

Northwest Regional Office CLEAN WATER PROGRAM

Application Type
Renewal
NonMunicipal
Maior / Minor
Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0102717

1352608

APS ID 1037544

Authorization ID

Applicant and Facility Information										
Applicant Name	Jones Estates Sandy Hills LLC	Facility Name	Sandy Hill Estates MHP							
Applicant Address	230 Sandy Hill Road	Facility Address	Sandy Hill Road							
	Valencia, PA 16059-3332		Valencia, PA 16059							
Applicant Contact	Jason Freed	Facility Contact	Jason Freed							
Applicant Phone	(917) 225-9614	Facility Phone	(917) 225-9614							
Client ID	362598	Site ID	256458							
Ch 94 Load Status	Not Overloaded	Municipality	Middlesex Township							
Connection Status	No Limitations	County	Butler							
Date Application Rece	eived April 3, 2020	EPA Waived?	Yes							
Date Application Acce	epted April 20, 2020	If No, Reason								

Summary of Review

This permit application is for the renewal of the NPDES permit, as well as transferring the NPDES & WQM permit from Sandy Hill Estates Irrevocable Trust to Jones Estates Sandy Hills LLC.

Act 14 – Proof of notification were submitted and received.

There are no open violations for subject client no. 362598 as of 9/28/2021.

This facility is currently submitting eDMR reports.

There has been no change to the discharge or receiving stream since the last permit issuance.

Sludge use and disposal description and location(s): Septage must be pumped and hauled off-site by a septage hauler for land application under a general permit authorized by DEP or disposal at an STP.

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.

Approve	Deny	Signatures	Date
Х		Jon F. Bucha Jonathan F. Bucha / Civil Engineer General	September 28, 2021
Х		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	October 1, 2021

Discharge, Receiving Water	s and Water Supply Info	rmation				
Outfall No. 001		Design Flow (MGD)	.022			
Latitude 40° 42' 59"		Longitude	-79º 54' 19"			
Quad Name Valencia		Quad Code	1306			
Wastewater Description:	Sewage Effluent					
Receiving Waters Glade	Run (WWF)	Stream Code	35096			
NHD Com ID 12622	22446	RMI	11.13			
Drainage Area 1.12 r	mi²	Yield (cfs/mi²)	0.043 (USGS#03049000 '76 – 2011)			
Q ₇₋₁₀ Flow (cfs) 0.048		Q ₇₋₁₀ Basis	Calculated			
` '	(Google Earth)	Slope (ft/ft)	-			
Watershed No. 20-C		Chapter 93 Class.	WWF			
Existing Use -		Existing Use Qualifier	-			
Exceptions to Use -		Exceptions to Criteria	-			
Assessment Status	Impaired					
Cause(s) of Impairment	NUTRIENTS, SILTATION	N				
Source(s) of Impairment	AGRICULTURE					
TMDL Status	-	Name				
Background/Ambient Data		Data Source				
pH (SU)	7.0	Default				
Temperature (°F)	25 °C	Default				
Hardness (mg/L)	-	-				
Other:	0.1 mg/L	Ammonia Nitrogen Default				
Nearest Downstream Publi	c Water Supply Intake	Beaver Falls Municipal Author	rity @ Eastvale			
PWS Waters Beaver		Flow at Intake (cfs) 561				
PWS RMI 3.5		Distance from Outfall (mi) 36				

Changes Since Last Permit Issuance: Drainage area at the discharge point was revised from 3.46 mi² to 1.12 mi² using Streamstats, which resulted in a more stringent TRC limit. E. Coli monitoring is new to this permit renewal based on Ch. 92a.61.

Other Comments: This treatment facility is capable of meeting the effluent limits.

Treatment Facility Summary										
Treatment Facility Na	me: Sandy Hill Estates									
WQM Permit No.	Issuance Date									
1072419 T-2	12/1/2015									
		T								
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)						
	Secondary With Ammonia And									
Sewage	Phosphorus	Extended Aeration	Hypochlorite	0.022						
Hydraulic Capacity	Organic Capacity			Biosolids						
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal						
0.022	48	Not Overloaded	Sludge Holding Tank	Landfill						

Changes Since Last Permit Issuance: N/A

Other Comments: Treatment consists of screening, comminution, extended aeration, chemical addition for phosphorus removal, final settling tank, (2) intermittent sand filters, sludge holding tank, and chlorination.

The WQM permit will be transferred concurrently with this NPDES permit.

Compliance History										
Summary of DMRs:	Review of the past 3 years of eDMR data showed 1 violation for ammonia nitrogen in May, 2019. The cause was low DO in the MLSS, and the issue was corrected by increasing air to the aeration tank.									
Summary of Inspections:	An inspection occurred on 11/17/2020 where no violations were noted.									

Other Comments: N/A

Compliance History

DMR Data for Outfall 001 (from August 1, 2020 to July 31, 2021)

Parameter	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20
Flow (MGD)												
Average Monthly	0.0158	0.0155	0.02	0.0133	0.0206	0.0184	0.0215	0.0263	0.0131	0.0117	0.0142	0.0166
Flow (MGD)												
Daily Maximum	0.0485	0.0407	0.0733	0.0292	0.0733	0.0554	0.0784	0.0731	0.023	0.037	0.0214	0.0751
pH (S.U.)												
Minimum	6.07	6.14	6.55	6.99	7.2	7.17	7.23	7.21	7.33	7.75	7.36	8.12
pH (S.U.)												
Maximum	7.31	7.45	8.52	8.46	7.65	7.67	7.83	7.91	8.38	8.39	8.19	8.40
DO (mg/L)												
Minimum	5.28	5.23	5.0	5.92	6.47	6.7	6.58	6.59	6.73	6.58	6.53	6.58
TRC (mg/L)												
Average Monthly	0.23	0.31	0.50	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.05	< 0.10	< 0.10	0.10
TRC (mg/L)												
Instantaneous	0.74	4.44	4.00	4.40	0.40	0.44	0.44	0.40	0.44	0.00	0.47	0.44
Maximum	0.74	1.14	1.68	1.19	0.18	< 0.14	0.14	0.13	0.11	0.09	0.17	0.11
CBOD5 (mg/L)	. 0	. 0	. 0.0	0.0		. 0. 0	. 0. 0	. 0. 0	. 0. 0			
Average Monthly	< 2	< 2	< 2.0	2.0	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2.0	< 2
TSS (mg/L) Average Monthly	< 7	< 5	< 6.0	< 7	< 5	< 5.0	< 5.0	< 10	< 5.0	< 5	< 5	< 5.0
Fecal Coliform	< 1	< 5	< 0.0	< 1	< 5	< 5.0	< 5.0	< 10	< 5.0	< 5	< 5	< 5.0
(CFU/100 ml)												
Geometric Mean	< 10	< 10	< 10	< 10	34	< 12	< 10	< 10	< 10.0	< 10	< 10	< 10
Fecal Coliform	V 10	<u> </u>	<u> </u>	V 10	J-T	\ 1Z	<u> </u>	<u> </u>	< 10.0	<u> </u>	<u> </u>	V 10
(CFU/100 ml)												
Instantaneous												
Maximum	< 10	< 10	< 10	< 10	57	14	10	< 10	< 10	< 10	< 10	< 10
Total Nitrogen (mg/L)												
Average Monthly	< 26.16	< 26.11	28.51	24.46	28.12	< 36.66	< 25.76	< 25.62	< 29.8	< 38.43	48.9	< 59.6
Ammonia (mg/L)						_						
Average Monthly	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.45	< 0.1	< 0.1	< 0.1	< 0.1
Total Phosphorus												
(mg/L)												
Average Monthly	0.53	0.49	0.43	0.38	0.2	0.21	0.32	0.40	0.38	0.46	0.42	0.6

Development of Effluent Limitations										
Outfall No.	001		Design Flow (MGD)	.022						
Latitude	40° 42' 59.00)"	Longitude	-79° 54' 19.00"						
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-	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)
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)

Water Quality-Based Limitations

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

Parameter	Limit (mg/l)	SBC	Model
Total Residual Chlorine	0.22	Average Monthly	TRC_CALC Spreadsheet
Total Residual Chlorine	0.71	IMAX	TRC_CALC Spreadsheet
Ammonia Nitrogen			
(05/01 - 10/31)	2.0	Average Monthly	WQAM 6.3
Ammonia Nitrogen			
(11/01 - 04/30)	6.0	Average Monthly	WQAM 6.3

Comments: TRC limits are more stringent than the previous renewal due to using a revised drainage area from Streamstats, which resulted in a lower calculated Q_{7-10} streamflow. The previous renewals TRC limits were 0.98 mg/L Avg Monthly and 3.2 mg/L imax. No compliance schedule is being proposed for the new TRC limits upon reviewing eDMR data. Ammonia Nitrogen limits are remaining the same as the previous renewal to ensure continued protection of the stream and considering anti-backsliding. Attachment D contains the latest WQM 7.0 modeling for the parameters Dissolved Oxygen, Ammonia Nitrogen, and CBOD₅.

Best Professional Judgment (BPJ) Limitations

Comments: A Total Phosphorus limit of 2.0 mg/l is applied basin-wide to protect against nutrient enrichment in Conn. Creek (above Slippery Rock Creek). The outfall discharge point on Glade Run is currently impaired for nutrients and siltation, therefore Total Nitrogen monitoring will remain at 2/month. A D.O. limit of a minimum of 4.0 mg/l as well as 1/year monitoring for E. Coli is in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Discharges of Sewage.

Anti-Backsliding

Anti-backsliding is not applicable since the permit limits are not being relaxed.

Proposed Effluent Limitations and Monitoring Requirements

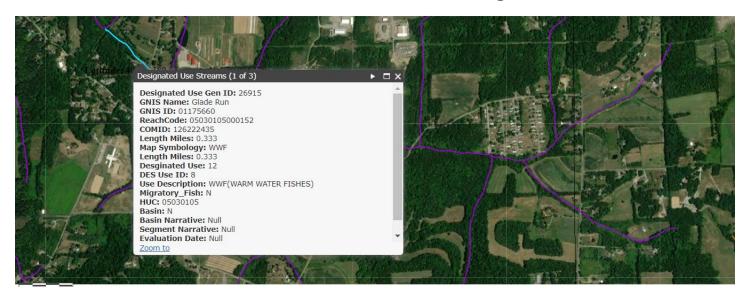
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

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

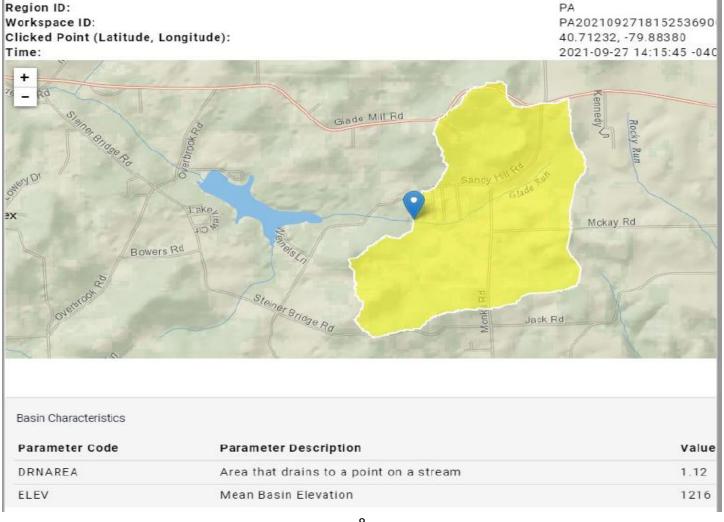
		Monitoring Re	quirements					
Parameter	Mass Units (lbs/day) (1)			Concentrations (mg/L)				Required
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/day	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.22	XXX	0.71	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	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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	8-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	6.0	XXX	12	2/month	8-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.0	XXX	4	2/month	8-Hr Composite
Total Phosphorus	XXX	XXX	XXX	2.0	XXX	4	2/month	8-Hr Composite

Compliance Sampling Location: Outfall 001 after disinfection.

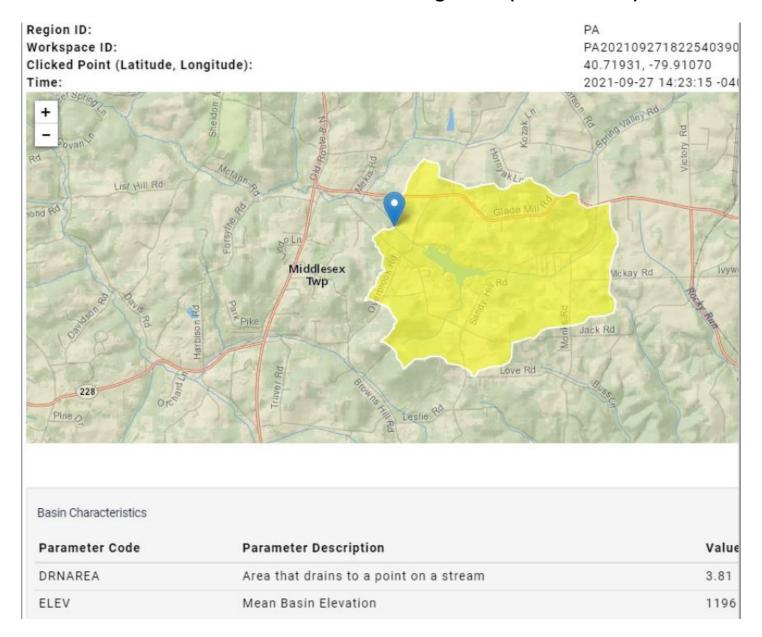
Attachment A – eMAP Stream Designation



Attachment B - Streamstats Drainage Area (Discharge Point)



Attachment C - Streamstats Drainage Area (End of Reach)



Attachment D - WQM 7.0 Modeling

WQM 7.0 Effluent Limits

		<u>n Code</u> 096		Stream Nam GLADE RUN	_		
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)
11.130	Sandy Hill MHP	PA0102717	0.000	CBOD5	25		
				NH3-N	3.91	7.82	
				Dissolved Oxygen			4

WQM 7.0 D.O.Simulation

	SWP Basin	Stream Code			Stream Nar	ne_	
	20C	35096			GLADE RU	JN	
_	<u>RMI</u>	Total Discharge	Flow (mgd) Ana	lysis Tempera	ature (°C)	Analysis pH
	11.130	0.02	2		22.930		7.161
	Reach Width (ft)	Reach De	pth (ft)		Reach WDF	Ratio	Reach Velocity (fps)
	4.761	0.34	2		13.930		0.051
<u> </u>	Reach CBOD5 (mg/L)	Reach Kc	(1/days)	R	each NH3-N	(mg/L)	Reach Kn (1/days)
	11.52	0.91	7		1.68		0.877
	Reach DO (mg/L)	Reach Kr (Kr Equation	<u>on</u>	Reach DO Goal (mg/L)
	6.074	22.94	41		Owens		5
Re	each Travel Time (days	<u>s)</u>	Subreach	Results			
	1.669	TravTime		NH3-N	D.O.		
		(days)	(mg/L)	(mg/L)	(mg/L)		
		0.167	9.67	1.45	7.54		
		0.334	8.12	1.25	7.54		
		0.501	6.81	1.08	7.54		
		0.668	5.72	0.93	7.54		
		0.835	4.80	0.81	7.54		
		1.002	4.03	0.70	7.54		
		1.169	3.38	0.60	7.54		
		1.335	2.84	0.52	7.54		
		1.502	2.38	0.45	7.54		
		1.669	2.00	0.39	7.54		

Input Data WQM 7.0

	SWP Basir			Stre	eam Name		RMI	Eleva (fi		Drainage Area (sq mi)		Witho	VS drawal gd)	Apply FC
	20C	350	096 GLADI	E RUN			11.13	30 11	130.00	1.1	12 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	Tributary p p	н	<u>Strear</u> Temp	m pH	
Condi	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.043	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	5.00	7.00	0.00	0.00	
					Di	scharge	Data						T	
			Name	Per	mit Number	Disc	Permitte Disc Flow (mgd)	Disc Flow	Res Fa	erve T ctor	Disc emp (°C)	Disc pH		
		Sand	y Hill MHP	PAG	102717	0.000	0.000	0.02	20	0.000	20.00	7.60		
					Pa	rameter	Data							
			F	Paramete	r Name				tream Conc	Fate Coef				
						(m	ng/L) (n	ng/L) (mg/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	0.10	0.00	0.70)			

Input Data WQM 7.0

	SWP Basin			Stre	eam Name		RMI	Eleva		Drainage Area (sq mi)	Slop (ft/ft	Witho	VS Irawal gd)	Apply FC
	20C	350	096 GLAD	E RUN			9.75	50 10	94.00	3.8	31 0.000	000	0.00	✓
					St	ream Da	ta							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	Tributary p		<u>Strear</u> Temp	<u>n</u> pH	
Condi	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.043	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	5.00	7.00	0.00	0.00	
					Di	scharge	Data						Ī	
			Name	Per	mit Number	Disc	Permitte Disc Flow (mgd)		Res Fa	erve T ctor	Disc emp (°C)	Disc pH		
						0.000	0.000	0.000	00 (0.000	25.00	7.00		
					Pa	arameter	Data							
				Paramete	r Name				ream Conc	Fate Coef				
				Sidmoto		(m	ng/L) (n	ng/L) (r	ng/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				

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		

WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code				Stream	<u>Name</u>			
		20C	3	5096				GLADE	RUN			
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											
11.130	0.05	0.00	0.05	.034	0.00494	.342	4.76	13.93	0.05	1.669	22.93	7.16
Q1-1	0 Flow											
11.130	0.03	0.00	0.03	.034	0.00494	NA	NA	NA	0.04	1.906	22.38	7.22
Q30-	10 Flow	,										
11.130	0.07	0.00	0.07	.034	0.00494	NA	NA	NA	0.06	1.500	23.29	7.13

WQM 7.0 Wasteload Allocations

	SWP Basin	Strea	m Code				Str	eam	Name			
	20C	3	5096				GL	ADE	RUN			
NH3-N	Acute Alloc	ation	s									
RMI	Discharge	Name	Baseline Criterion (mg/L)	Baselir WLA (mg/L		Multiple Criterio (mg/L	on	V	ltiple VLA ng/L)	Critical Reach	Percent Reduction	
11.13	30 Sandy Hill N	IHP	6.83	12	.93	6	.83		12.93	0	0	_
NH3-N	Chronic All	ocati	ons									_
RMI	Discharge N	lame	Baseline Criterion (mg/L)	Baseline WLA (mg/L)		Multiple Criterion (mg/L)	ı	Multi WI (mg	Α.	Critical Reach	Percent Reduction	
11.13	30 Sandy Hill N	1HP	1.4	3	.91		1.4		3.91	0	0	_
)issolv	ed Oxygen	Alloc	ations									_
			9	CBOD5		NH	3-N		Dissolv	ed Oxyger	Critical	Percent
RMI	Dischar	ge Nan	ne Baseli (mg/l			Baseline (mg/L)		ltiple g/L)	Baselin (mg/L)			Reduction
11.1	13 Sandy Hill M	IHP		25	25	3.91		3.91	4	4	0	0

Attachment E – Discharge pH

Sandy Hill Estat	tes MHP						
Middlesex Tow	nship, Butle	r County					
PA0102717			Discharge	рН			
Date	pH min	pH max		10^ -pH min	10^ -pH max	& pH max)	-Log (Ave pH)
Jul-21	6.07	7.31		8.51138E-07	4.8978E-08	4.5006E-07	6.3
Jul-20	7.8	8.31		1.58489E-08	4.8978E-09	1.0373E-08	8.0
Aug-20	8.12	8.4		7.58578E-09	3.9811E-09	5.7834E-09	8.2
Sep-20	7.36	8.19		4.36516E-08	6.4565E-09	2.5054E-08	7.6
Jul-19	7.21	7.69		6.16595E-08	2.0417E-08	4.1038E-08	7.4
Aug-19	7.29	7.79		5.12861E-08	1.6218E-08	3.3752E-08	7.5
Sep-19	7.28	7.6		5.24807E-08	2.5119E-08	3.88E-08	7.4
Jul-18	7.38	8.41		4.16869E-08	3.8905E-09	2.2789E-08	7.6
Aug-18	7.4	8.41		3.98107E-08	3.8905E-09	2.1851E-08	7.7
Sep-18	7.3	8.41		5.01187E-08	3.8905E-09	2.7005E-08	7.6
						Median:	7.6

Attachment F – TRC CALC Spreadsheet

TRC EVALU	IATION									
Input appropria	ate values in	A3:A9 and D3:D9								
0.04816	= Q stream	(cfs)	= CV Daily							
0.022	= Q discha	rge (MGD)	= CV Hourly							
30	= no. samp	les	= AFC_Partia	I Mix Factor						
0.3	= Chlorine	Demand of Stream	1	= CFC_Partia	I Mix Factor					
0	= Chlorine	Demand of Discharge	15	= AFC_Criter	ia Compliance Time (min)					
0.5	= BAT/BPJ	Value	720	= CFC_Criter	ia Compliance Time (min)					
0	= % Factor	of Safety (FOS)		=Decay Coef	ficient (K)					
Source	Reference	AFC Calculations		Reference	CFC Calculations					
TRC	1.3.2.iii	WLA afc =	0.470	1.3.2.iii	WLA cfc = 0.451					
PENTOXSD TRG		LTAMULT afc =	0.373	5.1c	LTAMULT cfc = 0.581					
PENTOXSD TRG	5.1b	LTA_afc=	0.175	5.1d	LTA_cfc = 0.262					
Source		Effluer	nt Limit Calcu	lations						
PENTOXSD TRG			AML MULT =							
PENTOXSD TRG	5.1g		_IMIT (mg/l) =		AFC					
		INST MAX I	_IMIT (mg/l) =	0.706						
WLA afc	WLA afc									
LTAMULT afc	EXP((0.5*LN	(cvh^2+1))-2.326*LN(cvh^2	+1)^0.5)							
LTA_afc	wla_afc*LTA	MULT_afc								
-										