%
<b>Totals for Area of Interest</b>		<b>31.9</b>	<b>100.0%</b>

Basemap	▼
General	▼
Map Controls	▼
Legend Options	▼
Zoom Level	▼
Search Boundary	▼
Clusters	▼

<b>Bar Chart Recommended</b> Recommended based on your dimension selection.	<b>Column Chart Recommended</b> Recommended based on your dimension selection.	<b>Pie Chart Recommended</b> Recommended based on your dimension selection.
<b>Timeline Chart Recommended</b> Recommended based on your dimension selection.	<b>Histogram Recommended</b> Recommended based on your dimension selection.	<b>Combo Chart Recommended</b> Recommended based on your dimension selection.
<b>Scatter Chart Recommended</b> Recommended based on your dimension selection.	<b>Map Recommended</b> Recommended based on your dimension selection.	<b>Calendar Recommended</b> Recommended based on your dimension selection.

▼ Filters ▼

Map
  Summary Table  
 Map View  
 Summary Table View  
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 placeholder

Showing Rows 1 to 0 out of 112,987



Search



© Mapbox © OpenStreetMap Improve this map © Maxar

Click and drag to pan the chart

Legend ^ X

Permitted Septic Systems

- Multiple points in single location

[View Source Data](#) →

**Permits Detail for:**

**Facility on Parcel 1-31-15-1**



**Street Address:**

**Type:** Other

**Permit -- C984-87S**

**Start Date:** 7/23/1987 **Expires:** 7/24/1987 **Permit Number:** C984-87S **For:**

**Status:** Completion Report **Description:** **Name As Issued:**  
Received

**Comment:** Original System Type = STD Ž **Issued By:** **Issued To:** Podlaseck, Joe

**DNREC Project Officer:** **Permittee Contact:** **Program:** Septic System

Type

Satellite

Opacity

Please use the left and right arrow keys to select the number

0

1  
[ ]  
1

General



Map Controls



Legend Options



Zoom Level



Search Boundary



Clusters



**Bar Chart Recommended**

**Column Chart Recommended**

**Pie Chart Recommended**

Filters



Recommended based on your dimension selection.

Recommended based on your dimension selection.

Recommended based on your dimension selection.

**Timeline Chart Recommended**

**Histogram Recommended**

**Combo Chart Recommended**

Recommended based on your dimension selection.

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**Scatter Chart Recommended**

**Map Recommended**

**Calendar Recommended**

Recommended based on your dimension selection.

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Map Summary Table

Map View

Summary Table View



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Previous Next Showing Rows 1 to 0 out of 169,986



Bridgeville, Delaware, United





**Permits Detail for:**

**Facility On Parcel 1-31-01.10-0016.01**



Street Address:

