

Southeast Regional Office CLEAN WATER PROGRAM

Application Type

Facility Type

Major / Minor

Major

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0026867

APS ID 1050892

Authorization ID 1374867

plicant Name	Abington Township	Facility Name	Abington Township STP
plicant Address	1176 Old York Road	Facility Address	1000 Fitzwatertown Road
	Abington, PA 19001-3731		Roslyn, PA 19001-4008
plicant Contact	George Wrigley	Facility Contact	George Wrigley
plicant Phone	(215) 884-8329	Facility Phone	(215) 884-8329
ent ID	87533	Site ID	445741
94 Load Status	Not Overloaded	Municipality	Upper Dublin Township
nnection Status	No Limitations	County	Montgomery
e Application Rec	eived November 1, 2021	EPA Waived?	No
e Application Acce	epted	If No, Reason	Major Facility

Summary of Review

The applicant requests renewal of an NPDES permit to discharge treated sewage effluent from Abington Township STP. The facility is located at 1000 Fitzwatertown Road in Upper Dublin Township, Montgomery County along the Sandy Run Creek on approximately 11 acres of land.

The facility serves the following Municipalities: Abington Township, Upper Dublin Township, Upper Moreland Township, Cheltenham Township and Springfield Township.

The facility design includes screening; grit removal; primary settling with rectangular settling tanks; activated sludge anaerobic, anoxic and aerobic zones with internal recycle; alum addition, secondary settling with circular clarifiers followed by cloth media disc filtration, UV disinfection, and post aeration. Sludge treatment includes dissolved Air Flotation (DAF) thickening of mixed primary and waste secondary sludges, anaerobic thermal sludge stabilization, centrifuge dewatering, and biosolids agricultural land application. Off - line equalization is provided for centrifuge centrate return and for wet weather excess flow diversion and temporary storage. There are no bypasses, nor overflows at this facility.

No upgrades are proposed at this time.

Hydrated Lime (pH control and alkalinity stabilization) and Aluminum Chloride (enhance final effluent for TSS and Phosphorus removal) are the wastewater chemicals reported in the application.

There are no industrial users connected to the system.

Based on the review of the eDMRs, discharge is in compliance with the effluent limitations in the existing permit most of the times.

Approve	Deny	Signatures	Date
X		Sara Abraham Sara Reji Abraham, E.I.T. / Project Manager	January 5, 2022
Х		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	07/05/2022

Summary of Review

The effluent requirements recommended for the draft permit are mostly similar to the existing permit requirements.

The following are the new requirements recommended for the draft permit:

- (i) Monitoring for E. Coli and Cyanide, Free.
- (ii) Effluent limit for Copper, Total

The existing WET limits are eliminated based on the new WET testing reports.

Influent monitoring requirements for CBOD5, TSS and BOD5 are continued in the draft permit to check compliance with the 85% removal requirement and Chapter 94 requirement.

Sludge use and disposal description and location(s): Biosolids are used in agricultural applications at various locations in Berks, Carbon, Lebanon, Lehigh, Monroe and Northampton Counties.

Act 14 Notifications:

Upper Dublin Township - October 13, 2021 Montgomery County - October 13, 2021

Permit Conditions:

- A. No Stormwater
- B. Acquire Necessary Property Rights
- C. Proper Sludge Disposal
- D. Chlorine Optimization
- E. Small Stream Discharge
- F. Operator Notification
- G. Fecal Coliform Reporting
- H. Solids Management
- I. WET Condition
- J. Stormwater Outfalls Requirement

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.

Outfall No. 001			Design Flow (MGD)	3.91		
Latitude 40° 7	' 47.25"		Longitude	-75° 9' 32.41"		
Quad Name Am	bler		Quad Code	1744		
Wastewater Descrip	otion:	Treated Sewage Effluent				
Receiving Waters	Sand	/ Run (TSF, MF)	Stream Code	0859		
NHD Com ID	25960	, ,	RMI	4.3		
Drainage Area	3.0		Yield (cfs/mi²)	0.035		
Q ₇₋₁₀ Flow (cfs)	0.105		Q ₇₋₁₀ Basis	Previous fact sheet*		
Elevation (ft)	209.7	,				
Watershed No.	3-F		Chapter 93 Class.	TSF, MF		
Assessment Status		Impaired				
Cause(s) of Impairr	nent	alterations, nutrients, pat	and (bod), cause unknown, flow hogens, siltation er than hydromodification, munici			
Source(s) of Impair	ment	source unknown, urban r		p p g ,		
TMDL Status		Final	Name Sandv Run.	Wissahickon TMDL		

* Low-Flow (Q7-10) and Harmonic Mean Flow

Based on the Wissahickon TMDL, the Q_{7-10} flow for this facility was calculated as 0.105-cfs. The Q_{7-10} flow for the Wissahickon watershed was calculated by subtracting average permitted discharge flows of all facilities in the watershed reported during the critical dry summer period of 2002 (combined discharge flow of 14.9 cfs), from the Q_{7-10} flow calculated at the mouth of Wissahickon Creek (16.3 cfs), resulting in a base-flow of 1.4-cfs for the entire watershed. A prorated Q_{7-10} flow of 0.105-cfs was allocated to Sandy Run at the Abington Township STP. The permitted discharge flow from Abington Township facility represents 98.3% of Sandy Run's flow at Q_{7-10} flow conditions. (Reference: Modeling Report for Wissahickon Creek, Pennsylvania Nutrient TMDL Development, October 2003, Figure 4-1)

The harmonic mean flow for this facility was calculated at 2.39-cfs. The harmonic mean flow is based on the flow calculated at the mouth of the Wissahickon, adjusted proportionally based on the relative size of the drainage areas: Harmonic Mean Flow (HMF) = $(3.0 \text{ mi}^2 / 64 \text{ mi}^2)$ * 51 cfs = 2.39 cfs

Dutfall No.	003	Design Flow (MGD)	0
₋atitude	40° 7' 47.31"	Longitude	-75° 9' 32.23"
Quad Name	Ambler	Quad Code	1744
Vastewater	Description: Stormwater		

Discharge, Red	ceiving Waters and Water Supply Information		
Outfall No.	002	Design Flow (MGD)	0
Latitude	40° 7' 47.31"	Longitude	-75° 9' 32.23"
Quad Name	Ambler	Quad Code	1744
Wastewater	Description: Stormwater		
Receiving W	aters Sandy Run (TSF, MF)	Stream Code	0859

	Tre	eatment Facility Summa	rv	
	116	satinent racinty Summa	ı y	
Treatment Facility Na	me: Abington Township ST	-р		
Troumont Lucinty True	mer / tomigton remiemp e i	•		
WQM Permit No.	Issuance Date			
4612401	08/06/2012			
4603404	05/20/2011			
	Degree of			Avg Annual
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)
Sewage	Secondary	Extended Aeration	Ultraviolet	3.91
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal
•			Aneaerobic sludge	
			stabilization &	
3.91	7729	Not Overloaded	Centrifuge dewatering	Land Application

Compliance History

DMR Data for Outfall 001 (from November 1, 2020 to October 31, 2021)

Parameter	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20
Flow (MGD)												
Average Monthly	3.014	3.221	2.862	2.981	3.124	2.919	3.216	4.145	4.244	3.624	3.731	3.153
Flow (MGD)												
Daily Maximum	4.274	6.027	3.626	3.691	3.538	3.513	3.991	6.701	5.673	4.393	6.181	3.965
pH (S.U.)												
Minimum	6.97	7.38	7.42	7.46	7.15	7.37	7.19	6.92	7.16	7.34	7.05	7.53
pH (S.U.)												
Maximum	7.90	7.97	7.99	7.91	7.84	7.85	7.67	7.73	7.55	7.67	7.79	7.92
DO (mg/L)												
Minimum	8.4	8.0	7.7	7.22	7.6	8.4	8.8	8.1	9.8	9.6	7.2	9.2
CBOD5 (lbs/day)												
Average Monthly	53	70	46	33	35	48	32	54	54	15	59	52
CBOD5 (lbs/day)												
Raw Sewage Influent												
 br/> Average												
Monthly	5319	5949	4870	5075	4936	4784	4863	5879	6336	4261	3770	4672
CBOD5 (lbs/day)												
Weekly Average	56	102	70	53	54	49	37	69	74	16	63	52.5
CBOD5 (mg/L)												
Average Monthly	2.3	2.8	2.5	1.39	2.0	2.0	2.0	2.2	2.1	< 2.0	< 2.0	< 2.0
CBOD5 (mg/L)												
Raw Sewage Influent												
 br/> Average												
Monthly	217	243	208	203	210	200	179	181	179	145	131	179
CBOD5 (mg/L)												
Weekly Average	2.95	3.85	3.00	2.55	2.05	2.00	3.0	2.5	2.2	< 2.0	2.2	< 2.0
BOD5 (lbs/day)												
Raw Sewage Influent												
 br/> Average	0050	4000	4770	4707	0000	- 444	0004	7000	0.455	0000	0004	
Monthly	8050	4892	4772	4797	6092	5144	6281	7260	9155	6988	6064	7577
BOD5 (mg/L)												
Raw Sewage Influent												
 Average	220	100	400	404	047	226	0.47	24.4	200	225	240	056
Monthly TCC (the detail)	330	192	198	184	217	226	247	214	308	225	219	256
TSS (lbs/day)	20	50	20	25	44	40	446	0.5	40	50	60	0.0
Average Monthly	30	50	30	25	41	43	116	85	43	59	68	86

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TOO (III - /-I)		1	I	1	1	1	1	ı		1	I	
TSS (lbs/day)												
Raw Sewage Influent												
 Average	4547	6406	E455	5000	5006	E440	5040	6262	E011	6600	6660	5300
Monthly TSS (lbs/day)	4517	6126	5155	5299	5836	5418	5949	6362	5911	6693	6663	5389
Weekly Average	47	60	44	25.5	82	59	175	238	63	100	119	155
TSS (mg/L)	47	00	44	25.5	02	59	175	236	03	100	119	155
Average Monthly	1.2	2.0	1.3	< 1.0	1.6	1.8	4.2	2.6	1.2	2.0	2.3	3.3
TSS (mg/L)	1.2	2.0	1.0	V 1.0	1.0	1.0	7.2	2.0	1.2	2.0	2.0	0.0
Raw Sewage Influent												
 br/> Average												
Monthly	184	248	221	210	244	226	219	197	167	227	233	208
TSS (mg/L)												
Weekly Average	2.0	2.0	2.0	1.0	3.0	2.5	6.5	7.0	1.5	3.5	4.0	6.0
Total Dissolved Solids												
(lbs/day)												
Average Monthly	12795	6662	14011	14096	14538	12756	13974	17699	29838	13480	15807	13645
Total Dissolved Solids												
(mg/L)												
Average Monthly	509	518	587	567	558	524	521	512	843	446	508	461
Fecal Coliform												
(CFU/100 ml)	20	44	20	_	44	00	0.5		- 7	40	4.5	0.4
Geometric Mean	22	11	32	5	11	29	25	8	57	18	15	24
Fecal Coliform												
(CFU/100 ml) Instantaneous												
Maximum	160	27	400	85	35	140	300	26	700	80	48	100
UV Transmittance (%)	100	21	400	00	33	140	300	20	700	00	40	100
Minimum	70.8	70.0	66.9	68.6	73.9	75.7	72.1	64.3	67.9	77.3	78.2	74.6
Nitrate-Nitrite (lbs/day)	7 0.0	7 0.0	00.0	00.0	7 0.0	7 0.7	72	0 1.0	01.10	77.0	70.2	7 110
Average Monthly	186	201	232	258	68	366	282	434	467	398	88	408
Nitrate-Nitrite (mg/L)												
Average Monthly	7.03	7.9	9.61	9.9	2.4	16.1	10.7	12.8	15.7	12.8	10.6	13.8
Total Nitrogen												
(lbs/day)												
Average Monthly	201	214	249	277	324	380	297	455	502	425	653	450
Total Nitrogen (mg/L)												
Average Monthly	7.59	8.4	10.3	10.6	11.6	16.7	11.3	13.4	16.9	13.7	21	15.2
Ammonia (lbs/day)												_
Average Monthly	12	2.0	4.2	3.6	39	10.6	2.7	3.3	8.3	2.9	15.7	2.9
Ammonia (mg/L)	0.40	0.00	0.40	0.45	4.50	0.44	0.40	0.40	0.00	0.40	0.50	
Average Monthly	0.49	0.08	0.18	0.15	1.50	0.44	< 0.10	0.10	0.20	< 0.10	0.56	0.11
TKN (lbs/day)	4.4	10.7	447	10	142	44.4	42.0	47	24	24.5	470	27.0
Average Monthly	14	12.7	14.7	16	143	11.4	13.2	17	34	24.5	173	37.3

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TKN (mg/L)	0.50	0.5	0.04	0.00	5 4	0.50	0.50	0.50	4.4.4	0.70	0.0	4.00
Average Monthly Total Phosphorus	0.53	0.5	0.61	0.62	5.1	0.50	0.50	0.50	1.14	0.79	6.3	1.26
(lbs/day)												
Average Monthly	34	34.6	37	35	30	32	50	40	42	52	29	30
Total Phosphorus	- 54	34.0	- 57	33	30	32	30	70	72	32	23	30
(mg/L)												
Average Monthly	1.40	1.4	1.6	1.4	1.2	1.36	1.81	1.2	1.3	1.8	1.0	1.1
Total Phosphorus	11.10		1.0			1.00	1101		1.0	1.0	1.0	
(mg/L)												
Daily Maximum	1.80	1.7	1.9	1.9	2.0	1.65	2.8	1.7	2.1	2.3	1.5	1.5
Orthophosphate												
(lbs/day)												
Average Monthly	33	34	34	32	27	29	46	34	36	41	23	21
Orthophosphate												
(mg/L)												
Average Monthly	1.34	1.38	1.47	1.29	1.10	1.21	1.67	1.07	1.10	1.42	0.80	0.80
Total Aluminum												
(mg/L)												
Average Monthly	0.04	0.11	0.04	0.035	0.07	0.11	0.08	0.11	0.16	0.11	< 0.10	0.48
Total Copper (mg/L)												
Average Monthly	0.014	0.012	0.009	0.011	0.004	0.014	0.010	0.009	0.013	0.014	0.008	0.011
Total Hardness (mg/L)	004	000	004	000	000	0.40	004	000	070	000	0.4.0	000
Average Monthly	204	200	224	228	236	248	224	228	272	236	212	208
Chronic WET -												
Ceriodaphnia Survival												
(TUc) Daily Maximum		1.00			GG			GG			GG	
Chronic WET -		1.00			GG			GG			GG	
Chronic WET - Ceriodaphnia												
Reproduction (TUc)												
Daily Maximum		1.00			GG			GG			GG	
Chronic WET -		1.00						- 55				
Pimephales Survival												
(TUc)												
Daily Maximum		1.00			GG			GG			GG	
Chronic WET -												
Pimephales Growth												
(TUc)												
Daily Maximum		1.00			GG			GG			GG	

DMR Data for Outfall 002 (from November 1, 2020 to October 31, 2021)

Parameter	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20
pH (S.U.)												
Minimum											6.52	
pH (S.U.)												
Maximum											6.52	
CBOD5 (mg/L)												
Annual Average											3	
CBOD5 (mg/L)												
Daily Maximum											3	
COD (mg/L)												
Annual Average											46	
COD (mg/L)												
Daily Maximum											46	
TSS (mg/L)												
Annual Average											56	
TSS (mg/L)												
Daily Maximum											56	
Oil and Grease (mg/L)												
Annual Average											< 5	
Oil and Grease (mg/L)												
Daily Maximum `											< 5	
Fecal Coliform												
(CFU/100 ml)												
Annual Average											840	
Fecal Coliform												
(CFU/100 ml)												
Daily Maximum											840	
TKN (mg/L)												
Annual Average											0.78	
TKN (mg/L)												
Daily Maximum											0.78	
Total Phosphorus												
(mg/L)												
Annual Average											0.27	
Total Phosphorus												
(mg/L)											0.07	
Daily Maximum	-										0.27	
Dissolved Iron (mg/L)											0.00	
Annual Average											0.02	
Dissolved Iron (mg/L)											0.00	
Daily Maximum											0.02	

DMR Data for Outfall 003 (from November 1, 2020 to October 31, 2021)

Parameter	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20
pH (S.U.)												
Minimum											6.55	
pH (S.U.)												
Maximum											6.55	
CBOD5 (mg/L)												
Annual Average											2	
CBOD5 (mg/L)												
Daily Maximum											2	
COD (mg/L)												
Annual Average											30	
COD (mg/L)												
Daily Maximum											30	
TSS (mg/L)												
Annual Average											31	
TSS (mg/L)												
Daily Maximum											31	
Oil and Grease (mg/L)												
Annual Average											< 5	
Oil and Grease (mg/L)												
Daily Maximum											< 5	
Fecal Coliform												
(CFU/100 ml)												
Annual Average											1500	
Fecal Coliform												
(CFU/100 ml)												
Daily Maximum											1500	
TKN (mg/L)												
Annual Average											0.52	
TKN (mg/L)												
Daily Maximum											0.52	
Total Phosphorus												
(mg/L)											0.40	
Annual Average											0.43	
Total Phosphorus												1
(mg/L)											0.40	1
Daily Maximum											0.43	
Dissolved Iron (mg/L)											. 0. 00	1
Annual Average											< 0.02	

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Dissolved Iron (mg/L)						
Daily Maximum					< 0.02	

Compliance History

Effluent Violations for Outfall 001, from: December 1, 2020 To: October 31, 2021

Elliablic Violationio for Gatian 66	.,	., ====				
Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
Ammonia	06/30/21	Ava Mo	39	lbs/day	23	lbs/day
Ammonio		Ava Ma			70	
Ammonia	06/30/21	Avg Mo	1.50	l mg/L	./2	l mg/L

Development of Effluent Limitations													
Outfall No.	001	Design Flow (MGD)	3.91										
Latitude	40° 7' 47.00"	Longitude	-75° 9' 32.00"										
Wastewater D	Description: Treated 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)

Water Quality-Based Limitations

TMDL Limits: CBOD₅, Ammonia-nitrogen (NH₃-N), Nitrite-Nitrate as N, Dissolved Oxygen, orthophosphate, phosphorus

The watershed was listed by the Department as impaired due to excessive nutrients and sediments (see the 305(b) and 303(d) reports). On October 9, 2003, the Environmental Protection Agency (EPA) issued the Wissahickon TMDL that includes wasteload allocations (WLAs) for five POTWs located in the watershed. The TMDL includes WLA limits for: CBOD₅, ammonia-nitrogen, nitrites-nitrates, orthophosphate, and dissolved oxygen.

The Department had not yet finalized in-stream criteria for total-phosphorus. Therefore, the EPA developed the TMDL using the in-stream dissolved oxygen standard for a trout stocking fishery (TSF) (e.g. 7.0 mg/l minimum) as the target standard. The Department anticipates establishing numerical nutrient criteria (e.g. phosphorus) sometime in the future. At such a time, the TMDL may be revised to incorporate the promulgated nutrient limits.

Table 4-3 of the Wissahickon TMDL includes the following effluent limits:

<u>Parameter</u>	<u>Summer</u>
CBOD ₅	7.5 mg/l
NH ₃ -N	0.72 mg/l
Nitrite-Nitrate	30.27 mg/l
Orthophosphate-P	1.85 mg/l

Dissolved Oxygen: 7.0 mg/l is continued in the permit based on the TMDL

<u>Nitrite-Nitrate</u>: The permit contains a monitoring requirement for Nitrite + Nitrate as Nitrogen, in lieu of the WLA listed in the Wissahickon Creek TMDL. The Environmental Protection Agency (EPA) determined that the nitrite-nitrate levels listed in the TMDL, in addition to protecting the dissolved oxygen standard, would also be protective of the nearest downstream

potable water supply. Based on Table 4-3 of the TMDL, the allowable nitrate-nitrate concentration for Abington is 30.27 mg/l and a 0% reduction is required. Based on the past one year of data, the average nitrite-nitrate effluent concentration from Abington Township was 10.78 mg/l. The monitoring requirement is continued in the permit to collect data for future analysis to determine compliance with the TMDL.

<u>Phosphorus</u>: In addition to the orthophosphate limit listed in the Wissahickon TMDL, the existing permit includes a monitoring requirement for total phosphorous. It is recommended to continue the Phosphorous Total monitoring requirement.

Total Nitrogen: Reporting for total nitrogen and TKN are in the existing permit and are recommended to continue.

<u>Seasonal Multipliers</u>: Consistent with the DEP guidance document "Determining Water Quality-Based Effluent Limits" (391-2000-003, May 9, 2003, Page 32, Table 8), seasonal multipliers are applied to effluent limits: $CBOD_5 = 2X$, $NH_3-N = 3X$, Phosphorus = 2X

Total Dissolved Solids (TDS)

The TDS concentrations listed in the permit application were 682 mg/l (average) and 792 mg/l (maximum). DRBC Regulation 3.10.4.D.2 includes TDS limit of 1,000 mg/l. The Department has a statewide osmotic pressure criterion of 50 milliosmoles per kilogram (approximately 1,500 mg/l TDS). The existing TDS limits: 1,000 mg/l (average monthly), and 1,500 mg/l (instantaneous maximum) are recommended to continue.

<u>E. Coli:</u> Monitoring is included in the draft permit according to the DEP SOP guidance (Chapter 92.a.61). This is a new requirement and is consistent with the requirements of other similar discharges in the area.

TRC / UV: Since chlorine is not used at the facility, no TRC limit is needed. UV monitoring is continued.

A "Reasonable Potential Analysis" determined the following parameters were candidates for limitations or monitoring requirements:

Parameter	Limit (mg/l)	SBC	Model
Total Aluminum	Report	Average Monthly	Toxic Management Spreadsheet (TMS)
Total Boron	Report	Average Monthly	TMS
Total Copper *	19.4	Average Monthly	TMS
Free Cyanide**	4.07	Average Monthly	TMS
Total Zinc	Report	Average Monthly	TMS

^{*} Existing permit has a copper Monitoring requirement. The maximum discharge concentration for Copper Total is reported as 14 ug/l in the eDMR and is used in the TMS model run. The WQBEL recommended by TMS is 19.4 ug/l. The review of the last year's eDMR data shows compliance with the proposed WQBEL 100 % of the time. The new Average Monthly effluent limit for Copper is included in the draft permit.

The existing permit has a Part C condition requiring the permittee to conduct a scientific study during the permit term to develop site specific criterion (SSC) for Copper. Based on the records the study was never conducted. Since the facility is able to meet the proposed limit, the permittee is not pursuing any site-specific studies at this time.

**For Free Cyanide, only 3 sample results are available, and they all are non-detect results using a QL of 4 ug/l. According to the permittee, there are no sources for this parameter in their discharge. A monthly monitoring requirement is included to collect more data to reevaluate the reasonable potential at the next permit renewal. We suggest conducting the sample analysis using the TQL recommended in the application instructions in the future.

See the below attached TMS report:

Discharge Information



	Discharge Characteristics														
Design Flow	Hardness (mg/l)*	pH (SU)*	P	artial Mix Fa	actors (PMF	5)	Complete Mix Times (mir								
(MGD)*	naruness (mg/l)	рн (30)	AFC	CFC	THH	CRL	Q ₇₋₁₀	Qh							
3.91	233	7.84													

					0 If lef	blank	0.5 lf le	ft blank	0	If left blan	k	1 If lef	blank
	Discharge Pollutant	Units	Ма	x Discharge Conc	Trib Conc	Stream Conc	Daily CV	Hourly CV	Strea m CV	Fate Coeff	FOS	Criteri a Mod	Chem Transl
	Total Dissolved Solids (PWS)	mg/L		792									
7	Chloride (PWS)	mg/L		152									
١Ē	Bromide	mg/L	<	1									
Group	Sulfate (PWS)	mg/L		42.8									
	Fluoride (PWS)	mg/L											
	Total Aluminum	μg/L		130									
1	Total Antimony	μg/L		0.4									
1	Total Arsenic	μg/L	<	1									
1	Total Barium	μg/L		27									
	Total Beryllium	μg/L	<	1									
1	Total Boron	μg/L		300									
1	Total Cadmium	μg/L	<	0.1									
1	Total Chromium (III)	μg/L		1.4									
1	Hexavalent Chromium	μg/L	<	0.25									
	Total Cobalt	μg/L	<	0.5									
1	Total Copper	μg/L		14									
2	Free Cyanide	μg/L	٧	4									
Group	Total Cyanide	μg/L	<	4									
ق	Dissolved Iron	μg/L		25									
	Total Iron	μg/L		30									
	Total Lead	μg/L	<	1									
1	Total Manganese	μg/L		22									
1	Total Mercury	μg/L	٧	0.2									
1	Total Nickel	μg/L		2.2									
1	Total Phenols (Phenolics) (PWS)	μg/L	٧	2									
	Total Selenium	μg/L	٧	1									
	Total Silver	μg/L	<	1									
	Total Thallium	μg/L	<	0.2									
	Total Zinc	μg/L		44									
	Total Molybdenum	μg/L	٧	3									

Acrolein	μg/L	<	2	\vdash					
Acrylamide	μg/L	<		\vdash					
Acrylonitrile	μg/L	<	2		П				
Benzene	μg/L	<	0.5		П				
Bromoform	μg/L	<	0.5	\Box	П				

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	Carbon Tetrachloride	μg/L	<	0.5	H	7				
	Chlorobenzene	μg/L		0.5	H					
	Chlorodibromomethane	μg/L	<	0.5						
	Chloroethane	μg/L	<	0.5	Ц					
	2-Chloroethyl Vinyl Ether	μg/L	<	5	\dashv	\rightarrow				
	Chloroform	μg/L	<	0.5	H	7				
	Dichlorobromomethane	μg/L	<	0.5	Ħ					
	1,1-Dichloroethane	μg/L	<	0.5						
e	1,2-Dichloroethane	μg/L	<	0.5	Ц	4				
9	1,1-Dichloroethylene	μg/L	<	0.5	\dashv					
Group	1,2-Dichloropropane	μg/L	<	0.5	H					
O	1,3-Dichloropropylene	μg/L	<	0.5	Ħ					
	1,4-Dioxane	μg/L	<	50	Ц	ļ				
	Ethylbenzene	μg/L	<	0.5	Ц					
	Methyl Bromide	μg/L	<	0.5	Н	7				
	Methyl Chloride	μg/L	<	0.5	H					
	Methylene Chloride	μg/L	<	0.5	T					
	1,1,2,2-Tetrachloroethane	μg/L	<	0.5	Ц					
	Tetrachloroethylene	μg/L	<	0.5	\exists					
	Toluene	μg/L	<	0.5	Н	7				
	1,2-trans-Dichloroethylene	μg/L	<	0.5	Ħ					
	1,1,1-Trichloroethane	μg/L	<	0.5						
	1,1,2-Trichloroethane	μg/L	<	0.5	Ц					
	Trichloroethylene	μg/L	<	0.5	\dashv					
	Vinyl Chloride	μg/L	<	0.5	H					
	2-Chlorophenol	μg/L	<	10	Ħ					
	2,4-Dichlorophenol	μg/L	<	10						
	2,4-Dimethylphenol	μg/L	<	10	Ц					
	4,6-Dinitro-o-Cresol	μg/L	<	10	Н					
40	2,4-Dinitrophenol	μg/L	<	10	Ħ					
Group 4	2-Nitrophenol	μg/L	<	10	T					
ĕ	4-Nitrophenol	μg/L	<	10	Ц					
	p-Chloro-m-Cresol	μg/L	<	10	H					
	Pentachlorophenol	μg/L	<	10	H					
	Phenol	μg/L	<	10	H					
	2,4,6-Trichlorophenol	μg/L	<	10	П					

Acenaphthene	µg/L	<	2.5					
Acenaphthylene	μg/L	<	2.5					
Anthracene	μg/L	<	2.5					
Benzidine	μg/L	<	50					
Benzo(a)Anthracene	µg/L	<	2.5					
Benzo(a)Pyrene	μg/L	<	2.5					
3,4-Benzofluoranthene	µg/L	<	2.5					
Benzo(ghi)Perylene	µg/L	<	2.5					
Benzo(k)Fluoranthene	μg/L	<	2.5					
Bis(2-Chloroethoxy)Methane	μg/L	<	5					
Bis(2-Chloroethyl)Ether	μg/L	<	5					
Bis(2-Chloroisopropyl)Ether	μg/L	<	5					
Bis(2-Ethylhexyl)Phthalate	μg/L	<	5					
4-Bromophenyl Phenyl Ether	μg/L	<	5					
Butyl Benzyl Phthalate	μg/L	<	5					
2-Chloronaphthalene	μg/L	<	5					
4-Chlorophenyl Phenyl Ether	μg/L	<	5					
Chrysene	μg/L	<	2.5					
Dibenzo(a,h)Anthrancene	μg/L	<	2.5					
1,2-Dichlorobenzene	μg/L	<	0.5					
1,3-Dichlorobenzene	μg/L	<	0.5					
1,4-Dichlorobenzene	μg/L	<	0.5					
3,3-Dichlorobenzidine	μg/L	<	5					
3,3-Dichlorobenzidine Diethyl Phthalate	μg/L	<	5					
Dimethyl Phthalate	μg/L	<	5					
Di-n-Butyl Phthalate	μg/L	<	5					
2,4-Dinitrotoluene	μg/L	<	5					

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2,6-Dinitrotoluene	μg/L	<	5				Н				\dashv	-
Di-n-Octyl Phthalate	μg/L	<	5			Г	Н				H	
1,2-Diphenylhydrazine	μg/L	<	5									
Fluoranthene	μg/L	<	2.5				Į				\Box	Ţ
Fluorene	μg/L	<	2.5				H				\dashv	7
Hexachlorobenzene	µg/L	<	5	Е	F	F	Н				H	7
Hexachlorobutadiene	μg/L	<	0.5	F		П	Ħ				Ħ	
Hexachlorocyclopentadiene	μg/L	<	5									
Hexachloroethane	μg/L	<	5	Е		F	Ц				П	Ŧ
Indeno(1,2,3-cd)Pyrene	μg/L	<	2.5	F	F	F	H				\Box	7
Isophorone	μg/L	<	5				Н				\Box	
Naphthalene	μg/L	<	0.5	Г	Г	Г	Ħ				Ħ	T
Nitrobenzene	μg/L	<	5				Ц				Ц	Ţ
n-Nitrosodimethylamine	μg/L	<	5			F	H				\Box	7
n-Nitrosodi-n-Propylamine	μg/L	<	5	Е	F	F	Н				H	7
n-Nitrosodiphenylamine	μg/L	<	5	F	П	F	Н				H	
Phenanthrene	μg/L	<	2.5				Ī					
Pyrene	μg/L	<	2.5									Ţ
1,2,4-Trichlorobenzene	µg/L	<	0.5				П				П	

_	Aldrin	um/l	<										
	alpha-BHC	μg/L	<			Н						H	\blacksquare
	beta-BHC	μg/L		Н	L	Н	_				L	Ļ	H
		μg/L	<	Н	H	H					H	H	H
	gamma-BHC	μg/L	<	Н		H	_					H	
	delta BHC	μg/L	٧										
	Chlordane	μg/L	<			Ħ							
	4,4-DDT	μg/L	<										
	4,4-DDE	μg/L	<	Ц		Щ						L	Щ
	4,4-DDD	μg/L	<	Н		Ш						L	Н
	Dieldrin	μg/L	٧	Н		H						H	
	alpha-Endosulfan	μg/L	٧			П						Е	
	beta-Endosulfan	µg/L	٧									П	\Box
90	Endosulfan Sulfate	μg/L	٧			Щ						L	
l ē	Endrin	μg/L	٧	П		H						F	\Box
Group (Endrin Aldehyde	μg/L	٧	Н	Ε	H					F	F	\Box
	Heptachlor	μg/L	٧	F	Ε	Ħ					F	F	Ħ
	Heptachlor Epoxide	µg/L	<	П		П					Г	Т	\Box
	PCB-1016	µg/L	<										
	PCB-1221	μg/L	<			Ħ							\Box
	PCB-1232	µg/L	<	Ħ		Ħ					F	H	Ħ
	PCB-1242	μg/L	<	Ħ	Η	Ħ					F	F	Ħ
	PCB-1248	μg/L	<	П		П					Г		
	PCB-1254	μg/L	<										
	PCB-1260	μg/L	<	Н		H					F	F	\Box
	PCBs, Total	μg/L	<	Н		H					F	F	H
	Toxaphene	μg/L	٧	Ħ	Π	Ħ					F	Т	Ħ
	2,3,7,8-TCDD	ng/L	<										
	Gross Alpha	pCi/L				П							П
4	Total Beta	pCi/L	<	Н		H					F	F	H
-	Radium 226/228	pCi/L	<	F		Ħ					F	F	Ħ
Group	Total Strontium	μg/L	٧	Ħ	Т	Ħ					Г	Т	Ħ
O	Total Uranium	µg/L	<										
	Osmotic Pressure	mOs/kg				\square						F	\Box
		Ĭ		Н		H					Г		
				Ħ		Ħ					Г		
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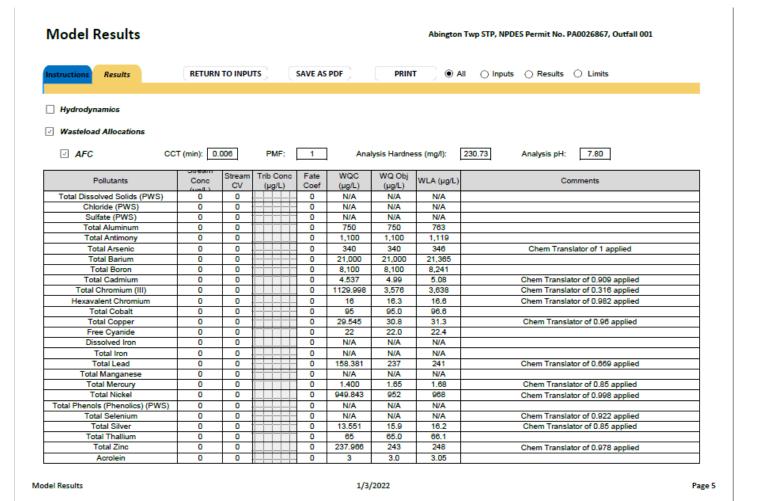
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Stream / Surface Water Information

Page 4

Stream / Surface Water Information Abington Twp STP, NPDES Permit No. PA0026867, Outfall 001 Instructions Discharge No. Reaches to Model: 1 Statewide Criteria Receiving Surface Water Name: O Great Lakes Criteria ORSANCO Criteria Elevation PWS Withdrawal Apply Fish Location Stream Code DA (mi²)* Slope (ft/ft) (ft)* (MGD) Criteria* Point of Discharge 000859 Yes End of Reach 1 000859 1.204 156.42 5.57 Yes Q 7-10 LFY Flow (cfs) W/D Width Depth Velocit Tributary Stream Analysis Location RMI Time Stream Tributary Hardness pH (cfs/mi²)* Ratio (ft) (ft) y (fps) Hardness pH Hardness* pH' Point of Discharge 4.3 0.1 0.105 100 0.195 End of Reach 1 1.204 0.1 Q_h LFY Flow (cfs) Stream W/D Depth (ft) Tributary Analysis Width Velocit RMI Location Time (cfs/mi²) Ratio (ft) y (fps) Hardness pH Hardness Hardness pH Stream Tributary pН Point of Discharge 4.3 End of Reach 1 1.204

1/3/2022



Acrylonitrile	0	0		0	650	650	661	
Benzene	0	0		0	640	640	651	
Bromoform	0	0		0	1,800	1,800	1,831	
Carbon Tetrachloride	0	0		0	2,800	2,800	2,849	
Chlorobenzene	0	0		0	1,200	1,200	1,221	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	18,000	18,000	18,312	
Chloroform	0	0		0	1,900	1,900	1,933	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	15,000	15,000	15,260	
1,1-Dichloroethylene	0	0		0	7,500	7,500	7,630	
1,2-Dichloropropane	0	0		0	11,000	11,000	11,191	
1,3-Dichloropropylene	0	0		0	310	310	315	
Ethylbenzene	0	0		0	2,900	2,900	2,950	
Methyl Bromide	0	0		0	550	550	560	
Methyl Chloride	0	0		0	28,000	28,000	28,486	
Methylene Chloride	0	0		0	12,000	12,000	12,208	
1,1,2,2-Tetrachloroethane	0	0		0	1,000	1,000	1,017	
Tetrachloroethylene	0	0		0	700	700	712	
Toluene	0	0		0	1.700	1.700	1.730	
1,2-trans-Dichloroethylene	0	0		0	6.800	6.800	6,918	
1,1,1-Trichloroethane	0	0		0	3.000	3.000	3.052	
1,1,2-Trichloroethane	0	0		0	3,400	3.400	3,459	
Trichloroethylene	0	0		0	2.300	2.300	2.340	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	560	560	570	
2.4-Dichlorophenol	0	0		0	1,700	1,700	1,730	
2,4-Dimethylphenol	0	0		0	660	660	671	
4.6-Dinitro-o-Cresol	0	0	 	0	80	80.0	81.4	
2.4-Dinitrophenol	0	0		0	660	660	671	
2-Nitrophenol	0	0		0	8.000	8.000	8,139	
4-Nitrophenol	0	0		0	2,300	2,300	2,340	
p-Chloro-m-Cresol	0	0		0	160	160	163	
Pentachlorophenol	0	0		0	19.457	19.5	19.8	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	460	460	468	
Acenaphthene	0	0		0	83	83.0	84.4	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	300	300	305	
Benzo(a)Anthracene	0	0		0	0.5	0.5	0.51	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	30.000	30.000	30.521	
Bis(2-Chloroethyl)Ether Bis(2-Chloroisopropyl)Ether	0	0		0	30,000 N/A	30,000 N/A	30,521 N/A	
Bis(2-Chloroisopropyi)Ether Bis(2-Ethylhexyl)Phthalate	0	0		0	4,500	4,500	4,578	
4-Bromophenyl Phenyl Ether	0	0		0	270	270	4,578 275	
Butyl Benzyl Phthalate	0	0		0	140	140	142	
butyi berizyi Fritrialate	U	U		U	140	140	142	

2-Chloronaphthalene	0	0	0	N/A	N/A	N/A	
Chrysene	0	0	0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0	0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0	0	820	820	834	
1,3-Dichlorobenzene	0	0	0	350	350	356	
1,4-Dichlorobenzene	0	0	0	730	730	743	
3,3-Dichlorobenzidine	0	0	0	N/A	N/A	N/A	
Diethyl Phthalate	0	0	0	4,000	4,000	4,069	
Dimethyl Phthalate	0	0	0	2,500	2,500	2,543	
Di-n-Butyl Phthalate	0	0	0	110	110	112	
2,4-Dinitrotoluene	0	0	0	1,600	1,600	1,628	
2,6-Dinitrotoluene	0	0	0	990	990	1,007	
1,2-Diphenylhydrazine	0	0	0	15	15.0	15.3	
Fluoranthene	0	0	0	200	200	203	
Fluorene	0	0	0	N/A	N/A	N/A	
Hexachlorobenzene	0	0	0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0	0	10	10.0	10.2	
Hexachlorocyclopentadiene	0	0	0	5	5.0	5.09	
Hexachloroethane	0	0	0	60	60.0	61.0	
Indeno(1,2,3-cd)Pyrene	0	0	0	N/A	N/A	N/A	
Isophorone	0	0	0	10,000	10,000	10,174	
Naphthalene	0	0	0	140	140	142	
Nitrobenzene	0	0	0	4,000	4,000	4,069	
n-Nitrosodimethylamine	0	0	0	17,000	17,000	17,295	
n-Nitrosodi-n-Propylamine	0	0	0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0	0	300	300	305	
Phenanthrene	0	0	0	5	5.0	5.09	
Pyrene	0	0	0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0	0	130	130	132	

✓ CFC CCT (min	: 0.006	PMF:	1	Analysis Hardness (mg/l):	230.73	Analysis pH:	7.80]
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Pollutants	Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	(ug/L)	0	(Pg-=/	0	N/A	N/A	N/A	
, ,				_				
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	220	220	224	
Total Arsenic	0	0		0	150	150	153	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	4,171	
Total Boron	0	0		0	1,600	1,600	1,628	
Total Cadmium	0	0		0	0.439	0.5	0.51	Chem Translator of 0.874 applied
Total Chromium (III)	0	0		0	146.990	171	174	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	10.6	Chem Translator of 0.962 applied
Total Cobalt	0	0		0	19	19.0	19.3	
Total Copper	0	0		0	18.297	19.1	19.4	Chem Translator of 0.96 applied

Free Cyanide	0	0	0	5.2	5.2	5.29	
Dissolved Iron	0	0	0	N/A	N/A	N/A	
Total Iron	0	0	0	1,500	1,500	1,526	WQC = 30 day average; PMF = 1
Total Lead	0	0	0	6.172	9.22	9.38	Chem Translator of 0.669 applied
Total Manganese	0	0	0	N/A	N/A	N/A	
Total Mercury	0	0	0	0.770	0.91	0.92	Chem Translator of 0.85 applied
Total Nickel	0	0	0	105.498	106	108	Chem Translator of 0.997 applied
Total Phenols (Phenolics) (PWS)	0	0	0	N/A	N/A	N/A	
Total Selenium	0	0	0	4.600	4.99	5.08	Chem Translator of 0.922 applied
Total Silver	0	0	0	N/A	N/A	N/A	Chem Translator of 1 applied
Total Thallium	0	0	0	13	13.0	13.2	
Total Zinc	0	0	0	239.912	243	248	Chem Translator of 0.988 applied
Acrolein	0	0	0	3	3.0	3.05	
Acrylonitrile	0	0	0	130	130	132	
Benzene	0	0	0	130	130	132	
Bromoform	0	0	0	370	370	376	
Carbon Tetrachloride	0	0	0	560	560	570	
Chlorobenzene	0	0	0	240	240	244	
Chlorodibromomethane	0	0	0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0	0	3,500	3,500	3,561	
Chloroform	0	0	0	390	390	397	
Dichlorobromomethane	0	0	0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0	0	3,100	3,100	3,154	
1,1-Dichloroethylene	0	0	0	1,500	1,500	1,526	
1,2-Dichloropropane	0	0	0	2,200	2,200	2,238	
1,3-Dichloropropylene	0	0	0	61	61.0	62.1	
Ethylbenzene	0	0	0	580	580	590	
Methyl Bromide	0	0	0	110	110	112	
Methyl Chloride	0	0	0	5,500	5,500	5,595	
Methylene Chloride	0	0	0	2,400	2,400	2,442	
1,1,2,2-Tetrachloroethane	0	0	0	210	210	214	
Tetrachloroethylene	0	0	0	140	140	142	
Toluene	0	0	0	330	330	336	
1,2-trans-Dichloroethylene	0	0	0	1,400	1,400	1,424	
1,1,1-Trichloroethane	0	0	0	610	610	621	
1,1,2-Trichloroethane	0	0	0	680	680	692	
Trichloroethylene	0	0	0	450	450	458	
Vinyl Chloride	0	0	0	N/A	N/A	N/A	
2-Chlorophenol	0	0	0	110	110	112	
2,4-Dichlorophenol	0	0	0	340	340	346	
2,4-Dimethylphenol	0	0	0	130	130	132	
4,6-Dinitro-o-Cresol	0	0	0	16	16.0	16.3	
2,4-Dinitrophenol	0	0	0	130	130	132	
2-Nitrophenol	0	0	0	1,600	1,600	1,628	
4-Nitrophenol	0	0	0	470	470	478	

p-Chloro-m-Cresol							
	0	0	0	500	500	509	
Pentachlorophenol	0	0	0	14.928	14.9	15.2	
Phenol	0	0	0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0	0	91	91.0	92.6	
Acenaphthene	0	0	0	17	17.0	17.3	
Anthracene	0	0	0	N/A	N/A	N/A	
Benzidine	0	0	0	59	59.0	60.0	
Benzo(a)Anthracene	0	0	0	0.1	0.1	0.1	
Benzo(a)Pyrene	0	0	0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0	0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0	0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0	0	6,000	6,000	6,104	
Bis(2-Chloroisopropyl)Ether	0	0	0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0	0	910	910	926	
4-Bromophenyl Phenyl Ether	0	0	0	54	54.0	54.9	
Butyl Benzyl Phthalate	0	0	0	35	35.0	35.6	
2-Chloronaphthalene	0	0	0	N/A	N/A	N/A	
Chrysene	0	0	0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0	0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0	0	160	160	163	
1,3-Dichlorobenzene	0	0	0	69	69.0	70.2	
1,4-Dichlorobenzene	0	0	0	150	150	153	
3,3-Dichlorobenzidine	0	0	0	N/A	N/A	N/A	
Diethyl Phthalate	0	0	0	800	800	814	
Dimethyl Phthalate	0	0	0	500	500	509	
Di-n-Butyl Phthalate	0	0	0	21	21.0	21.4	
2,4-Dinitrotoluene	0	0	0	320	320	326	
2,6-Dinitrotoluene	0	0	0	200	200	203	
1,2-Diphenylhydrazine	0	0	0	3	3.0	3.05	
Fluoranthene	0	0	0	40	40.0	40.7	
Fluorene	0	0	0	N/A	N/A	N/A	
Hexachlorobenzene	0	0	0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0	0	2	2.0	2.03	
Hexachlorocyclopentadiene	0	0	0	1	1.0	1.02	
Hexachloroethane	0	0	0	12	12.0	12.2	
Indeno(1,2,3-cd)Pyrene	0	0	0	N/A	N/A	N/A	
Isophorone	0	0	0	2,100	2,100	2,136	
Naphthalene	0	0	0	43	43.0	43.7	
Nitrobenzene	0	0	0	810	810	824	
n-Nitrosodimethylamine	0	0	0	3,400	3,400	3,459	
n-Nitrosodi-n-Propylamine	0	0	0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0	0	59	59.0	60.0	
Phenanthrene	0	0	0	1	1.0	1.02	
Pyrene	0	0	0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0	0	26	26.0	26.5	

	Sueam							
Pollutants	Conc (ug/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	500,000	500,000	N/A	
Chloride (PWS)	0	0		0	250,000	250,000	N/A	
Sulfate (PWS)	0	0 -		0	250,000	250,000	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	5.6	5.6	5.7	
Total Arsenic	0	0		0	10	10.0	10.2	
Total Barium	0	0		0	2,400	2,400	2,442	
Total Boron	0	0		0	3,100	3,100	3,154	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0 .		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Free Cyanide	0	0 .		0	4	4.0	4.07	
Dissolved Iron	0	0		0	300	300	305	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Manganese	0	0		0	1,000	1,000	1,017	
Total Mercury	0	0		0	0.050	0.05	0.051	
Total Nickel	0	0		0	610	610	621	
otal Phenols (Phenolics) (PWS)	0	0		0	5	5.0	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Silver	0	0		0	N/A	N/A	N/A	
Total Thallium	0	0		0	0.24	0.24	0.24	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	3	3.0	3.05	
Acrylonitrile	0	0		0	N/A	N/A	N/A	
Benzene	0	0		0	N/A	N/A	N/A	
Bromoform	0	0		0	N/A	N/A	N/A	
Carbon Tetrachloride	0	0		0	N/A	N/A	N/A	
Chlorobenzene	0	0		0	100	100.0	102	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0 .		0	N/A	N/A	N/A	
Chloroform	0	0		0	N/A	N/A	N/A	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	N/A	N/A	N/A	
1,1-Dichloroethylene	0	0		0	33	33.0	33.6	
1,2-Dichloropropane	0	0		0	N/A	N/A	N/A	
1,3-Dichloropropylene	0	0		0	N/A	N/A	N/A	
Ethylbenzene	0	0		0	68	68.0	69.2	

Methyl Bromide	0	0		0	100	100.0	102	
Methyl Chloride	0	0		0	N/A	N/A	N/A	
Methylene Chloride	0	0		0	N/A	N/A	N/A	
1,1,2,2-Tetrachloroethane	0	0	 	0	N/A	N/A	N/A	
Tetrachloroethylene	0	0		0	N/A	N/A	N/A	
Toluene	0	0		0	57	57.0	58.0	
1,2-trans-Dichloroethylene	0	0	 	0	100	100.0	102	
1,1,1-Trichloroethane	0	0		0	10.000	10.000	10,174	
1.1.2-Trichloroethane	0	0		0	N/A	N/A	N/A	
Trichloroethylene	0	0		0	N/A	N/A	N/A	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	30	30.0	30.5	
2,4-Dichlorophenol	0	0		0	10	10.0	10.2	
2,4-Dimethylphenol	0	0		0	100	100.0	102	
4,6-Dinitro-o-Cresol	0	0		0	2	2.0	2.03	
2,4-Dinitrophenol	0	0		0	10	10.0	10.2	
2-Nitrophenol	0	0		0	N/A	N/A	N/A	
4-Nitrophenol	0	0		0	N/A	N/A	N/A	
p-Chloro-m-Cresol	0	0		0	N/A	N/A	N/A	
Pentachlorophenol	0	0		0	N/A	N/A	N/A	
Phenol	0	0		0	4,000	4,000	4,069	
2,4,6-Trichlorophenol	0	0		0	N/A	N/A	N/A	
Acenaphthene	0	0		0	70	70.0	71.2	
Anthracene	0	0		0	300	300	305	
Benzidine	0	0		0	N/A	N/A	N/A	
Benzo(a)Anthracene	0	0		0	N/A	N/A	N/A	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroisopropyl)Ether	0	0		0	200	200	203	
Bis(2-Ethylhexyl)Phthalate	0	0		0	N/A	N/A	N/A	
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0		0	0.1	0.1	0.1	
2-Chloronaphthalene	0	0		0	800	800	814	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	1,000	1,000	1,017	
1,3-Dichlorobenzene	0	0		0	7	7.0	7.12	
1.4-Dichlorobenzene	0	0		0	300	300	305	
3.3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	600	600	610	
Dimethyl Phthalate	0	0		0	2,000	2.000	2.035	
Di-n-Butyl Phthalate	0	0		0	20	20.0	20.3	
2.4-Dinitrotoluene	0	0		0	N/A	N/A	N/A	
2,4-Dillidoloiderie	U	U		U	DVA	TW/A	DVA	

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Model Results

2,6-Dinitrotoluene	0	0		0	N/A	N/A	N/A			
1,2-Diphenylhydrazine	0	0		0	N/A	N/A	N/A			
Fluoranthene	0	0		0	20	20.0	20.3			
Fluorene	0	0		0	50	50.0	50.9			
Hexachlorobenzene	0	0		0	N/A	N/A	N/A			
Hexachlorobutadiene	0	0		0	N/A	N/A	N/A			
Hexachlorocyclopentadiene	0	0		0	4	4.0	4.07			
Hexachloroethane	0	0		0	N/A	N/A	N/A			
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A			
Isophorone	0	0		0	34	34.0	34.6			
Naphthalene	0	0		0	N/A	N/A	N/A			
Nitrobenzene	0	0		0	10	10.0	10.2			
n-Nitrosodimethylamine	0	0		0	N/A	N/A	N/A			
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A			
n-Nitrosodiphenylamine	0	0		0	N/A	N/A	N/A			
Phenanthrene	0	0		0	N/A	N/A	N/A			
Pyrene	0	0		0	20	20.0	20.3			
1,2,4-Trichlorobenzene	0	0		0	0.07	0.07	0.071			
☑ CRL CC	T (min): 0.3						ss (mg/l):			
Pollutants	Sueam	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj	WLA (µg/L)	Co	mments	
	Stream	Stream			WQC			Co	mments	
Pollutants	Conc (ug/L)	Stream CV		Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Co	mments	
Pollutants Total Dissolved Solids (PWS)	Conc (uall.)	Stream CV 0		Coef 0	WQC (µg/L) N/A	WQ Obj (µg/L) N/A	WLA (µg/L)	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS)	Conc (uall) 0	Stream CV 0		Coef 0 0	WQC (µg/L) N/A N/A	WQ Obj (µg/L) N/A N/A	WLA (µg/L) N/A N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS)	Conc (ug/l) 0 0	Stream CV 0 0		Coef 0 0	WQC (µg/L) N/A N/A	WQ Obj (µg/L) N/A N/A	WLA (µg/L) N/A N/A N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum	Conc (unil) 0 0 0	Stream CV 0 0		0 0 0 0	WQC (µg/L) N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A	WLA (µg/L) N/A N/A N/A N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony	Conc (unit) 0 0 0 0	Stream CV 0 0 0		0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A	WLA (µg/L) N/A N/A N/A N/A N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic	One (uall) 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A	WLA (µg/L) N/A N/A N/A N/A N/A N/A N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium	Stream Conc (unit)	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A N/A N/A N/A N/A N/A N/A N/	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron	Stream Cond	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium	Sueam Cone (unit) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III)	O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium	O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium Total Cobalt	One (wall) 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium Total Cobper	Stream Cone (wall) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium Total Cobalt Total Copper Free Cyanide	Sueam Conc (100H) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium Total Copper Free Cyanide Dissolved Iron	Stream Conc (sml) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium Total Copper Free Cyanide Dissolved Iron Total Iron	O O O O O O O O O O O O O O O O O O O	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium Total Copper Free Cyanide Dissolved Iron Total Iron Total Iron Total Iron Total Iron	Stream Conc (wall) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium Total Copper Free Cyanide Dissolved Iron Total Iron Total Lead Total Lead Total Manganese	Stream Cone (wall) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	
Pollutants Total Dissolved Solids (PWS) Chloride (PWS) Sulfate (PWS) Total Aluminum Total Antimony Total Arsenic Total Barium Total Boron Total Cadmium Total Chromium (III) Hexavalent Chromium Total Cobalt Total Copper Free Cyanide Dissolved Iron Total Iron Total Iron Total Lead Total Manganese Total Mercury	Stream Conc (unil) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stream CV 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Coef 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WQC (µg/L) N/A	WQ Obj (µg/L) N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	WLA (µg/L) N/A	Co	mments	

1/3/2022

Total Silver	0	0	0	N/A	N/A	N/A	
Total Thallium	0	0	0	N/A	N/A	N/A	
Total Zinc	0	0	0	N/A	N/A	N/A	
Acrolein	0	0	0	N/A	N/A	N/A	
Acrylonitrile	0	0	0	0.06	0.06	0.07	
Benzene	0	0	0	0.58	0.58	0.68	
Bromoform	0	0	0	7	7.0	8.2	
Carbon Tetrachloride	0	0	0	0.4	0.4	0.47	
Chlorobenzene	0	0	0	N/A	N/A	N/A	
Chlorodibromomethane	0	0	0	0.8	0.8	0.94	
2-Chloroethyl Vinyl Ether	0	0	0	N/A	N/A	N/A	
Chloroform	0	0	0	5.7	5.7	6.68	
Dichlorobromomethane	0	0	0	0.95	0.95	1.11	
1,2-Dichloroethane	0	0	0	9.9	9.9	11.6	
1,1-Dichloroethylene	0	0	0	N/A	N/A	N/A	
1,2-Dichloropropane	0	0	0	0.9	0.9	1.05	
1,3-Dichloropropylene	0	0	0	0.27	0.27	0.32	
Ethylbenzene	0	0	0	N/A	N/A	N/A	
Methyl Bromide	0	0	0	N/A	N/A	N/A	
Methyl Chloride	0	0	0	N/A	N/A	N/A	
Methylene Chloride	0	0	0	20	20.0	23.4	
1,1,2,2-Tetrachloroethane	0	0	0	0.2	0.2	0.23	
Tetrachloroethylene	0	0	0	10	10.0	11.7	
Toluene	0	0	0	N/A	N/A	N/A	
1,2-trans-Dichloroethylene	0	0	0	N/A	N/A	N/A	
1,1,1-Trichloroethane	0	0	0	N/A	N/A	N/A	
1,1,2-Trichloroethane	0	0	0	0.55	0.55	0.64	
Trichloroethylene	0	0	0	0.6	0.6	0.7	
Vinyl Chloride	0	0	0	0.02	0.02	0.023	
2-Chlorophenol	0	0	0	N/A	N/A	N/A	
2,4-Dichlorophenol	0	0	0	N/A	N/A	N/A	
2,4-Dimethylphenol	0	0	0	N/A	N/A	N/A	
4,6-Dinitro-o-Cresol	0	0	0	N/A	N/A	N/A	
2,4-Dinitrophenol	0	0	0	N/A	N/A	N/A	
2-Nitrophenol	0	0	0	N/A	N/A	N/A	
4-Nitrophenol	0	0	0	N/A	N/A	N/A	
p-Chloro-m-Cresol	0	0	0	N/A	N/A	N/A	
Pentachlorophenol	0	0	0	0.030	0.03	0.035	
Phenol	0	0	0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0	0	1.5	1.5	1.76	
Acenaphthene	0	0	0	N/A	N/A	N/A	
Anthracene	0	0	0	N/A	N/A	N/A	
Benzidine	0	0	0	0.0001	0.0001	0.0001	
Benzo(a)Anthracene	0	0	0	0.0001	0.001	0.001	
Benzo(a)Pyrene	0	0	0	0.0001	0.0001	0.0001	
Delizo(a)F yielle	U	U	U	0.0001	0.0001	0.0001	

0	0		0	0.001	0.001	0.001	
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			0				
0	0		0	0.03	0.03	0.035	
0	0		0	N/A	N/A	N/A	
0	0		0	N/A	N/A	N/A	
0	0		0	0.00008	0.00008	0.00009	
0	0		0	0.01	0.01	0.012	
0	0		0	N/A	N/A	N/A	
0	0		0	0.1	0.1	0.12	
0	0		0	0.001	0.001	0.001	
0	0		0	N/A	N/A	N/A	
0	0		0	N/A	N/A	N/A	
0	0		0	N/A	N/A	N/A	
0	0		0	0.0007	0.0007	0.0008	
0	0		0	0.005	0.005	0.006	
0	0		0	3.3	3.3	3.87	
0	0		0	N/A	N/A	N/A	
0	0		0	N/A	N/A	N/A	
0	0		0	N/A	N/A	N/A	
	0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0.01 0 0 0 0 0.03 0 0 0 0 0 0.03 0 0 0 0 0 0 0.03 0 0 0 0 0 0 0.32 0 0 0 0 0 0 0 0.32 0 0 0 0 0 0 0 0.42 0 0 0 0 0 0 0.001 0 0 0 0 0 0 0 0.05 0 0 0 0 0 0 0.05 0 0 0 0 0 0 0.05 0 0 0 0 0 0 0.05 0 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05 0 0 0 0 0 0.05	0 0 0 0.01 0.01 0 0 0 0.03 0.03 0 0 0 0.03 0.03 0 0 0 0.032 0.32 0 0 0 0.04 N/A N/A 0 0 0 0 N/A N/A 0 0 0 0 N/A N/A 0 0 0 0.001 0.001 0.001 0 0 0 0.001 0.001 0.0001 0 0 0 0.001 0.0001 0.0001 0 0 0 0.001 0.0001 0.0001 0 0 0 0.001 0.0001 0.0001 0.0001 0 0 0 0.04 0.001 0.001 0.0001 0.0001 0.0001 0.0001 0.0001 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000<	0 0 0 0.01 0.01 0.012 0 0 0 0.03 0.03 0.035 0 0 0 0.03 0.035 0.035 0 0 0 0 0.32 0.32 0.37 0 0 0 0 0.04 N/A N/A N/A 0 0 0 0 N/A N/A N/A N/A 0 0 0 0 N/A N/A N/A N/A 0 0 0 0 0.12 0.12 0.14 0.00

☑ Recommended WQBELs & Monitoring Requirements

No. Samples/Month: 4



	Mass	Limits		Concentra	tion Limits				
Pollutants	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units	Governing WQBEL	WQBEL Basis	Comments
Total Aluminum	Report	Report	Report	Report	Report	μg/L	750	AFC	Discharge Conc > 10% WQBEL (no RP)

Total Boron	Report	Report	Report	Report	Report	μg/L	1,628	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Copper	0.63	0.99	19.4	30.3	48.5	μg/L	19.4	CFC	Discharge Conc ≥ 50% WQBEL (RP)
Free Cyanide	0.13	0.21	4.07	6.35	10.2	μg/L	4.07	THH	Discharge Conc ≥ 50% WQBEL (RP)
Total Zinc	Report	Report	Report	Report	Report	μg/L	243	AFC	Discharge Conc > 10% WQBEL (no RP)

☑ Other Pollutants without Limits or Monitoring

The following pollutants do not require effluent limits or monitoring based on water quality because reasonable potential to exceed water quality criteria was not determined and the discharge concentration was less than thresholds for monitoring, or the pollutant was not detected and a sufficiently sensitive analytical method was used (e.g., <= Target QL).

Pollutants	Governing WQBEL	Units	Comments
Total Dissolved Solids (PWS)	N/A	N/A	PWS Not Applicable
Chloride (PWS)	N/A	N/A	PWS Not Applicable
Bromide	N/A	N/A	No WQS
Sulfate (PWS)	N/A	N/A	PWS Not Applicable
Total Antimony	5.7	μg/L	Discharge Conc ≤ 10% WQBEL
Total Arsenic	N/A	N/A	Discharge Conc < TQL
Total Barium	2,442	μg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Cadmium	0.51	μg/L	Discharge Conc < TQL
Total Chromium (III)	174	μg/L	Discharge Conc ≤ 10% WQBEL
Hexavalent Chromium	10.6	μg/L	Discharge Conc < TQL
Total Cobalt	19.3	μg/L	Discharge Conc < TQL
Total Cyanide	N/A	N/A	No WQS
Dissolved Iron	305	μg/L	Discharge Conc ≤ 10% WQBEL
Total Iron	1,526	μg/L	Discharge Conc ≤ 10% WQBEL
Total Lead	9.38	μg/L	Discharge Conc < TQL
Total Manganese	1,017	μg/L	Discharge Conc ≤ 10% WQBEL
Total Mercury	0.051	μg/L	Discharge Conc < TQL
Total Nickel	108	μg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)		μg/L	Discharge Conc < TQL
Total Selenium	5.08	μg/L	Discharge Conc < TQL
Total Silver	15.9	μg/L	Discharge Conc ≤ 10% WQBEL
Total Thallium	0.24	μg/L	Discharge Conc < TQL
Total Molybdenum	N/A	N/A	No WQS
Acrolein	3.0	μg/L	Discharge Conc < TQL
Acrylonitrile	0.07	μg/L	Discharge Conc < TQL
Benzene	0.68	μg/L	Discharge Conc < TQL
Bromoform	8.2	μg/L	Discharge Conc < TQL
Carbon Tetrachloride	0.47	μg/L	Discharge Conc < TQL
Chlorobenzene	102	μg/L	Discharge Conc ≤ 25% WQBEL

Chlorodibromomethane	0.94	μg/L	Discharge Conc < TQL
Chloroethane	N/A	N/A	No WQS
2-Chloroethyl Vinyl Ether	3,561	μg/L	Discharge Conc < TQL
Chloroform	6.68		Discharge Cond < TQL
Dichlorobromomethane	1.11	μg/L	Discharge Cond < TQL Discharge Cond < TQL
1.1-Dichloroethane	1.11 N/A	μg/L N/A	No WQS
.,	11.6		
1,2-Dichloroethane		μg/L	Discharge Conc < TQL
1,1-Dichloroethylene	33.6	μg/L	Discharge Conc < TQL
1,2-Dichloropropane	1.05	μg/L	Discharge Conc < TQL
1,3-Dichloropropylene	0.32	μg/L	Discharge Conc < TQL
1,4-Dioxane	N/A	N/A	No WQS
Ethylbenzene	69.2	μg/L	Discharge Conc < TQL
Methyl Bromide	102	μg/L	Discharge Conc < TQL
Methyl Chloride	5,595	μg/L	Discharge Conc < TQL
Methylene Chloride	23.4	μg/L	Discharge Conc < TQL
1,1,2,2-Tetrachloroethane	0.23	μg/L	Discharge Conc < TQL
Tetrachloroethylene	11.7	μg/L	Discharge Conc < TQL
Toluene	58.0	μg/L	Discharge Conc < TQL
1,2-trans-Dichloroethylene	102	μg/L	Discharge Conc < TQL
1,1,1-Trichloroethane	621	μg/L	Discharge Conc < TQL
1,1,2-Trichloroethane	0.64	μg/L	Discharge Conc < TQL
Trichloroethylene	0.7	μg/L	Discharge Conc < TQL
Vinyl Chloride	0.023	μg/L	Discharge Conc < TQL
2-Chlorophenol	30.5	μg/L	Discharge Conc < TQL
2,4-Dichlorophenol	10.2	μg/L	Discharge Conc < TQL
2,4-Dimethylphenol	102	μg/L	Discharge Conc < TQL
4,6-Dinitro-o-Cresol	2.03	μg/L	Discharge Conc < TQL
2,4-Dinitrophenol	10.2	μg/L	Discharge Conc < TQL
2-Nitrophenol	1,628	μg/L	Discharge Conc < TQL
4-Nitrophenol	478	μg/L	Discharge Conc < TQL
p-Chloro-m-Cresol	160	μg/L	Discharge Conc < TQL
Pentachlorophenol	0.035	μg/L	Discharge Conc < TQL
Phenol	4.069	μg/L	Discharge Conc < TQL
2,4,6-Trichlorophenol	1.76	μg/L	Discharge Conc < TQL
Acenaphthene	17.3	μg/L	Discharge Conc < TQL
Acenaphthylene	N/A	N/A	No WQS
Anthracene	305	μg/L	Discharge Conc < TQL
Benzidine	0.0001	µg/L	Discharge Conc < TQL
Benzo(a)Anthracene	0.001	μg/L	Discharge Conc < TQL
Benzo(a)Pyrene	0.0001	μg/L	Discharge Conc < TQL
3.4-Benzofluoranthene	0.001	μg/L	Discharge Conc < TQL
Benzo(ghi)Perylene	N/A	N/A	No WQS
Benzo(k)Fluoranthene	0.012	µg/L	Discharge Conc < TQL
Bis(2-Chloroethoxy)Methane	N/A	N/A	No WQS
Bis(2-Chloroethyl)Ether	0.035	μg/L	Discharge Conc < TQL
5/3(2-Onloroetry)/Ether	0.035	pg/L	Discharge Cond < TQL

Bis(2-Chloroisopropyl)Ether	203	μg/L	Discharge Conc < TQL
Bis(2-Ethylhexyl)Phthalate	0.37	μg/L	Discharge Conc < TQL
4-Bromophenyl Phenyl Ether	54.9	μg/L	Discharge Conc < TQL
Butyl Benzyl Phthalate	0.1	μg/L	Discharge Conc < TQL
2-Chloronaphthalene	814	μg/L	Discharge Conc < TQL
4-Chlorophenyl Phenyl Ether	N/A	N/A	No WQS
Chrysene	0.14	μg/L	Discharge Conc < TQL
Dibenzo(a,h)Anthrancene	0.0001	μg/L	Discharge Conc < TQL
1,2-Dichlorobenzene	163	μg/L	Discharge Conc < TQL
1,3-Dichlorobenzene	7.12	μg/L	Discharge Conc < TQL
1,4-Dichlorobenzene	153	μg/L	Discharge Conc < TQL
3,3-Dichlorobenzidine	0.059	μg/L	Discharge Conc < TQL
Diethyl Phthalate	610	μg/L	Discharge Conc < TQL
Dimethyl Phthalate	509	μg/L	Discharge Conc < TQL
Di-n-Butyl Phthalate	20.3	μg/L	Discharge Conc < TQL
2,4-Dinitrotoluene	0.059	μg/L	Discharge Conc < TQL
2,6-Dinitrotoluene	0.059	μg/L	Discharge Conc < TQL
Di-n-Octyl Phthalate	N/A	N/A	No WQS
1,2-Diphenylhydrazine	0.035	μg/L	Discharge Conc < TQL
Fluoranthene	20.3	μg/L	Discharge Conc < TQL
Fluorene	50.9	μg/L	Discharge Conc < TQL
Hexachlorobenzene	0.00009	μg/L	Discharge Conc < TQL
Hexachlorobutadiene	0.012	μg/L	Discharge Conc < TQL
Hexachlorocyclopentadiene	1.02	μg/L	Discharge Conc < TQL
Hexachloroethane	0.12	μg/L	Discharge Conc < TQL
Indeno(1,2,3-cd)Pyrene	0.001	μg/L	Discharge Conc < TQL
Isophorone	34.6	μg/L	Discharge Conc < TQL
Naphthalene	43.7	μg/L	Discharge Conc < TQL
Nitrobenzene	10.2	μg/L	Discharge Conc < TQL
n-Nitrosodimethylamine	0.0008	μg/L	Discharge Conc < TQL
n-Nitrosodi-n-Propylamine	0.006	μg/L	Discharge Conc < TQL
n-Nitrosodiphenylamine	3.87	μg/L	Discharge Conc < TQL
Phenanthrene	1.02	µg/L	Discharge Conc < TQL
Pyrene	20.3	μg/L	Discharge Conc < TQL
1,2,4-Trichlorobenzene	0.071	μg/L	Discharge Conc < TQL

Model Results 1/3/2022 Page 17

Anti-Backsliding

The current WET limits are eliminated based on the review of the submitted WET reports. New monitoring data constitutes new information and RP is not demonstrated and hence the anti-backsliding exception applies here.

Development of Effluent Limitations								
Outfall No.002Latitude40° 7' 47.00"Wastewater Description:Stormwater	Design Flow (MGD) 0 -75° 9' 32.00"							
Outfall No. 003 Latitude 40° 7' 47.00" Wastewater Description: Stormwater	Design Flow (MGD) 0 Longitude -75° 9' 32.00"							

NPDES Permit No. PA0026867

The existing stormwater parameters; pH, CBOD5, COD, TSS, Oil and Grease, Fecal Coliform, TKN, Total Phosphorus, and Iron Dissolved are recommended to continue in the permit. For TSS and COD, benchmark values are incorporated in Part C condition in the draft permit.

NPDES Permit Fact Sheet

NPDES Permit No. PA0026867 Abington Township STP

			Whol	e Effluent T	oxicity (WE	ET)			
For Outfa	all 001, 🗌 A	acute ⊠ Chroni	i c WET Testi	ng was com	pleted:				
	Quarterly thr Quarterly thr	nit renewal applications oughout the permition oughout the permition all testing throughout the permition of	nit term. nit term and a	a TIE/TRE w	as conducte	ed.			
		sed for the tests or analysis of the r			49%, and 25	5%. The Ta	rget Instrear	n Waste Con	centrati
	Γ		WET St	ummary and	l Evaluation			1	
	Pe De Q	acility Name ermit No. esign Flow (MGD) ₇₋₁₀ Flow (cfs) MF _a MF _c	Abington Twp PA0026867 3.91 0.105 1	STP					
	Ir				Test Result	s (Pass/Fail)			
				Test Date	Test Date	Test Date	Test Date		
	I⊢	Species	Endpoint	12/10/18	5/14/19	8/8/20	7/27/21		
		Pimephales	Growth	Pass	Pass	Pass	Pass		
	I -			1	Toot Decult	o (Bood/Fail)			
				Test Date	Test Date	s (Pass/Fail) Test Date	Test Date		
		Species	Endpoint	12/10/18	5/14/19	8/8/20	7/27/21		
		Pimephales	Survival	Pass	Pass	Pass	Pass		
	1-								
					Test Result	s (Pass/Fail)			
				Test Date	Test Date	Test Date	Test Date		
	-	Species	Endpoint	12/10/18	5/13/19	8/17/20	7/26/21		
		Ceriodaphnia	Survival	Pass	Pass	Pass	Pass	1	
	I				Toet Besult	s (Pass/Fail)		1	
				Test Date	Test Date	Test Date	Test Date		
		Species	Endpoint	12/10/18	5/13/19	8/17/20	7/26/21		
	- 1 ⊢	Ceriodaphnia	Reproduction		Pass	Pass	Pass		
	<u>Ре</u> Те ТІ	easonable Potentia ermit Recommenda est Type IWC ilution Series	chronic 98		% Effluent				
	Pe	ermit Limit ermit Limit Species	None	. 5, 55, 100	Emdent				

NPDES Permit Fact Sheet

NPDES Permit No. PA0026867 Abington Township STP

Based on the review of the WET test reports, test of significant toxicity (TST) was performed using DEP's WET Analysis Spreadsheet. There is no reasonable potential, and no WET limits are recommended. The standard WET condition based on the DEP WET SOP is incorporated in Part C of the draft permit.

Proposed Effluent Limitations and Monitoring Requirements

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

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) (1)		Concentrati	ons (mg/L)		Minimum ⁽²⁾	Required
raiametei	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	7.0 Inst Min	XXX	XXX	XXX	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	489	734	XXX	15	22.5	30	2/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	245	376	XXX	7.5	11.25	15	2/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	1/month	24-Hr Composite
Total Suspended Solids	978	1467	XXX	30	45	60	2/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/week	24-Hr Composite
Total Dissolved Solids	32609	XXX	XXX	1000	XXX	1500	1/week	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/month	Grab

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

			Effluent L	imitations			Monitoring Re	quirements
D	Mass Units	(lbs/day) (1)		Concentrat	Minimum (2)	Required		
Parameter	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
Ultraviolet light transmittance	-			•			,	
(%)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured
								24-Hr
Nitrate-Nitrite as N	Report	XXX	XXX	Report	XXX	XXX	1/month	Composite
								24-Hr
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	Composite
Ammonia-Nitrogen								24-Hr
Nov 1 - Apr 30	70	XXX	XXX	2.16	XXX	4.32	2/week	Composite
Ammonia-Nitrogen								24-Hr
May 1 - Oct 31	23	XXX	XXX	0.72	XXX	1.44	2/week	Composite
T . 112 11 11 11	ъ .	V0/0/	NAA4	<u> </u>	2007	2007	4./	24-Hr
Total Kjeldahl Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	Composite
Tatal Discoulance	D	V/V/	V/V/	D	Report	V/V/	0/	24-Hr
Total Phosphorus	Report	XXX	XXX	Report	Daily Max	XXX	2/week	Composite
Outhanhaanhata	60	VVV	VVV	4.05	VVV	0.7	2/week	24-Hr
Orthophosphate	60	XXX	XXX	1.85	XXX	3.7	Z/week	Composite 24-Hr
Aluminum, Total	Report	xxx	xxx	Report	xxx	xxx	1/month	Composite
Aluminum, Total	Кероп	^^^	^^^	Керип		^^^	1/111011111	24-Hr
Boron, Total	Report	xxx	XXX	Report	xxx	XXX	1/month	Composite
Boron, Total	report	0.99	XXX	ТСРОП	0.030	XXX	1/11101101	24-Hr
Copper, Total	0.63	Daily Max	XXX	0.019	Daily Max	0.049	1/week	Composite
Copper, Total	0.00	Daily Max	7000	0.010	Bany Max	0.010	17 WOOK	Composito
Cyanide, Free	Report	XXX	XXX	Report	XXX	XXX	1/month	Grab
	•			•				24-Hr
Zinc, Total	Report	XXX	XXX	Report	XXX	XXX	1/month	Composite
								24-Hr
Hardness, Total (as CaCO3)	XXX	XXX	XXX	Report	XXX	XXX	1/month	Composite
Toxicity, Chronic -				Report				24-Hr
Ceriodaphnia Survival (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	See Permit	Composite
Toxicity, Chronic -								
Ceriodaphnia Reproduction				Report				24-Hr
(TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	See Permit	Composite
Toxicity, Chronic - Pimephales				Report				24-Hr
Survival (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	See Permit	Composite

NPDES Permit No. PA0026867

NPDES Permit Fact Sheet Abington Township STP

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter		Monitoring Requirements						
	Mass Units	(lbs/day) (1)		Concentrat	Minimum (2)	Required		
Farameter	Average	Weekly	Daily	Average	Weekly	Instant.	Measurement	Sample
	Monthly	Average	Minimum	Monthly	Average	Maximum	Frequency	Type
Toxicity, Chronic - Pimephales				Report				24-Hr
Growth (TUc)	XXX	XXX	XXX	Daily Max	XXX	XXX	See Permit	Composite

Proposed Effluent Limitations and Monitoring Requirements

Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.

		Effluent Limitations								
Parameter	Mass Units	(lbs/day) ⁽¹⁾		Concentrat	Minimum (2)	Required				
r drumotor	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		
Total Kjeldahl Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		
Iron, Dissolved	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab		

Proposed Effluent Limitations and Monitoring Requirements

Outfall 003, Effective Period: Permit Effective Date through Permit Expiration Date.

		Monitoring Red	quirements					
Parameter	Mass Units (lbs/day) (1)			Concentrat	Minimum ⁽²⁾	Required		
i didiliotoi	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Kjeldahl Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Iron, Dissolved	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab