

Application Type	Renewal
	Non-
Facility Type	Municipal
Major / Minor	Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0239224

 APS ID
 1096844

 Authorization ID
 1454877

Applicant and Facility Information

Applicant Name	Gentile	Enterprises LLC	Facility Name	Keystone Charter School
Applicant Address	201 Ma	in Street	Facility Address	425 S Good Hope Road
	Greenv	ille, PA 16125-2227		Greenville, PA 16125-8629
Applicant Contact	Roderic	k Donghia	Facility Contact	
Applicant Phone	(724) 5	89-5546	Facility Phone	(724) 813-8838
Applicant Email	r.dongh	ia@gmail.com		
Client ID	111062		Site ID	264754
Ch 94 Load Status	Not Ov	erloaded	Municipality	West Salem Township
Connection Status	No Lim	tations	County	Mercer
Date Application Recei	ved	September 5, 2023	EPA Waived?	Yes
Date Application Accep	oted	November 29, 2023	If No, Reason	
Purpose of Application		Renewal of a NPDES Permit	for an Existing Discharge of	0.06

Summary of Review

This is a renewal Sewage Individual NPDES Permit for an Existing Discharge of 0.006 MGD from a non-municipal minor sewage facility.

Treatment permitted under WQM Permit 4303410 consists of: A comminutor with bypass bar screen, a 6,000 GPD package activated sludge STP consisting of an aerated 2,380 gallon flow equalization tank, a 1,459 gallon aerated sludge digester, three aeration tanks in series consisting of two 8,985 gallon tanks followed by one 6,371 gallon tank totaling 24,341 gallons, a 1,057 gallon settling tank, tablet chlorine disinfection with a 335 gallon chlorine contact tank, a 139 gallon post aeration/dechlorination tank, and a 500 gallon effluent pumping tank.

No changes to discharge quantity or quality are being proposed as part of this renewal.

This facility is currently submitting eDMR reports.

Act 14 - Proof of Notification was submitted and received.

SPECTIAL CONDITIONS: NONE

The EPA waiver is in effect.

There is ONE open violation in WMS for the subject Client ID (111062) as of November 30, 2023 associated with Safe Drinking Water Section.

Approve	Deny	Signatures	Date
х		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	November 30, 2023
		Vacant / Environmental Engineer Manager	Okay to Draft JCD 1/22/2024

Summary of Review

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Info	rmation	
Outfall No. 001	Design Flow (MGD)	.006
Latitude 41º 24' 14.37"	Longitude	-80° 27' 17.67"
Quad Name Greenville West	Quad Code	41080D4
Wastewater Description: Sewage Effluent		
Receiving Waters Big Run (WWF)	Stream Code	36106
NHD Com ID 130027480	RMI	6.18
Drainage Area 11.8 square mile	Yield (cfs/mi ²)	0.05
		Little Shenango River at
Q ₇₋₁₀ Flow (cfs) 0.59	Q7-10 Basis	Greenville, Streamgage # 3102500
Elevation (ft) 1014	Slope (ft/ft)	
Watershed No. 20-A	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	
Background/Ambient Data	Data Source	
pH (SU) 7.0	Default	
Temperature (°F) 25.0	Default	
Hardness (mg/L) 100	Default	
Other:		
Nearest Downstream Public Water Supply Intake	Sharpsville Borough Water Co	ompany
PWS Waters Shenango River	Flow at Intake (cfs)	94.3
PWS RMI 33.2	Distance from Outfall (mi)	27.5

Changes Since Last Permit Issuance: None

Other Comments: None.

Treatment Facility Summary							
Freatment Facility Na	me: Keystone Charter Scho	ool					
WQM Permit No.	Issuance Date						
4303410 A-1	02/22/2011						
	Degree of			Avg Annual			
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)			
Sewage	Secondary with Ammonia Reduction	Activated Sludge	Hypochlorite	0.006			
Hydraulic Capacity	Organic Capacity			Biosolids			
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa			
0.006	46.2	Not Overloaded					

Changes Since Last Permit Issuance: None.

Other Comments: None.

Compliance History

DMR Data for Outfall 001 (from October 1, 2022 to September 30, 2023)

Parameter	SEP-23	AUG-23	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22
Flow (MGD)												
Average Monthly	0.0014	0.0003	0.0002	0.0003	0.0016	0.0016	0.0017	0.0016	0.0014	0.0013	0.0017	0.0016
Flow (MGD)												
Daily Maximum	0.0018	0.0012	0.0003	0.0014	0.0018	0.0018	0.0018	0.0017	0.0016	0.0017	0.0019	0.0018
pH (S.U.)												
Instantaneous Minimum	7.1	7.0	7.0	7.0	7.1	7.0	6.9	7.0	6.9	6.7	7.0	7.0
pH (S.U.)												
Instantaneous Maximum	7.4	7.4	7.6	7.4	7.5	7.5	7.6	7.5	7.5	7.5	7.5	7.5
DO (mg/L)												
Instantaneous Minimum	6.9	7.0	7.1	7.0	6.9	6.7	7.0	6.9	7.1	7.0	7.1	6.9
TRC (mg/L)												
Average Monthly	0.2	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.3
TRC (mg/L)												
Instantaneous Maximum	0.3	0.3	0.3	0.4	0.3	0.3	0.34	0.3	0.4	0.3	0.3	0.4
CBOD5 (mg/L)												
Average Monthly	4.0	3.8	4.4	4.7	4.0	4.0	4.5	4.4	4.3	4.5	3.6	3.7
TSS (mg/L)												
Average Monthly	11.0	10.5	9.0	13.0	9.5	13.5	10.5	9.0	14.0	10.5	7.5	9.0
Fecal Coliform (No./100												
ml)												
Geometric Mean	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Fecal Coliform (No./100												
ml)												
Instantaneous Maximum	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Nitrogen (mg/L)												
Average Quarterly	21.2			21.9			22.1			21.7		
Ammonia (mg/L)												
Average Monthly	10.0	10.2	10.4	10.1	10.1	10.2	9.2	9.9	10.1	10.0	10.1	10.0
Ammonia (mg/L)												
Instantaneous Maximum	10.1	10.4	10.5	10.3	10.2	10.2	10.0	9.9	10.2	10.2	10.2	10.2
Total Phosphorus (mg/L)												
Average Quarterly	3.727			3.635			3.680			3.167		

Development of Effluent Limitations

Outfall No.	001		Design Flow (MGD)	.006
Latitude	41º 24' 14.37	II	Longitude	-80º 27' 17.67"
Wastewater De	escription:	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)
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)
рН	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)
E. Coli	Report (No./100 ml)	IMAX	-	92a.61

Comments: Monitoring for E. Coli is placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Water Quality-Based Limitations

A "Reasonable Potential Analysis" determined the following parameters were candidates for limitations: N/A

CBOD5, Ammonia, and DO are evaluated using WQM 7.0 (See Attachment 1). TRC is evaluated using the TRC spread sheet (See Attachment 2). Nitrogen, phosphorus and E Coli are monitor and report.

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

Parameter	Limit (mg/l)	SBC	Model
Dissolved Oxygen	4.0	Daily Min.	WQM 7.0
CBOD5	25	Avg. Monthly	WQM 7.0
	50	IMAX	
Ammonia Nitrogen	25.0	Average Monthly	WQM 7.0
(May 1 – Oct 31)	50.0	IMAX	

Comments: WQM modeling resulted in the summer limits calculated above. Based on the previous NPDES Permit and eDMR data, the previous limits of 10.5 mg/l monthly average and 21.0 instantaneous maximum are attainable, so they will be retained. The winter limits are calculated as three times the summer limits (75.0 Avg. Monthly, 150.0 IMAX), but since the technology-based limits are more protective, they will be used.

Best Professional Judgment (BPJ) Limitations

Comments: Monitoring for total nitrogen, total phosphorus and raw sewage influent monitoring for BOD₅ and TSS are placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Anti-Backsliding

No backsliding of limits is being proposed.

Proposed Effluent Limitations and Monitoring Requirements

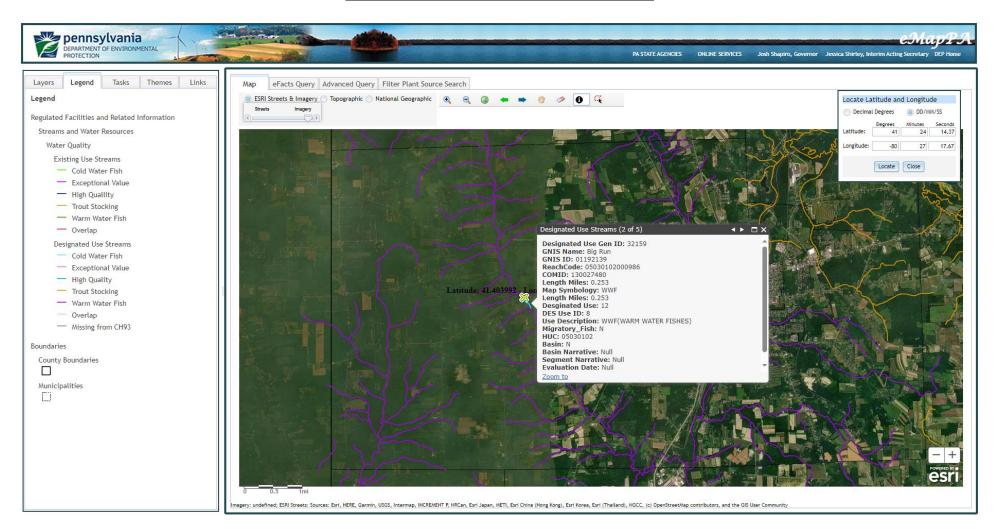
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). 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.

			Effluent L	imitations			Monitoring Requirements	
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrations (mg/L)				Required
Falameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	xxx	xxx	XXX	xxx	1/week	Measured
pH (S.U.)	ХХХ	xxx	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	ххх	xxx	4.0 Inst Min	xxx	xxx	xxx	1/day	Grab
TRC	ххх	xxx	ххх	0.5	xxx	1.6	1/day	Grab
CBOD5	XXX	xxx	xxx	25.0	XXX	50	2/month	8-Hr Composite
TSS	xxx	xxx	xxx	30.0	xxx	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	ххх	xxx	xxx	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	ххх	xxx	xxx	200 Geo Mean	xxx	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	xxx	xxx	Report Avg Qrtly	xxx	xxx	1/quarter	Grab
Ammonia Nov 1 - Apr 30	xxx	XXX	XXX	25.0	XXX	50.0	2/month	Grab
Ammonia May 1 - Oct 31	ххх	XXX	xxx	10.5	xxx	21.0	2/month	Grab
Total Phosphorus	ХХХ	XXX	xxx	Report Avg Qrtly	XXX	XXX	1/quarter	Grab

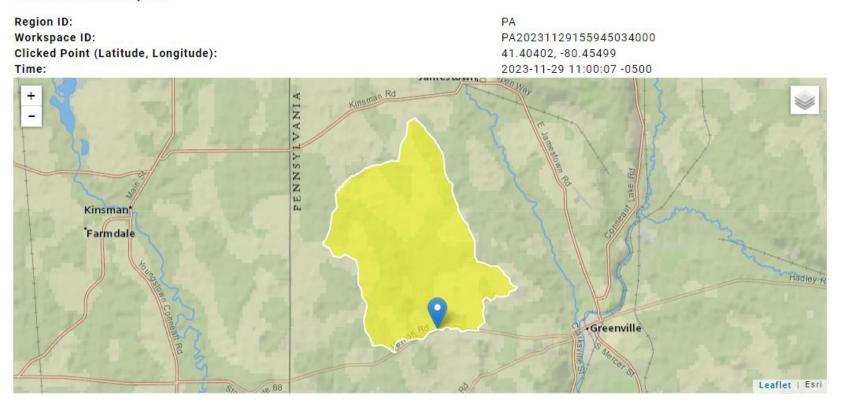
Compliance Sampling Location: Outfall 001, after disinfection.

Outfall Location - eMap with Aerial Imagery



Drainage Area at Outfall 001 Location – StreamStats with Aerial Imagery

StreamStats Report



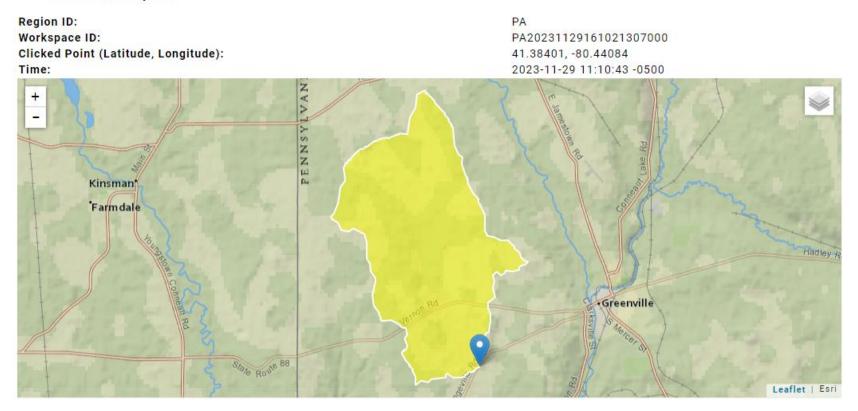
Collapse All

> Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	11.8	square miles

Drainage Area – Downstream RMI 4.32 – StreamStats with Aerial Imagery

StreamStats Report



Collapse All

Basin Characteristics			
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	14.5	square miles

Attachment 1

		<u>n Code</u> 106		<u>Stream Nam</u> BIG RUN	<u>e</u>		
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
6.180	Keystone Char.	PA0239224	0.006	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			4

WQM 7.0 Effluent Limits

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SWP Basin St	ream Code			Stream Name	
20A	36106			BIG RUN	
RMI	Total Discharge	Flow (mgd	<u>) Anal</u>	lysis Temperature (ºC)	Analysis pH
6.180	0.000	5		25.000	7.002
Reach Width (ft)	Reach De	oth (ft)		Reach WDRatio	Reach Velocity (fps)
13.679	0.484	1		28.244	0.090
Reach CBOD5 (mg/L)	Reach Kc (1/days)	R	each NH3-N (mg/L)	Reach Kn (1/days)
2.36	0.103			0.39	1.029
Reach DO (mg/L)	<u>Reach Kr (</u>			Kr Equation	Reach DO Goal (mg/L)
7.485	18.67	6		Owens	5
Reach Travel Time (days)		Subreach	Results		
1.257	TravTime	CBOD5	NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.126	2.32	0.34	7.54	
	0.251	2.28	0.30	7.54	
	0.377	2.24	0.26	7.54	
	0.503	2.21	0.23	7.54	
	0.628	2.17	0.20	7.54	
	0.754	2.14	0.18	7.54	
	0.880	2.10	0.16	7.54	
	1.005	2.07	0.14	7.54	
	1.131	2.04	0.12	7.54	
	1.257	2.01	0.11	7.54	

WQM 7.0 D.O.Simulation

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WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	✓
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	✓
D.O. Saturation	90.00%	Use Balanced Technology	✓
D.O. Goal	5		

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Los consta	Data	MOR	170
Input	Data	WUN	17.0

	SWP Basir			Stre	eam Name		RMI	Eleva (ft)		Drainage Area (sq mi)	Slope (ft/ft)	PW Withdi (mg	rawal	Apply FC
	20A	361	106 BIG R	UN			6.18	30 10	14.00	11.80	0.00000	(Long)	0.00	✓
					St	ream Dat	ta							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Tra∨ Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Temp	<u>ributary</u> pH	Tem		pH	
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C	:)		
Q7-10 Q1-10 Q30-10	0.050	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.00	25.0	00 7.0	0	0.00	0.00	
					Di	scharge	Data							
			Name	Per	mit Number	Existing Disc		ed Design Disc Flow (mgd)	Reser Facto		p p	sc iH		
		Keys	tone Char.	PA	0239224	0.006	0 0.000	0 0.000	0 0.0	000 2:	5.00	7.20		
					Pa	arameter	Data							
			1	⊃aramete	r Name				ream Conc	Fate Coef				
			24	100000000000000000000000000000000000000	0.00000000000000000	(m	ng/L) (m	ng/L) (n	ng/L) (1/days)				
			CBOD5				25.00	2.00	0.00	1.50		~		
			Dissolved	Oxygen			4.00	7.54	0.00	0.00				
			NH3-N				25.00	0.00	0.00	0.70				

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l	.4 D	-4-	1410		7 0
Inpu	πυ	ata	WQ	IVI	1.0

	SWF Basir			Stre	eam Name		RMI	Eleva (ft		Drainage Area (sq mi)	Slo (ft/	Witho	VS drawal gd)	Apply FC
	20A	361	106 BIG R	UN			4.32	2 0 9	72.00	14.5	0.00	0000	0.00	✓
					St	ream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Tra∨ Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem		I	<u>Strear</u> Temp	n pH	
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)			(°C)		
Q7-10 Q1-10 Q30-10	0.050	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.00	25	5.00 7	.00	0.00	0.00	
					Di	scharge	Data						1	
			Name	Per	mit Number	Existing Disc	Permitte Disc Flow (mgd)	Disc Flow	Rese Fac	erve Te stor	isc emp 'C)	Disc pH		
		-				0.000	0 0.000	0.000	00 C	.000	0.00	7.00		
					Pa	arameter	Data							
			1	Paramete	r Name				ream Conc	Fate Coef				
	_					(m	ng/L) (n	ng/L) (r	mg/L)	(1/days)				
			CBOD5				25.00	2.00	0.00	1.50				
			Dissolved	Oxygen			3.00	8.24	0.00	0.00				
			NH3-N				25.00	0.00	0.00	0.70				

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			TYGET	1 7.0	i i y Gi	oayn	anno	out	Jaco			
	SW	P Basin	Strea	m Code				Stream	Name			
		20A	3	6106				BIG R	UN			
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Tra∨ Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
6.180	0.59	0.00	0.59	.0093	0.00428	.484	13.68	28.24	0.09	1.257	25.00	7.00
Q1-1	0 Flow											
6.180	0.38	0.00	0.38	.0093	0.00428	NA	NA	NA	0.07	1.606	25.00	7.00
Q30-	10 Flow	ı										
6.180	0.80	0.00	0.80	.0093	0.00428	NA	NA	NA	0.11	1.060	25.00	7.00

WQM 7.0 Hydrodynamic Outputs

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5		<u>eam Code</u> 36106			<u>ream Name</u> BIG RUN		
NH3-N	Acute Allocatio	ns					
RMI	Discharge Nam	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
6.18	30 Keystone Char.	11.04	50	11.04	50	0	0
NH3-N	Chronic Allocat	ions					
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
6.18	80 Keystone Char.	1.37	25	1.37	25	0	0

		CBC	<u>DD5</u>	<u>NH</u>	<u>3-N</u>	Dissolve	d Oxygen	Critical	Percent
RMI	Discharge Name	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Reach	Reduction
6.18	Keystone Char.	25	25	25	25	4	4	0	0

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Attachment 2

TRC EVALU	ATION				
Input appropria	ate values in A	3:A9 and D3:D9			
0.59	= Q stream (o	:fs)	0.5	= CV Daily	
0.006	S = Q discharge	e (MGD)	0.5	= CV Hourly	
30	= no. samples	3	1	= AFC_Partial I	Aix Factor
0.3	3 = Chlorine De	mand of Stream	1	= CFC_Partial I	lix Factor
(= Chlorine De	mand of Discharge	15	= AFC_Criteria	Compliance Time (min)
0.6	5 = BAT/BPJ Va	alue	720	= CFC_Criteria	Compliance Time (min)
(= % Factor o	f Safety (FOS)	0	=Decay Coeffic	ient (K)
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA afc =	20.296	1.3.2.iii	WLA cfc = 19.779
PENTOXSD TRG	5.1a	LTAMULT afc =	0.373	5.1c	LTAMULT cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc=	7.563	5.1d	LTA_cfc = 11.499
Source		Efflue	nt Limit Calcu	lations	
PENTOXSD TRG	5.1f		AML MULT =		
PENTOXSD TRG	5.1g		LIMIT (mg/l) =		BAT/BPJ
			LIMIT (mg/l) =	1.000	
WLA afc	DENNE DETROVES ON OF STR	C_tc)) + [(AFC_Yc*Qs*.019	CONTRACTOR CONTRACTOR STORES	;_tc))	
LTAMULT afc		-Yc*Qs*Xs/Qd)]*(1-FOS/10			
LTA MULI arc LTA afc	wla_afc*LTAM	cvh^2+1))-2.326*LN(cvh^2+ 4UU T_afo	-1) 0.5)		
WLA_cfc	(a)	C_tc) + [(CFC_Yc*Qs*.011/ ; Yc*Qs*Xs/Qd)]*(1-FOS/10		_tc))	
LTAMULT_cfc			and the second second second second second	o_samples+1)^().5)
LTA_cfc	wla_cfc*LTA	/ULT_cfc		no a novem en defendence v ideo eta produk de 20 2 6 de	
	EXP(2.326*LN	l((cvd^2/no_samples+1)^0.	5)-0.5*LN(cvd	I^2/no_samples+	-1))
AML MULT					
AML MULT AVG MON LIMIT	MIN(BAT_BP	J,MIN(LTA_afc,LTA_cfc)*AM	IL_MULT)		