

Northcentral Regional Office CLEAN WATER PROGRAM

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Application No.

APS ID

Authorization ID

Application No.

PA0113301

1010568

1304035

	Applicant and Fac	cility Information	
Applicant Name	Mansfield Borough Municipal Authority (MBMA)	Facility Name	MBMA Water Filtration Plant
Applicant Address	nnt Address 14 S Main Street		Shaw Road
	Mansfield, PA 16933		Mansfield, PA 16933
Applicant Contact	Richard Correll	Facility Contact	
Applicant Phone	(570) 971-8450	Facility Phone	
Client ID	83075	Site ID	4169
SIC Code	4941	Municipality	Richmond Township
SIC Description	Trans. & Utilities - Water Supply	County	Tioga
Date Application Receiv	ved January 31, 2020	EPA Waived?	Yes
Date Application Accep	ted February 6, 2020	If No, Reason	
Purpose of Application	Renewal of Existing NPDES Permit		

Summary of Review

The above applicant has submitted a renewal application for the existing discharge of industrial wastewater. The discharge is backwash water from a potable water filtration plant that serves the Borough of Mansfield and portions of Richmond Township. Treatment of the wastewater is provided via two backwash lagoons. The discharge is to Lambs Creek. Sludge from the lagoons is hauled away for disposal. Each lagoon requires solids removal approximately every other year.

Based on the following review, I recommend the permit be drafted and published in the PA Bulletin for the required 30 day public comment period. Unless otherwise noted, all applicable Department Standard Operating Procedures (SOPs) were followed during the review of this application.

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
Х		Chad A. Jabian Chad A. Fabian / Project Manager	October 21, 2020
X		Nicholas W. Hartrauft, P.E. Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	October 22, 2020

	Dis	scharge, Receiving Water	rs and Water Supply Informat	tion			
Outfall No. 001			Decima Flour (MCD)	0.0084 (peak monthly average)			
<u> </u>	0' 07 40"		Design Flow (MGD)	0.006 (daily average)			
	9' 27.10"	al.	Longitude	77° 9' 0.10"			
	ooked Cre	_	Quad Code	0428			
Wastewater Descrip	otion: <u>F</u>	Potable water filtration plan	t backwash water				
Receiving Waters	Lambs (Creek	Stream Code	31320			
NHD Com ID	5735151	17	RMI	3			
Drainage Area	2		Yield (cfs/mi ²)	0.01			
Q ₇₋₁₀ Flow (cfs)	0.02		 Q ₇₋₁₀ Basis	USGS Streamstats (See attached printout)			
Elevation (ft)	1360		Slope (ft/ft)	n/a			
Watershed No.	4-A		Chapter 93 Class.	CWF			
Existing Use	CWF		Existing Use Qualifier	_n/a			
Exceptions to Use	none		Exceptions to Criteria	none			
Assessment Status		Not Assessed	<u> </u>				
Cause(s) of Impairn	nent r	n/a					
Source(s) of Impair		n/a					
TMDL Status	-	Completed	Name Tioga River	Watershed TMDL (3/22/2002)			
	<u></u>						
Nearest Downstrea	m Public \	Nater Supply Intake	PA/NY Border, approximately	17 miles downstream			

Changes Since Last Permit Issuance: None

Comments: The Tioga River has a TMDL for impairment from metals and pH from acid mine drainage sources. However, the TMDL does not require that a load allocation be made in the stretch of the Tioga River in which this outfall is located. Therefore, the TMDL does not apply to this discharge.

Compliance History						
Summary of DMRs:	The facility utilizes the Department's eDMR system. In the past 12 months, no effluent violations have occurred. A summary of the results are included in the compliance history table below.					
Summary of Inspections:	Inspections were performed on 2/19/2019 (in person) and on 4/16/2020 (via phone). No violations were noted in either inspection. No impact from the discharge was observed in the receiving stream during the 2/19/2020 inspection. The facility has a history of compliance.					

Compliance History

DMR Data for Outfall 001 (from September 1, 2019 to August 31, 2020)

Parameter	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19
Flow (MGD)												
Average Monthly	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02
Flow (MGD)												
Daily Maximum	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.03	0.04	0.02
pH (S.U.)												
Minimum	7.67	7.5	7.6	7.4	7.1	7.6	7.5	7.53	7.6	7.5	7.6	7.6
pH (S.U.)												
Instantaneous												
Maximum	7.8	7.62	7.9	7.5	7.5	7.9	8.1	8.07	8.05	7.7	8.2	7.9
TRC (mg/L)												
Average Monthly	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0001	< 0.01	< 0.001	< 0.01	< 0.01	< 0.01	0.01	0.01
TRC (mg/L)												
Instantaneous												
Maximum	< 0.01	< 0.01	< 0.01	< 0.01	< 0.0001	< 0.01	< 0.001	< 0.01	< 0.01	< 0.01	0.01	0.04
TSS (mg/L)												
Average Monthly	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
TSS (mg/L)												
Daily Maximum	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Total Aluminum												
(mg/L)												
Average Monthly	0.18	0.60	0.26	0.28	0.19	0.88	0.17	0.089	0.14	0.31	0.14	0.16
Total Aluminum												
(mg/L)	0.40	0.00	0.00	0.00	0.40	0.00	0.47	0.000	0.4.4	0.04	0.44	0.40
Daily Maximum	0.18	0.60	0.26	0.28	0.19	0.88	0.17	0.089	0.14	0.31	0.14	0.16
Total Iron (mg/L)	0.070	0.07	0.070	0.070	0.070	0.070	0.070	0.070	0.07	0.07	0.07	0.07
Average Monthly	< 0.070	< 0.07	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.07	< 0.07	< 0.07	< 0.07
Total Iron (mg/L)	0.070	0.07	0.070	0.070	0.070	0.070	0.070	0.070	0.07	0.07	0.07	0.07
Daily Maximum	< 0.070	< 0.07	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.070	< 0.07	< 0.07	< 0.07	< 0.07
Total Manganese												
(mg/L)	0.007	0.01	0.0076	. 0.0050	0.0050	0.0054	0.005	. 0.0050	0.0050	0.01	0.000	0.0005
Average Monthly	0.007	0.01	0.0076	< 0.0050	0.0050	0.0051	0.005	< 0.0050	0.0058	0.01	0.009	0.0065
Total Manganese												
(mg/L)	0.007	0.01	0.0076	4 O OOFO	0.0050	0.0051	0.005	10.0050	0.0050	0.01	0.000	0.0065
Daily Maximum	0.007	0.01	0.0076	< 0.0050	0.0050	0.0051	0.005	< 0.0050	0.0058	0.01	0.009	0.0065

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC		
рН	6.0-9.0 S.U.	Min – Max		
TSS	30	Monthly Ave		
TSS	60	Daily Max		
Iron	2	Monthly Ave		
Iron	4	Daily Max		
Aluminum*	1.2	Monthly Ave		
Aluminum*	1.9	Daily Max		
Manganese	1	Monthly Ave		
Manganese	2	Daily Max		

The above limitations are in the existing permit. All of the limitations, except for aluminum, are from the *Technology-Based Control Requirements for Water Treatment Plant Wastes*, 362-2183-003, 10/97.

Water Quality-Based Limitations

The Department's PENTOXSD model is a mass-balance water quality analysis model that includes consideration for mixing and other factors to determine recommended water quality-based effluent limits. The model incorporates the water quality criteria of 25 Pa. Code §93. During the previous issuance of the permit, the model was run for all of the expected toxics (metals) in the wastewater. In order to be conservative, the discharge was modeled using the peak monthly average flow (8400 gallons per day). The modeling run showed that the existing limitations are protective of water quality standards. Modeling was not performed per the Department's SOP for renewing NPDES permits, since no changes have occurred to the receiving water or discharge.

The following water quality based limitations are still in effect:

Parameter	Limit (mg/l)	SBC		
aluminum	1.2	Monthly Ave.		

Comments: The above limitation is an existing limitation.

Additionally, a previous TRC evaluation showed that the existing TRC limitations are protective of water quality standards.

Existing and Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

		Monitoring Re	quirements					
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	Minimum ⁽²⁾	Required		
Faranietei	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
TRC	XXX	XXX	XXX	0.35	XXX	1.1	1/day	Grab
TSS	XXX	XXX	XXX	30.0	60.0	XXX	1/month	8-Hr Composite
Total Aluminum	XXX	XXX	XXX	1.2	1.9	XXX	1/month	8-Hr Composite
Total Iron	XXX	XXX	XXX	2.0	4.0	XXX	1/month	8-Hr Composite
Total Manganese	XXX	XXX	XXX	1.0	2.0	XXX	1/month	8-Hr Composite

Compliance Sampling Location: 001

Other Comments: The proposed effluent limitations and monitoring frequencies are the same as in the existing permit.

It is recommended that the permit be drafted as described above.