

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

**NPDES PERMIT FACT SHEET
INDIVIDUAL SFTF/SRSTP**

Application No. PA0216631
APS ID 1004998
Authorization ID 1294203

Applicant, Facility and Project Information

Applicant Name	<u>Regis Kraisinger</u>	Facility Name	<u>Kraisinger Reception Hall STP</u>
Applicant Address	<u>139 S Quarry Street</u> <u>Mount Pleasant, PA 15666-1747</u>	Facility Address	<u>114 Kings Pointe Road</u> <u>Mount Pleasant, PA 15666</u>
Applicant Contact	<u>Regis Kraisinger</u>	Facility Contact	<u>Regis Kraisinger</u>
Applicant Phone	<u>724-542-2222</u>	Facility Phone	<u>724-542-2222</u>
Client ID	<u>44708</u>	Site ID	<u>248218</u>
SIC Code	<u>5812</u>	Municipality	<u>East Huntingdon Township</u>
SIC Description	<u>Retail Trade - Eating Places</u>	County	<u>Westmoreland</u>
Date Application Received	<u>October 31, 2019</u>	WQM Required	<u></u>
Date Application Accepted	<u>5/2/2019</u>	WQM App. No.	<u></u>
Project Description	<u>.Renewal of NPDES Permit PA 0216631</u>		

Summary of Review

The previous permit for this facility was issued on 12/16/2014 and has expired on 10/31/2019.

The existing treatment process consists of flow equalization, an aeration tank, final clarification, sludge holding tank, and chlorination.

The permittee has submitted water usage for the facility for more than two years. It shows that the average daily flow is 269 gpd for at least two - year period. Based on this low flow and the permittee's request, the Department has decided to convert the permit type from permit for minor sewage facility to permit for small flow treatment facility.

As this facility is constructed before the publication of Small Flow Treatment Facilities Manual, Dated December 2, 2006, it cannot be subjected to the effluent limits for small flow treatment plant:

CBOD₅ 10 mg/l average 20 mg/l IMAX
TSS 10 mg/l average 20 mg/l IMAX

The effluent limits from previous permit will be carried over to this permit.

Based on the Compliance Check Report (dated 10/31/2019), the facility has exceeded Fecal Coliform Limits once in 2019. The Operations has stated that it will monitor the issue.

The facility has no current compliance issues.

Background for existing limits (previous permit fact sheet):

Approve	Deny	Signatures	Date
X		/s/ Harris Mahmud / Permit Reviewer	11/5/2019
X		/s/ Donald J. Leone, P.E. / Environmental Engineer Manager	11/5/2019

Summary of Review

Per the SOP-Establishing Effluent Limitations for Individual Sewage Permits, in-stream and discharge chlorine demands of 0.3 mg/l and 0 mg/l, respectively are to be used as default values in the TRC spreadsheet model to calculate water quality-based TRC limits unless site-specific data supporting different values have been collected in accordance with the Implementation Guidance Total Residual Chlorine (391-2000-013). The previous TRC limits were based on in-stream and discharge chlorine demands of 0.8 mg/l and 0 mg/l. The revised modeling using the chlorine demands per the SOP confirmed a technology based limit of 0.5 mg/l is sufficient to meet water quality criteria.

Per the State Regulation shown in the above table, 0.5 mg/l as an average monthly TRC limit is considered a technology based limit. The Pittsburgh Regional Office previously considered the BAT limit to be 1.4 mg/l for chlorine tanks/tablet chlorinators for a plant this size. Because the average annual flow is less than 2000 gpd, the existing chlorine limit of 1.4 mg/l will remain.

The CBOD5, TSS, Fecal Coliform, and pH limits are kept the same as the previous NPDES permit.

Water Quality-Based Limitations

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
Ammonia Nitrogen	7.0	Average Monthly	WQAM63

Comments: The Ammonia-Nitrogen limitations are the same as the previous NPDES permit.

According to the SOP-Establishing Effluent Limitations for Individual Sewage Permits, the minimum Dissolved Oxygen standard in Chapter 93 for warm water fisheries of 4.0 mg/l should be established as a minimum BPJ limit. This is applied for an activated sludge system. This is an additional limit that was not previously imposed on the facility.

As this facility is no longer considered a facility with average flow of more than 2,000 gpd, the permit will not include Total Nitrogen and Total Phosphorous as effluent limits parameters.

Flow evaluation from Water Usage

	monthly gallons	Daily gpd
Jan-17	6000	194
17-Feb	5000	179
Mar-17	5000	161
Apr-17	5000	167
May-17	8000	258
Jun-17	12000	400
Jul-17	13000	419
Aug-19	16000	516
Sep-17	10000	333
Oct-17	9000	290
Nov-17	7000	233
Dec-17	6000	194
Jan-18	7000	226
Feb-18	3000	103
Mar-18	2000	65
Apr-18	6000	200
May-18	9000	290
Jun-18	12000	400
Jul-18	13000	419
Aug-18	14000	452
Sep-18	15000	500
Oct-18	6000	194
Nov-18	3000	100
Dec-18	5000	161
	Total 2-Yrs	6454
	Average daily	269

Summary of Review

Part of Request Letter from Permittee:

I am writing you to request that our Wastewater Treatment System be downgraded to a small flow permit. We do not use or put very much water into our system and our flow has been consistent for the past twenty years. I have already included documentation of our water usage in the form of water invoices from the Municipal Authority of Westmoreland County. The flow at our facility consistently averages less than 400 gallons per day. We have a family owned catering kitchen with a handful of employees and the financial and labor issues of handling the more intensive laboratory testing is an ever increasing challenge. Furthermore, we do not have any future plans of expanding or developing our business that would cause any higher effluent flow.

I kindly thank you for any consideration that you may give to this matter.

Previous:



Previous Pollution
Report

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.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0036</u> Average Daily Flow 269 gpd
Latitude	<u>40° 9' 19"</u>	Longitude	<u>-79° 33' 46"</u>
Quad Name	<u>Mount Pleasant</u>	Quad Code	<u>1709</u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>UNT of Jacobs Creek</u>	Stream Code	<u>37936</u>
NHD Com ID	<u>134770219</u>	RMI	<u>3.15</u>
Drainage Area	<u>0.43 sq.mi.</u>	Yield (cfs/mi ²)	<u>0.043</u>

Q ₇₋₁₀ Flow (cfs)	<u>0.0185</u>	Q ₇₋₁₀ Basis	<u>Jacobs Creek at Jacobs Creek, PA (Bulletin #12, page 401, station #03083100)</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>

Watershed No.	<u>19D</u>	Chapter 93 Class.	<u>Warm Water Fishes</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>

Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>METALS, SILTATION</u>		
Source(s) of Impairment	<u>ACID MINE DRAINAGE, HIGHWAY/ROAD/BRIDGE RUNOFF (NON- CONSTRUCTION RELATED)</u>		
TMDL Status	<u>No TMDL for Jacobs Creek Watershed</u>		
	Name	<u></u>	

Background/Ambient Data	Data Source
pH (SU)	<u></u>
Temperature (°F)	<u></u>
Hardness (mg/L)	<u></u>
Other:	<u></u>

Nearest Downstream Public Water Supply Intake	<u>Westmoreland County Municipal Authority-McKeesport</u>		
PWS Waters	Flow at Intake (cfs)	<u></u>	
PWS RMI	Distance from Outfall (mi)	<u></u>	

Changes Since Last Permit Issuance:

Other Comments:

Compliance History	
Summary of DMRs:	Based on the Compliance Check Report (dated 10/31/2019), the facility has exceeded Fecal Coliform Limits once in 2019. The Operations has stated that it will monitor issue the issue.
Summary of Inspections:	The facility has no current compliance issues.

Other Comments: None

Treatment Facility Summary				
Treatment Facility Name: Kraisinger Reception Hall STP				
WQM Permit No.	Issuance Date			
6594414	July 31, 1995			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary with ammonia removal	Extended aeration	Chlorinator/chlorine contact tank	0.000269
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0036	13.2	Not Overloaded	Sludge holding tank	Hauled

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.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/month	Grab
TRC	XXX	XXX	XXX	1.4	XXX	3.3	1/month	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	1/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	21.0	XXX	42.0	1/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	7.0	XXX	14.0	1/month	Grab

Compliance Sampling Location: Outfall 001

Other Comments: