

Application Type

**Renewal**

Facility Type

**Non-Municipal**

Major / Minor

**Minor**

Application No.

**PA0087548**

APS ID

**991062**

Authorization ID

**1463390**

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

**Applicant and Facility Information**

Applicant Name	<b>Artillery Ridge Campground LLC</b>	Facility Name	<b>Artillery Ridge Camping Resort</b>
Applicant Address	PO Box 544	Facility Address	610 Taneytown Road
	Glenmoore, PA 19343-0544		Gettysburg, PA 17325-8777
Applicant Contact	Gary Ott	Facility Contact	Gary Ott
Applicant Phone	(610) 506-1121	Facility Phone	(610) 506-1121
Client ID	349174	Site ID	255548
Ch 94 Load Status	Not Overloaded	Municipality	Cumberland Township
Connection Status		County	Adams
Date Application Received	November 30, 2023	EPA Waived?	Yes
Date Application Accepted	December 1, 2023	If No, Reason	
Purpose of Application	NPDES permit renewal.		

**Summary of Review**

Quality Water Resources, Inc., on behalf of the Artillery Ridge Campground LLC (Authority/Permittee), applied to the Pennsylvania Department of Environmental Protection (DEP) for issuance of the NPDES permit. The permit was reissued on May 31, 2019 and became effective on June 1, 2019. The permit expired on May 31, 2024. The field condition prohibits technical review until 6/26/2024.

The NPDES PA0087548 major amendment was issued on 4/20/2023 to increase the average annual design flow and hydraulic design capacity of 0.02 MGD, and the organic loading capacity of 40.0 lbs BOD<sub>5</sub>/day. The amendment construction project was done on 6/5/2024.

The WQM Part II No. 0198404 was issued on 8/18/1998. WQM No. 0198404 T-1 ownership transfer was issued on 5/31/2019. WQM No. 0198404 A-1 amendment was issued on 4/20/2023, which rerated the annual average design flow and hydraulic design capacity from 0.0058 MGD to 0.02 MGD, and organic capacity from 9.7 lbs/day to 40.0 lbs/day.

Sludge use and disposal description and location(s): N/A because sludge hauled by Smith's Septic Service.

Changes from the previous permit: The E. Coli monitoring and report requirements will add to the proposed permit.

Based on the review outlined in this fact sheet, it is recommended that the permit be drafted. A public notice of the draft permit will be published in the *Pennsylvania Bulletin* for public comments for 30 days.

Approve	Deny	Signatures	Date
X		Hilaryle Hilary H. Le / Environmental Engineering Specialist	June 28, 2024
X		Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	July 16, 2024

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.02
Latitude	39° 48' 1.0"	Longitude	-77° 13' 36.0"
Quad Name	Gettysburg	Quad Code	
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary to Rock Creek (WWF)	Stream Code	59136
NHD Com ID	53320556	RMI	1.14 miles
Drainage Area	0.046 mi. <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	See comments below
Q <sub>7-10</sub> Flow (cfs)	See comments below	Q <sub>7-10</sub> Basis	See comments below
Elevation (ft)	530	Slope (ft/ft)	
Watershed No.	13-D	Chapter 93 Class.	WWF
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:

#### Drainage Area

The discharge is to Unnamed Tributary 59136 to Rock Creek at RMI 1.14 mile. A drainage area upstream of the discharge is estimated to be 0.046 mi<sup>2</sup>, according to USGS PA StreamStats available at <https://streamstats.usgs.gov/ss/>.

#### Streamflow

There are no nearby stream gages with low flow data that have extensive or recent periods of record. Since USGS PA StreamStats estimated the drainage area that is below the minimum value allowed by USGS's regression equations, the USGS gage station No. 59041 on Rock Creek watershed (at the PA/MD border) will be used to calculate the Q<sub>7-10</sub> at the point of discharge using a low flow yield method. The Q<sub>7-10</sub> here is 2.71 cfs and the drainage area is 63.5 mi<sup>2</sup> which results in a Q<sub>7-10</sub> low flow yield of 0.002 cfs/mi<sup>2</sup>. This information is used to obtain a chronic or 30-day (Q<sub>30-10</sub>), and an acute or 1-day (Q<sub>1-10</sub>) exposure stream flow for the discharge point as follows (Guidance No. 391-2000-023):

$$\begin{aligned}
 \text{Low Flow Yield} &= Q_{7-10\text{gage}} / \text{Drainage Area}_{\text{gage}} = 2.71 \text{ cfs} / 63.5 \text{ mi}^2 = 0.04 \text{ cfs/mi}^2 \\
 Q_{7-10\text{discharge}} &= 0.04 \text{ cfs/mi}^2 * \text{Drainage Area}_{\text{discharge}} = 0.04 \text{ cfs/mi}^2 * 0.046 \text{ mi}^2 = 0.0018 \text{ cfs} \\
 Q_{30-10} &= 1.36 * Q_{7-10\text{discharge}} = 1.36 * 0.0018 \text{ cfs} = 0.002 \text{ cfs} \\
 Q_{1-10} &= 0.64 * Q_{7-10\text{discharge}} = 0.64 * 0.0018 \text{ cfs} = 0.001 \text{ cfs}
 \end{aligned}$$

#### Potable Water Supply Intake

The nearest downstream public water supply intake is the City of Frederick, MD intake on the Monocacy River, approximately 40 miles from the point of discharge. Given the nature and dilution, the discharge is not expected to significantly impact the water supply.

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Artillery Ridge Camping Resort				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
0198404		8/28/1998		
0198404 T-1		5/31/2019		
0198404 A-1		4/20/2023		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary With Ammonia Reduction	Extended Aeration	Chlorine With Dechlorination	0.02
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.02		Not Overloaded	Anaerobic Digestion	Other WWTP

Changes Since Last Permit Issuance: The WQM Part II amendment was completed construction on 6/5/2024, see attached this Factsheet pages 19 & 20.

The proposed WWTP train after construction will be as follows:

A Bar Screen  $\Rightarrow$  EQ "Surge" Tank (1)  $\Rightarrow$  Extended Aeration Tank (1)  $\Rightarrow$  Settling "Clarifier" Tank (1)  $\Rightarrow$  Chlorine Contact Tank (1)  $\Rightarrow$  De-chlorination/Stilling Well Tank (1)  $\Rightarrow$  Aerated Sludge Storage Tank (1)  $\Rightarrow$  Discharge to an UNT to Rock Creek

Calcium hypochlorite is used for disinfection. Soda ash and alum are used to control pH.

The sludge disposed to be hauled.

Compliance History	
<b>Summary of DMRs:</b>	A summary of the past 12-month DMR data is presented on the next page.
<b>Summary of Inspections:</b>	<p>07/24/2023: Mr. Hoy, DEP Water Quality Specialist, conducted compliance evaluation inspection. There were violations noted during inspection. The field sample test result, Total Residual Chlorine of 2.2 mg/L, was above the permitted IMAX limit of 0.09 mg/L. The plant uprated construction will complete on the end of March 2024.</p> <p><i>Recommendations:</i> 1. Update the permit expiration date on the daily effluent supplemental report and sewage sludge supplemental reports. 2. Document settleability in the daily log.</p> <p><i>Requests:</i> 1. Placing the current wastewater certificate on-site. 2. Retain sludge use and disposal activity records for at least 5 years as required by NPDES Permit No. PA0087548 Part A.III. (2). 3. Notification when construction has begun and when it is completed.</p> <p>04/14/2021: Mr. Bettinger, DEP Water Quality Specialist, conducted compliance evaluation inspection. There were violations noted during inspection: failure to properly operate and maintain all facilities which are installed or used by permittee to achieve compliance. The permittee submitted the major amendment to increase annual design flow/hydraulic design flow from 0.0058 MGD to 0.02 MGD.</p>
<b>Other Comments:</b>	<p>There is one (1) open violation associated with the permittee or the facility.</p> <p>- 7/24/2023: Violation Code 92A.44: NPDES – Violation of effluent limits in Part A of permit.</p>

Other Comments: 

Compliance History

DMR Data for Outfall 001 (from May 1, 2023 to April 30, 2024)

Parameter	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23
Flow (MGD) Average Monthly	0.00690 5	0.00444 8	0.00396 5	0.0027	0.00273 2	0.00593 3	0.01699 3	0.01843	0.02075	0.02139 1	0.01890 2	0.01583 9
Flow (MGD) Daily Maximum	0.00871 4	0.00802 5	0.02733	0.0031	0.0035	0.00805 1	0.02051 4	0.02287 8	0.02271 4	0.02348 5	0.02255 7	0.01953 5
pH (S.U.) Daily Minimum	6.2	6.3	7.3	7.0	7.0	6.6	6.3	6.9	6.5	7.0	6.8	6.8
pH (S.U.) Instantaneous Maximum	7.4	7.6	7.9	7.7	7.8	7.7	7.3	7.2	7.4	7.6	7.4	7.3
DO (mg/L) Daily Minimum	6.1	8.5	10.1	10.1	10.1	7.1	7.0	10.1	10.2	10.2	10.0	8.1
TRC (mg/L) Average Monthly	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
TRC (mg/L) Instantaneous Maximum	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
CBOD5 (mg/L) Average Monthly	6.6	< 4	5.7	3.1	< 3.8	4.6	< 2.3	< 2	3	< 2.3	3.4	2.9
CBOD5 (mg/L) Instantaneous Maximum	8.6	< 4	7.6	3.3	5.5	4.8	2.6	< 2	3.5	2.5	4.4	2.9
TSS (mg/L) Average Monthly	7	12	21	7	14	20	< 12	13	19	< 5	13	20
TSS (mg/L) Instantaneous Maximum	7	16	29	8	17	21	18	13	19	< 5	15	32
Fecal Coliform (No./100 ml) Geometric Mean	9	< 2	7	< 1	< 1	1	< 1	< 1	< 1	< 1	2	< 1
Fecal Coliform (No./100 ml) Instantaneous Maximum	11	5	12	< 1	< 1	1	< 1	< 1	< 1	< 1	3	< 1
Nitrate-Nitrite (mg/L) Annual Average									16.9			
Total Nitrogen (mg/L) Annual Average								< 17.90				
Total Nitrogen (lbs) Total Annual								< 821				

**NPDES Permit Fact Sheet**  
**Artillery Ridge Camping Resort**

**NPDES Permit No. PA0087548**

Ammonia (mg/L) Average Monthly	0.18	0.52	0.42	< 0.11	0.74	1.1	0.69	< 0.27	< 0.358	< 0.408	0.637	0.0124
Ammonia (mg/L) Instantaneous Maximum	0.18	0.81	0.59	0.12	1.12	1.32	1.14	0.44	0.615	0.716	0.706	0.148
Ammonia (lbs) Total Annual								< 27				
TKN (mg/L) Annual Average								< 1.0				
Total Phosphorus (mg/L) Annual Average								4.8				
Total Phosphorus (lbs) Total Annual								220				

**Development of Effluent Limitations**

Outfall No. 001  
Latitude 39° 48' 1.00"  
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.02  
Longitude -77° 13' 36.00"

**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 <sub>5</sub>	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)

Comments:

**Water Quality-Based Limitations**

**Ammonia (NH<sub>3</sub>-N):**

NH<sub>3</sub>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 following data is necessary to determine the in-stream NH<sub>3</sub>-N criteria used in the attached WQM 7.0 computer model of the stream:

\* Discharge pH = 7.0 (Default)  
 \* Discharge Temperature = 20°C (Default)  
 \* Stream pH = 7.0 (Default)  
 \* Stream Temperature = 20°C (Default)  
 \* Background NH<sub>3</sub>-N = 0 mg/L (Default)

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	
		Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
		CBOD5 25	4.08	
		NH3-N 2.04		5
		Dissolved Oxygen		

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Regarding NH<sub>3</sub>-N limits, the attached computer printout of the WQM 7.0 stream model (version 1.1) indicates that a limit of 2.04 (2.0) mg/L as a monthly average and 4.08 (4.0) mg/L instantaneous maximum (IMAX) are necessary to protect the aquatic life from toxicity effects at the point of discharge. Therefore, these limits are same as the update limits of 2.0 mg/L monthly average & 4.0 mg/L IMAX will remain in the proposed permit. The winter average monthly limit of 6.0 mg/L & IMAX limit of 12.0 mg/L will remain in place. Recent DMRs and inspection reports show that the facility has been consistently achieving these limits.

**Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>):**

The attached computer printout of the WQM 7.0 stream model (ver. 1.1) indicates that a monthly average limit of 25.0 mg/L, or secondary treatment, is adequate to protect the water quality of the stream. Therefore, the existing permit 25.0 mg/L as AML, & 50.0 mg/L as IMAX for all year round will remain in the proposed permit. Recent DMRs and inspection reports show that the facility has typically been achieving concentrations below this limit.

**Total Suspended Solids (TSS):**

The existing limits of 30.0 mg/L average monthly and 60.0 mg/L instantaneous maximum will remain in the renewal permit based on the minimum level of effluent quality attainable be secondary treatment based on 25 Pa. Code § 92a.47. Past DMRs and inspection reports show that the facility has been consistently achieving concentrations under these limits.

**pH:**

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

**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 not greater than 1,000/100 ml (IMAX) and 25 Pa. Code § 92a.47(a)(5) requires a winter limit of 2,000/100 ml as a geometric mean (average monthly) and not greater than 10,000/100 ml (IMAX), respectively.

**Dissolved Oxygen (D.O.):**

The minimum D.O. of 5.0 mg/L is required per 25 Pa. Code § 93.7. It is recommended that this limit be maintained in the proposed permit to ensure the protection of water quality standards. This approach is consistent with DEP's current Standard Operating Procedure (SOP) No. BCW-PMT-033, version 2.0 revised February 5, 2024, and has been applied to other point source dischargers throughout the state.

**E. Coli:**

As recommended by DEP's SOP No. BCW-PMT-033, version 2.0 revised February 5, 2024, a routine monitoring for E. Coli will be included in the proposed permit under 25 Pa. Code § 92a.61. This requirement applies to all sewage dischargers greater than 0.002 MGD in their new and reissued permits. A monitoring frequency of 1/year will be included in the permit to be consistent with the recommendation from this SOP.

**Total Phosphorus (TP):**

eMAP PA lists the section of Rock Creek closest to this facility's discharge point as being impaired for nutrients (without a TMDL). As per the previous protection report, an aquatic biologist from the Department concluded from his studies that phosphorus is not currently a problem in this area.

**Toxic:**

This is a minor sewage facility receiving domestic wastewater only and the current application does not require sampling of toxic pollutants (or heavy metals) for those facilities with design flows less than 0.1 MGD. Therefore, no reasonable potential analysis for toxic pollutants has been performed for this permit renewal.

**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 0.017 (0.02) mg/L and an instantaneous maximum limit of 0.056 (0.05) mg/L. Based on the DMRs from the past year, the facility has been consistently achieving this limit. Therefore, this limit will remain in the proposed permit.

TRC EVALUATION	
Input appropriate values in A3:A9 and D3:D9	
0.0018	= Q stream (cfs)
0.02	= Q discharge (MGD)
30	= no. samples
0.3	= Chlorine Demand of Stream
0	= Chlorine Demand of Discharge
0.5	= BAT/BPJ Value
0	= % Factor of Safety (FOS)
Source	Reference
TRC	1.3.2.iii
PENTOXSD TRG	5.1a
PENTOXSD TRG	5.1b
Reference	AFC Calculations
WLA_afc	WLA_afc = 0.038
LTAMULT_afc	LTAMULT_afc = 0.373
LTA_afc	LTA_afc = 0.014
Reference	CFC Calculations
1.3.2.iii	WLA_cfc = 0.029
5.1c	LTAMULT_cfc = 0.581
5.1d	LTA_cfc = 0.017
Source	
Effluent Limit Calculations	
PENTOXSD TRG	5.1f
PENTOXSD TRG	5.1g
AML MULT	1.231
AVG MON LIMIT (mg/l)	= 0.017
INST MAX LIMIT (mg/l)	= 0.056
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)

### 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 in the proposed permit.

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 remain in the proposed permit.

### 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).

#### *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.

### **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<sub>3</sub>-N = 0 mg/L (Default)

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

Elevation: 530 ft (previous factsheet data)  
Drainage Area: 0.046 mi.<sup>2</sup> (previous factsheet data)  
River Mile Index: 1.140 (previous factsheet data)  
Low Flow Yield: 0.04 cfs/mi.<sup>2</sup>  
Discharge Flow: 0.02 MGD (NPDES Application)

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

Elevation:	406 ft (previous factsheet data)
Drainage Area:	0.74 mi. <sup>2</sup> (previous factsheet data)
River Mile Index:	0.001 (previous factsheet data)
Low Flow Yield:	0.04 cfs/mi. <sup>2</sup>
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	2.04	4.08	
Dissolved Oxygen			5

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NPDES Permit Fact Sheet  
Artillery Ridge Camping Resort

NPDES Permit No. PA0087548

rptEffLimits

**WQM 7.0 Effluent Limits**

SWP Basin	Stream Code	Stream Name	WQM 7.0 Effluent Limits					
			RM#	Name	Permit Number	Disch. Flow (mgd)	Parameter	Eff. Limit 30-day Ave. (mg/L)
13D	58136	Trib 58136 to Rock Creek	1.140	Artillery Ridge	PA0087548	0.020	CBOD5	25
							NH3-N	2.04
							Dissolved Oxygen	5

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rpt\_WLA

**WQM 7.0 Wasteload Allocations**

SWP Basin	Stream Code	Stream Name	WQM 7.0 Wasteload Allocations						
			RM#	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mgd)	Multiple Criterion (mg/L)	Multiple WLA (mgd)	Critical Reach
13D	58136	Trib 58136 to Rock Creek	1.140 Artillery Ridge		16.70	17.4	16.76	17.4	0 0

**NH3-N Acute Allocations**

RM#	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mgd)	Multiple Criterion (mg/L)	Multiple WLA (mgd)	Critical Reach	Percent Reduction
1.140 Artillery Ridge		1.89	2.04	1.89	2.04	0	0

**NH3-N Chronic Allocations**

RM#	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mgd)	Multiple Criterion (mg/L)	Multiple WLA (mgd)	Critical Reach	Percent Reduction
1.140 Artillery Ridge		25	25	2.04	2.04	5	5 0 0

**Dissolved Oxygen Allocations**

RM#	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mgd)	Multiple Criterion (mg/L)	Multiple WLA (mgd)	Critical Reach	Percent Reduction
1.140 Artillery Ridge		25	25	2.04	2.04	5	5 0 0

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rptDOSim

**WQM 7.0 D.O. Simulation**

SWP Basin	Stream Code	Stream Name	WQM 7.0 D.O. Simulation			
			RM#	Total Discharge Flow (mgd)	Analytical pH	Analyses (mg/L)
13D	58136	Trib 58136 to Rock Creek	1.140	0.020	20,000	7.000
			Reach CBOD5 (mg/L)	Reach CBOD5 (mgd)	Reach CBOD5 (mg/L)	Reach CBOD5 (mg/L)
			23.71	0.334	4.270	0.059
			Reach DO (mg/L)	Reach DO (mgd)	Reach DO (mg/L)	Reach DO (mg/L)
			5.162	27.358	Overall	5
			Reach Travel Time (days)			
			1.014			
			Subreach Results			
			Travel Time (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
			0.101	20.40	1.79	7.08
			0.203	40.80	1.79	7.04
			0.304	61.20	1.76	7.07
			0.406	81.60	1.75	7.07
			0.507	11.17	1.35	8.01
			0.610	9.41	1.34	8.18
			0.710	8.27	1.17	8.24
			0.812	7.11	1.09	8.24
			0.913	6.12	1.02	8.24
			1.014	5.26	0.95	8.24

Wednesday, June 26, 2024 Version 1.1 Page 1 of 1

rptModelSpecs

**WQM 7.0 Modeling Specifications**

Parameter	Value	WQM 7.0 Modeling Specifications	
		Use Inputted Q-10 and Q50-10 Flows	Use Inputted W-D Ratios
WLA Method	EMPR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Q1-10/Q7-10 Ratio	0.64	<input type="checkbox"/>	<input type="checkbox"/>
Q50-10/Q7-10 Ratio	1.36	<input type="checkbox"/>	<input type="checkbox"/>
D.O. Saturation	90.0%	<input type="checkbox"/>	<input type="checkbox"/>
D.O. Goal	5	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Wednesday, June 26, 2024 Version 1.1 Page 1 of 1

NPDES Permit Fact Sheet  
Artillery Ridge Camping Resort

NPDES Permit No. PA0087548

rptHydro

**WQM 7.0 Hydrodynamic Outputs**

SWP Basin	Stream Code	Stream Name	Trib 59136 to Rock Creek												
13D	59136		RSL	Streams Flow	PWS With Stream Flow	Net Calc Flow	Reach Slope	Depth	Width	WD Ratio	Velocity	Reach Trav Time	Reach Temp	Available Temp	Analysed pH
(cfs)	(cfs)	(cfs)	(ft)	(cfs)	(cfs)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft/s)	(days)	(°C)	(°C)	
<b>Q7-10 Flow</b>															
1.140	0.00	0.00	.030.9	0.02.062	.334	1.43	4.27	0.07	1.014	20.00	7.00				
<b>Q1-10 Flow</b>															
1.140	0.00	0.00	.030.9	0.02.062	NA	NA	NA	NA	0.07	1.026	20.00	7.00			
<b>Q36-10 Flow</b>															
1.140	0.00	0.00	.030.9	0.02.062	NA	NA	NA	NA	0.07	1.003	20.00	7.00			

Wednesday, June 26, 2024 Version 1.1 Page 1 of 1

rptGeneral

**Input Data WQM 7.0**

SWP Basin	Stream Code	Stream Name	RSL	Elevation	Drainage Area	Slope	PWS Withdrawal	Apply FC
13D	59136	Trib 59136 to Rock Creek	1.140	53.00	0.05	0.000000	0.00	<input checked="" type="checkbox"/>
Stream Data								
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth
(cfs)	(cfs)	(cfs)	(cfs)	(days)	(ft/s)	(ft)	(ft)	(ft)
Q7-10	0.040	0.00	0.000	0.0000	0.0	0.00	0.00	20.00
Q1-10	0.00	0.00	0.000	0.0000				7.00
Q36-10	0.00	0.00	0.000	0.0000				0.00

**Discharge Data**

Name	Permit Number	Calculating Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Artillery Ridge	PA0087548	0.0000	0.0000	0.0000	0.000	20.00	7.00

**Parameter Data**

Parameter Name	Disc Conc. (mg/L)	Trib Conc. (mg/L)	Stream Conc. (mg/L)	Rate Coef. (1/day)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	5.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

Wednesday, June 26, 2024 Version 1.1 Page 1 of 2

rptGeneral

**Input Data WQM 7.0**

SWP Basin	Stream Code	Stream Name	RSL	Elevation	Drainage Area	Slope	PWS Withdrawal	Apply FC
13D	59136	Trib 59136 to Rock Creek	0.001	40.60	0.74	0.000000	0.00	<input checked="" type="checkbox"/>
Stream Data								
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth
(cfs)	(cfs)	(cfs)	(cfs)	(days)	(ft/s)	(ft)	(ft)	(ft)
Q7-10	0.040	0.00	0.000	0.0000	0.0	0.00	0.00	20.00
Q1-10	0.00	0.00	0.000	0.0000				7.00
Q36-10	0.00	0.00	0.000	0.0000				0.00

**Discharge Data**

Name	Permit Number	Calculating Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Artillery Ridge	PA0087548	0.0000	0.0000	0.0000	0.000	20.00	7.00

**Parameter Data**

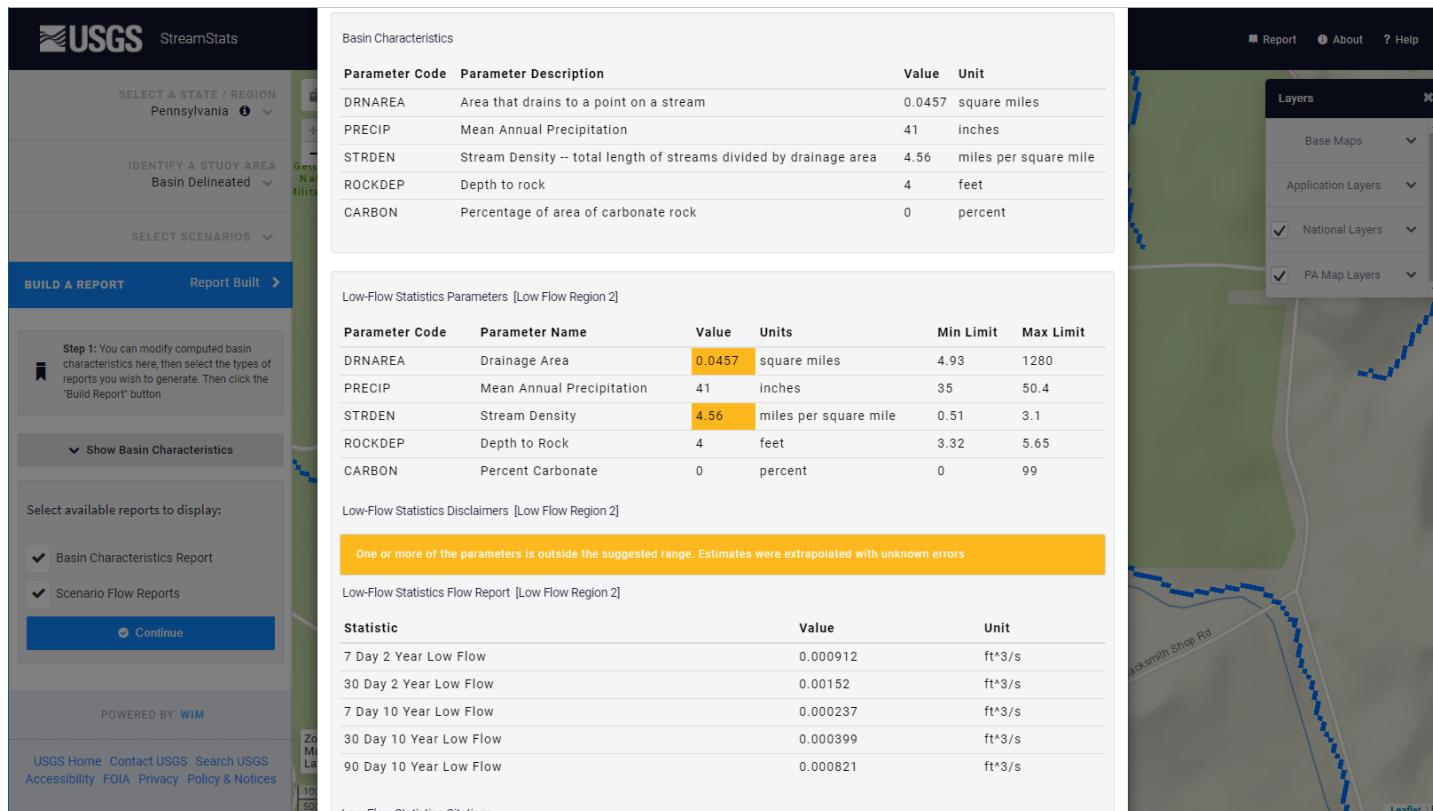
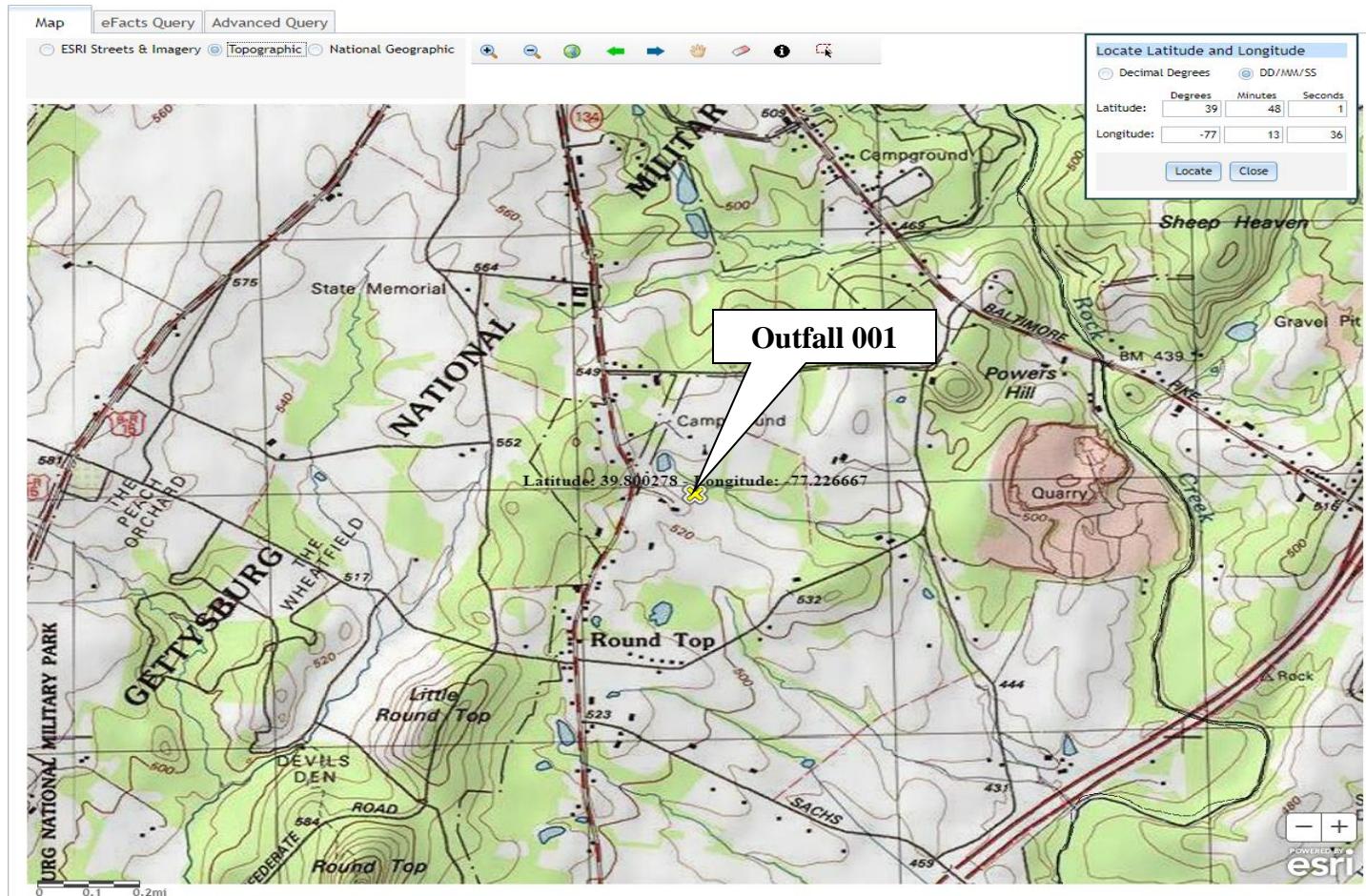
Parameter Name	Disc Conc. (mg/L)	Trib Conc. (mg/L)	Stream Conc. (mg/L)	Rate Coef. (1/day)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	5.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

Wednesday, June 26, 2024 Version 1.1 Page 2 of 2

Page: 14 4 2 | ► ► ► ► No Filter

NPDES Permit Fact Sheet  
Artillery Ridge Camping Resort

NPDES Permit No. PA0087548



# NPDES Permit Fact Sheet

## Artillery Ridge Camping Resort

NPDES Permit No. PA0087548

USGS StreamStats

SELECT A STATE / REGION Pennsylvania

IDENTIFY A STUDY AREA Basin Delineated

SELECT SCENARIOS

BUILD A REPORT Report Built

Step 1: You can modify computed basin characteristics here, then select the types of reports you wish to generate. Then click the "Build Report" button.

Show Basin Characteristics

Select available reports to display:

- ✓ Basin Characteristics Report
- ✓ Scenario Flow Reports

Open Report

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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock.	0	percent
DRNAREA	Area that drains to a point on a stream	63.5	square miles
PRECIP	Mean Annual Precipitation	41	inches
ROCKDEP	Depth to rock	4.4	feet
STRDEN	Stream Density -- total length of streams divided by drainage area	2.44	miles per square mile

Low-Flow Statistics

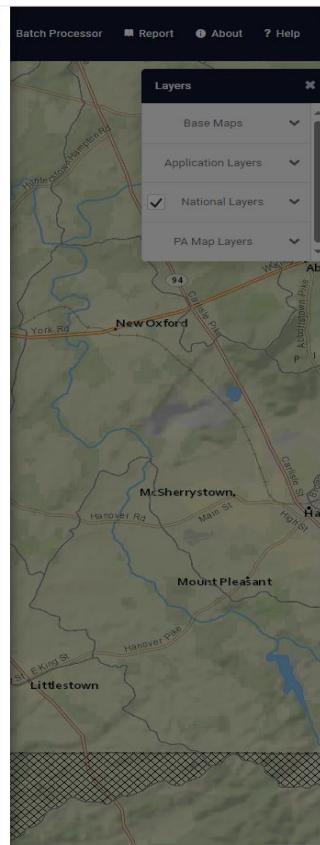
Low-Flow Statistics Parameters [100.0 Percent (63.5 square miles) Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	63.5	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	41	inches	35	50.4
STRDEN	Stream Density	2.44	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4.4	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Flow Report [100.0 Percent (63.5 square miles) Low Flow Region 2]

PIL: Lower 90% Prediction Interval, PIU: Upper 90% Prediction Interval, ASEp: Average Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	SE	ASEp
7 Day 2 Year Low Flow	5.62	ft^3/s	38	38
30 Day 2 Year Low Flow	7.65	ft^3/s	33	33
7 Day 10 Year Low Flow	2.71	ft^3/s	51	51
30 Day 10 Year Low Flow	3.67	ft^3/s	46	46
90 Day 10 Year Low Flow	5.67	ft^3/s	36	36



USGS StreamStats

SELECT A STATE / REGION Pennsylvania

IDENTIFY A STUDY AREA Basin Delineated

SELECT SCENARIOS

BUILD A REPORT Report Built

Step 1: You can modify computed basin characteristics here, then select the types of reports you wish to generate. Then click the "Build Report" button.

Show Basin Characteristics

Select available reports to display:

- ✓ Basin Characteristics Report
- ✓ Scenario Flow Reports

Open Report

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Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0	percent
DRNAREA	Area that drains to a point on a stream	0.74	square miles
PRECIP	Mean Annual Precipitation	41	inches
ROCKDEP	Depth to rock	4.7	feet
STRDEN	Stream Density -- total length of streams divided by drainage area	3.18	miles per square mile

Low-Flow Statistics

Low-Flow Statistics Parameters [Low Flow Region 2]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.74	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	41	inches	35	50.4
STRDEN	Stream Density	3.18	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4.7	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Disclaimers [Low Flow Region 2]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 2]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0368	ft^3/s
30 Day 2 Year Low Flow	0.0535	ft^3/s
7 Day 10 Year Low Flow	0.0144	ft^3/s
30 Day 10 Year Low Flow	0.0205	ft^3/s
90 Day 10 Year Low Flow	0.0346	ft^3/s



Existing Effluent Limitations and Monitoring Requirements

Outfall 001,

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	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	0.02	XXX	0.05	1/day	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30	XXX	60	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	6.0	XXX	12.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4.0	2/month	Grab

**Outfall 001, Chesapeake Bay**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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

**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" (386-0400-001), SOPs and/or BPJ.

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.02	XXX	0.05	1/day	Grab
CBOD5	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) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	6.0	XXX	12.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4.0	2/month	Grab

Compliance Sampling Location: 

Other Comments: 

**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" (386-0400-001), SOPs and/or BPJ.

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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: 

Tools and References Used to Develop Permit	
<input checked="" type="checkbox"/>	WQM for Windows Model (see Attachment [REDACTED])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [REDACTED])
<input checked="" type="checkbox"/>	TRC Model Spreadsheet (see Attachment [REDACTED])
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment [REDACTED])
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 9/08.
<input checked="" type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
<input checked="" type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input checked="" type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input checked="" type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input checked="" type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
<input checked="" type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input checked="" type="checkbox"/>	SOP: BCW-PMT-033
<input type="checkbox"/>	Other: [REDACTED]

NPDES Permit Fact Sheet  
Artillery Ridge Camping Resort

NPDES Permit No. PA0087548

The screenshot shows an Outlook inbox with the following details:

- File**, **Message** (selected), **Help**, **Tell me what you want to do**
- Ignore**, **Delete**, **Archive**, **Reply**, **Reply All**, **Forward**, **Respond**
- Quick Steps**: HR, To Manager, Team Email, Done, Create New, Reply & Delete
- Move**, **Mark Unread**, **Categorize**, **Follow Up**, **Tags**, **Editing**
- Translate**, **Read Aloud**, **Zoom**, **Share to Teams**, **Report Phishing**, **Viva Insights**
- Reply**, **Reply All**, **Forward**, **...**
- Wednesday, June 26, 2024, 10:42 AM**

**[External] RE: Follow up Artillery Ridge Campground LLC NPDES Permit No. PA0087548 A-1 & WQM Part II No. 0198704 A-1, when will the upgrade fi...**

Chad Kehew <ckekehew@jrholley.com>  
To: Le, Hilary  
Cc: Gary ott; Gary Ott Jr.; qwr@pa.net  
① You replied to this message on 6/26/2024 10:48 AM.

**Artillery Ridge Certification.pdf** 65 KB

**ATTENTION:** This email message is from an external sender. Do not open links or attachments from unknown senders. To report suspicious email, use the [Report Phishing button in Outlook](#).

Hi Hilary,

The treatment plant has been installed. As you may know, a couple of your colleagues recently were there for an inspection and I understand it went well. Some issues are still being resolved, but I am able to submit the attached Post Construction Certification form to you.

Thanks,  
Chad

Charles A. Kehew, II, P.E.  
Project Engineer  
James R. Holley & Associates, Inc.  
18 S. George Street  
York, PA 17401  
(717) 846-4373 - Phone  
(717) 893-7124 - Fax

**From:** Le, Hilary <hle@pa.gov>  
**Sent:** Tuesday, June 25, 2024 2:47 PM  
**To:** Chad Kehew <ckekehew@jrholley.com>  
**Cc:** Gary ott <phillystorageott@yahoo.com>; Le, Hilary <hle@pa.gov>  
**Subject:** Follow up Artillery Ridge Campground LLC NPDES Permit No. PA0087548 A-1 & WQM Part II No. 0198704 A-1, when will the upgrade finished?

Hi Chad,

I would like to follow up this project. Do you have any update?

Thanks!

Hilary Le | Permits Section  
Department of Environmental Protection | Clean Water Program  
Southcentral Regional Office  
909 Elmerton Avenue | Harrisburg, PA 17110  
Phone: 717.705.4869 | Fax: 717.705.4760  
[www.dep.pa.gov](http://www.dep.pa.gov)

3800-PM-WSFR0179a 9/2005  
Post Construction Certification  
 pennsylvania  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER

WATER QUALITY MANAGEMENT  
POST CONSTRUCTION CERTIFICATION

PERMITTEE IDENTIFIER

Permittee	Artillery Ridge Campground LLC
Municipality	Cumberland Township
County	Adams
WQM Permit No.	0198404 A-1
Facility Type	Sewage

All of the above information should be taken directly from the Water Quality Management Permit.

CERTIFICATION

This certification must be completed and returned to the permits section of the DEP's regional office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, and if requested, as-built drawings, photographs (if available) and a discussion of any DEP-approved deviations from the design plans during construction.

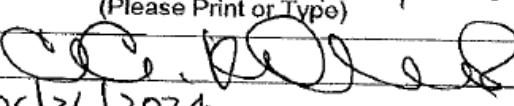
I, being a Registered Professional Engineer in Pennsylvania, do hereby certify to the best of my knowledge and belief, based upon personal observation and interviews, that the above facility approved under the Water Quality Management Permit has been constructed in accordance with the plans, specifications and modifications approved by DEP.

Construction Completion Date (MM/DD/YYYY): 06/05/2024



Professional Engineer

Name Charles A. Kehew, II, P.E.  
(Please Print or Type)

Signature 

Date 06/26/2024

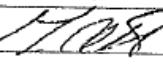
License Expiration Date 09/30/2025

Firm or Agency James R. Holley & Associates, Inc.

Telephone 717-846-4373

Permittee or Authorized Representative

Name GARY OTT  
(Please Print or Type)

Signature 

Title OWNER

Telephone 610-506-1121