

Minor

Major / Minor

Southcentral Regional Office CLEAN WATER PROGRAM

Application Type Renewal
NonFacility Type Municipal
NPDES/WQM PERMITS FACT SHEET
INDIVIDUAL SEWAGE

PA0080616 & WQM 0185402

APS ID

1005223 1294593 &

Authorization ID

1294593 & 1295060

iviajor / iviirior		Applicant and Fa	cility Information	7.00101120101112 <u>1233333</u>
		Applicant and Ta	omey information	
Applicant Name	Mount	tain View MHP Management, LLC	Facility Name	Mountain View MHP
Applicant Address	2846 N	Main Street, Box 12A	Facility Address	203 Rife Road
	Morga	ntown, PA 19543-9490		East Berlin, PA 17316
Applicant Contact	James	s Perano	Facility Contact	James Perano
Applicant Phone	(610) 2	286-0490	Facility Phone	(610) 286-0490
Client ID	35344	0	Site ID	249933
Ch 94 Load Status	Not O	verloaded	Municipality	Reading Township
Connection Status			County	Adams
Date Application Rece	ived	October 24, 2019	EPA Waived?	Yes
Date Application Acce	pted	November 5, 2019	If No, Reason	
Purpose of Application		NPDES permit renewal & transfer.		

Summary of Review

Pleasant Valley Rentals, LLC has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its National Pollutant Discharge Elimination System (NPDES) permit. The permit was issued on August 28, 2012 and became effective on October 1, 2012. The permit authorized discharge of treated sewage from the existing wastewater treatment plant (WWTP) located in Reading Township, Adams County to Conewago Creek. The existing permit expiration date was September 30, 2017, and the permit has been administratively extended since that time.

On November 4, 2019, Department of Environmental Protection (DEP) received a permit transfer application from Mr. James Perano, requesting the permit be amended to reflect a change in ownership from Pleasant Valley Rentals, LLC (owned by Mr. Tim Hill) to Mountain View MHP Management, LLC (Mr. James Perano, Chief Operating Officer).

WQM permit No. 0185402 was originally issued on February 7, 1986. It will be transferred in conjunction with issuance of the final NPDES permit.

Changes from the previous permit: Unit of Fecal Coliform changed from CFU/100 ml to No./100 ml.

Based on the review outline in this fact sheet, it is recommended that the permit be drafted and published in the Pennsylvania Bulletin for public comments for 30 days.

Approve	Deny	Signatures	Date
X			
		Hilary H. Le / Environmental Engineering Specialist	November 22, 2019
		Daniel W. Martin, P.E. / Environmental Engineer Manager	
		Maria D. Bebenek, P.E. / Clean Water Program Manager	

Discharge, Receivi	ng Waters and Water Supply Info	rmation			
Outfall No. 001		Design Flow (MGD)	0.011		
Latitude 39°	56' 38.32"	Longitude	-76° 59' 3.42"		
Quad Name A	bbottstown	Quad Code			
Wastewater Desc	ription: Sewage Effluent				
Receiving Waters	Conewago Creek (WWF)	Stream Code	08303		
NHD Com ID	57470175	RMI	38.82 miles		
Drainage Area	219 mi. ²	Yield (cfs/mi²)	0.066 cfs/mi. ²		
Q ₇₋₁₀ Flow (cfs)	14.5 cfs	Q ₇₋₁₀ Basis	USGS StreamStats		
Elevation (ft)	_ 385.8	Slope (ft/ft)			
Watershed No.	7-F	Chapter 93 Class.	WWF		
Existing Use		Existing Use Qualifier			
Exceptions to Use		Exceptions to Criteria			
Assessment Statu	us Attaining Use(s)				
Cause(s) of Impai	rment				
Source(s) of Impa	airment				
TMDL Status	·	Name			
			-		
	eam Public Water Supply Intake	Wrightsville Borough Municipa	al Authority, York County		
PWS Waters	Susquehanna River	Flow at Intake (cfs)			
PWS RMI	28.51 miles	Distance from Outfall (mi)	Approximate 51.5 miles		

Changes Since Last Permit Issuance: none

Drainage Area

The discharge is to Conewago Creek at RMI 38.82 miles. A drainage area upstream of the discharge is estimated to be 219 sq.mi, according to USGS PA StreamStats available at https://streamstats.usgs.gov/ss/.

Streamflow

According to StreamStats, the discharge point on Conewago Creek has a Q_{7-10} of 14.5 cfs and a drainage area of 219 mi², which results in a Q_{7-10} low flow yield of 0.066 cfs/mi². This information is used to obtain a chronic or 30-day (Q_{30-10}), and an acute or 1-day (Q_{1-10}) exposure stream flow for the discharge point as follows (Guidance No. 391-2000-023):

 $\begin{array}{c} Q_{7\text{-}10} = 14.5 \text{ cfs} \\ \text{Low Flow Yield} = 14.5 \text{ cfs} \ / \ 219 \text{ mi}^2 \approx 0.066 \text{ cfs/mi}^2 \\ Q_{30\text{-}10} = 1.36 \ ^* \ 14.5 \text{ cfs} \approx 19.7 \text{ cfs} \\ Q_{1\text{-}10} = 0.64 \ ^* \ 14.5 \text{ cfs} \approx 9.3 \text{ cfs} \end{array}$

Public Water Supply

The nearest downstream public water supply intake is the Wrightsville Borough Municipal Authority on the Susquehanna River in York County, approximately 51.5 miles downstream of this discharge. Considering distance and dilution, the discharge is not expected to impact the water supply.

	Tre	eatment Facility Summar	у	
Treatment Facility Na	me: Mountainview MHP			
WQM Permit No.	Issuance Date			
0185402	2/7/1986			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration With Solids Removal	Hypochlorite	0.011
Hydraulic Capacity (MGD)	Organic Capacity (Ibs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.011		Not Overloaded	Aerobic Digestion	Other WWTP

Changes Since Last Permit Issuance: none

Other Comments:

The WWTP train is as follows:

Bar Screen (1) \Rightarrow Aeration Tanks (2) \Rightarrow Settling Tanks (2) \Rightarrow Dosing Tank (1) \Rightarrow Sand Filters (2) \Rightarrow Chlorine Contact Tank (1) \Rightarrow Discharge (outfall)

The system incorporates chemical additions of alum & soda ash to control pH, and sodium hypochlorite for disinfection. A sludge holding tank is used for solids storage.

	Compliance History								
Summary of DMRs:	DMRs reported last 12 months from October 1, 2018 to September 30, 2019 are summarized in the Table below.								
Summary of Inspections:	4/18/2016: Bob Haines, DEP Water Quality Specialist, conducted a routine inspection. The monitoring/maintenance issue was noted at the time of inspection such as failure to properly document monitoring activities (Violation of NPDES Permit No. PA0080616 Part A.III.A.3), and failure to collect representative samples (violation of the NPDES Permit No. PA0080616 Part A.II.A.1 and Part A.II-Definition for Composite sample).								
	11/21/2017: Mr. Bowen, DEP Water Quality Specialist, conducted a compliance evaluation inspection. The recommendations were ensuring effluent composite sampler runs for at least 24 hours during each sampling event, and evaluate solid levels, adjust as necessary. However, there were no violations identified during the inspection.								
Other Comments:	There are currently no open violations associated with the permittee or the facility.								

Compliance History

DMR Data for Outfall 001 (from October 1, 2018 to September 30, 2019)

Parameter	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18
Flow (MGD)												
Average Monthly	0.0074	0.0088	0.0079	0.0077	0.0075	0.0078	0.0088	0.009	0.00816	0.0081	0.0075	0.0075
Flow (MGD)												
Daily Maximum	0.0128	0.0117	0.0106	0.0129	0.0105	0.0105	0.0126	0.0138	0.0117	0.0111	0.0136	0.0116
pH (S.U.)												
Minimum	7.2	6.8	7.0	6.8	6.7	6.6	6.8	6.7	6.6	6.7	6.6	6.9
pH (S.U.)												
Maximum	8.2	8.1	7.5	7.3	7.4	7.3	7.4	7.3	7.3	7.5	7.6	8.0
DO (mg/L)												
Minimum	7.9	6.2	7.0	9.4	6.9	6.0	7.0	9.1	6.0	6.2	6.0	6.2
TRC (mg/L)												
Average Monthly	< 0.22	< 0.14	0.23	0.28	< 0.26	0.09	< 0.21	0.22	0.17	0.21	0.27	0.16
TRC (mg/L)												
Instantaneous												
Maximum	0.54	0.62	0.56	0.48	0.67	0.26	0.45	0.57	0.43	0.43	0.69	0.44
CBOD₅ (mg/L)												
Average Monthly	< 3	< 3	< 3	< 3	< 3	< 11	< 4	< 3	3	< 3	< 3	< 3
TSS (mg/L)												
Average Monthly	4	4	6	6	4	10	3	2	4	1	2	3
Fecal Coliform												
(CFU/100 ml)												
Geometric Mean	< 26	< 2	97	< 7	< 5	47	< 15	35	400	111	< 1	40
Fecal Coliform												
(CFU/100 ml)												
Instantaneous		_										
Maximum	330	< 2	112	24	12	1120	120	70	600	620	< 2	68
Ammonia (mg/L)	0.46	4.0	0.40	0.4		0.0	0.40	0.44			4.04	0.00
Average Monthly	< 0.12	< 1.9	2.49	3.4	3.1	< 3.9	< 0.13	< 0.11	6.3	5.7	1.04	0.89
Total Phosphorus												
(mg/L)	4.0	0.07	0.04	0.70	0.04	4.4	4.5	4.0	0.04	0.40	0.40	0.00
Average Monthly	1.8	0.67	0.91	0.72	0.21	1.4	1.5	1.8	0.34	0.12	0.18	0.23

	Development of Effluent Limitations										
Outfall No.	001		Design Flow (MGD)	.011							
Latitude	39° 56′ 39.14	4"	Longitude	-76° 59' 3.37"							
Wastewater D	Wastewater Description: Sewag										

Technology-Based Limitations

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

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Solids	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pН	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform				
(5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform				
(5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform				
(10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform				
(10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Water Quality-Based Limitations

Carbonaceous Biochemical Oxygen Demand (CBOD₅)

Only the minimum treatment requirements of secondary treatment will be necessary to protect water quality. The existing limits of 25 mg/L average monthly and 50 mg/L instantaneous maximum will remain in the permit. The facility has consistently achieved CBOD₅ levels well below these limits.

Ammonia (NH₃-N)

NH₃-N calculations are based on the Department's Implementation Guidance of Section 93.7 Ammonia Criteria, dated 11/4/97 (ID No. 391-2000-013). The attached printout of the WQM 7.0 data indicates that at a discharge of 0.011 MGD, limits (rounded according to the NPDES Technical Guidance 362-0400-001) of 25 mg/L NH₃-N as a monthly average and 50 mg/L NH₃-N instantaneous maximum are necessary to protect the aquatic life from toxicity effects. This is less stringent than the previous permit. However, due to anti-backsliding policy, the previous summer limits of 10 mg/L average monthly and 20 mg/L instantaneous maximum will remain in place.

The following data is necessary to determine the in-stream NH₃₋N criteria used in the attached WQM 7.0 computer model of the stream:

•	Discharge pH	=	7.0	(Default)
•	Discharge Temperature	=	25°C	(Default)
•	Stream pH	=	8.0	(As per previous protection report)
•	Stream Temperature	=	25°C	(Default for WWF)
•	Background NH₃-N	=	0	(Default)

Total Suspended Solids (TSS)

The existing limits of 30 mg/L average monthly and 60 mg/L instantaneous maximum will remain in the permit based on the minimum level of effluent quality attainable by secondary treatment based on 25 Pa. Code § 92a.47. Past DMRs and inspection reports show that the facility has been consistently achieving these limits.

Dissolved Oxygen (DO)

A minimum D.O. of 5.0 mg/L is required per 25 Pa. Code § 93.7. This is consistent with the previous permit and current Department criteria.

рН

The effluent discharge pH should remain above 6 and below 9 standard units according to 25 Pa Code § 95.2(2).

NPDES Permit Fact Sheet Mountain View MHP

Fecal Coliform

The recent coliform guidance in 25 Pa. Code § 92a.47(a)(4) requires a summer technology limit of 200/100 ml as a geometric mean (average monthly) and an instantaneous maximum not greater than 1,000/100ml and 25 Pa. Code § 92a.47(a)(5) requires a winter limit of 2,000/100ml as a geometric mean (average monthly) and an instantaneous maximum not greater than 10,000/100ml, respectively.

Total Residual Chlorine (TRC)

Based on the attached TRC Excel Spreadsheet calculator, which uses the equations and calculations from the Department's May 1, 2003 Implementation Guidance for Total Residual Chlorine (ID No. 391-2000-015), the facility's discharge must meet a monthly average limit of 0.5 mg/L and an instantaneous maximum limit of 1.63 mg/L.

The more stringent limit is the result of a recently implemented best available technology limit of 0.5 mg/l. Based on the DMRs from the past year, the facility has been consistently achieving this limit.

Chesapeake Bay Strategy

According to DEP's Chesapeake Bay Phase II Watershed Implementation Plan (WIP) Wastewater Supplement, this facility is considered a phase 5 non-significant sewage discharger with design flow less than 0.2 MGD but greater than 0.002 MGD. In general, DEP will issue permits for all phase 5 facilities with monitoring and reporting for Total Nitrogen (TN) and Total Phosphorus (TP) throughout the permit term at a frequency no less than annually. Furthermore, DEP's SOP No. BPNPSM-PMT-033 states that in general, at a minimum, monitoring for TN and TP should be included in new and reissued permits for sewage discharges with design flows > 2,000 gpd. At this time, the Department is not requiring a total maximum annual nitrogen or phosphorus loading cap. TN and TP monitoring is already included in the existing permit and will remain in the renewal.

Best Professional Judgment (BPJ) Limitations

Total Phosphorus

This approach is consistent with DEP's SOP No. BPNPSM-PMT-033 as well as the State regulation found in 25 Pa. Code § 96.5(c) which states the following: "When it is determined that the discharge of phosphorus, alone or in combination with the discharge of other pollutants, contributes or threatens to impair existing or designated uses in a free-flowing surface water, phosphorus discharges from point source discharges shall be limited to an average monthly concentration of 2 mg/l. More stringent controls on point source discharges may be imposed, or may be otherwise adjusted as a result of a TMDL which has been developed." Phosphorus limits are included in the existing permit and phosphorus removal equipment is in place. Therefore, the existing limits of 2.0 mg/L average monthly and 4.0 mg/L instantaneous maximum will remain in place in accordance with 40 CFR §122.44(I)(1).

Additional Consideration

Flow Monitoring

The requirement to monitor the volume of effluent will remain in the draft permit per 40 CFR § 122.44(i)(1)(ii).

Monitoring Frequency and Sample Type

The facility currently is required to collect daily effluent grab samples for DO, TRC, and pH; bi-monthly effluent 24-hr composite samples of CBOD₅, TSS, ammonia-nitrogen, and TP; bi-monthly effluent grab samples of fecal coliform. Based on the best professional judgement of the author, the existing monitoring frequencies are sufficient and necessary. Therefore, the renewal permit monitoring frequencies will remain the same as those specified in the existing permit.

Antidegradation (93.4)

The effluent limits for this discharge have been developed to ensure that existing in-stream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

303d Listed Streams

This discharge is not located on a 303d listed stream segment.

Class A Wild Trout Fisheries

No Class A Wild Trout Fisheries are impacted by this discharge.

Anti-Backsliding

Unless stated otherwise in this fact sheet, all permit requirements proposed in this fact sheet are at least as stringent as existing permit requirements in accordance with 40 CFR §122.44(I)(1).

TRC Results

		-	_		· · · ·
1 TRC EVAL	UATION				
	iate values ir	n A3:A9 and D3:D9			
3 14.	14.5 = Q stream (cfs)				
4 0.01	0.011 = Q discharge (MGD)			= CV Hourly	
5 30	0 = no. samı	oles	1	= AFC_Partia	al Mix Factor
6 0.3	3 = Chlorine	Demand of Stream	1	= CFC_Partia	al Mix Factor
7 (= Chlorine	Demand of Discharge	15	= AFC_Crite	ria Compliance Time (min)
8 0.9	5 = BAT/BP.	l Value	720	= CFC_Crite	ria Compliance Time (min)
9 (= % Facto	r of Safety (FOS)		=Decay Coe	fficient (K)
10 Source	Reference	AFC Calculations		Reference	CFC Calculations
11 TRC	1.3.2.iii	WLA afc =	271.835	1.3.2.iii	WLA cfc = 265.011
PENTOXSD TR		LTAMULT afc =		5.1c	LTAMULT cfc = 0.581
PENTOXSD TRO	G 5.1b	LTA_afc=	101.292	5.1d	LTA_cfc = 154.065
14					
15 Source			nt Limit Calcu		
6 PENTOXSD TRO			AML MULT =		
PENTOXSD TRO	G 5.1g		.IMIT (mg/l) =		BAT/BPJ
18		INST MAX L	.IMIT (mg/l) =	1.635	
19					
20					-
21 22 WLA afc	/ 040/-/ Li	AFO 1-11 - MAFO V-+0	-+ 040/0-1+	-/ L+AFO 1-V	
22 WLA atc 23		'AFC_tc)) + [(AFC_Yc*Q AFC_Yc*Qs*Xs/Qd)]*(1-		e(-K-AFC_tc))
24 LTAMULT afc		(cvh^2+1))-2.326*LN(cvh^2			
25 LTA_afc	wla_afc*LTA		2.1) 0.0)		
26	ma_alo E17	oz1_dio			
27 WLA_cfc	(.011/e(-k*	CFC_tc) + [(CFC_Yc*Qs	*.011/Qd*e	(-k*CFC tc)	
28		CFC_Yc*Qs*Xs/Qd)]*(1-		,	
29 LTAMULT_cfc		(cvd^2/no_samples+1))-2.3		2/no_samples+	1)^0.5)
BO LTA_cfc	wla_cfc*LTA				
31					
32 AML MULT		.N((cvd^2/no_samples+1)^	0.5)-0.5*L N (c	vd^2/no_samp	les+1))
33 AVG MON LIMIT	MIN(BAT_B	PJ,MIN(LTA_afc,LTA_cfc)*	AML_MULT)		
34 INST MAX LIMIT	1.5*((av_m	non_limit/AML_MULT)/L	TAMULT_afe	c)	
35					
R6					

WQM 7.0:

MODEL INPUTS

Three nodes were used for the WQM 7.0 model since there is another WWTP discharge within close proximity:

Node 1: Outfall 001

Elevation: 386 ft (USGS National Map Viewer)
Drainage Area: 219 mi² (USGS PA StreamStats)

River Mile Index: 38.82 (PA DEP eMapPA)

Low Flow Yield: 0.066 cfs/mi²

Discharge Flow: 0.011 mgd (NPDES PA0080616 Application)

Node 2: East Berlin Borough WWTP discharge point

Elevation: 385 ft (USGS National Map Viewer)
Drainage Area: 219.5 mi² (USGS PA StreamStats)

River Mile Index: 38.60 (PA DEP eMapPA)

Low Flow Yield: 0.066 cfs/mi² Discharge Flow: 0.000 mgd

Node 3: Just before confluence of Conewago Creek with Beaver Creek

Elevation: 384.7 ft (USGS National Map Viewer)
Drainage Area: 220 mi² (USGS PA StreamStats)

River Mile Index: 37.97 (PA DEP eMapPA)

Low Flow Yield: 0.066 cfs/mi² Discharge Flow: 0.000 mgd

Attachment is the WQM7.0 Effluent Limits.

PDF

WQM7.0 effluent limits 7112019.pdf

Existing Effluent Limitations and Monitoring Requirements

		Monitoring Red	quirements					
Parameter	Mass Units (Ibs/day) (1)		Concentrations (mg/L)				Minimum ⁽²⁾	Required
raiailletei	Average	Daily	Minimum	Average	Maximum	Instant. Maximum	Measurement	Sample
	Monthly	Maximum	wiinimum	Monthly	waximum	waximum	Frequency	Туре
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.63	1/day	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	24-Hr Composite
TSS	XXX	XXX	XXX	30	XXX	60	2/month	24-Hr Composite
Fecal Coliform (No./100 ml)	^^^	^^^	^^^	2,000	^^^	60	2/111011111	Composite
Oct 1 - Apr 30	xxx	XXX	XXX	Geo Mean	xxx	10,000	2/month	Grab
Fecal Coliform (No./100 ml)				200		10,000		0.10.0
May 1 - Sep 30	XXX	XXX	XXX	Geo Mean	XXX	1,000	2/month	Grab
Ammonia								24-Hr
Nov 1 - Apr 30	XXX	XXX	XXX	Report	XXX	Report	2/month	Composite
Ammonia								24-Hr
May 1 - Oct 31	XXX	XXX	XXX	10	XXX	20	2/month	Composite
	,,,,,,	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			1000			24-Hr
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4.0	2/month	Composite

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 Requiremen						
Parameter	Mass Units (Ibs/day) (1)			Concentrations (mg/L)				Required
i didilictor	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MCD)	Danast	Report	VVV	VVV	VVV	VVV	Continuous	
Flow (MGD)	Report	Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.63	1/day	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	24-Hr Composite
	7001	7000	7000		7001		_,	24-Hr
TSS	XXX	XXX	XXX	30	XXX	60	2/month	Composite
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	2,000 Geo Mean	XXX	10.000	2/m onth	Grab
Oct 1 - Apr 30 Fecal Coliform (No./100 ml)	^^^	^^^	^^^	200	^^^	10,000	2/month	Grab
May 1 - Sep 30	xxx	XXX	xxx	Geo Mean	xxx	1,000	2/month	Grab
Ammonia								24-Hr
Nov 1 - Apr 30	XXX	XXX	XXX	Report	XXX	XXX	2/month	Composite
Ammonia								24-Hr
May 1 - Oct 31	XXX	XXX	XXX	10	XXX	20	2/month	Composite
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4.0	2/month	24-Hr Composite

Compliance Sampling Location:

Other Comments:

	Tools and References Used to Develop Permit
\square	WOM for Windows Model (see Attachment
	WQM for Windows Model (see Attachment) PENTOXSD for Windows Model (see Attachment)
	TRC Model Spreadsheet (see Attachment)
	Temperature Model Spreadsheet (see Attachment)
	Toxics Screening Analysis Spreadsheet (see Attachment)
	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
	Pennsylvania CSO Policy, 385-2000-011, 9/08.
	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
\boxtimes	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
\boxtimes	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
\boxtimes	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
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