pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southcentral Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Amendment, Major**	Application No.	**PA0087548 A-1**
Facility Type	**Non-Municipal**	APS ID	**991062**
Major / Minor	**Minor**	Authorization ID	**1343163**

Applicant and Facility Information

Applicant Name	**Artillery Ridge Campground LLC**	Facility Name	**Artillery Ridge Camping Resort**
Applicant Address	PO Box 544	Facility Address	610 Taneytown Road
	Glenmoore, PA 19343-0544		Gettysburg, PA 17325-8777
Applicant Contact	Gary Ott	Facility Contact	Michael Kern
Applicant Phone	(610) 506-1121	Facility Phone	(717) 225-4555
Client ID	349174	Site ID	255548
Ch 94 Load Status	Not Overloaded	Municipality	Cumberland Township
Connection Status		County	Adams
Date Application Received	February 17, 2021	EPA Waived?	Yes
Date Application Accepted	February 18, 2021	If No, Reason	

Purpose of Application: NPDES permit major amendment.

Summary of Review

On behalf of Artillery Ridge Campground, LLC, James R. Holley & Associates, Inc. has applied to the Pennsylvania Department of Environmental Protection (DEP) for an NPDES permit major amendment. The facility proposed to construct (install) the new wastewater treatment plant immediately beside the existing treatment plant, and increase the annual average flow and hydraulic design capacity from 0.0058 MGD to 0.020 MGD, & design organic capacity from 9.67 lbs BOD_5/day to 40.0 lbs BOD_5/day. A WQM permit amendment application has also been submitted and DEP has decided to review these applications simultaneously.

The original WQM Part II 0198404 was issued on August 28, 1998 and ownership transfer was issued on May 31, 2019.

The NPDES permit No. PA0087548 last reissuance was on May 31, 2019 for the stream discharge, it became effective June 1, 2019, and will expire on May 31, 2024.

There was an open violation associated with the permittee or the facility dated 4/14/2021.

Planning for the proposed project was not required.

Because construction cannot commence until a WQM permit is issued, this amended NPDES permit will carry forward the existing permit limits for an interim period, and will include final permit limits based on the new design flow.

Based on the review, it is recommended that the NPDES permit be drafted and published in the *Pennsylvania Bulletin* for public comments for 30 days since this is a major amendment

Approve	Deny	Signatures	Date
X		*Hilaryle* Hilary H. Le / Environmental Engineering Specialist	November 24, 2021
X		Maria D. Bebenek for Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	November 30, 2021

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.02 final 0.0058 inter
Latitude	39º 48' 1.85"	Longitude	-77º 13' 35.23"
Quad Name	Gettysburg	Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Rock Creek (WWF & MF)	Stream Code	59136
NHD Com ID	53320556	RMI	1.14
Drainage Area	0.03 mi.^{2} (previous factsheet data)	Yield (cfs/mi^2)	0.048 (previous factsheet data)
Q_{7-10} Flow (cfs)	0.00144 (previous factsheet data)	Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	13-D	Chapter 93 Class.	WWF & MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Nearest Downstream Public Water Supply Intake	City of Frederick, MD		
PWS Waters	Monocacy River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	Approximate 40.0 miles

Changes Since Last Permit Issuance:

Other Comments:

Treatment Facility Summary

Treatment Facility Name: Artillery Ridge Camping Resort

WQM Permit No.	Issuance Date
0198404	8/28/1998
0198404 T-1	5/31/2019
0198404 A-1	Pending

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Ammonia Reduction	Extended Aeration	Chlorine With Dechlorination	0.0058 to 0.02

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0058 to 0.02		Not Overloaded	Anaerobic Digestion	Other WWTP

The existing WWTP train before construction is as follows:

Aeration Tank (1) ⇒ Clarifier Tank (1) ⇒ Chlorine Contact Tank (with liquid feed) (1) ⇒ Dechlorination Tank (1) ⇒ Post Aeration Tank ⇒ Sludge Holding Tank (1) ⇒ Discharge to an UNT to Rock Creek

The proposed WWTP train after construction will be as follows:

A Bar Screen ⇒18,240 gallons new EQ “surge” Tank (1) ⇒ 20,000 gallons new Extended Aeration Tank (1) ⇒ 3,333 gallons new Settling “clarifier” Tank (1) ⇒ 417-gallon chlorine contact Tank (1) ⇒ 208 gallons de-chlorination/stilling well Tank (1) ⇒ 6,210 gallons new Aerated Sludge Storage Tank (1) ⇒ Discharge to an UNT to Rock Creek

The chemicals will use alum and soda ash by hand as needed. The sludge disposed to be hauled.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.02 final
Latitude 39º 48' 1.00" **Longitude** -77º 13' 36.00"
Wastewater Description: Sewage Effluent

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)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	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)

NPDES Permit Amendment

Since effluent limits and monitoring requirements in the NPDES permit are established based on the annual average design flow and the fact that this rerate will increase the existing annual average design flow and hydraulic design capacity from 0.0058 MGD to 0.020 MGD, it is necessary to reopen the existing NPDES permit to ensure that existing effluent limits and monitoring requirements are still adequate to protect the receiving stream under the increased flow condition.

First, the discharge is to Unnamed Tributary to Rock Creek which is designated as Warm-Water and Migratory fishes; therefore, no special protection water analysis (or antidegradation analysis) is necessary. DEP has revisited the following permit requirements as part of this amendment:

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

2. pH Effluent Limits
   The existing pH effluent limits of 6.0 SU (instantaneous minimum) and 9.0 SU (instantaneous maximum) are secondary treatment standards found in 40 CFR §133.102(c). These effluent limits will remain unchanged in the amendment permit after upgrade.

3. Dissolved Oxygen Effluent Limit
   A minimum of 5.0 mg/L for DO is an existing effluent limit and is taken directly from 25 Pa. Code § 93.7(a) (i.e., water quality criteria for TSF waters). This effluent limit will remain unchanged in the amendment permit after upgrade.

4. $CBOD_5$ Effluent Limits
   The existing $CBOD_5$ effluent limits are water quality based effluent limits established based on the design flow of 0.0058 MGD. WQM 7.0 (ver. 1.1) has therefore been reutilized using 0.020 MGD as a new annual average design flow and the model output shows that existing effluents limits of 25.0 mg/L (average monthly) and 50.0 mg/L (IMAX) are still protective of water quality. No changes are therefore needed.

5. Total Suspended Solids (TSS) Effluent Limits
   The existing TSS effluent limits of 30.0 mg/L (average monthly) and 60.0 mg/L (IMAX) are secondary treatment standards found in 40 CFR §133.102(b) and 25 Pa Code §92a.47(a)(1) and (2). These effluent limits will remain unchanged in the amendment permit after upgrade.

6. Fecal Coliform Effluent Limits
   The existing Fecal Coliform effluent limits of 200/100 mL (Geo mean) and 1,000/100 mL (instantaneous maximum) for summer periods and 2,000/100 mL (Geo mean) and 10,000/100 mL (instantaneous maximum) for winter periods are secondary treatment standards found in 25 Pa Code §92a.47(a)(4) and (5). These effluent limits will remain unchanged in the amendment permit after upgrade.

7. Ammonia-Nitrogen Effluent Limits
   The existing ammonia-nitrogen effluent limits are water quality based effluent limits established based on the design flow of 0.0058 MGD the model output shows that effluent limits of 2.3 (2.0) mg/L (average monthly) and 4.6 (4.0) mg/L (IMAX). WQM 7.0 (ver. 1.1) has therefore been reutilized using 0.020 MGD as a new annual average design flow and the model output shows that effluent limits of 2.01 (2.0) mg/L (average monthly) and 4.02 (4.0) mg/L (IMAX) during summer. The winter season limits are calculated by multiplying summer limits by a factor of 3 (per 391-2000-013). These effluent limits will remain unchanged in the amendment permit after upgrade.

8. Total Residual Chlorine (TRC):
   The existing TRC effluent limits are water quality based effluent limits established based on the design flow of 0.0058 MGD and the model output shows that effluent limits of 0.03 mg/L (average monthly) and 0.09 mg/L (IMAX). TRC Excel Spreadsheet calculator (ID No. 391-2000-015) has therefore been reutilized using 0.020 MGD as a new annual average design flow and the model output shows that effluent limits of 0.016 (0.02) mg/L (average monthly) and 0.051 (0.05) mg/L (IMAX) which are more stringent and will be placed in the amendment permit after upgrade.

9. Chesapeake Bay TMDL
   This facility is considered a Phase 5 significant sewage discharger. The existing permit were monitor and report for Ammonia-Nitrogen, Total Phosphorus, Nitrate-Nitrite as N, Total Kjeldahl Nitrogen, and Total Nitrogen. The yearly "Monitor & Report" requirements for Ammonia-Nitrogen, TP, Nitrate-Nitrite as N, Total Kjeldahl Nitrogen, and TN will remain unchanged in the amendment permit.

   According to DMR reported as screen shot below which indicated the existing 2020's 27.5 mg/L TN & 2.6 mg/L TP concentrations at current design average flow 0.0058 MGD; and calculated the mass limits as follows:

1/25/2019	Submitte	No	1	Yes	Final Effl	600	Total Nitr	lbs/day	< 1.3	Moni	Annual Average					mg/L			< 28.3	Monitor a	Annual Average			1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp
11/26/2019	Submitte	No	1	Yes	Final Effl	600	Total Nitrogen									mg/L			E	Monitor a	Annual Average					WRIGLESV	SCRO	Adams	Cumberland Twp
11/19/2020	Submitte	No	1	Yes	Final Effl	600	Total Nitrogen									mg/L			< 27.5	Monitor a	Annual Average			1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp
12/3/2020	Submitted		1	Yes	Final Effl	600	Total Nitrogen									mg/L			< 27.5	Monitor a	Annual Average			1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp
1/25/2019	Submitte	No	1	Yes	Final Effl	51445	Total Nitr	lbs			< 486	Monitor a	Total Annual											1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp
11/26/2019	Submitte	No	1	Yes	Final Effl	51445	Total Nitr	lbs			E	Monitor a	Total Annual													WRIGLESV	SCRO	Adams	Cumberland Twp
11/19/2020	Submitte	No	1	Yes	Final Effl	51445	Total Nitr	lbs			< 92	Monitor a	Total Annual											1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp
12/3/2020	Submitted		1	Yes	Final Effl	51445	Total Nitr	lbs			< 92	Monitor a	Total Annual											1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp
1/25/2019	Submitte	No	1	Yes	Final Effl	665	Total Pho	lbs/day	0.06	Moni	Annual Average					mg/L			1.3	Monitor a	Annual Average			1/year	8-Hr Comp	WRIGLESV	SCRO	Adams	Cumberland Twp
11/26/2019	Submitte	No	1	Yes	Final Effl	665	Total Phosphorus									mg/L			E	Monitor a	Annual Average					WRIGLESV	SCRO	Adams	Cumberland Twp
11/19/2020	Submitte	No	1	Yes	Final Effl	665	Total Phosphorus									mg/L			2.6	Monitor a	Annual Average			1/year	8-Hr Comp	WRIGLESV	SCRO	Adams	Cumberland Twp
12/3/2020	Submitted		1	Yes	Final Effl	665	Total Phosphorus									mg/L			2.6	Monitor a	Annual Average			1/year	8-Hr Comp	WRIGLESV	SCRO	Adams	Cumberland Twp
1/25/2019	Submitte	No	1	Yes	Final Effl	51451	Total Pho	lbs			22	Monitor a	Total Annual											1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp
11/26/2019	Submitte	No	1	Yes	Final Effl	51451	Total Pho	lbs			E	Monitor a	Total Annual													WRIGLESV	SCRO	Adams	Cumberland Twp
11/19/2020	Submitte	No	1	Yes	Final Effl	51451	Total Pho	lbs			9	Monitor a	Total Annual											1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp
12/3/2020	Submitted		1	Yes	Final Effl	51451	Total Pho	lbs			9	Monitor a	Total Annual											1/year	Calculatio	WRIGLESV	SCRO	Adams	Cumberland Twp

TN: 27.5 mg/L x 8.34 x 0.0058 MGD x 365 days/year = 485.5 (486.0) lbs/year
TP: 2.6 mg/L x 8.34 x 0.0058 MGD x 365 days/year = 45.9 (46.0) lbs/year

After finished construction, the facility design annual flow 0.02 MGD is classified as a phased 5 (below 0.2 MGD), and the cap load 486.0 lbs/year TN & 46.0 lbs/year TP will add to the amendment permit.

10. Anti-Backsliding Requirements
    Unless otherwise specified in this fact sheet, the proposed permit requirements are developed at least as stringent as the existing permit requirements.

WQM 7.0 data:

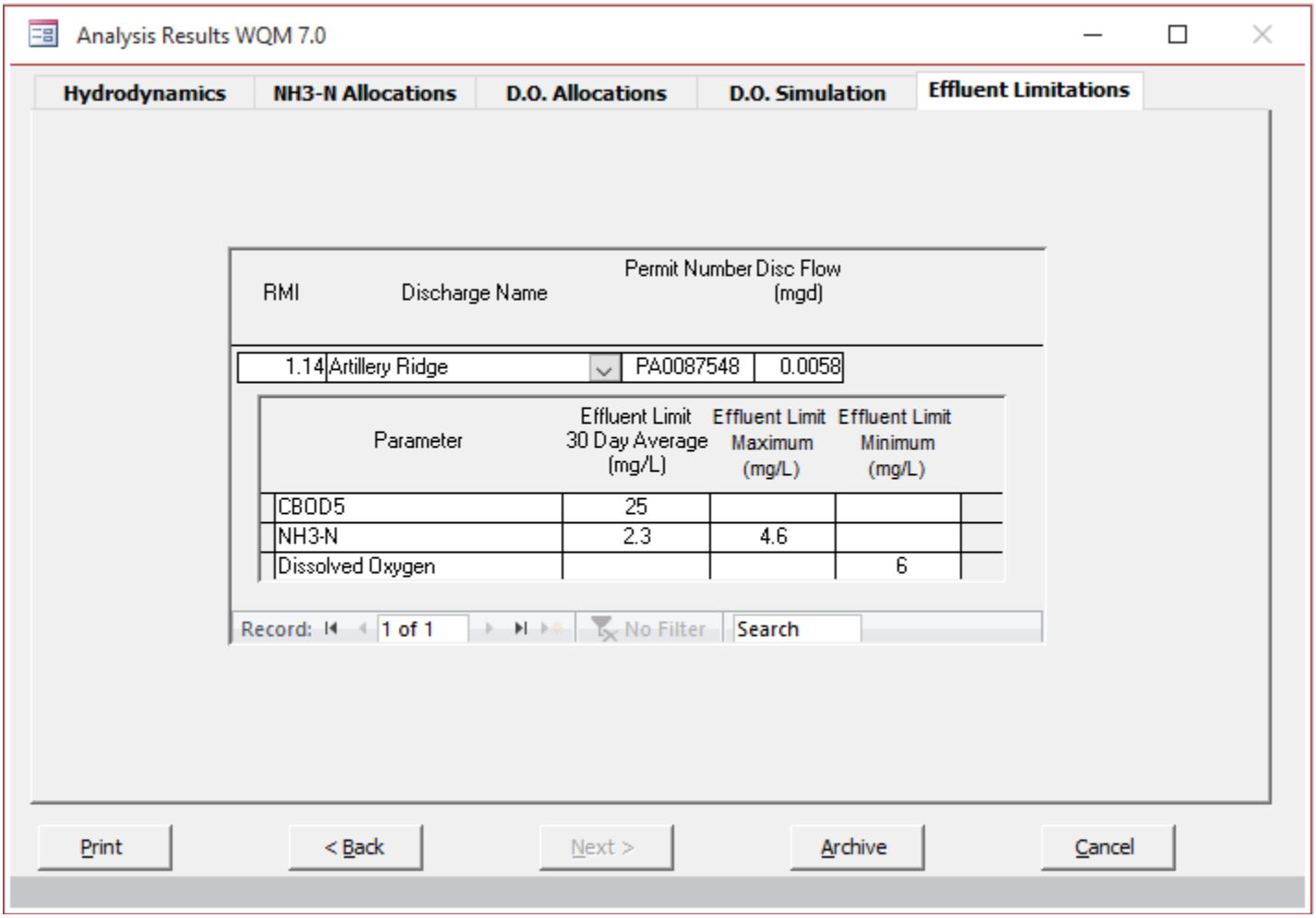
Discharge pH	=	7.0	(Default)
Discharge Temperature	=	20°C	(Default)
Stream pH	=	7.0	(Default)
Stream Temperature	=	20°C	(Default)
Background NH_3-N	=	0 mg/L	(Default)

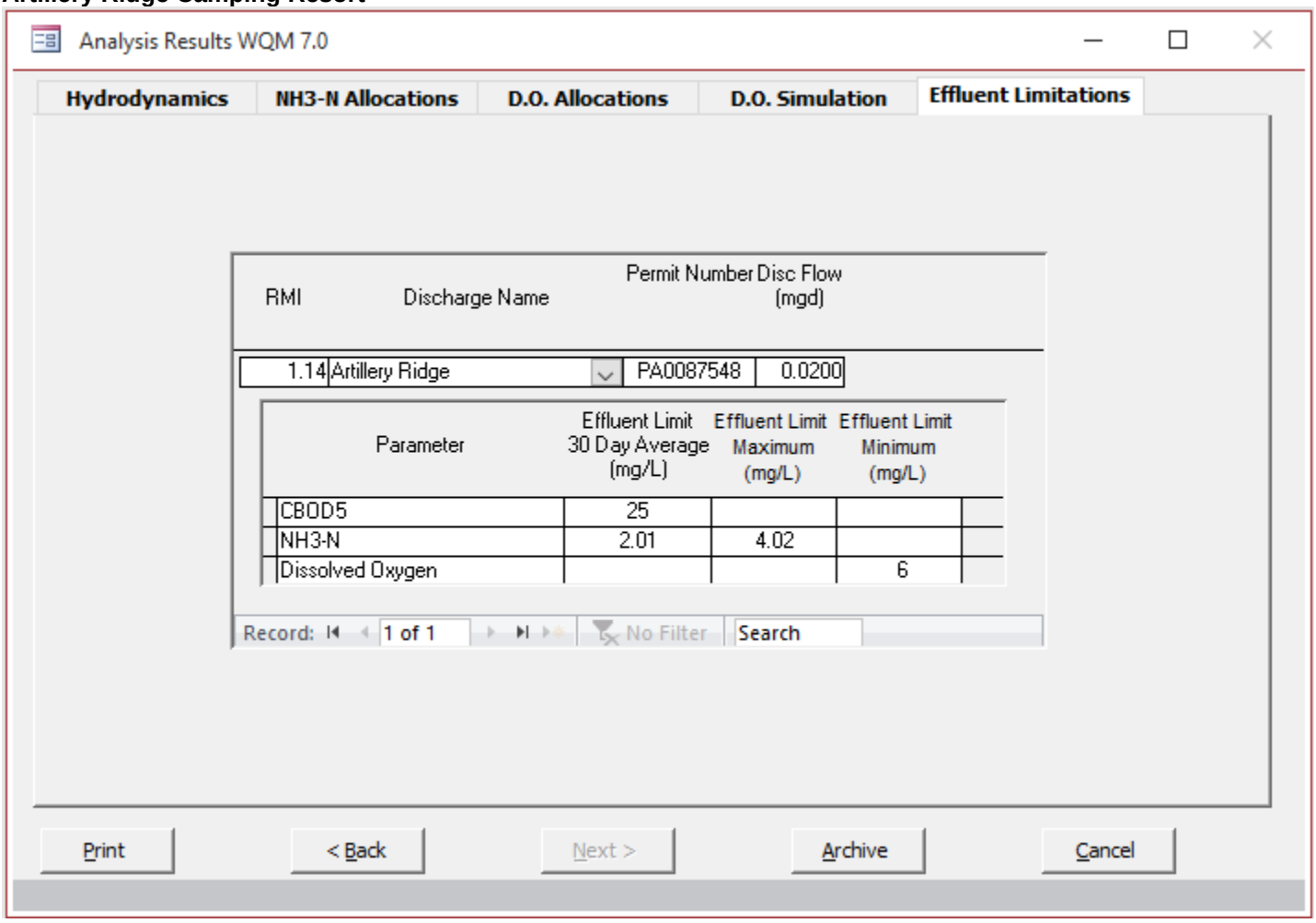
Node 1: Outfall 001 on UNT to Rock Creek (59136)

Elevation:	530 ft (previous factsheet data)
Drainage Area:	0.03 $mi.^2$ (previous factsheet data)
River Mile Index:	1.140 (previous factsheet data)
Low Flow Yield:	0.048 $cfs/mi.^2$
Discharge Flow:	0.02 MGD/0.0058 (NPDES Application)

Node 2: Just before confluence with Rock Creek (59136)

Elevation:	406 ft (previous factsheet data)
Drainage Area:	25.4 $mi.^2$ (previous factsheet data)
River Mile Index:	0.001 (previous factsheet data)
Low Flow Yield:	0.048 $cfs/mi.^2$
Discharge Flow:	0.000 MGD




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)
1.14
Artillery Ridge
PA0087548
0.0200
Parameter
Effluent Limit 30 Day Average (mg/L)
Effluent Limit Maximum (mg/L)
Effluent Limit Minimum (mg/L)
CBOD5
25
NH3-N
2.01
4.02
Dissolved Oxygen
6
Record:
1 of 1
No Filter
Search
Print
< Back
Next >
Archive
Cancel

TRC EVALUATION

Input appropriate values in A3:A9 and D3:D9

0.00144	= Q stream (cfs)	0.5	= CV Daily
0.02	= 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 = 0.034	1.3.2.iii	WLA cfc = 0.025
PENTOXSD TRG	5.1a	LTAMULT afc = 0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc= 0.013	5.1d	LTA_cfc = 0.015

Source		Effluent Limit Calculations	
PENTOXSD TRG	5.1f	AML MULT = 1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.016	AFC
		INST MAX LIMIT (mg/l) = 0.051	

WLA afc	**(.019/e(-k*AFC_tc)) + [(AFC_Yc*Qs*.019/Qd*e(-k*AFC_tc))...** **...+ Xd + (AFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)**
LTAMULT afc	EXP((0.5*LN(cvh^2+1))-2.326*LN(cvh^2+1)^0.5)
LTA_afc	wla_afc*LTAMULT_afc
WLA_cfc	**(.011/e(-k*CFC_tc) + [(CFC_Yc*Qs*.011/Qd*e(-k*CFC_tc))...** **...+ Xd + (CFC_Yc*Qs*Xs/Qd)]*(1-FOS/100)**
LTAMULT_cfc	EXP((0.5*LN(cvd^2/no_samples+1))-2.326*LN(cvd^2/no_samples+1)^0.5)
LTA_cfc	wla_cfc*LTAMULT_cfc
AML MULT	EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))
AVG MON LIMIT	MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)
INST MAX LIMIT	**1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)**

Proposed Effluent Limitations and Monitoring Requirements

Flow design before completion of construction: 0.0058 MGD

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: June 1, 2019 through Completion of Construction.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
D.O.	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.03	XXX	0.09	1/day	Grab
$CBOD_5$	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4.0	2/month	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	6.0	XXX	12.0	2/month	Grab

Compliance Sampling Location:

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

Flow design before completion of construction: 0.0058 MGD

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: June 1, 2019 through Completion of Construction.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Monthly	Annual	Monthly	Annual Average	Maximum	Instant. Maximum		
Ammonia--N	XXX	Report	XXX	Report	XXX	XXX	1/year	Grab
Kjeldahl--N	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nitrogen	XXX	Report	XXX	Report	XXX	XXX	1/year	Calculation
Total Phosphorus	XXX	Report	XXX	Report	XXX	XXX	1/year	8-Hr Composite

Compliance Sampling Location:

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

Flow design after completion of construction: 0.02 MGD

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: Completion of Construction through May 31, 2024.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab
D.O.	XXX	XXX	5.0	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.02	XXX	0.05	1/day	Grab
$CBOD_5$	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4.0	2/month	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	6.0	XXX	12.0	2/month	Grab

Compliance Sampling Location:

Other Comments:

Proposed Effluent Limitations and Monitoring Requirements

Flow design after completion of construction: 0.02 MGD

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: Completion of Construction through May 31, 2024.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Monthly	Annual	Monthly	Annual Average	Maximum	Instant. Maximum		
Ammonia--N	XXX	Report	XXX	Report	XXX	XXX	1/year	Grab
Kjeldahl--N	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Nitrogen	XXX	486.0	XXX	Report	XXX	XXX	1/year	Calculation
Total Phosphorus	XXX	46.0	XXX	Report	XXX	XXX	1/year	8-Hr Composite

Compliance Sampling Location:

Other Comments: