

Southeast Regional Office CLEAN WATER PROGRAM

Application Type
Renewal
NonFacility Type
Major / Minor
Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0042889

APS ID **999374**

Authorization ID 1283820

Applicant and Facility Information								
Applicant Name	Octorara Area School District	Facility Name	Octorara School District STP					
Applicant Address	228 Highland Road	Facility Address	228 Highland Road					
	Atglen, PA 19310-1603		Atglen, PA 19310-1603					
Applicant Contact	Jeff Curtis	Facility Contact	Arthur Tate					
Applicant Phone	(610) 593-8238	Facility Phone	(215) 256-0042					
Client ID	83293	Site ID	257965					
Ch 94 Load Status	Not Overloaded	Municipality	West Fallowfield Township					
Connection Status		County	Chester					
Date Application Rece	eivedJuly 24, 2019	EPA Waived?	Yes					
Date Application Acce	epted	If No, Reason						

Summary of Review

The permittee has submitted NPDES permit renewal application to discharge sewage effluent to UNT Knight Run through Outfall 001.

The treatment facility consists of equalization, extended aeration, settling tank, sand filters, chlorine contact, post aeration and dichlorination.

DEP has conducted on 09/10/19. Copy of the inspection report is attached.



Octorara STP INSP 9.10.19.pdf

Based on the site inspection, facility's comminutor does not work and is utilizing the bypass channel.

This facility's discharges to Chesapeake Bay watershed that has an implementation Plan (dated November 9, 2018) described below

For Phase 5 sewage facilities with individual permits (average annual design flow on August 29, 2005 > 0.002 MGD and < 0.2 MGD), DEP will issue individual permits with monitoring and reporting for TN and TP throughout the permit term at a frequency no less than annually, unless 1) the facility has already conducted at least two years of nutrient monitoring and 2) a summary of the monitoring results are included in the next permit's fact sheet. If, however, Phase 5 facilities choose to expand, the renewed or amended permits will contain Cap Loads based on the lesser of a) existing TN/TP concentrations at current design average annual flow or b) 7,306 lbs/yr TN and 974 lbs/yr TP.

However, we have continued annual monitoring of TN in this renewal to have updated data.

Approve	Deny	Signatures	Date
V			
X		Begay Omuralieva / Environmental Engineering Specialist /s/	November 14, 2019
		greating operation	, , , , , , , , , , , , , , , , , , , ,
X			
		Pravin C. Patel, P.E. / Environmental Engineer Manager /s/	November1 15, 2019

Summary of Review

Based on review of the last 4 years the TN and TP ave. loading is 11.6 lbs./day. and 0.1 lbs./day, respectively. (TN and TP summary is attached)

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TN results for 2015 - 2019.xls

TP summary 2015-2019.xls

There is no change on quality and quantity of the effluent therefore previously established effluent limits and monitoring requirements will be proposed in the draft permit as listed in p.6 of this fact sheet.

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 Wate	rs and Water Supply Informati	on			
Outfall No. 001 Latitude 39° 55' 7.54 Quad Name Wastewater Description:	" Sewage Effluent	Design Flow (MGD) Longitude Quad Code	.03 -75° 57' 9.84"		
Receiving Waters (TSF	amed Tributary to Knight Run (f, MF) (6009	Stream Code RMI Yield (cfs/mi²) Q ₇₋₁₀ Basis Slope (ft/ft) Chapter 93 Class. Existing Use Qualifier Exceptions to Criteria	07123 0.65 TSF, MF		
Assessment Status Cause(s) of Impairment Source(s) of Impairment TMDL Status	Attaining Use(s) Tentative	·	eek Watershed TMDL		
	Final		peake Bay TMDL		

Changes Since Last Permit Issuance: none

Treatment Facility Summary									
Treatment Facility Na	me: Octorara Area School	District STP							
WQM Permit No.	Issuance Date								
1503416	12/23/2003								
	Dograp of			Ava Annual					
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)					
		Extended Aeration With		, ,					
Sewage	Tertiary	Solids Removal	Hypochlorite	0.03					
Hydraulic Capacity	Organic Capacity			Biosolids					
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal					
0.03		Not Overloaded	Holding Tank	Other WWTP					

Changes Since Last Permit Issuance: none

Compliance History

DMR Data for Outfall 001 (from August 1, 2018 to July 31, 2019)

Parameter	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18
Flow (GPD)												
Average Monthly	0.0054	0.0091	0.0136	0.0128	0.0116	0.0101	0.0121	0.0137	0.0091	0.0109	0.0122	0.0054
Flow (GPD)												
Daily Maximum	0.0262	0.0348	0.0245	0.0243	0.0208	0.018	0.025	0.0313	0.0196	0.0238	0.0202	0.019
pH (S.U.)												
Instantaneous												
Minimum	6.4	6.6	6.9	6.9	6.9	6.7	6.6	6.5	6.5	6.7	6.8	6.5
pH (S.U.)												
Instantaneous												
Maximum	8.0	7.7	7.6	7.8	7.5	7.7	7.5	7.8	7.1	7.4	7.2	7.6
DO (mg/L)												
Minimum	6.3	5.6	6.3	6.3	7.9	7.6	7.5	7.5	7.9	6.1	6.4	7.0
TRC (mg/L)												
Average Monthly	< 0.02	< 0.02	< 0.02	< 0.02	0.04	0.02	0.02	0.01	0.02	0.01	0.01	0.01
CBOD5 (lbs/day)												
Average Monthly	0.10	0.30	0.80	< 0.30	0.80	0.60	< 0.50	0.30	0.30	< 0.30	< 2.23	< 0.10
CBOD5 (mg/L)	_		_	_	_	_	_	_		_		
Average Monthly	4	4	5	2	5	4	< 4	3	3	< 2	< 13	< 3
TSS (lbs/day)	0.4	0.0	0.7	0.0		0.7	0.0	0.5	0.0	0.0	0.0	0.7
Average Monthly	0.4	0.8	< 0.7	< 0.6	1.4	< 0.7	< 0.8	< 0.5	< 0.6	0.9	< 0.8	0.7
TSS (mg/L)	0	40		. 4	40							40
Average Monthly	9	10	< 4	< 4	10	< 5	< 6	< 4	< 5	6	< 5	18
Fecal Coliform (CFU/100 ml)												
Geometric Mean	< 26	< 15	< 1	< 1	< 1	< 1	< 6	< 1	< 1	< 2	< 1	< 5
Fecal Coliform	< 20	< 15	< 1	< 1	< 1	< 1	< 0	< 1	< 1	< 2	< 1	< 5
(CFU/100 ml)												
Instantaneous												
Maximum	696	216	2	< 1	< 1	< 1	41	2	< 1	3	< 1	23
Nitrate-Nitrite (lbs/day)	000	210					71					20
Average Monthly								11				
Nitrate-Nitrite (mg/L)												
Average Monthly								75.87				
Total Nitrogen								7 0.07				
(lbs/day)												
Average Monthly								11				

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Total Nitrogen (mg/L) Average Monthly								76.98				
Ammonia (lbs/day)												
Average Monthly	< 0.004	< 0.008	< 0.1	0.3	0.1	0.3	0.2	0.3	0.4	0.02	< 0.02	< 0.004
Ammonia (mg/L)												
Average Monthly	< 0.1	< 0.1	< 0.8	2.5	1.1	2.0	1.2	2.4	3.2	< 0.1	< 0.1	< 0.1
TKN (lbs/day)												
Average Monthly								0.2				
TKN (mg/L)												
Average Monthly								1.11				
Total Phosphorus												
(lbs/day)												
Average Monthly	0.1	0.1	0.2	0.2	0.2	0.1	0.08	0.07	0.1	0.1	0.3	0.06
Total Phosphorus (mg/L)												
Average Monthly	1.5	1.5	1.4	1.9	1.5	0.8	0.6	0.5	1.3	0.9	1.8	1.3

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		
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (CDD)	Donort	Report	VVV	XXX	XXX	XXX	Continuous	Described
Flow (GPD)	Report	Daily Max	XXX	^^^	^^^	^^^	Continuous	Recorded
pH (S.U.)	XXX	XXX	6 Inst Min	XXX	XXX	9	See Permit	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	See Permit	Grab
TRC	XXX	XXX	XXX	0.02	XXX	0.04	See Permit	Grab
CBOD5	6.25	XXX	XXX	25	XXX	50	2/month	8-Hr Composite
TSS	7.5	XXX	XXX	30	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Nitrate-Nitrite	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	8-Hr Composite
Total Nitrogen	Report Annl Avg	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Calculation
Ammonia	Ţ.						,	8-Hr
Nov 1 - Apr 30	1.5	XXX	XXX	6.0	XXX	12	2/month	Composite
Ammonia								8-Hr
May 1 - Oct 31	0.5	XXX	XXX	2.0	XXX	4	2/month	Composite
	Report			Report				8-Hr
TKN	Annl Avg	XXX	XXX	Annl Avg	XXX	XXX	1/year	Composite
Total Phosphorus	0.5	XXX	XXX	2.0	XXX	4	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001