

MONTGOMERY COUNTY COMPREHENSIVE WATER SUPPLY AND SEWERAGE SYSTEMS PLAN

Appendix B: Multiuse Water and Sewer Facilities

State Approved 2022-2031 Plan

TABLE OF CONTENTS

Section	Page No.
I. INTRODUCTION	B-1

TABLE & FIGURES

B-F1: Multiuse Systems Locations in Montgomery County	B-2
B-T1: Inventory of Existing and Approved Multiuse Water Supply and Sewerage Systems	B-3

I. INTRODUCTION

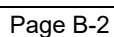
The State requires that the County approve and inventory multiuse water supply and sewerage systems in the Water and Sewer Plan. This Plan defines multi-use systems as individual on-site systems, whether owned or operated by an individual or group of individuals under private or collective ownership, serving a group of individuals, and having a treatment capacity of 1,500 gallons or more per day (gpd). The County's minimum system capacity requirement is more stringent than the State's minimum 5,000 gpd requirement. This is intended to help identify where "smaller" multiuse systems may have cumulative impacts on groundwater resources. Figure B-F1 is a map showing the general distribution of multiuse systems in the county.

Multiuse water supply systems utilize a source of ground or surface water to provide potable water, and consist of wells, piping, pumps, tanks, and/or other facilities. Most often in Montgomery County, multi-use water systems use groundwater wells. Multiuse sewerage systems collect and dispose of sewage and consist of various devices for the treatment and discharge of sewage. These are usually large-capacity septic systems. For the purposes of this Plan, multiuse systems include the following:

- A single water supply and/or sewerage system serving:
 - a single property; or
 - two or more commonly-owned, contiguous properties with a common function (religious institution, nursing home, etc.); and
- More than one water supply and/or sewerage system serving a single property with a cumulative capacity of 1,500 or more gpd.

Table B-T1 compiles available information on the multiuse water supply and sewerage systems in the county. Note that in some cases, a site with a multiuse sewerage system uses community water service and *vice-versa*.

Figure B-F1: Multiuse Systems Locations in Montgomery County



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Appendix B: Multiuse Water and Sewer Facilities

State Approved 2022-2031 Plan

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Facility	Multiuse Water Supply System	Multiuse Sewerage System
Facility Name Owner/Operator (If Different than Facility) Location Comments (Status/Expansion)	Water Source Treatment & Sludge/Backwash Disposal System Capacities (Rated, Ave., Max., Stor.) State Coordinates	Type of Treatment Design Capacity Point of Discharge & Permit No. State Coordinates
PUBLIC FACILITIES		
Darnestown Elementary School MCPS 15030 Turkey Foot Rd., Darnestown <u>Sewer:</u> 5000 gal. tank. 6 out of 8 original seepage pits in use. No reserve area established.	Served by WSSC community water supply system.	Treatment: 5000-gallon septic tank, soil absorption via seepage pits Design capacity: 4,500 GPD Ground discharge. Permit not required
Federal Regional Center U.S. Government - FEMA 5321 Riggs Rd., Mt. Zion No comments	Served by WSSC community water supply system.	Treatment: not specified on permit. Design capacity: 10,000 GPD Surface water discharge: Hawlings River. Permit 93-DP-2542 Coordinates: N500,864 / E770,000
Laytonsville Elementary School MCPS 21401 Laytonsville Rd. (MD 108), Laytonsville <u>Water:</u> Converted to community water service, June 2015. <u>Sewer:</u> Original system consisted of one seepage pit. No other records for the system found. In 1988 a reserve area was established and reduced by 25% due to unpermitted grading by B.O.E. (2014-2015 school year: 429 students & 56 staff)	Served by WSSC community water supply system.	Treatment: unknown Design capacity: unknown Ground discharge. Permit not required
Laytonsville Golf Course Mont. Co. Revenue Auth. 7130 Dorsey Rd., Laytonsville No comments	Source: groundwater	Treatment: septic tank, soil absorption via low-pressure dosing system Design capacity: 4,900 GPD Ground discharge. Permit not required.
Little Bennett Regional Park – Campground M-NCPPC 23701 Frederick Rd. (MD 355) - Clarksburg <u>Sewer:</u> The park maintenance facility, part of this system, has been approved for community sewer service, but has not been switched over to community sewer service.	Served by WSSC community water supply system.	Treatment: septic tank, soil absorption via drainfields Design capacity: 7,000 GPD Ground discharge; permit not required. Coordinates: N718,000 / E518,000
Little Bennett Regional Park – Golf Course M-NCPPC 25900 Prescott Road, Clarksburg <u>Sewer:</u> Adjacent driving range at 26001 Prescott Rd. has flow of 500 gpd to septic system*	Source: Groundwater	Treatment: septic tank, soil absorption via drainfields Design capacity: 5,000 GPD Ground discharge; permit not required.
Maryland National Guard State of Maryland Riggs Road - Mt. Zion No comments	Served by WSSC community water supply system.	Treatment: septic tank, with soil absorption via sand filter Design capacity: 3,000 GPD Discharge: tributary to Hawlings River Coordinates: N500,614 / E771,311

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State Approved 2022-2031 Plan

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Monocacy Elementary School MCPS 18801 Barnesville Rd., Dickerson <u>Sewer</u> : No records of permitted system found. Notes in file indicate the system consists of tank(s) and seepage pits and there is no reserve area, when the system fails they will have to go a holding tank. 2014-2015 school year: 161 students & 22 staff	Source: Groundwater Treatment: Chlorination	Treatment: Septic tank, soil absorption via seepage pits Design capacity: unknown Ground discharge; no permit record.
NIH Animal Farm National Institutes of Health/USDHHS 22763 Elmer School Rd., Poolesville <u>Water</u> : Facility Study Proposed	Source: groundwater Treatment: Chlorination. Disposal: None Rated Capacity: 151,000 GPD Average Production: 42,000 GPD Maximum Peak Flow: 59,000 GPD Storage Capacity: 150,000 gal.* Coordinates: N472,000 / E665,000 <i>*elevated storage</i>	Treatment: activated sludge Design capacity: 10,000 GPD Surface water discharge: Broad Run. Permit no. 91-DP-2529 Coordinates: N471,066 / E664,523
Poolesville Golf Course Mont. Co. Revenue Auth. 16601 West Willard Rd. - Poolesville No comments	Source: groundwater	Treatment: Stabilization lagoon, soil absorption and evaporation via spray irrigation Design capacity: 8,000 GPD Ground discharge; permit not required. Coordinates: N469,910 / E680,408
Resource Recovery Facility Mont. Co. DEP & Northeast Maryland Waste Disposal Authority 21204 Martinsburg Rd. - Dickerson No comments	Source: groundwater Treatment: Chlorination. Disposal: None. Rated Capacity: 144,000 GPD Average Production: 144,000 GPD Maximum Peak Flow: 72,000 GPD Storage Capacity: 15,000 gal. Coordinates: N498,300 / E670,050	Treatment: Package treatment plant, with neutralization tank, dual media filter Design capacity: 122,400 GPD Surface water discharge: Potomac River via PEPCO discharge canal. Permit not required Coordinates: N498,300 / E670,050
PRIVATE FACILITIES: COMMERCIAL		
Blue Mash Golf Course Same 5821 Olney Laytonsville Rd. (MD 108), Laytonsville No comments	<i>Served by WSSC community water supply system.</i>	Treatment: spray irrigation (growing season only); ground discharge Design capacity: 5,000 GPD Surface discharge permit issued by MDE
Bretton Woods Recreation Center International Monetary Fund 15700 River Road - Seneca No comments	Source: Ground water Rated capacity: 1,500 GPD Average production: Maximum flow: Storage capacity:	Treatment: activated sludge Design capacity: 15,000 GPD Surface water discharge: Unnamed Tributary to Potomac River. Permit no. 90-DP-2754 Coordinates: N452,200 / E706,500
Dickerson Generating Station GenOn Mid-Atlantic LLC (formerly Mirant Mid-Atlantic) Martinsburg Rd. -- Dickerson Facility formerly owned by PEPCO.	Source: Potomac River Treatment: Clarification, filtration, & chlorination. Disposal: Hauled out Rated capacity: 56,000 GPD Average production: 26,000 GPD Maximum flow: 56,000 GPD Storage capacity: none Coordinates: N520,000 / E668,000	Treatment: Activated sludge Design capacity: 10,000 GPD Surface water discharge: Potomac River via discharge canal. Permit: MD002640 Coordinates: N501,800 / E669,992

MONTGOMERY COUNTY COMPREHENSIVE WATER SUPPLY AND SEWERAGE SYSTEMS PLAN

Appendix B: Multiuse Water and Sewer Facilities

State Approved 2022-2031 Plan

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Four Streams Golf Course Members Club at Four Streams, Inc. 19501 Darnestown Rd. (MD 28), Beallsville No comments.	Source: groundwater	Treatment: Septic tanks and soil absorption via subsurface fields with low pressure distribution. Design capacity: 2,750 GPD Ground discharge; permit not required.
Johnson's Flower & Garden Center Same 5011 Olney Laytonsville Rd. (MD 108), Laytonsville <u>Sewer:</u> Expansion proposed	Source: groundwater.	Treatment: Septic tanks and soil absorption via drain fields Design capacity: 2,000 GPD* Proposed:
Layton Village Shopping Center same 6830 Laytonsville Rd. (MD108), Laytonsville 2-building strip shopping center	Source: groundwater.	Treatment: septic tanks, aerobic treatment unit, soil absorption via drain fields Design capacity: 2,500 GPD Ground discharge; permit not required.
Laytonsville Veterinary Practice & Sundown Kennel SAnne 5910 Sundown Rd. - Laytonsville Formerly the Sundown Road Veterinary Clinic.	Source: Groundwater Treatment: None. Disposal: None Rated capacity: 1,500 GPD Average production: 1,500 GPD Maximum flow: 1,500 GPD Storage capacity: none Coordinates: N507,000 / E763,000	Treatment: septic tank, soil absorption via drain fields Design capacity: 1,500 GPD Ground discharge; permit not required. Coordinates: N507,000 / E763,000
Montgomery Country Club Same 6601 Olney Laytonsville Rd. (MD 108), Laytonsville No comments	Source: groundwater Treatment: none. Disposal: none	Treatment: septic tanks, soil absorption via drain fields with a low-pressure dosing distribution system Design capacity: 8,000 GPD Ground discharge; permit not required. Coordinates: N498,500 / E762,800
Potomac Oak Center* Travilah Oak LLC 12940-12960 Travilah Rd., Potomac Shopping center <u>Sewer:</u> Replacement septic system installed *Previously "Glenvilah Center."	Source: groundwater	Treatment: Septic tanks with aerobic treatment, soil absorption via drainfields Design capacity: 5,000 GPD Ground discharge; permit not required.
Ruppert Nurseries* Same 23601 Laytonsville Rd. (MD 108), Laytonsville Proposed facility: Approved preliminary plan 1-05090, 1,900 GPD *Formerly Yesteryear Farm Country Inn	Source Groundwater Treatment: none. Disposal: none Coordinates: N513,400/E759,300	
Seneca Highlands Harris Teeter Grocery Store Same 14101 Darnestown Rd. (MD 28), Darnestown <u>Sewer:</u> Addition of aerobic treatment and additional reserve areas allowed an expansion from 3,200 gpd to 4,000 gpd in 2005.	Served by WSSC community water supply system.	Treatment: Aerobic treatment unit, septic tank, soil absorption via deep drain fields Design capacity: 4,000 GPD Ground discharge; permit not required. Coordinates: N464,000 / E717,000

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Appendix B: Multiuse Water and Sewer Facilities
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PRIVATE FACILITIES: INSTITUTIONAL		
Armenian Youth Center of Greater Washington Same Darnestown Rd. (MD 28), Darnestown <u>Water</u> : Water category W-3. <u>Sewer</u> : Proposed facility for 6,500 GPD; MDE groundwater discharge permit required	<i>Will be served by WSSC community water supply system.</i>	<i>Pending facility.</i>
The Barnesville School Same Barnesville Road & Peach Tree Road, Barnesville <u>Water</u> : Expansion to 4,200 GPD is proposed <u>Sewer</u> : Expansion to 0.0042 mgd proposed for school expansion to 280 staff/students	Source Groundwater Treatment: none. Disposal: none Rated capacity:4,200 GPD Average production: Maximum flow: Storage capacity: Coordinates: N504,000 / E698,000	Treatment: septic tank, soil absorption via drain fields Design capacity:3,100 GPD Ground discharge; permit not required. Coordinates: N503,500 / E700,500
Camp Bennett Central Union Mission 20501 Georgia Ave. (MD 97), Brookeville Church camp	Source: groundwater	Treatment: septic tanks and soil absorption via drain fields. Design capacity:4,640 GPD Ground discharge; permit not required.
Camp Brighton Woods Girl Scout Council of the National Capital 120 Brighton Dam Rd., Brighton <u>Sewer</u> : Lodge #3 approval pending reserve area establishment.	Source: groundwater	Treatment: Design capacity: 2,980 GDP total Lodge # 1- 2000 gpd, lodge #2 – 980 gpd, Ground discharge; permit not required.
Camp Friendship/Camp Sonshine -- Carol Jean Cancer Foundation 16819 Damascus Road (MD 108), Sunshine No comments	Source Groundwater Treatment: none. Disposal: none Rated capacity: 10,000 GPD Average production: Maximum flow: Storage capacity: Coordinates: N510,000/E770,600	Treatment: septic tank, soil absorption via drain fields Design capacity: 10,000 GPD Ground discharge; permit not required. Coordinates: N510,000 / E770,600
Cedar Ridge Community Church Same 2430 Spencerville Rd. (MD 198), Spencerville <u>Sewer</u> : Interim septic system; site approved for community sewer service, category S-3.	<i>Served by WSSC community water supply system.</i>	Treatment: Septic tank, soil absorption via low pressure dose trenches Design capacity:2,800 GPD Ground discharge; permit not required.
Darnestown Presbyterian Church -- Same 15120 Turkey Foot Rd., Darnestown <u>Sewer</u> : Three existing systems serve the sanctuary building (*capacity not known), an education building, and a residence. Proposed expansion of the existing onsite system for the sanctuary to a design capacity of 2,400 GPD. Project is pending DPS approval.	<i>Served by WSSC community water supply system.</i>	<u>Existing systems</u> : Design Capacity:..... at least 1,700 MGD* Ground Discharge Permit not required <u>Proposed system</u> : Design Capacity:..... 1,490 GPD Ground Discharge Permit not required <u>Total with proposed system</u> : Design Capacity:3.190 GPD Coordinates N523,448 / E1,231,277

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Appendix B: Multiuse Water and Sewer Facilities
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First Baptist Church of Damascus same 8850 Damascus Rd. (MD 650), Damascus Sewer: Preliminary plan approved for proposed church expansion. 3080 gpd, low pressure dose trench system to be installed	<i>Church served by WSSC community water system. (Parsonage served by existing, non-multiuse well.)</i>	Data?
Emmanuel Seventh Day Adventist Church Same 18800 New Hampshire Ave (MD 650), Brinklow Formerly Brinklow Seventh Day Adventist Church.	Source: groundwater	Treatment: septic tank, soil absorption via drain fields Design capacity:4,000 GPD Ground discharge; permit not required.
Garden of Remembrance Memorial Park Garden of Remembrance Memorial Park., Inc. 14321 Comus Rd., Clarksburg Proposed facility	Source Groundwater Treatment: none. Disposal: none Rated capacity:1,500 GPD Average production: Maximum flow: Storage capacity: Coordinates: N516,100/E713,000	Treatment: septic tank, soil absorption via drain fields Design capacity:1,500 GPD Ground discharge; permit not required. Coordinates: N515,100 / E714,300
Glenstone II Museum Glenstone Foundation (private) 12100 Glen Rd., Potomac <u>Water:</u> Community water service approved (category W-3) that will be the primary water supply system for this facility.	Source Groundwater Treatment: filtration, softening, chlorination, pH control. Disposal: backwash to public sewer Rated capacity:58,000 GPD Average production:9,500 GPD Maximum flow:19,000 GPD Storage capacity:6,000 gal. Coordinates: N506,100 / E1,241,000	<i>Served by WSSC community sewer system</i>
Hampshire View Baptist Church Same 360 Ednor Rd., Norwood Formerly Wheaton Independent Baptist Church <u>Water:</u> Interim facility; community water service dependent on main extension to Hampshire Greens site	Source Groundwater Treatment: none. Disposal: none Rated capacity: Average production: Maximum flow: Storage capacity:	<i>Served by WSSC community sewerage system.</i>
Kingdom Hall of Jehovah's Witnesses Same 16825 New Hampshire Ave. (MD 650), Cloverly.	<i>Served by WSSC community water supply system.</i>	Treatment: septic tank and soil absorption via drain fields Design capacity:2,000 GPD Ground discharge; permit not required
John Wesley United Methodist Church Same 22420 Frederick Rd. (MD 355), Clarksburg	<i>Served by WSSC community water system.</i>	Treatment: septic tank and soil absorption via drain fields Design capacity:2,000 GPD Ground discharge; permit not required.
Montgomery Evangelical Free Church Same 19100 Muncaster Rd., Redland	Source Groundwater Treatment: none. Disposal: none Rated capacity: Average production: Maximum flow: Storage capacity:	Treatment: septic tank and soil absorption via drain fields Design capacity:2,250 GPD Ground discharge; permit not required.
Montgomery United Methodist Church Same 28325 Kemptown Rd. (MD 80), Damascus	<i>Served by WSSC community water supply system.</i>	Treatment: septic tank and soil absorption via drain fields Design capacity:1,500 GPD Ground discharge; permit not required.

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New Hope Presbyterian Church 17930 Bowie Mill Rd., Olney Proposed facility	Source Groundwater Treatment: none. Disposal: none Rated capacity: Average production: Maximum flow: Storage capacity: Coordinates: N480,000 / E777,000	Treatment: septic tank, soil absorption via low-pressure dosing system Design capacity: 2,100 GPD Ground discharge; permit not required. Coordinates: N480,000 / E777,000
Potomac Valley Assembly of God Same 22901 Ridge Rd. (MD 27), Clarksburg No comments.	<i>Served by WSSC community water supply system.</i>	Treatment: septic tank, soil absorption via drain fields Design capacity: 3,500 GPD Ground discharge; permit not required.
Seneca Academy same 15601 Germantown Rd. (MD 118), Darnestown Formerly The Circle School Proposed Facility	Source Groundwater Treatment: none. Disposal: none Rated capacity: 3,750 GPD Average production: Maximum flow: 3,750 GPD Storage capacity: none Coordinates: N465,700 / E714,700	Treatment: anaerobic treatment tanks, soil absorption via drain fields Design capacity: 3,750 GPD Ground discharge; permit not required. Coordinates: N465,200 / E715,200
Spencerville Seventh Day Adventist Church same 16325 New Hampshire Ave. (MD 650), Cloverly	<i>Served by WSSC community water supply system.</i>	Treatment: 6000-gallon septic tank, soil absorption via drain fields Design capacity: 3,000 GPD Ground discharge; permit not required.
Tri-County Baptist Church Same Damascus Rd. (MD 108), Damascus	Source Groundwater Treatment: none. Disposal: none Rated capacity: 4,500 GPD Average production: Maximum flow: 4,500 GPD Storage capacity: none Coordinates: N525,500 / E754,700	Treatment: septic tank, soil absorption via drain fields with dosing/resting system Design capacity: 4,500 GPD Ground discharge; permit not required. Coordinates: N525,100 / E755,300
Upper Seneca Baptist Church Same 23401 Davis Mill Rd., Cedar Grove Our records show that the new address of this property is 23425 Davis Mill Road	<i>Served by WSSC community water supply system.</i>	Treatment: 2500-gallon septic tank and soil absorption via drain fields Design capacity: 1,500 GPD Ground discharge; permit not required.
Visitation Catholic Church & Mary of Nazareth Catholic School Catholic Archdiocese of Washington 14139 Seneca Rd. (MD 112), Darnestown Formerly The Darnestown School Sewer: Construction of a church on the site has used up remaining allowed septic capacity	<i>Served by WSSC community water supply system.</i>	Treatment: septic tank, soil absorption via drain fields Design capacity: 20,000 GPD Ground discharge; permit not required. Coordinates: N462,000 / E716,000
Westbrook and Hickory Grove Group Homes Brooke Grove Foundation Slade School Rd., Sandy Spring Water & Sewer: Separate systems serving several structures on one site; a portion of the overall Brooke Grove Foundation site has access to and is served by community water and sewer service. Future connection to community systems is planned.	Source Groundwater Treatment: chlorination, pH control. Disposal: none Rated capacity: 10,500 GPD Average production: Maximum flow: Storage capacity: none Coordinates: N480,000 / E780,900	Treatment: septic tank, leach fields Design capacity: 10,500 GPD Ground discharge; permit not required. Coordinates: N480,150 / E780,900