

The intent of the PCSM Plan sheets are to detail the Post Construction Stormwater Management facilities and associated Ownership and Maintenance Requirements associated with this project. Sequence of Construction notes are on the following PCSM sheet. Ownership and Maintenance requirement notes on on the PCSM Detail sheet.

1. No DEP permitting is required for the construction of this plan except for the existing current NPDES Permit related to construction activities (PAG-02-0022-08-03SR, expires 10-9-2018).
2. The entire project site is located within the watershed of Beaver Creek watershed (WWF).
3. Wetlands shown on this plan are per field delineation performed by Aqua-Niche.
4. BMPs, trees, shrubs, and any other materials not proposed to be permanently remain on-site are to be recycled or disposed of in accordance with Department of Environmental Management's rules. All building materials and wastes must be removed from the site and recycled or disposed in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et seq., 271.1 et seq., and 287.1 et seq. No building material or wastes or unused building materials shall be buried, dumped, or discharged at the site.

Post Construction Stormwater Management BMPs have been incorporated into the site design to collect, convey, promote infiltration, attenuate and treat stormwater runoff prior to discharge to surface waters. Reference the following list of proposed site Best Management Practices (BMPs) incorporated in to the project's design:

1. The proposed Stormwater Water Bioretention-Detention Basins shall provide several key functions including but not limited to the following:
 - a. Stormwater Runoff Rate control shall be provided by using the basin storage and associated outlet structures to attenuate the stormwater discharge rates to below pre-development rates.
 - b. The basin was designed to provide for extended detention. The attenuation of the basin discharges provides for stream bank protection, promotes infiltration and provides for longer periods of filtering and plant uptake within the basins.
 - c. The basin shall be constructed with a flat bottom with shallow sump and planted with wetland seed mixtures which shall improve water quality, increase infiltration volume and promote evapotranspiration.
 - d. The basin discharges into the historical natural drainage way for the site. Riprap apron shall be installed at basin discharge point although as shown in the routings the basin discharge is very small and not erosive.
2. The proposed Water Quality BioRetention Basins shall provide water quality benefits as indicated above although were not designed for rate control.
3. The proposed subsurface Infiltration Trenchs shall provide direct infiltration of roof top runoff for all roof area that does not drain to one of the BioRetention-Detention Basins. Roof top runoff is relatively clean which allows the use of a subsurface infiltration trench. Although roof runoff is relatively clean there are nutrients in the runoff from air pollution and some inorganic suspended solids from the roof tops; the infiltration will reduce nutrients and reduce surface runoff.
4. Rain Gardens can be used as a substitute to the above referenced Infiltration Trenches. Rain Gardens promote infiltration and promote nutrient uptake through plantings and filtration through the soil mix.
5. A vegetated swale is proposed to convey storm sewer discharge from Beaver Creek Road to Basin 522b. The swale shall be seeded with vegetation and stabilized with a permanent lawn. Vegetated swales promote infiltration and improve water quality through vegetative filtering and plant uptake.
6. Street trees shall be planted along both sides of the street which will provide for some shading of the pavement. Pine trees shall be planted along the BioRetention Basins as well. The trees shall provide some shading to aid in thermal protection, provide runoff volume uptake and promote evapotranspiration.
7. Street Sweeping shall be performed by the Township in accordance with their MS4 requirements. Street sweeping provide direct water quality benefits through the physical removal of particulates. Street sweeping also prolongs the life of the pavement.

This plan identifies the Post Construction Stormwater Management BMPs for the project. In accordance with NPDES permitting requirements, critical stages of implementation of the plan shall have a licensed professional or designee on site. The critical stages of construction associated with this project would be construction of the Bioretention-Detention Basin embankments and outlet structures, soil restoration of basin bottoms and verification of appropriate basin seeding. All other BMPs can be inspected after construction to verify consistency with the intended design.

There are no known naturally occurring geologic features or soil conditions on site that have the potential to create pollution. The main rock type underlying the site is shale; the shale of the Hamburg sequence is predominantly greenish-gray, gray, purple, and maroon phyllitic shale that is silty and siliceous. Several Soil Probes and percolation tests were conducted across the site; the soil probes rendered crumbly shale subsoils and the average percolation rates was 0.67 in/hr. See SWM Report for probe descriptions and percolation rates.

Minimize Soil Compaction
in Basin Areas
(See Sequence Notes)

Infiltration Trench or Rain Garden for all roof area not draining to a Basin BMP (See Notes & Details)

Street Trees to be planted along both side of the street

Green Hatch indicated
Open Space Area

SOIL SYMBOL	SOIL DESCRIPTION	SLOPE (%)	HYDROLOGIC GROUP
BkB2	Berks shaly silt loam	3 to 15%	C
BkC2	Berks shaly silt loam	8 to 16%	C
BkD2	Berks shaly silt loam	15 to 25%	C
BtA	Brinkerton/Armagh silt loam	0 to 3%	D
BtB2	Brinkerton/Armagh silt loam	3 to 8%	D
CoB2	Comly Silt Loam	2 to 8%	C
Ph	Philo silt loam	-	B

Implications and resolutions of the above soil types are as follows:

In general, the soils present should not pose any significant limitation to the type of development proposed. Reference the following recommendation pertaining to possible issues that may be encountered during construction.

- If unfractured rock is encountered during proposed grading, blasting or drilling may be required. Removed rock can be crushed if necessary and used for fill.
- If water table is encountered during excavation, dirty water shall be pumped out into a filter bag or sediment removal pond.

GRAPHIC SCALE

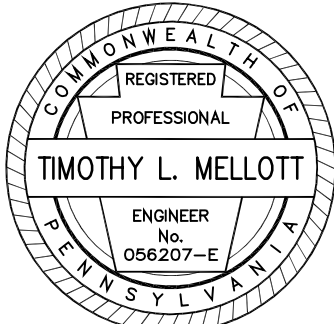
50 10

(X & Y 32433-32440)

1 inch = 50 ft

Figure 1: Proposed Stormwater Management Plan (SWMP) for the 100 Year Floodplain. The plan shows a cross-section of the site with various features and their locations. Key features include:

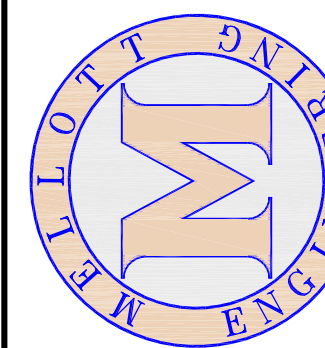
- Proposed Storm Sewer, Inlet
- Proposed End Section W/ R/RIPAP
- Proposed Sanitary Sewer Main
- Proposed Sanitary Sewer Lateral, Cleanout & Manhole
- Proposed Water Main
- Proposed Curb/Edge of Pavement
- Proposed Light (See Plan for Type)
- Proposed Permanent Contour
- Proposed Phase II Temporary Contour
- Proposed Drained Drainage Easement
- Proposed Expanded Conservation Easement
- Open Space (Existing & Proposed)
- Proposed Pavement
- Proposed Building (Concept)
- Proposed Concrete (Concept)
- Proposed Deck (Concept)
- Existing 2' Contour
- Existing Property Line
- Existing Adjoining Property
- Existing Right-of-Way
- Existing Curb/Edge of Pavement
- Existing Storm Sewer, Inlet, ID#
- Existing Water Main, Hydrant, Valve
- Existing Sanitary Sewer, MH, ID#
- Existing Telecom Conduit(s)
- Existing Electric Conduit(s)
- Existing Soil Boundary Line & Soil Classification
- Existing Infiltration Test (See SWM Report)
- Existing Probe (See SWM Report)
- Existing Wetland
- Existing Stream
- Existing 100 Year Floodplain (Effective)
- Existing Conservation Easement



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Hummelstown, PA 17036
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FAX: 717-427-2700

	REVISIONS	DATE
1.	Addressing Comments	6-30-2014
2.	Addressing Review	6-30-2014
3.	Addressing Review Comments	6-30-2014
4.	Adding Compost Sock Sediment Trap	12-18-2014
5.	—	—
6.	—	—
7.	—	—
8.	—	—
9.	—	—

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POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

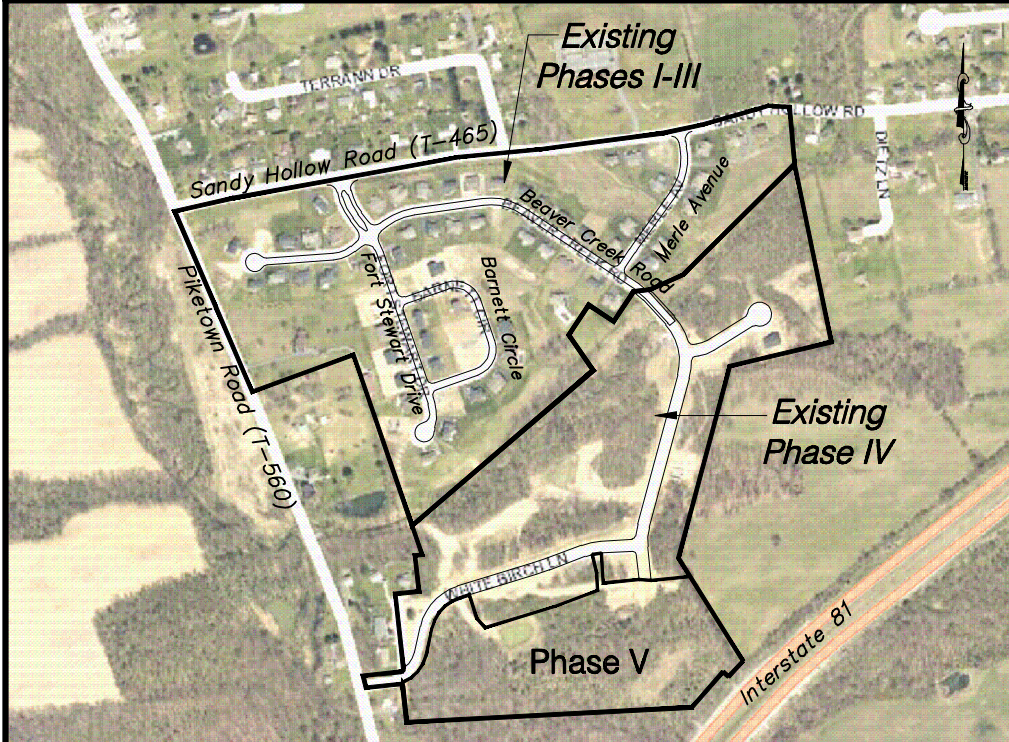
FOR
BROOKVIEW PHASE IV

Applicant/Owner: Fishing Creek Valley Associates, L.P.

WEST HANOVER TOWNSHIP
DAUPHIN COUNTY
PENNSYLVANIA

Project No.	201325
Date	April 28, 2014

Sheet No. **PCSM #1**
9 of 16



PCSM PLAN INTENT NOTE

The intent of the PCSM Plan sheets are to detail the Post Construction Stormwater Management facilities and associated Ownership and Maintenance Requirements associated with this project. Sequence of Construction notes and Ownership & Maintenance notes are on the following PCSM Detail sheet.

GENERAL PCSM NOTES

1. No DEP permitting is required for the construction of this plan except for the existing current NPDES Permit related to construction activities (PAG-02-0022-08-038R, expires 10-9-2018).
2. The entire project site is located within the Beaver Creek watershed (WWF).
3. Wetlands shown on this plan are per field delineation performed by Aquo-Niche.
4. BMPs, trees, debris and any other materials not proposed to permanently remain on-site are to be recycled or disposed of in accordance with Department of Environmental Protection regulations. All building materials and wastes must be removed from the site and recycled or disposed in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code 260.1 et seq., 271.1 et seq., and 287.1 et seq. No building material or wastes or unused building materials shall be buried, dumped, or discharged at the site.

STORMWATER MANAGEMENT NOTES

Post Construction Stormwater Management BMPs have been incorporated into the site design to collect, convey, promote infiltration, attenuate and treat stormwater runoff prior to discharge to surface waters. Reference the following list of proposed site Best Management Practices (BMPs) incorporated in to the project's design (the below list includes all BMPs associated with Phases IV and V although all Basins have already been constructed with Phase IV excluding future conversions from sediment BMPs to permanent BMPs):

1. The proposed Stormwater Water Bioretention-Detention Basins shall provide several key functions including but not limited to the following:
 - a. Stormwater Runoff Rate control shall be provided by using the basin storage and associated outlet structures to attenuate the stormwater discharge rates to below pre-development rates.
 - b. The basin was designed to provide for extended detention. The attenuation of the basin discharges provides for stream bank protection, promotes infiltration and provides for longer periods of filtering and plant uptake within the basins.
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 - d. The basin discharges into the historical natural drainage way for the site. Riprap apron shall be installed at basin discharge point although as shown in the routings the basin discharge is very small and non erosive.
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4. Rain Gardens can be used as a substitute to the above referenced Infiltration Trenches. Rain Gardens promote infiltration and promote nutrient uptake through plantings and filtration through the soil mix.
5. A vegetated swale was constructed with Phase IV to convey storm sewer discharge from Beaver Creek Road to Basin B28b. The swale shall be seeded with vegetation and stabilized with a permanent liner. Vegetated swales promote infiltration and improve water quality through vegetative filtering and plant uptake.
6. Street trees shall be planted along both sides of the street which will provide for some shading of the pavement. Pine trees shall be planted along the Bioretention Basins as well. The trees shall provide some shading to aid in thermal protection, provide runoff volume uptake and promote evapotranspiration.
7. Street Sweeping shall be performed by the Township in accordance with their M54 requirements. Street sweeping provide direct water quality benefits through the physical removal of particulates. Street sweeping also prolongs the life of the pavement.

CRITICAL STAGES OF PLAN IMPLEMENTATION

This plan identifies the Post Construction Stormwater Management BMPs for the project. In accordance with NPDES permitting requirements, critical stages of implementation of the plan shall have a licensed professional or designer on site. The critical stages of construction associated with this project would be construction of the Bioretention-Detention Basin embankments and outlet structures, soil restoration of basin bottoms and verification of appropriate basin seeding. All other BMPs can be inspected after construction to verify consistency with the intended design.

SOIL PROBE/PERCOLATION TEST

As indicated all the basins have already been constructed; the following soil testing data is provided for reference (per previous Phase IV Plan). There are no known naturally occurring geologic features or soil conditions on site that have the potential to create pollution. The main rock type underlying the site is shale; the shale of the Hamburg sequence is predominantly greenish-gray, gray, purple, and maroon phyllitic shale that is silty and siliceous. Several Soil Probes and percolation tests were conducted across the site; the soil probes rendered crumbly shale subsolls and the average percolation rates was 0.67 in/hr. See SWM Report for probe descriptions and percolation rates.

Infiltration Test Locations at Brooklyn	
PROBES	INFILTRATION TESTS
Probe #1 - N 40° 20.617' W76° 45.309' - Above detention area #2, on Phase II - Berks shaly silt loam series (BkB2)	Probe #1 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #2 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #2 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #3 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #3 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #4 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #4 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #5 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #5 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #6 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #6 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #7 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #7 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #8 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #8 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #9 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #9 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #10 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #10 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #11 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #11 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #12 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #12 - N 40° 20.617' W76° 45.309' - Surface Test
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Probe #15 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #15 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #16 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #16 - N 40° 20.617' W76° 45.309' - Surface Test
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Probe #20 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #20 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #21 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #21 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #22 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #22 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #23 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #23 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #24 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #24 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #25 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #25 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #26 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #26 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #27 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #27 - N 40° 20.617' W76° 45.309' - Surface Test
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Probe #30 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #30 - N 40° 20.617' W76° 45.309' - Surface Test
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Probe #36 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #36 - N 40° 20.617' W76° 45.309' - Surface Test
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Probe #75 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #75 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #76 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #76 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #77 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #77 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #78 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #78 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #79 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #79 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #80 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #80 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #81 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #81 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #82 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #82 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #83 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #83 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #84 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #84 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #85 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #85 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #86 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #86 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #87 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #87 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #88 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #88 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #89 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #89 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #90 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #90 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #91 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #91 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #92 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #92 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #93 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #93 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #94 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #94 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #95 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #95 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #96 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #96 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #97 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #97 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #98 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #98 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #99 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #99 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #100 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #100 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #101 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #101 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #102 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #102 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #103 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #103 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #104 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #104 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #105 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #105 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #106 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #106 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #107 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #107 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #108 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #108 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #109 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #109 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #110 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #110 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #111 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #111 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #112 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #112 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #113 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #113 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #114 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #114 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #115 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #115 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #116 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #116 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #117 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #117 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #118 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #118 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #119 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #119 - N 40° 20.617' W76° 45.309' - Surface Test
Probe #120 - N 40° 20.617' W76° 45.309' - West of grass swale - Berks (BkB2)	Probe #120