Type: Other

**Permit -- 183925**

**Start Date:** 2/4/2002 **Expires:** **Permit Number:** 183925 **For:** Construction/Operation

**Status:** Under Review **Description:** **Name As Issued:**

**Comment:** **Issued By:** **Issued To:** Hunsberger, Robert

**DNREC Project Officer:** **Permittee Contact:** **Program:** Well

**Permits Detail for:**

**Facility on 1-31-15.00-0072.00**



**Street Address:**

**Type:** Other

**Permit -- 219534**

**Start Date:** 6/27/2007 **Expires:** 11/1/2007 **Permit Number:** 219534

**For:**

**Status:** Expired

**Description:**

**Name As Issued:**

**Comment:**

**Issued By:**

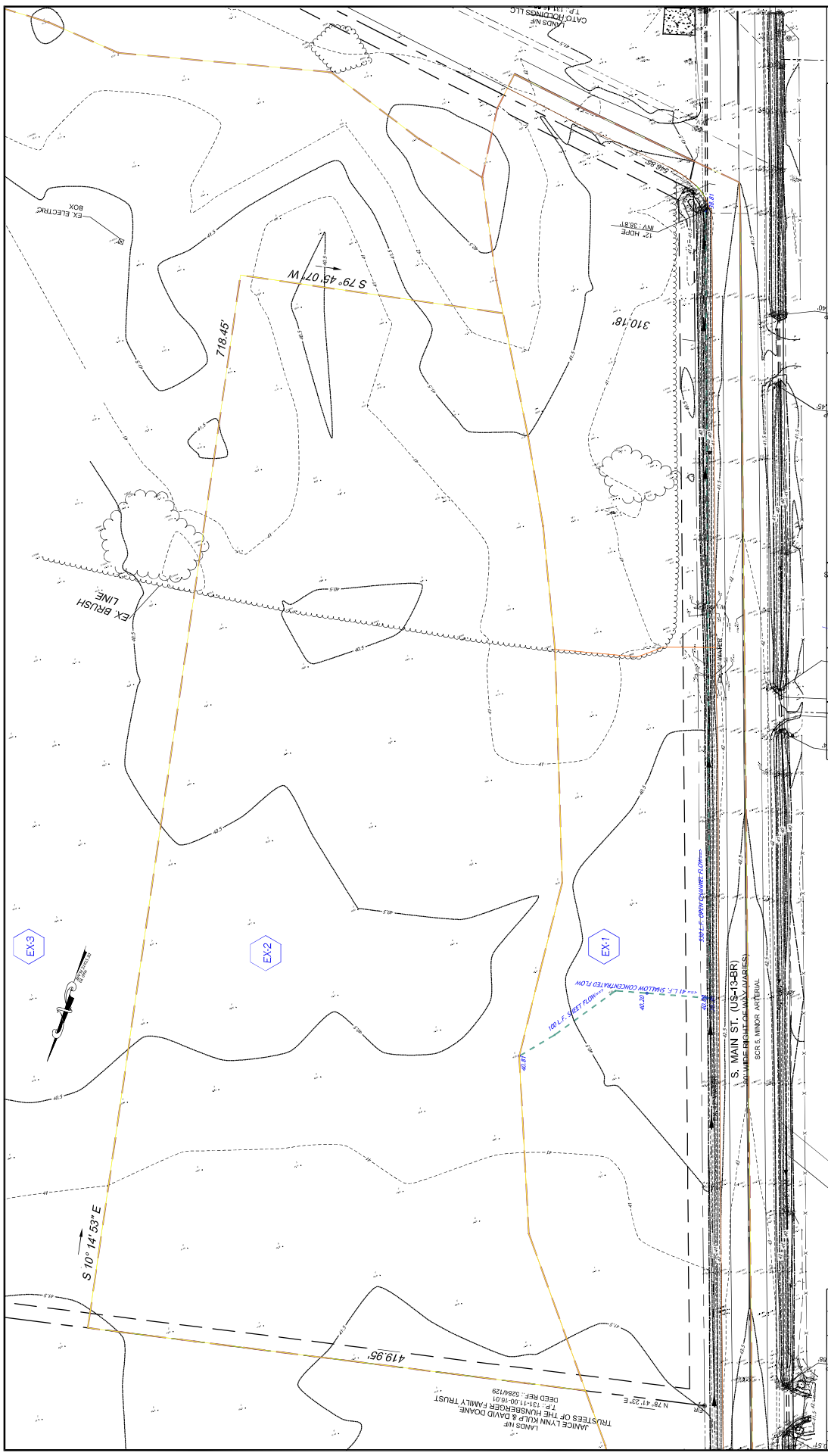
**Issued To:** DELDOT

**DNREC Project Officer:**

**Permittee Contact:**

**Program:** Well





PROJECT NO.	05792201
DRAWING	SWM-2
SHEET	2 OF 3

PRE DEVELOPMENT ONSITE CONDITIONS  
 SEDIMENT & STORMWATER MANAGEMENT PLAN  
 PODS OF BRIDGEVILLE  
 GED S. MAIN DIST. LLC  
 TOWN OF BRIDGEVILLE, SUSSEX COUNTY, DELAWARE

**AE**  
 AXIOM  
 ENGINEERING LLC.  
 1000 W. MARKET ST., 2ND FLOOR  
 GEORGETOWN, DE 19847  
 TEL: 302.856.9312 FAX: 302.856.9312  
 WWW.AEAXIOM.COM

LANDS NR. ANICE LYNN HILL & DAVID DOANE TRUSTEES OF THE HUNSEBERGER FAMILY TRUST  
 DEED REF: 3284172  
 T.P. 1914-108-16-01

LANDS NR. MAREN L WALLS  
 DEED REF: 2397171  
 T.P. 1914-100-29-00

DESIGN DRAWING  
 FORCE MAIN PER  
 DOWNED 6" M PER  
 DESIGN DRAWING

PROFESSIONAL: [Signature]  
 TITLE: [Title]  
 CHECKED BY: [Signature]  
 TITLE: [Title]  
 TOWN MAP: F-13-13-00-03  
 SCALE: 1" = 40' (PLAN)  
 1" = 8' (VERT.)

SEAL



**0579-2201\_EXISTING**

Type II 24-hr Cv- 10-YR SUSSEX Rainfall=5.40"

Prepared by Axiom Engineering, LLC

Printed 4/21/2022

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Page 1

**Summary for Subcatchment EX-1: MAIN STREET DITCH**

Ia/S = 0.05 for Rpv analysis

Cv and Fv to be analyzed using standard Ia/S = 0.20

Runoff = 10.79 cfs @ 12.09 hrs, Volume= 1.107 af, Depth= 3.64"  
Routed to nonexistent node 2P

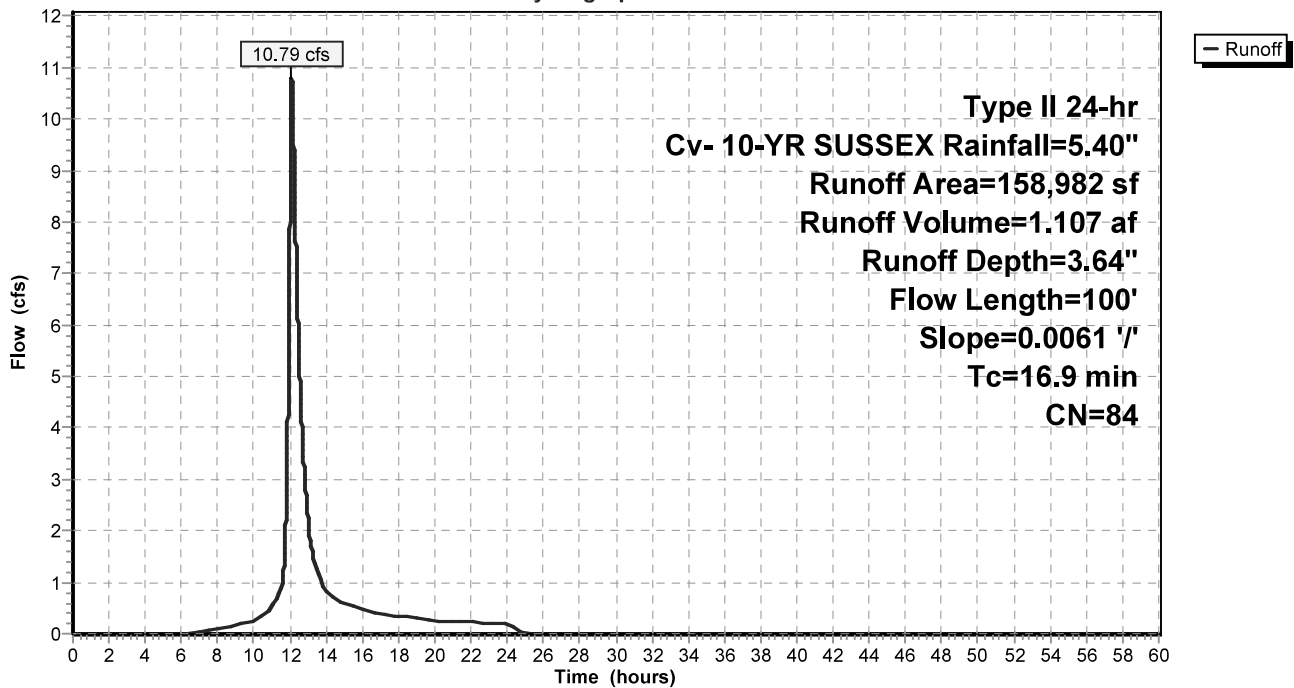
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.00100 hrs  
Type II 24-hr Cv- 10-YR SUSSEX Rainfall=5.40"

Area (sf)	CN	Description
27,201	98	Paved parking, HSG B
131,781	81	Row crops, straight row, Poor, HSG B
158,982	84	Weighted Average
131,781		82.89% Pervious Area
27,201		17.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0061	0.10		Sheet Flow, Cultivated: Residue>20% n= 0.170 P2= 3.40"

**Subcatchment EX-1: MAIN STREET DITCH**

Hydrograph



**0579-2201\_EXISTING**

Type II 24-hr Fv - 100-YR SUSSEX Rainfall=9.20"

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Printed 4/21/2022

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Page 1

**Summary for Subcatchment EX-1: MAIN STREET DITCH**

Ia/S = 0.05 for Rpv analysis

Cv and Fv to be analyzed using standard Ia/S = 0.20

Runoff = 21.10 cfs @ 12.09 hrs, Volume= 2.206 af, Depth= 7.25"  
 Routed to nonexistent node 2P

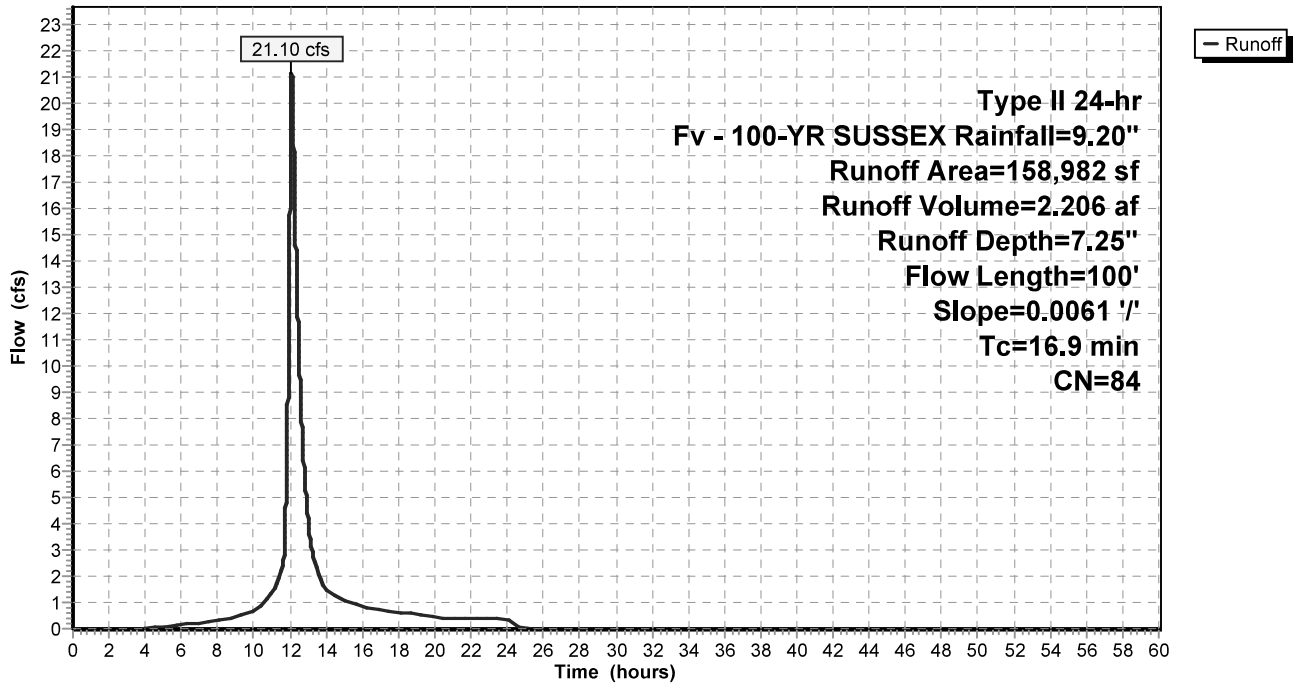
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.00100 hrs  
 Type II 24-hr Fv - 100-YR SUSSEX Rainfall=9.20"

Area (sf)	CN	Description
27,201	98	Paved parking, HSG B
131,781	81	Row crops, straight row, Poor, HSG B
158,982	84	Weighted Average
131,781		82.89% Pervious Area
27,201		17.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0061	0.10		Sheet Flow, Cultivated: Residue>20% n= 0.170 P2= 3.40"

**Subcatchment EX-1: MAIN STREET DITCH**

Hydrograph



**0579-2201\_EXISTING**

Prepared by Axiom Engineering, LLC

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Type II 24-hr RpV Rainfall=2.70", Ia/S=0.05

Printed 4/21/2022

Page 1

**Summary for Subcatchment EX-1: MAIN STREET DITCH**

Ia/S = 0.05 for Rpv analysis

Cv and Fv to be analyzed using standard Ia/S = 0.20

Runoff = 4.29 cfs @ 12.09 hrs, Volume= 0.458 af, Depth= 1.50"  
Routed to nonexistent node 2P

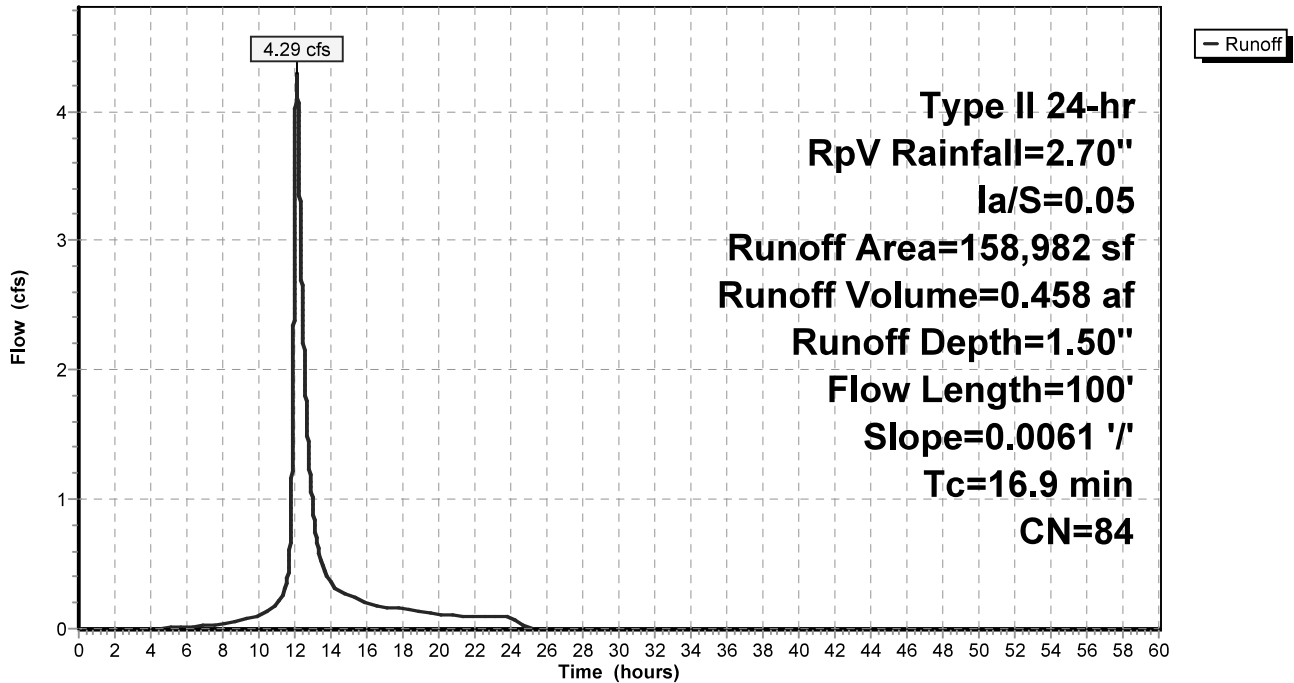
Runoff by SCS TR-20 method, UH=Delmarva, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.00100 hrs  
Type II 24-hr RpV Rainfall=2.70", Ia/S=0.05

Area (sf)	CN	Description
27,201	98	Paved parking, HSG B
131,781	81	Row crops, straight row, Poor, HSG B
158,982	84	Weighted Average
131,781		82.89% Pervious Area
27,201		17.11% Impervious Area

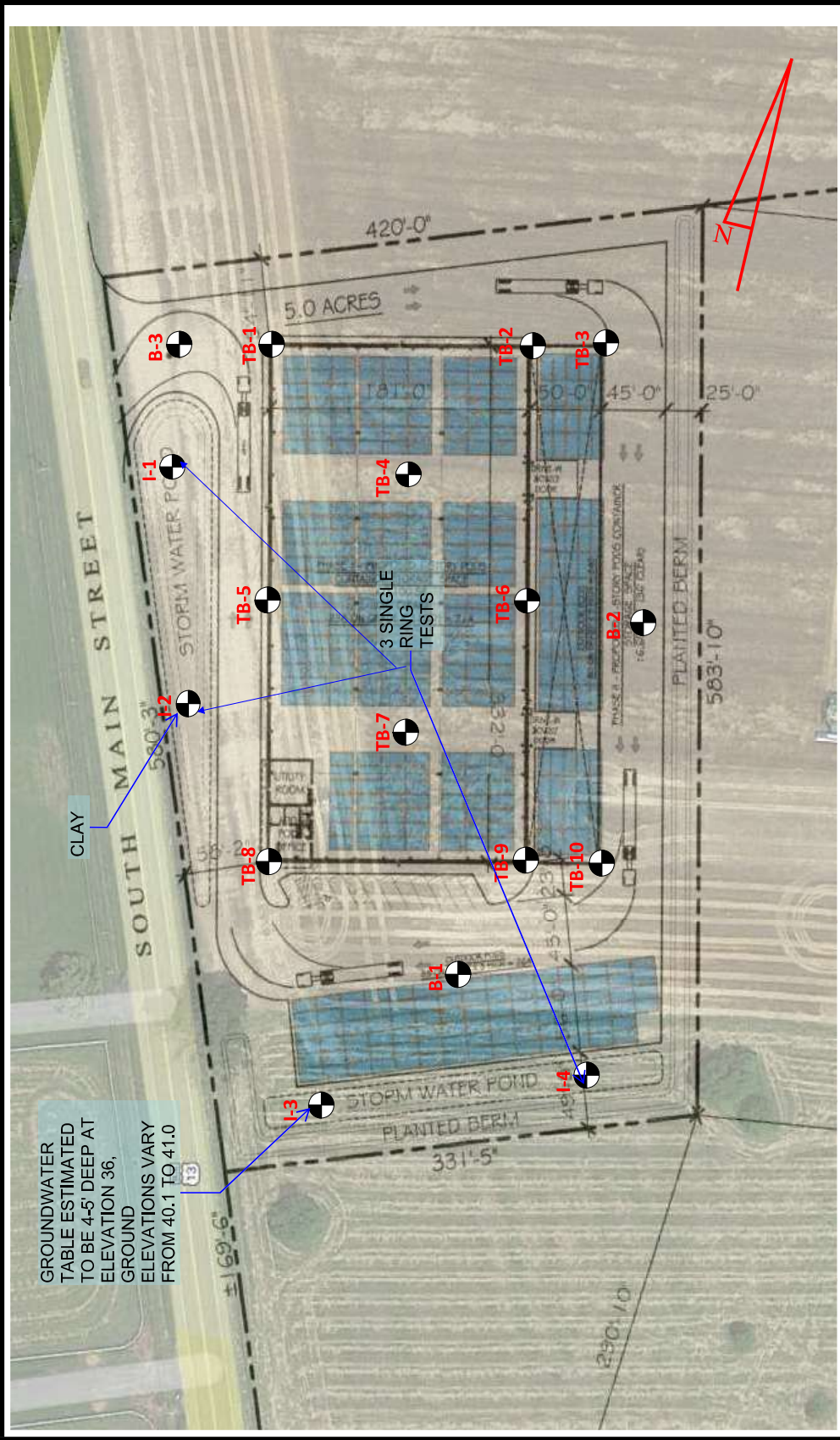
Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	100	0.0061	0.10		Sheet Flow, Cultivated: Residue>20% n= 0.170 P2= 3.40"

**Subcatchment EX-1: MAIN STREET DITCH**

Hydrograph







GROUNDWATER TABLE ESTIMATED TO BE 4-5' DEEP AT ELEVATION 36, GROUND ELEVATIONS VARY FROM 40.1 TO 41.0

Exploration Location Plan taken from Google Earth and a plan titled *PODS STORAGE FACILITY* prepared by The Kent Architectural Collaborative, PLLC and revision dated August 30, 2021.

● Boring Location



**GEO-TECHNOLOGY ASSOCIATES, INC.**  
 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS  
 21133 Sterling Avenue, Suite 7  
 Georgetown, Delaware 19947  
 (302) 855-9761 Fax (302) 856-3388

**Exploration Location Plan**  
**PODS Bridgeville**  
**Sussex County, Delaware**

SCALE 11x17 1" ~ 35'	DATE November 2021	DRAWN BY GTA	DESIGN BY KAC	REVIEW BY GRS	JOB NO. 31211931	Figure 2
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# GEO-TECHNOLOGY ASSOCIATES, INC.

GEOTECHNICAL AND  
ENVIRONMENTAL CONSULTANTS

*A Practicing Geoprofessional Business Association Member Firm*



December 3, 2021

GED S. Main Dist. LLC  
687 Old Willets Path  
Hauppauge, New York 11788

Attn: Mr. Gary Krupnick

Re: Report of SWM Subsurface Exploration  
***PODS Bridgeville***  
Bridgeville  
Sussex County, Delaware

Ladies & Gentlemen:

In accordance with our agreement dated October 7, 2021, Geo-Technology Associates, Inc. (GTA) has performed a subsurface exploration for the proposed stormwater management (SWM) area for the above referenced project. The purpose of the subsurface exploration was to evaluate the estimated seasonal high groundwater elevation; discuss suitability of the subsoils to facilitate infiltration practices at selected test locations; and to present the subsoil conditions encountered at selected borings. Plans titled *PODS STORAGE FACILITY* prepared by The Kent Architectural Collaborative, PLLC and revision dated August 30, 2021 and a Plan titled *Test Boring Plan-Proposed New PODS Warehouse* prepared by Reuther and Bowen and dated September 22, 2021, were referenced for this report. A report regarding building and earthwork construction recommendations will be submitted separately. The results of our SWM subsurface exploration are summarized below.

Referring to the Site Location Map and the Exploration Location Plan included as Figures 1 and 2, respectively, in Appendix A, the subject property is located along the east side of South Main Street approximately 200-feet north of Rifle Range Road in Bridgeville, Delaware. The study area consists of an agricultural field. The project site is relatively flat with the ground surface at the exploration locations generally ranging between Elevation 40 and 41 Mean Sea Level (MSL).

According to the Geologic Map of Seaford West and Seaford East Quadrangles (2015) published by the Delaware Geological Survey, the site is within the Coastal Plain Physiographic Province. Coastal Plain sediments below the surficial deposits exposed in the site area were generally deposited in commonly estuarine environments of the Tertiary geologic age. The Late

21133 Sterling Avenue, Suite 7, Georgetown, DE 19947 (302) 855-9761

◆ Abingdon, MD ◆ Baltimore, MD ◆ Laurel, MD ◆ Frederick, MD ◆ Waldorf, MD ◆ New Castle, DE ◆ Georgetown, DE  
◆ Somerset, NJ ◆ NYC Metro ◆ Pittsburgh Metro ◆ Quakertown, PA ◆ Scranton/Wilkes-Barre, PA ◆ York, PA  
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Pliocene deposits designated as the Beaverdam Formation. Sediments of the Beaverdam Formation typically consist of "...very coarse sand with pebbles to silty clay. The predominant lithologies at the land surface are white to mottled light-gray and reddish-brown, silty to clayey, fine to coarse sand. Laminae and beds of very coarse sand with gravel are common." Please refer to the publication for additional information.

From review of the USDA Soil Survey, the soils predominately conform to the Hambrook sandy loam complex, (0 to 2 percent slopes). The soils map information is attached.

From review of the attached Monthly Groundwater Depth for Pe54-51, Columbia Aquifer, taken from the Delaware Geological Survey website, the groundwater depth at Well Pe54-51 (west of Millsboro, Delaware), was near to below the normal seasonal high when the borings were performed in November 2021.

GTA performed four Standard Penetration Test (SPT) borings, designated as I-1 through I-4, to depths of 16 feet below the ground surface. Temporary piezometers were placed in each test hole and longer-term water readings were taken one to two days after completion. The piezometers were removed after the long-term readings. The exploration locations were selected and staked with elevations determined by Becker Morgan Group (BMG). Relative locations are shown on the attached Exploration Location Plan. The exploration locations indicated on the plan should be considered approximate.

The soils were visually classified in accordance with the Unified Soil Classification System (USCS) and the United States Department of Agriculture (USDA) classification system. The borings encountered a 7 to 18-inch-thick surficial topsoil layer. Below the topsoil layer, the explorations generally encountered native soils visually classified as consisting of Silty SANDs (USCS: SM; USDA: Sand Loam), Poorly-graded SAND with Silt (SP-SM; Loamy Sand) and Clayey SANDs (SC; Sandy Clayey Loam). The relative densities of the granular soils were very loose to medium dense based on SPT N-values of Weight of Hammer (WOH) to 14 blows per foot (bpf).

At Boring I-2, Lean CLAY (CL; Clay Loam) was encountered below the topsoil and extended to two feet below the ground surface. The consistency of the fine-grained soil was medium stiff based on an SPT N-value of 6 bpf.

GTA's estimate of the seasonal high groundwater level at the borings is based upon soil coloring, mottling and/or saturation. The results of the groundwater level readings and GTA's opinion of the estimated seasonal high groundwater depth are summarized as follows:

**GROUNDWATER DATA SUMMARY**

Exploration No.	Existing Ground Surface Elevation (MSL)	Depth Below Existing Ground Surface (ft.)/ Elevation (MSL) to Groundwater at Completion	Depth Below Existing Ground Surface (ft.)/ Elevation (MSL) to Groundwater At One to two Days After Completion	*Depth Below Existing Ground Surface (ft.)/ Elevation (MSL) to Estimated Normal Seasonal High Groundwater
I-1	EL 41.0	6.5 / EL 34.5	5.3 / EL 35.7	5 / EL 36
I-2	EL 40.1	6.5 / EL 33.6	6.0 / EL 34.1	4 / EL 36
I-3	EL 41.0	7.0 / EL 34.0	8.0 / EL 33.0	5 / EL 36
I-4	EL 40.5	6.0 / EL 34.5	8.1 / EL 32.4	5 / EL 36

\*Seasonal high groundwater estimate based upon observed soil mottling, color and/or saturation and should be considered approximate.

The groundwater levels can be expected to fluctuate with seasonal changes, precipitation, and other factors such as development activity. Additionally, perched water conditions develop in granular soils overlying fine-grained soils during the “wet season” as well as during periods of precipitation. Please refer to the idealized Subsurface Profile and exploration logs provided in the attachments for further information.

A selected sample obtained from the borings was tested for grain-size analysis, Atterberg Limits and natural moisture content. The grain-size analysis and Atterberg Limits testing were performed to determine the Unified Soil Classification System (USCS) designations for the soil. The results of testing are as follows:

**SUMMARY OF LABORATORY TESTING**

EXPLORATION NO.	DEPTH (FT.)	USCS CLASSIFICATION	LL (%)	PI (%)	NMC %
I-4	2 – 4	Silty SAND (SM)	NP	NP	13.9

Note: LL=Liquid Limit PI=Plastic Index NP=Non-plastic NMC=Natural Moisture Content

Three single ring, 12-inch diameter, falling head infiltration tests were also performed at locations offset from Borings I-1, I-2 and I-4. One single ring 5-inch diameter falling head infiltration test was also performed at a location offset from Boring I-3. The infiltration test holes were pre-soaked prior to the falling head tests. Each test location was charged with a six-inch head and the water level drop was recorded at 15 minutes or less intervals. The results of the infiltration tests, test depths, estimated seasonal high groundwater and soil type at each test location are summarized as follows:

**SUMMARY OF INFILTRATION DATA**

TEST NO.	EXISTING GROUND SURFACE ELEVATION (MSL)	*Depth Below Existing Ground Surface (ft.)/ Elevation (MSL) to Estimated Seasonal High Groundwater	Inside Diameter of Infiltration Test Casing (IN)	INFILTRATION TEST DEPTH BELOW EXISTING GROUND SURFACE (FT)/ ELEVATION (MSL)	**INFILTRATION TEST INFILTRATION RATE (IN/HR)	ESTIMATED VISUAL USDA SOIL CLASSIFICATION
I-1	EL 41.0	5 / EL 36	12	4.5 / EL 36.5	3.5	Sandy Loam
I-2	EL 40.1	4 / EL 36	12	4.0 / EL 36.1	3.0	Sandy Loam
I-3	EL 41.0	5 / EL 36	5	6.0 / EL 35.0	3.0	Sandy Loam
I-4	EL 40.5	5 / EL 36	12	2.0 / EL 38.5	2.4	Sandy Loam

\*Seasonal high groundwater estimate based upon observed soil mottling, color and/or saturation and should be considered approximate.

\*\* Infiltration tests performed in general accordance with ASTM D-5126.

The guidelines established in the *Delaware Post Construction Stormwater BMP Standards & Specifications*, dated February 2019 indicate that the minimum infiltration rate for all runoff reduction and infiltration practices is one-inch per hour. Also, a vertical separation of at least two-feet from the seasonal high groundwater elevation or limiting layer is required for all infiltration practices unless an underdrain is provided.

Based upon the average infiltration rates and using a factor of safety of 2.5 for the 5-inch diameter casing and 2.0 for the 12-inch diameter casing, GTA recommends the following for infiltration rate for the SWM design.

**SUMMARY OF INFILTRATION SUITABILITY**

SWM AREA	PREDOMINANT USDA SOIL TYPE	SUITABILITY OF LOCATION FOR INFILTRATION PRACTICE	RECOMMENDED FACILITY BOTTOM RANGE OF ELEVATION (MSL)	RECOMMENDED MAXIMUM DESIGN INFILTRATION RATE (IN/HR)*
I-1 and I-2	Sandy Loam	Suitable	EL 38	1.6
I-3 and I-4	Sandy Loam	Suitable	EL 38	1.2

\* FS=2.5 for 5-inch casing. FS=2.0 for 12-inch casing.

GTA recommends placing the facility bottom through less permeable Sandy Clay Loam and Clay Loam and into Sandy Loam layers. To facilitate placement in Sandy Loam layers, the actual facility bottom elevation will vary and should be adjusted as required in the field based upon the observed conditions at the time of construction. In areas where less permeable soil including Sandy Clay Loam and Clay Loam is encountered at the basin bottom up to within two

**THIS SITE IS ONLY MARGINALLY SUITABLE FOR INFILTRATION, AS THIS IS NOT A RAPID RATE**