

Application Type **Renewal**
Facility Type **Non-Municipal**
Major / Minor **Minor**

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. **PA0070114**
APS ID **1081529**
Authorization ID **1461261**

Applicant and Facility Information

Applicant Name	<u>Diversified Management Solutions LLC</u>	Facility Name	<u>Melanie Manor MHP</u>
Applicant Address	<u>PO Box 133</u>	Facility Address	<u>2600 Melanie Manor</u>
	<u>Selinsgrove, PA 17870-0133</u>		<u>Ringtown, PA 17967</u>
Applicant Contact	<u>Steve Anderson</u>	Facility Contact	<u>Christopher Hepburn</u>
Applicant Phone	<u>(570) 898-6761</u>	Facility Phone	<u>(570) 777-6781</u>
Client ID	<u>373955</u>	Site ID	<u>2754</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Union Township</u>
Connection Status		County	<u>Schuylkill</u>
Date Application Received	<u>November 1, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>November 1, 2023</u>	If No, Reason	
Purpose of Application	<u>Renewal of NPDES Permit to discharge treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.018 MGD of treated sewage into an Unnamed Tributary to Dark Run, a HQ-CWF, MF (High Quality-Cold Water Fishes, Migratory Fish) receiving stream in State Water Plan Basin 5-E (Catawissa – Roaring Creek). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use. This stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. Dark Run is designated as a naturally reproducing trout stream. This discharge is not expected to affect public water supplies.

Sewage is treated in an extended air, activated sludge aerobic treatment tank, a secondary clarifier, clear well, sand filter beds, and then used chlorine disinfection tables before discharging to the receiving stream.

As previous permits indicated, this Unnamed Tributary to Dark Run is a dry stream. The dry stream permit conditions were previously incorporated into the permit. The point of compliance for water quality criteria was assumed to be at the confluence with Dark Run.

Sludge generated at this facility is hauled offsite to Greater Hazelton Joint Sewer Authority. Approximately .334 dry tons of sludge is hauled via a 3rd party contractor.

Limitations for pH, Total Suspended Solids (TSS), CBOD₅, and Fecal Coliform are technology-based and carried over from the previous permit. Limitations for Dissolved Oxygen and Ammonia-Nitrogen (May 1 – Oct 31) are water quality-based and carried over from the previous permit. Monitoring and reporting was added for Ammonia-Nitrogen (Nov 1 – April 30). The Total Residual Chlorine (TRC) Calculation Spreadsheet recommends the same limitations than the previous permit. There are no non-compliance issues for discharged effluent.

Approve	Deny	Signatures	Date
X		William Hon (signed) William Hon / Environmental Engineer	June 26, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	7-1-24

Summary of Review

A TMDL (Total Maximum Daily Load) for the Catawissa Creek Watershed was approved by EPA on April 9, 2003. The TMDL addresses metals (iron, manganese and aluminum) and depressed pH associated with acid mine drainage (AMD). All the allocations in the TMDL are load allocations to nonpoint sources of pollution. There are no WLAs for this facility.

E. Coli monitoring requirements will be introduced into new permit according to PA DEP policy for individual sewage effluent limitations. E. Coli requirements for a treatment plant with less than .05mgd discharge is found in the SOP for establishing effluent limitations for individual sewage.

The state-wide default low flow yield (LFY) of 0.1 cfs/mi² was used to model the discharge. RMI values were obtained using the Department’s eMapPA, drainage areas were delineated using USGS’s StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

The existing permit expired on 4/30/2024 and the application for renewal was submitted on time. A Water Management System Inspection query was completed. The last two inspections performed were on 12/28/2023 and 1/03/2023. Both inspections had violations. These violations are listed below.

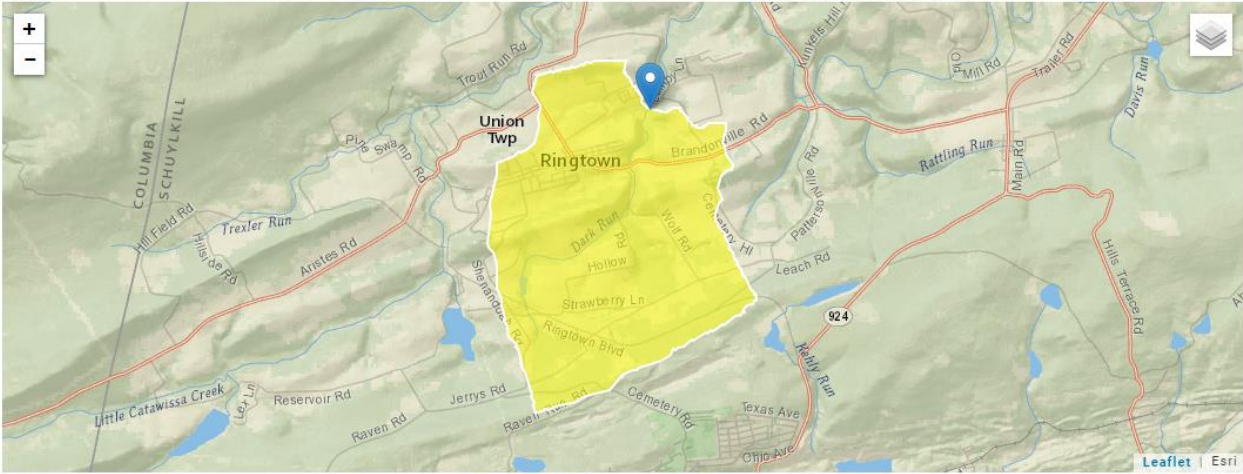
A Water Management System “Open Violations by Client Report” was performed and indicated there are violations from 1/03/2023 and 12/28/2023 for “Operator Certification - Failure to submit annual system fee”. These violations must be resolved.

The previous permit was transferred from Melanie Manor Mobile Home Park to Diversified Management Solutions LLC on 06/01/2023.

Model Inputs:

Stream Code: 27585
PT1: at outfall 002
RMI: 2.29 (from eMAPPA)
Clicked Point (Latitude, Longitude):
Time:

40.86446, -76.21930
2024-05-01 12:15:10 -0400



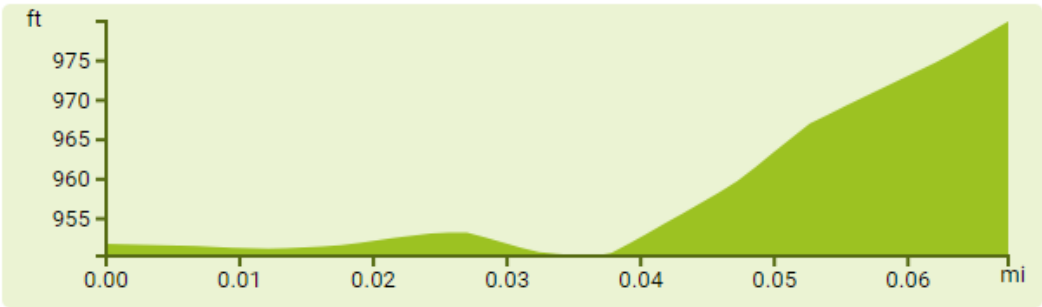
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	3.65	square miles

L7.10: .35fps

Summary of Review

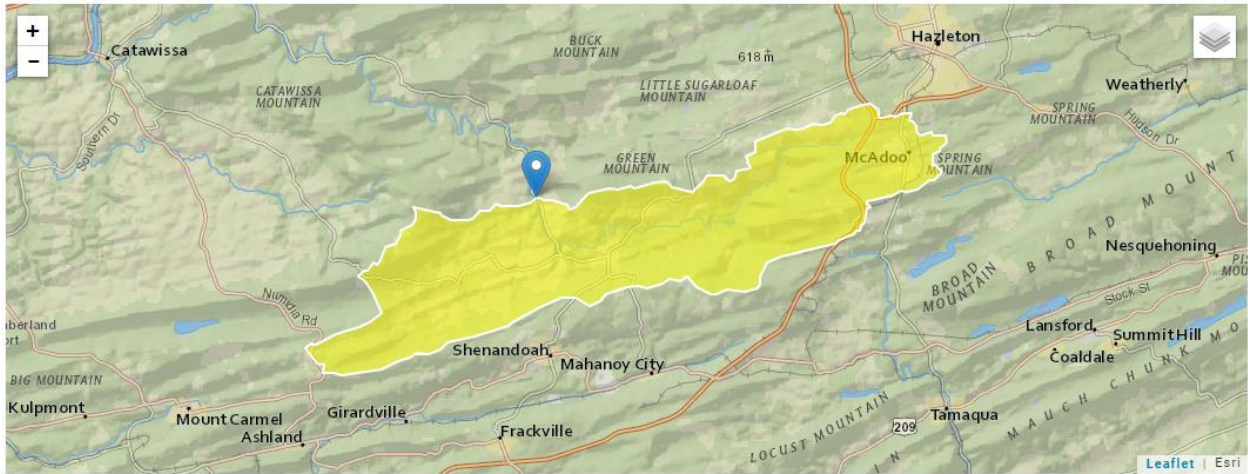
Elevation profile



PT: at conflux with Catawissa Creek
RMI: .1

Clicked Point (Latitude, Longitude):
Time:

40.89017, -76.20913
2024-05-01 12:21:40 -0400



Collapse All

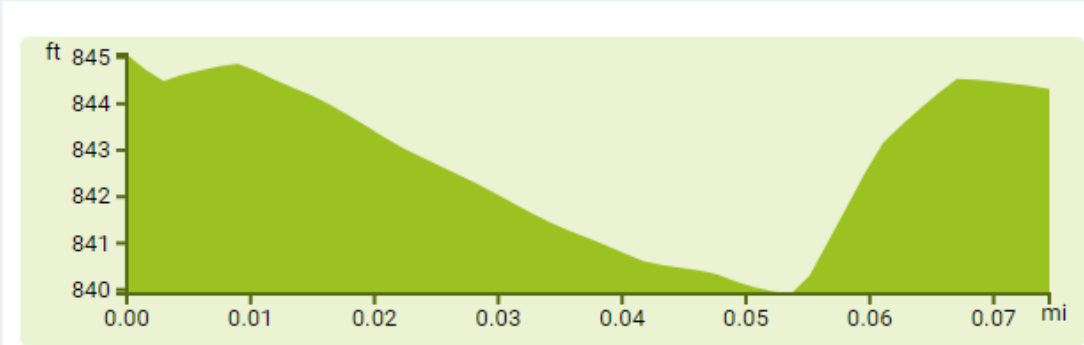
Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	60.4	square miles

L7.10: 10.7fps

Summary of Review

Elevation profile



Analysis Results WQM 7.0

Hydrodynamics NH3-N Allocations D.O. Allocations D.O. Simulation Effluent Limitations

RMI	Discharge Name	Permit Number	Disc Flow (mgd)
2.29	Melanie Manor	PA0070114	0.0180

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	13.75	27.5	
Dissolved Oxygen			3

Record: 1 of 1 No Filter Search

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Summary of Review

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.1	= Q stream (cfs)	0.5	= CV Daily
0.018	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		= Decay Coefficient (K)

Source	Reference	AFC Calculations	Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc = 1.165	1.3.2.iii	WLA cfc = 1.128
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 0.434	5.1d	LTA_cfc = 0.656

Source	Effluent Limit Calculations
PENTOXSD TRG 5.1f	AML MULT = 1.231
PENTOXSD TRG 5.1g	AVG MON LIMIT (mg/l) = 0.500
	INST MAX LIMIT (mg/l) = 1.635
	BAT/BPJ

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
X		William Hon (signed) William Hon / Environmental Engineer	June 26, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	7-1-24