

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

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No.	PA0032026
APS ID	1093467
Authorization ID	1448469

Applicant and Facility Information

Applicant Name	Family Affair Campground LLC	Facility Name	Family Affair Campground
Applicant Address	1135 Tamarack Road	Facility Address	9640 Findley Lake Road
	Waterford, PA 16441	_	North East, PA 16428-5330
Applicant Contact	Glenn Cessna	Facility Contact	
Applicant Phone	(814) 323-6989	Facility Phone	
Applicant Email	office@familyaffaircampground.com	_	
Client ID	367203	Site ID	450768
Ch 94 Load Status	Not Overloaded	Municipality	North East Township
Connection Status	No Limitations	County	Erie
Date Application Rece	ived June 28, 2023	EPA Waived?	Yes
Date Application Acce	pted November 8, 2023	If No, Reason	
Purpose of Applicatior	Renewal of a NPDES Permit for a	an Existing Discharge of	0.025

Summary of Review

This is a renewal Sewage Individual NPDES Permit for an Existing Discharge of 0.025 MGD from a non-municipal minor sewage facility.

Treatment permitted under WQM Permit 2595408 consists of: An existing aerated flow equalization, extended aeration, clarification, alum feed for phosphorus removal, tablet chlorination, and a sludge holding tank.

The plant operates at little or no flow during the off-season (October - May).

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 (367203) as of November 9, 2023 associated with Safe Drinking Water section. The Draft Permit cover letter will notify the applicant of the open violation and provide them an opportunity to address the violation prior to final permit issuance. 11/21/2023 CWY

Approve	Deny	Signatures	Date
х		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer Trainee	November 9, 2023
х		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	11/21/2023

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 Water	s and Water Supply Inform	mation	
Outfall No. 001		Design Flow (MGD)	.025
Latitude 42º 10' 4.66"		Longitude	-79º 46' 28.79"
Quad Name North East		Quad Code	42079B7
· · · · · · · · · · · · · · · · · · ·	Sewage Effluent		
·····	••••••g• =…•••		
	med Tributary of Sixteenmil (CWF, MF)	e Stream Code	62288
NHD Com ID 12392	· ·	RMI	0.3200
Drainage Area 0.15 (Dry), 1.89 (Perennial)	Yield (cfs/mi²)	0.11
	(Dry), 0.20 (Perennial)	Q7-10 Basis	Dry Stream
Elevation (ft) 1372		Slope (ft/ft)	
Watershed No. 15-A		Chapter 93 Class.	CWF, 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	
Background/Ambient Data		Data Source	
pH (SU)	7.0	Default	
Temperature (°F)	20	Default	
Hardness (mg/L)	100	Default	
Other:	<u> </u>		
Nearest Downstream Publi	c Water Supply Intake	PA – Canadian International E	Boundarv in Lake Erie
PWS Waters Lake Eri		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	
		, , , , , , , , , , , , , , , , , , ,	

Changes Since Last Permit Issuance: None.

Other Comments: None.

Treatment Facility Summary							
reatment Facility Na	me: Family Affair Campgro	und					
WQM Permit No.	Issuance Date						
2595408 T-3	June 10, 2022						
	Degree of			Avg Annual			
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)			
	Secondary with						
	Ammonia and						
Sewage	Phosphorus	Extended Aeration	Hypochlorite	0.025			
Hydraulic Capacity	Organic Capacity			Biosolids			
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa			
0.025	83	Not Overloaded	Aerobic Digestion	Other WWTP			

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	0.00144	0.00144	0.00144	0.00144								
pH (S.U.)												
Instantaneous Minimum	6.1	6.7	6.1	6.2								
pH (S.U.)												
Instantaneous Maximum	8.3	7.2	7.7	7.6								
DO (mg/L)												
Instantaneous Minimum	5.2	4.9	4.0	4.0								
TRC (mg/L)												
Average Monthly	< 0.34	0.23	0.17	< 0.24								
TRC (mg/L)												
Instantaneous Maximum	< 0.64	0.95	1.1	< 0.50								
CBOD5 (mg/L)												
Average Monthly	< 4.0	10.7	4.2	< 4.9								
CBOD5 (mg/L)												
Instantaneous Maximum	< 4.0	17.3	4.4	< 5.8								
TSS (mg/L)												
Average Monthly	< 5.3	10.3	8.0	< 16.8								
TSS (mg/L)												
Instantaneous Maximum	< 5.5	12.5	10.5	< 19.5								
Fecal Coliform (No./100												
ml)		-										
Geometric Mean	< 1.0	6	< 1	< 1								
Fecal Coliform (No./100												
ml)												
Instantaneous Maximum	< 1.0	12	< 1	< 1								
Total Nitrogen (mg/L)												
Average Quarterly	< 0.12			< 0.13								
Ammonia (mg/L)												
Average Monthly	< 0.31	0.30	0.41	< 6.1								
Ammonia (mg/L)	0.04		0.00	7.04								
Instantaneous Maximum	< 0.31	0.30	0.83	< 7.21								
Total Phosphorus (mg/L)	0.446		0.45	0.00								
Average Monthly	< 0.143	0.39	0.45	< 0.60								

Development of Effluent Limitations

Outfall No.	001		Design Flow (MGD)	.025
Latitude	42º 10' 4.66"		Longitude	-79º 46' 28.79"
Wastewater D	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	200 / 100 ml			020.47(0)(4)
(5/1 – 9/30) Fecal Coliform	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
(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

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	19.5	Average Monthly	WQM 7.0
(Nov 1 - Apr 30)	39	IMAX	
Ammonia Nitrogen	6.5	Average Monthly	WQM 7.0
(May 1 – Oct 31)	13.0	IMAX	

Comments: A two-step model was used. The first step was for a dry stream evaluation. The DO simulation end-of-reach data was then used to evaluate the second step perennial stream reach. The second step evaluated perennial stream conditions (See Attachment 1 and Attachment 2). Average monthly summer time Ammonia Nitrogen limits calculated using WQM 7.0 are 9.9 mg/l and winter limits are 29.7 mg/l. However, because the existing limits are more restrictive and attainable, they will be retained. 11/21/2023 CWY

The TRC spreadsheet calculated a more stringent WQBEL for TRC at perennial conditions using the plant design flow, but the limit was not deemed necessary because (1) The discharge is approximately a third of a mile away from perennial conditions traveling through a vegetated swale, (2) the actual monthly average discharge volume (= 0.00144 MGD) does not produce a more stringent WQBEL when placed in the TRC spreadsheet, and (3) the discharge is intermittent, primarily occurring through June to September.

Best Professional Judgment (BPJ) Limitations

Comments: Monitoring for total nitrogen, total phosphorus are placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits." A Total Phosphorus limit of 1.0 mg/l will be retained for discharges to the Great Lakes basin. 11/21/2023 CWY

Anti-Backsliding

No backsliding of limits is being proposed.

Proposed Effluent Limitations and Monitoring Requirements

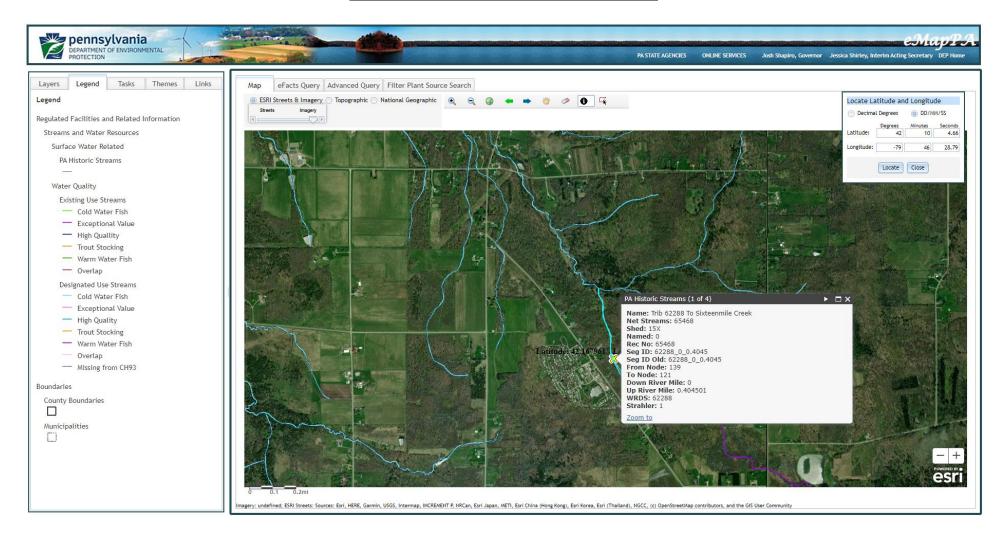
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). 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
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	XXX	ХХХ	XXX	XXX	ххх	1/week	Measured
рН (S.U.)	XXX	XXX	6.0 Inst Min	xxx	XXX	9.0	1/day	Grab
DO	xxx	XXX	4.0 Inst Min	xxx	xxx	xxx	1/day	Grab
TRC	xxx	XXX	ххх	0.5	xxx	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25	xxx	50	2/month	8-Hr Composite
TSS	XXX	XXX	xxx	30	XXX	60	2/month	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	ххх	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	ххх	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	8-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	XXX	XXX	ххх	19.5	XXX	39	2/month	8-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	XXX	XXX	xxx	6.5	xxx	13	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	1.0	XXX	XXX	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001, after disinfection.

Outfall Location - eMap with Aerial Imagery



Dry Reach - Drainage Area Location - StreamStats with Aerial Imagery

StreamStats Report

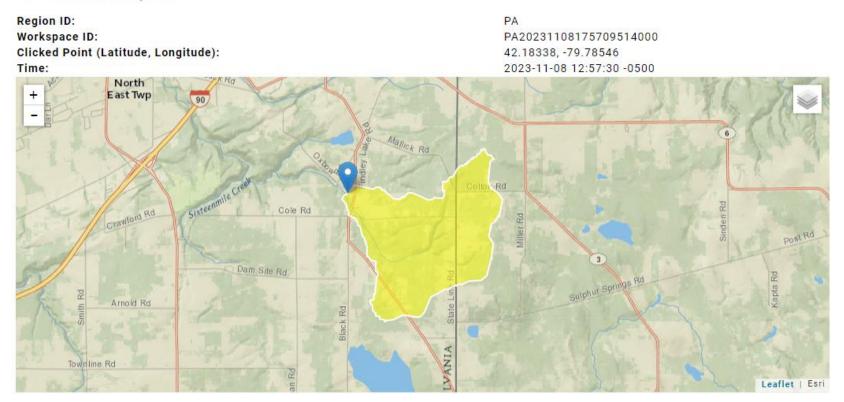


Collapse All

Parameter Code Parameter Description Value Unit DRNAREA Area that drains to a point on a stream 0.15 square miles

Perennial Reach - Drainage Area 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	1.89	square miles



Attachment 1

Dry Reach Modeling

	<u>SWP Basin</u> 15	Stream Code 62288	т	<u>Stream Name</u> b 62288 to Sixteenr	-		
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)
.290	Family Affair	PA0032026	0.025	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			4

WQM 7.0 Effluent Limits

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SWP Basin	Stream Code			Stream Name	
15	62288		Trib 622	88 to Sixteenmile Cree	k
RMI	Total Discharge	Flow (mgd	<u>) Ana</u>	ysis Temperature (°C)	Analysis pH
1.290	0.02	5		20.000	6.980
Reach Width (ft)	Reach De	<u>pth (ft)</u>		Reach WDRatio	Reach Velocity (fps)
2.272	0.33	6		6.754	0.072
Reach CBOD5 (mg/L)	Reach Kc (1/days)	R	each NH3-N (mg/L)	Reach Kn (1/days)
17.52	1.50	The second se		17.52	0.700
Reach DO (mg/L)	<u>Reach Kr (</u>			Kr Equation	<u>Reach DO Goal (mg/L)</u>
5.269	27.99	95		Owens	2
Reach Travel Time (days)	2	Subreach	Results		
0.271	TravTime	CBOD5	NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.027	16.83	17.19	5.55	
	0.054	16.16	16.87	5.73	
	0.081	15.51	16.55	5.87	
	0.108	14.90	16.24	5.97	
	0.135	14.30	15.94	6.07	
	0.163	13.73	15.64	6.16	
	0.190	13.19	15.35	6.24	
	0.217	12.66	15.06	6.32	
	0.244	12.16	14.77	6.39	
	0.271	11.67	14.50	6.47	

WQM 7.0 D.O.Simulation

Version 1.1

WQM 7.0 Modeling Specifications

Parameters	D.O.	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	2		

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					mp	at but		0. 6 KM					
	SWP Basin			Stre	eam Name		RMI	Elevat (ft)	A	inage Area q mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Appl FC
	15	62:	288 Trib 6:	2288 to Si	ixteenmile (Creek	1.29	90 137	72.00	0.15	0.00000	0.00	V
					St	ream Dat	a						
Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	<u>Trib</u> Temp (°C)	<u>utary</u> pH	Temp (°C)	-	
		(013)	(013)	(uays)	2015 (242)		160 (16520)	S2 08	× 5		80 1H		
Q7-10 Q1-10 Q30-10	0.110	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000	0.0	0.00	0.00	20.00	6.98	3 0	.00 0.00)
					D	ischarge l	Data						
			Name	Per	rmit Numbe	Disc r Flow	Disc Flow		Reserve Factor				
		Fami	ly Affair	PA	0032026	(mgd) 0.025	(mgd) 0 0.000		0 0.000	(°C)	.00 6	5.98	
		i uni	i y / man	1 23		arameter			0.000	0 20			
								Trib Str	eam Fa	ate			
				Paramete	r Name					oef			
	_		8		9 (PAC)20003292030	(m	ıg/L) (r	ng/L) (m	ng/L) (1/a	days)			
			CBOD5				25.00	0.00	0.00	1.50			

4.00

25.00

0.00

0.00

8.24

0.00

0.00

0.70

Input Data WQM 7.0

Dissolved Oxygen

NH3-N

a 7	-	1110 14	
Innut	Data	WQM	7.0
mpar	Dutu		

	SWP Basir			Stre	eam Name		RMI	Eleva (fl		Drainage Area (sq mi)		lope t/ft)	PW Withdr (mg	rawal	Apply FC
	15	622	288 Trib 62	2288 to Si	xteenmile C	reek	0.97	' 0 13	328.00	0.9	92 0.0	00000		0.00	✓
					St	ream Dat	a								
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> p p	Н	Tem	<u>Stream</u> p	<u>р</u> рН	
Conta.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C))		
Q7-10 Q1-10	0.110	0.00 0.00	0.00 0.00	0.000 0.000	0.000 0.000	0.0	0.00	0.00	2	0.00	6.98	(0.00	0.00	
Q30-10		0.00	0.00	0.000	0.000										
					Di	scharge l	Data								
			Name	Per	mit Number	Disc	Permitte Disc Flow (mgd)	ed Desigr Disc Flow (mgd	Res Fa	erve T ctor	Disc ⁻ emp (°C)	Di: P			
		-				0.000	0.000	0 0.00	00 (0.000	25.0	0	7.00		
					Pa	rameter	Data								
				⊃aramete	r Nomo				tream Conc	Fate Coef					
				aramete	INdiffe	(m	g/L) (m	ng/L) (i	mg/L)	(1/days)					
	-		CBOD5				25.00	2.00	0.00	1.50	l.				
			Dissolved	Oxygen			3.00	8.24	0.00	0.00	i.				
			NH3-N				25.00	0.00	0.00	0.70	li i				

2	SWP Basin	Stream C	Code			Stream	Name			
	15	62288	3		Trib 622	88 to Six	teenmile C	Creek		
			CBC	<u>DD5</u>	<u>NH</u>	<u>3-N</u>	Dissolved	d Oxygen	Critical	Percent

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			VVGCI	VI 7.0	riyur	ouyn	anne	out	Juis			
	SW	P Basin	Strea	m Code				Stream	Name			
		15	15 62288			Trib 62288 to Sixteenmile Creek						
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
1.290	0.02	0.00	0.02	.0387	0.02604	.336	2.27	6.75	0.07	0.271	20.00	6.98
Q1-1	0 Flow											
1.290	0.01	0.00	0.00	.0387	0.02604	NA	NA	NA	0.00	0.000	0.00	0.00
Q30-	10 Flow	(
1.290	0.02	0.00	0.00	.0387	0.02604	NA	NA	NA	0.00	0.000	0.00	0.00

WQM 7.0 Hydrodynamic Outputs

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Attachment 2

Perennial Reach Modeling

For CBOD5 and DO, the resulting limits are the same as the inputs from the Dry Stream model therefore the Dry Stream limits for CBOD5 and DO are protective of the receiving stream. The Ammonia Nitrogen limit is less than the input indicating ammonia is still recovering. Therefore, for determining the initial protective ammonia limit:

 $C_{T} = C_{o} e^{-kt}$ $C_{o} = C_{T} e^{kt}$ $C_{o} = 8.26 e^{0.7 \times 0.458} = 9.9 \text{ mg/L}$

	<u>SWP Basin</u> 15	Stream Code 62288	ъ	<u>Stream Name</u> b 62288 to Sixteenr	-		
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)
0.970	Family Affair	PA0032026	0.025	CBOD5	11.67		
				NH3-N	8.26	16.52	
				Dissolved Oxygen			6.47

WQM 7.0 Effluent Limits

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SWP Basin	Stream Code			Stream Name	
15	62288		Trib 622	88 to Sixteenmile Cree	łk
RMI	<u>Total Dischar</u>	ge Flow (mgd) <u>Ana</u>	lysis Temperature (°C)	Analysis pH
0.970	0.	025		20.000	6.994
Reach Width (ft)	<u>Reach</u>	<u>Depth (ft)</u>		Reach WDRatio	Reach Velocity (fps)
4.805	0.	369		13.009	0.079
Reach CBOD5 (mg/L)	Reach K	<u>c (1/days)</u>	R	<u>leach NH3-N (mg/L)</u>	Reach Kn (1/days)
4.67	0.	837		2.36	0.700
Reach DO (mg/L)	10	<u>ir (1/days)</u>		Kr Equation	<u>Reach DO Goal (mg/L)</u>
7.753	24	.962		Owens	6
Reach Travel Time (days	<u>6)</u>	Subreach	Results		
0.751	TravTim		NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.0	75 4.39	2.24	8.24	
	0.1	50 4.12	2.12	8.24	
	0.22	25 3.87	2.01	8.24	
	0.30	01 3.63	1.91	8.24	
	0.3	76 3.41	1.81	8.24	
	0.4	51 3.20	1.72	8.24	
	0.53	26 3.01	1.63	8.24	
	0.60	01 2.83	1.55	8.24	
	0.6	76 2.65	1.47	8.24	
	0.75	51 2.49	1.39	8.24	

WQM 7.0 D.O.Simulation

Version 1.1

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	6		

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	1	1410	
Innii	трат	ลงงเม	M 7.0
IIIPU	LDUU		

		SWP Stream Basin Code Stream Name			RMI		ation ft)	Drainage Area (sq mi)	Slo (ft/	Witho	PWS Withdrawal (mgd)			
	15	622	288 Trib 62	288 to Si	xteenmile C	Creek	0.97	70 1:	328.00	0.9	0.00	0000	0.00	✓
					St	ream Dat	ta							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> Ip pl	4	<u>Strear</u> Temp	n pH	
	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.110	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	2	0.00	7.00	0.00	0.00	
					Di	scharge	Data							
			Name	Per	mit Numbe	Disc	Permitte Disc Flow (mgd)	Disc Flow	Res / Fa	erve T ctor	Disc emp °C)	Disc pH		
		Fami	ly Affair	PA	0032026	0.025	0 0.000	0.00	000	0.000	20.00	6.98		
					Pa	arameter	Data							
			1	⊃aramete	r Name	_			Stream Conc	Fate Coef				
			i.			(m	ng/L) (n	ng/L) ((mg/L)	(1/days)				
			CBOD5				11.67	2.00	0.00	1.50				
			Dissolved	Oxygen			6.47	8.24	0.00	0.00				
			NH3-N				14.50	0.10	0.00	0.70				

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					mp								
	SWF Basi		2.2.4.1.1.1	Stre	am Name		RMI	Elevati (ft)	A	nage rea 1 mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
	15	622	288 Trib 6:	2288 to Si	xteenmile C	reek	0.00)1 124	00.0	1.89	0.00000	0.00	\checkmark
2					St	ream Dat	a						
Design	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	<u>Tribu</u> Temp	<u>utary</u> pH	Tem	<u>Stream</u> p pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	1	
Q7-10	0.110	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.00) C	0.00 0.00)
Q1-10		0.00	0.00	0.000	0.000								
Q30-10		0.00	0.00	0.000	0.000								
					Di	scharge [Data						
								ed Design		Disc	Dis	sc	
						Disc	Disc	Disc	Reserve	Temp	o pl	н	
			Name	Per	mit Number	Flow (mgd)	Flow (mgd)	Flow (mgd)	Factor	(°C)			
						0.0000	0.000	0.0000	0.000) 25	5.00	7.00	

Parameter Data

Parameter Name

CBOD5

NH3-N

Dissolved Oxygen

Disc

Conc

(mg/L)

25.00

3.00

25.00

Trib

Conc

(mg/L)

2.00

8.24

0.00

Fate

Coef

1.50

0.00

0.70

(mg/L) (1/days)

0.00

0.00

0.00

Stream

Conc

Input Data WQM 7.0

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2		a <u>m Code</u> 32288		<u>Sti</u> Trib 62288 t			
NH3-N	Acute Allocatior	IS					
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
0.97	0 Family Affair	16.87	29	16.87	29	0	0
NH3-N	Chronic Allocati	ons					
RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
0.97	'0 Family Affair	1.89	8.26	1.89	8.26	0	0
liccolu	ed Oxygen Alloc	ations					

RMI	Discharge Name	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Reach	Reduction	
0.97 Fa	amily Affair	11.67	11.67	8.26	8.26	6.47	6.47	0	0	

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	SW	P Basin	Strea	m Code				Stream	Name			
15			62288				Trib 6228					
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
0.970	0.10	0.00	0.10	.0387	0.01720	.369	4.81	13.01	0.08	0.751	20.00	6.99
Q1-1	0 Flow											
0.970	0.06	0.00	0.06	.0387	0.01720	NA	NA	NA	0.07	0.890	20.00	6.99
Q30-	10 Flow	(
0.970	0.14	0.00	0.14	.0387	0.01720	NA	NA	NA	0.09	0.660	20.00	7.00

WQM 7.0 Hydrodynamic Outputs

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