pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0012769**
Facility Type	**Industrial**	APS ID	**963063**
Major / Minor	**Major**	Authorization ID	**1219802**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**Rohm & Haas Chemicals, LLC.**	Facility Name	**Rohm & Haas Bristol Facility**
Applicant Address	2900 River Road	Facility Address	200 Route 413
	Croydon, PA 19021		Bristol, PA 19007
Applicant Contact	Brandon Shimp	Facility Contact	Brandon Shimp
Applicant Phone	(215) 785-8558	Facility Phone	(215) 785-8212
Client ID	88361	Site ID	241741
SIC Code	2821	Municipality	Bristol Township
SIC Description	Manufacturing - Plastics Materials and Resins	County	Bucks
Date Application Received	February 26, 2018	EPA Waived?	No
Date Application Accepted		If No, Reason	DEP Discretion

Purpose of Application: Permit Renewal.

Summary of Review

The applicant requests renewal of NPDES permit to discharge treated process wastewater, non-contact cooling water, steam condensate and storm water runoff from Rohm & Hass Bristol complex facility located in the Bristol Township, Bucks County. Facility uses several outfalls to discharge the wastewater either to Otter Creek or Hog Run, which ultimately discharges to the Delaware River Estuary Zone 2.

Rohm & Haas is worldwide specialty chemical manufacturing company, with a plant in Bristol Township, PA known as Rohm & Haas Company, Bristol Complex. The facility is an 800-acre industrial complex with several plants that process organic chemicals and produce polymer-based products. A research facility is also located at the site. The facility has the following SIC codes:

SIC Code 2821 - Plastic Materials, Synthetic Resins, Non-Volcanizing Elastomers
SIC Code 2869 - Industrial Organic Chemicals

The Effluent Limitations Guidelines (ELGs) for the process wastewater generated from these SIC codes are found in Federal Regulations under C.F.R. 40, Part 414, Subpart A, under Sections 414.11a(1) and (5). The Subpart I, Section 414.91 for Toxic Pollutant effluent limitations and standards for direct discharge point sources that use end-of pipe Biological Treatment and Section 414.41 for conventional pollutants. The provisions of this part are applicable to wastewater discharges from all establishments or portion of the establishments that manufacturer the Organic Chemicals, Plastics, and Synthetic Fibers (OCPSF).

The facility also discharges storm water runoff and non-contact cooling water from this facility through various outfalls. The details on non-contact cooling water and treated process wastewater are as follows: Details on all stormwater outfalls are included in the later part of the review.

Approve	Deny	Signatures	Date
		Ketan Thaker / Project Manager	
		Pravin C. Patel, P.E. / Environmental Engineer Manager	

Summary of Review

Outfall No.	Latitude	Longitude	Sources of Wastewater	Receiving Stream
001	40º05'39"	74º51'42"	Stormwater from Lake Idaline	Otter Creek
003	40º05'42"	74º51'56"	NCCW & Filter Backwash & SWRO	Otter Creek
008	40º05'44"	74º52'10"	NCCW & Heating Condensate & SWRO	Otter Creek
009	40º05'06"	74º53'04"	Treated Process Wastewater	Hog Run

Outfall 001:

Outfall 001, originally used for stormwater and Non-contact cooling water (NCCW), had been plugged since April 2008; stormwater associated with was routed to Lake Schmidt. The NCCW was routed to the WWTP. There was no discharge from this Outfall 001 and was removed from the permit. As a part of NPDES permit renewal, Rohm & Haas requested to reopen Outfall 001 and add it to NPDES permit for discharge of stormwater to Otter Creek. Rohm & Haas intends to use Outfall 001 for maintaining Lake Idaline water elevation due to stormwater runoff.

Outfall 003:

Outfall 003 used to receive 5,000 GPD of non-contact cooling water (NCCW) from Powerhouse Buildings 42 and 74, 0.2 MGD of NCCW from Building 34 (Polytribo), 10,000 GPD of NCCW from Buildings 28, 35, 36, 36A and 43, 11,000 GPD of sand filter backwash, 7,500GPD of water softener reject water and storm water runoff (roof drain) from the Buildings 28, 34, 35, 36, 39, 43, 51, 65, 67, 94, 120, 120A, 120B, 150, 34, and 114. The total flow discharged through this outfall will be 0.527 MGD. Some of the rainwater and other water pass through Spill protection Observation Pit prior to discharge through outfall

There are no substantial changes in the quality and quantities of wastewater being discharged at this outfall. Therefore, all existing limits are carried over in this renewal. Effluent limit for Temperature has been revised to 91 ºF from 110 ºF based on DRBC Docket No. D-1989-002-4.

The proposed effluent limits for Outfall 003 are as follows:

Parameter	Discharge limitations (Concentrations mg/l)			Criteria
	Average Month	Daily Max.	Inst. Max	
Temperature (ºF)		91 ºF		DRBC
pH	Within limits of 6 to 9 std units at all times			DRBC
Zinc	Monitor/Report	Monitor/Report		DRBC

Outfall 008:

Outfall 008 used to receive 75,000 GPD of cooling water blow down from Buildings 107, 0.35 MGD of NCCW from Buildings 132 and 133 (Atoglas plant), 0.1831 MGD of NCCW from research Buildings 64, 105, 117, 123, 134, 137, 144, 147 and storm water runoff (roof drain) from the Buildings 64, 105, 117, 123, 134, 137, 144, 147, 132, 133, 66, 107, 109, 26, 27, and 130. The total flow discharged through this outfall will be 0.6912 MGD. Some the rainwater and other water pass through Spill protection Observation Pit prior to discharge through outfall. Some chemical additives are being used in the cooling tower for algae control. The amount of chemicals used will be so small and calculated effluent concentration at approved (desired) usage rate will not exceed the LC 50 concentration. Outfall 008, originally docketed for 0.529 mgd for stormwater and NCCW, discharges 82,080 GPD of NCCW from Arkema and varying amount from stormwater flow.There are no substantial changes in the quality of wastewater being discharged at this outfall. Therefore, existing limits for pH are carried over in this renewal and effluent limits for Total Dissolved Solids, Total suspended Solids and Temperature have been revised for this outfall based on DRBC Docket No. D-1989-002-4.

Summary of Review

The proposed effluent limits are as follows:

Parameter	Discharge limitations (concentrations mg/l)			
	Average Month	Daily Max.	Inst. Max	*Criteria*
Temperature (ºF)		91 ºF		DRBC
pH	Within limits of 6 to 9 STD units at all times			DRBC
Zinc	Monitor/Report	Monitor/Report		DRBC
Total Dissolved Solids	1000	2000	2500	DRBC
Total Suspended Solids	30	45 av. wkly	75	DRBC

Outfall 009:

This outfall receives treated process wastewater from IWWTP serving Polymers (Bristol) plant, Atoglas plant, Research area, Croydon Plant, Hauled wastewater from research facility at Spring House and hauled wastewater from other Rohm & Haas within and outside state plants. Hauled wastewater with the similar waste characteristics will be accepted.

The name of the facilities, approximate flow volume along with their waste characteristics is are follows:

1. Highway Transport (formerly Trimac Tank wagon Cleaning) Facility:

This facility is located within the Bristol site, handles shipping of the Rohm & Haas products. The wastewater derived from cleaning of the Rohm & Haas container is treated at this facility. The wastewater is currently trucked from the Trimac tank wagon cleaning rack to the WWTP head works and treated at the plant. The plant is also permitted to accept only clean out residues from non-Rohm & Haas material from Trimac site. Each non-Rohm & Haas material will be reviewed for its regulatory status, treatability, and impact to the operation of WWTP by Rohm & Haas personal prior to acceptance at the plant. Unacceptable waste stream will be containerized and disposed off-site by the Triamc. The approximately wastewater will be treated at the plant from the Trimac facility will be 50,000 GPD. The list of materials carried by Trimac and the manufacturer and point of origin for the material carried by Triamc is included in the application.

2. Off-site material from other Rohm & Haas facility:

There are numerous Rohm & Haas facilities in the USA and one in Canada that generate waste streams that are treatable at the Bristol site WWTP. Only waste streams that are nonhazardous, Organic Chemicals, Plastics, and Synthetic Fibers (OCPSF) regulated, or are similar to the waste streams from processes at the Bristol site from these facilities are accepted at this site for treatment. The list of all facilities is included in the application.

3. Non-Rohm & Haas Wastestream:

Rohm & Haas is not permitted to accept non-Rohm & Haas wastestream at their IWWTP unless is approved prior to acceptance on case-by-case basis. Rohm & Haas shall provide detail characteristic of waste, including origin, volume frequency, and treatability at the plant. The Department will not grant approval to accept one-time waste, rather waste streams that are sufficient volume, uniform in characteristic, and longer duration will be reviewed and approved if appropriate.

The following criteria will be used during review and upon approval of non-Rohm & Haas waste at their IWWTP:

1. Wastestream database:
   Summary information on each waste stream shall be maintained, to help ensure that information concerning the source, waste characteristics, regulatory status, and general information.

Summary of Review

2. Waste Screening:

   Rohm & Haas shall obtain analytical and profile data from the generator on an as needed basis prior to and upon acceptance of waste in the WWTP. The waste shall be examined from regulatory classification, source chemical characteristic, and handling characteristic for each material under consideration for treatment.

3. Analytical Testing:

   Rohm & Haas shall also analyze the incoming waste and periodically to confirm and enhance the information provided by the generator of the material can be treated effectively by WWTP processes and to determine maximum allowable concentration of the material in the treatment system.

4. Process Monitoring:

   Rohm & Haas shall continuously monitor the process and enhance if necessary to improve the biological treatment process.

Treatment Facility: The existing Industrial Waste Treatment Plant (IWTP) is designed to treat up to 3.7 mgd and consists of a headworks and a tailworks operation (biological treatment system). The headworks operation consists of a splitter box, three equalizations tanks, and emergency spill tank. The tailworks and biological treatment facilities include two combined circular aeration tank/clarifier units, a splitter box, an aerobic digester, a blower building, a central building, a soda ash silo, a ferric coagulant storage tank, a Parshall flume, and associated pumps.

Technology-Based Limitations:

See Attached Pollution Report:

PA0012767PR1.doc PA0012769PR3.doc PA0012769PR4.doc PA0012769PR2.doc PA0012769TechLimits.pdf

DRBC Docket:

DRBC Docket.pdf

Effluent limits for Outfall 009:

The effluent limitation for Outfall 009 were calculated using BAT, WQBEL, and DRBC requirements. The more stringent limits have been placed in the permit. Detailed calculations of these limitations are found in the protection report. In this renewal I-max limitations are added for all parameter. I-max limitations are for compliance use only. I-max limitations are calculated using standard multiplier of 2.5 x average monthly or 1.25 times maximum daily (only when I-max is less than or equal to maximum daily values). Mass limits for metals (chromium, copper, lead, nickel, zinc) and total cyanide are calculated using entire process wastewater flow of 1.716 MGD as all process wastewaters are both metal-bearing and cyanide-bearing wastes. Effluent limits for Total Suspended Solids are revised to 30 mg/l (average monthly) from 40 mg/l based on DRBC Docket No. D-1989-002-4. Compliance with the CBOD20 allocation of 386 lbs/day can be demonstrated by meeting the BOD5 effluent load limit of 343 lbs/day as indicated in DRBC Docket D-1989-002-4. Therefore, Mass limit for CBOD20 is removed from the permit. Annual PCBs (Dry Weather) monitoring requirement will continue in the permit renewal.

Summary of Review

The proposed effluent limitations are as follows:

Parameters	Effluent Limitations Mass Limits (lbs/day Ave. Monthly	Max. Daily	Concentrations (mg/l) Ave. Monthly	Max. Daily	Inst. Max	Criteria
BOD_5	343	916	24	64	80	ELG
BOD_5 Percent Removal			88.5 %			DRBC
Total Suspended Solids	429	644	30	45 wkl	75	DRBC
TSS (Percent Removal)			85 %			
Ammonia Nitrogen	500		35		70	DRBC
Total Dissolved Solids	Monitor/ Report	Monitor/ Report	1,000	2,000	2,500	DRBC
pH	Within limits of 6.0 - 9.0 Standard Units at all times					Pa Code 92a.47
METHYLENE CHLORIDE	0.572	1.274	0.040	0.089	0.100	ELG/BAT
TOTAL CYANIDE	6.011	17.174	0.420	1.200	1.500	ELG/BAT
PHENOL	0.215	0.372	0.015	0.026	0.038	ELG/BAT
ACENAPHTHENE	0.315	0.844	0.022	0.059	0.074	ELG/BAT
ACRYLONITRILE	1.374	3.463	0.096	0.242	0.302	ELG/BAT
BENZENE	0.530	1.946	0.037	0.136	0.170	ELG/BAT
CARBON-TETRACHLORIDE	0.258	0.544	0.018	0.038	0.045	ELG/BAT
CHLOROBENZENE	0.214	0.400	0.015	0.028	0.038	ELG/BAT
1,2,4-TRICHLOROBENZENE	0.973	2.00	0.068	0.140	0.170	ELG/BAT
HEXA-CHLOROBENZENE	0.214	0.400	0.015	0.028	0.038	ELG/BAT
1,2 DICHLORETHANE	0.973	3.02	0.068	0.211	0.264	ELG/BAT
1,1,1-TRICHLOROETHANE	0.300	0.774	0.021	0.054	0.068	ELG/BAT
HEXACHLOROETHANE	0.300	0.774	0.021	0.054	0.068	ELG/BAT
1,1- DICHLOROETHANE	0.315	0.844	0.022	0.059	0.074	ELG/BAT
1,1,2-TRICHLOROETHANE	0.300	0.774	0.021	0.054	0.068	ELG/BAT
CHLOROETHANE	1.488	3.835	0.104	0.268	0.335	ELG/BAT
CHLOROFORM	0.300	0.658	0.021	0.046	0.053	ELG/BAT
2-CHLOROPHENOL	0.444	1.403	0.031	0.098	0.123	ELG/BAT
1,2-DICHLOROBENZENE	1.102	2.333	0.077	0.163	0.193	ELG/BAT
1,3-DICHLOROBENZENE	0.444	0.630	0.031	0.044	0.078	ELG/BAT

Summary of Review

Parameters	Effluent Limitations Mass Limits (lbs/day Ave. Monthly	Mass Limits (lbs/day Max. Daily	Concentrations (mg/l) Ave. Monthly	Concentrations (mg/l) Max. Daily	Concentrations (mg/l) Inst. Max	Criteria
1,4-DICHLOROBENZENE	0.215	0.401	0.051	0.028	0.038	ELG/BAT
1,1-DICHLOROETHYLENE	0.229	0.358	0.016	0.025	0.040	ELG/BAT
1,2-TRANS-DICHLOROETHYLENE	0.301	0774	0.021	0.054	0.068	ELG/BAT
2,4-DICHLOROPHENOL	0.558	1.603	0.039	0.112	0.140	ELG/BAT
1,2-DICHLOROPROPANE	2.190	3.292	0.153	0.230	0.383	ELG/BAT
1,3-DICHLOROPROPYLENE	0.415	0.630	0.029	0.044	0.073	ELG/BAT
2,4-DIMETHYLPHENOL	0.258	0.515	0.018	0.036	0.045	ELG/BAT
2,4-DINITROTOLUENE	1.617	4.079	0.113	0.285	0.036	ELG/BAT
2,6-DINITROTOLUENE	3.654	9.174	0.255	0.641	0.801	ELG/BAT
ETHYLBENZENE	0.458	1.546	0.032	0.108	0.135	ELG/BAT
FLUORANTHENE	0.356	0.973	0.025	0.068	0.085	ELG/BAT
METHYL CHLORIDE	1.230	2.719	0.086	0.190	0.215	ELG/BAT
HEXACHLORO-BUTADIENE	0.286	0.701	0.020	0.049	0.061	ELG/BAT
NAPTHALENE	0.315	0.844	0.022	0.059	0.074	ELG/BAT
NITROBENZENE	0.386	0.973	0.027	0.068	0.085	ELG/BAT
2-NITROPHENOL	0.587	0.987	0.041	0.069	0.103	ELG/BAT
4-NITROPHENOL	1.030	1.775	0.072	0.124	0.180	ELG/BAT
2,4-DINITROPHENOL	1.016	1.760	0.071	0.123	0.178	ELG/BAT
4,6-DINITRO-O-CRESOL	1.116	3.964	0.078	0.277	0.346	ELG/BAT
BIS (2-ETHYLHEXYL) PHTHALATE	1.474	3.993	0.103	0.279	0.349	ELG/BAT
DI-N-BUTYL PHTHALATE	0.386	0.816	0.027	0.057	0.068	ELG/BAT
DIETHYL PHTHALATE	1.159	2.905	0.081	0.203	0.254	ELG/BAT
DIMETHYL PHTHALATE	0.272	0.673	0.019	0.047	0.059	ELG/BAT
BENZO (a) ANTHRACENE	0.315	0.844	0.022	0.059	0.074	ELG/BAT

Parameters	Effluent Limitations Mass Limits (lbs/day Ave. Monthly	Mass Limits (lbs/day Max. Daily	Concentrations (mg/l) Ave. Monthly	Concentrations (mg/l) Max. Daily	Concentrations (mg/l) Inst. Max	Criteria
BENZO (a) PYRENE	0.329	0.873	0.023	0.061	0.076	ELB/BAT
3,4-BENZO FLOURANTHENE	0.329	0.873	0.023	0.061	0.076	ELB/BAT
BENZO (k) FLOURANTHENE	0.315	0.844	0.022	0.059	0.074	ELB/BAT
CHRYSENE	0.315	0.844	0.022	0.059	0.074	ELB/BAT
ACENAPHTHYLENE	0.315	0.844	0.022	0.059	0.074	ELB/BAT
ANTHRACENE	0.315	0.844	0.022	0.059	0.074	ELB/BAT

Summary of Review

FLUORENE	0.315	0.844	0.022	0.059	0.074	ELB/BAT
PHENANTHRENE	0.315	0.844	0.022	0.059	0.074	ELB/BAT
PYRENE	0.358	0.959	0.025	0.067	0.084	ELB/BAT
TETRACHLORO-ETHYLENE	0.315	0.801	0.022	0.056	0.070	ELB/BAT
TOLUENE	0.372	1.145	0.026	0.080	0.100	ELB/BAT
TRICHLOROETHYLENE	0.300	0.774	0.021	0.054	0.068	ELB/BAT
VINYL CHLORIDE	1.488	3.835	0.104	0.268	0.335	ELB/BAT
TOTAL CHROMIUM	15.866	39.643	1.110	2.770	3.463	ELB/BAT
TOTAL COPPER	20.752	48.373	1.450	3.380	3.625	ELB/BAT
TOTAL LEAD	4.580	9.875	0.320	0.690	0.800	ELB/BAT
TOTAL NICKEL	24.186	56.960	1.690	3.980	4.225	ELB/BAT
TOTAL ZINC	15.027	37.353	1.05	2.61	3.26	ELB/BAT
DICHLOROBROMO-METHANE		Monitor/ Report		Monitor/ Report		
CHLORODIBROMOMETHANE		Monitor/ Report		Monitor/ Report		
BROMOFORM		Monitor/ Report		Monitor/ Report		
TOTAL Phenols,		Monitor/ Report		Monitor/ Report		
PCBs (Dry Weather)				Report		DRBC
Chronic Toxicity (TUc)				Report		DRBC

Stormwater Outfalls: Their latitude, longitude, and description are as follows:

Outfall No.	Latitude	Longitude	Receiving Water Body
011 (SW1)	40º05'39"	74º51'57"	Collection Pond
012 (SW2)	40º05'39"	74º51'48"	Collection Pond
013 (SW3)	40º05'39"	74º51'57"	Otter Creek
014 (SW4)	40º05'41"	74º52'05"	Otter Creek
015 (SW5)	40º05'42"	74º52'13"	Otter Creek
016 (SW6)	40º05'43"	74º52'14"	Otter Creek
017 (SW7)	40º05'44"	74º52'15"	Otter Creek
018 (SW8)	40º05'47"	74º52'17"	Otter Creek
019 (SW9)	40º05'23"	74º53'04"	Hog Run
020 (SW10)	40º05'44"	74º52'16"	Hog Run
022 (SW12)	40º04'53"	74º53'12"	Tidal Delaware Estuary
023 (SW13)	40º05'05"	74º53'08"	Tidal Delaware Estuary
024 (SW14)	40º05'05"	74º53'05"	Tidal Delaware Estuary
025 (SW15)	40º05'58"	74º53'01"	Tidal Delaware Estuary
026 (SW16)	40º05'57"	74º53'07"	Tidal Delaware Estuary
027 (SW17)	40º05'06"	74º53'02"	Tidal Delaware Estuary
028 (SW18)	40º05'08"	74º52'59"	Tidal Delaware Estuary
029 (SW19)	40º05'01"	74º53'02"	Tidal Delaware Estuary
030 (SW20)	40º05'08"	74º53'05"	Tidal Delaware Estuary
031 (SW21)	40º05'12"	74º52'57"	Tidal Delaware Estuary

Summary of Review

The stormwater Outfalls SW3 and SW9 represents runoff from the production areas. Therefore, all parameters listed for Outfall 009 is included in the permit to Monitor/Report for both Outfalls SW3 and SW9.

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.

Act 14 Notifications: Written notifications to Bristol Township and Bucks County on January 30, 2018.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	008	Design Flow (MGD)	0.529
Latitude	40Âº 5' 42.13"	Longitude	-74Âº 51' 56.03"
Quad Name		Quad Code	
Wastewater Description:	Noncontact Cooling Water (NCCW), heating condensate, stormwater runoff		

Receiving Waters	Otter Creek (WWF, MF)	Stream Code	
NHD Com ID	25474878	RMI	
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	2-E	Chapter 93 Class.	WWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, HABITAT ALTERATIONS, HABITAT ALTERATIONS, POLYCHLORINATED BIPHENYLS (PCBS), SILTATION		
Source(s) of Impairment	HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION, SOURCE UNKNOWN, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	Final	Name	Delaware River Estuary PCB TMDLs

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	003	Design Flow (MGD)	0.515
Latitude	40Âº 5' 42.13"	Longitude	-74Âº 51' 56.03"
Quad Name		Quad Code	
Wastewater Description:	Noncontact Cooling Water (NCCW), filter backwash, stormwater runoff		
Receiving Waters	Otter Creek (WWF)	Stream Code	
NHD Com ID	25474878	RMI	
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	2-E	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, HABITAT ALTERATIONS, HABITAT ALTERATIONS, POLYCHLORINATED BIPHENYLS (PCBS), SILTATION		
Source(s) of Impairment	HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION, SOURCE UNKNOWN, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	Final	Name	Delaware River Estuary PCB TMDLs

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0
Latitude	40Âº 5' 39.99"	Longitude	-74Âº 51' 46.86"
Quad Name		Quad Code	
Wastewater Description:	Stormwater		
Receiving Waters	Otter Creek (WWF)	Stream Code	
NHD Com ID	25474874	RMI	
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	2-E	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, HABITAT ALTERATIONS, HABITAT ALTERATIONS, POLYCHLORINATED BIPHENYLS (PCBS), SILTATION		
Source(s) of Impairment	HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION, SOURCE UNKNOWN, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	Final	Name	Delaware River Estuary PCB TMDLs

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	009	Design Flow (MGD)	1.716
Latitude	40Âº 5' 6.46"	Longitude	-74Âº 53' 4.04"
Quad Name		Quad Code	
Wastewater Description:	IW Process Effluent with ELG		
Receiving Waters	Unnamed (Hog Run) Tributary to Delaware River (WWF)	Stream Code	
NHD Com ID	25474356	RMI	
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	2-E	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Not Assessed		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Compliance History

DMR Data for Outfall 003 (from May 1, 2018 to April 30, 2019)

Parameter	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18
Flow (MGD) Average Monthly	0.058	0.202	0.058	0.202	0.353	0.202	0.058	0.058	0.036	0.209	0.058	0.058
pH (S.U.) Instantaneous Minimum	6.81	7.1	6.82	6.86	6.99	6.99	6.81	7.2	7.16	6.79	6.66	6.73
pH (S.U.) Instantaneous Maximum	7.45	7.44	6.94	6.94	7.04	7.03	6.96	7.22	7.36	7.6	7.01	7.13
Temperature (ºF) Daily Maximum	60	52	47	49	49	60	74	81	79.0	85	71	66
Total Zinc (mg/L) Daily Maximum		0.026			0.06			0.015			0.041	

DMR Data for Outfall 008 (from May 1, 2018 to April 30, 2019)

Parameter	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18
Flow (MGD) Average Monthly	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.014
pH (S.U.) Instantaneous Minimum	6.78	7.03	6.91	6.88	6.88	6.89	6.73	6.85	6.75	7.45	6.46	6.56
pH (S.U.) Instantaneous Maximum	7.18	7.38	6.97	7.05	7.01	6.93	6.74	6.98	7.14	7.59	6.81	6.83
Temperature (ºF) Daily Maximum	59	56	50	54	53	63	70	78	78.0	84	70	66
TSS (mg/L) Daily Maximum		5.3			1.4			1.5			1.2	
Total Dissolved Solids (mg/L) Daily Maximum		152			154			221.0			260	
Total Zinc (mg/L) Daily Maximum		0.039			0.067			0.046			0.057	

DMR Data for Outfall 009 (from May 1, 2018 to April 30, 2019)

Parameter	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18
Flow (MGD) Average Monthly	0.58	0.615	0.567	0.599	0.511	0.558	0.544	0.576	0.654	0.6	0.573	0.594
pH (S.U.) Minimum	6.8	6.7	6.7	6.5	6.7	6.7	6.9	7.0	6.9	7.0	6.9	6.8
pH (S.U.) Maximum	7.3	7.4	7.2	7.3	7.5	7.3	7.7	7.6	7.5	7.7	7.6	7.6
BOD5 (lbs/day) Average Monthly	7.73	35.9	42.5	90.4	90.6	38.62	8.16	52.3	15.8	10.0	7.4	30.7
BOD5 (lbs/day) Daily Maximum	13.6	73.8	118.6	200	234	146.9	17.5	237.6	42.2	19.5	8.8	82.1
BOD5 (mg/L) Average Monthly	1.6	7.0	7.5	17.4	20.1	8.3	1.8	10.9	2.9	2.0	1.6	6.2
BOD5 (mg/L) Influent Average Monthly	258.3	246.3	218.3	198.4	246.3	190.3	213.6	283.0	285.8	291.3	254.8	240.2
BOD5 (mg/L) Daily Maximum	2.6	13.6	20.8	37.1	54.1	28.7	3.6	40.8	7.1	3.4	1.7	15.8
CBOD20 (lbs/day) Average Monthly	70.802	115.076	149.92	259.587	192.878	115.611	33.578	48.895	136.441	146.776	113.727	149.631
TSS (lbs/day) Average Monthly	24.31	35.4	59.91	25.38	18.75	19.31	21.77	28.68	34.91	12.51	19.6	14.6
TSS (lbs/day) Daily Maximum	39.63	80.38	81.69	37.55	32.87	33.6	29.19	38.43	64.34	19.61	45.07	29.09
TSS (mg/L) Average Monthly	5.0	6.9	10.45	4.94	4.4	4.15	4.46	5.5	6.4	2.5	4.1	2.94
TSS (mg/L) Influent Average Monthly	133.5	32.8	107.9	34.5	43.3	50.1	64.4	67.1	50.1	76.6	67.8	70.5
TSS (mg/L) Daily Maximum	7.6	15.8	15.2	6.8	7.6	5	6	7.6	11.6	4	9.6	5.6
Total Dissolved Solids (lbs/day) Average Monthly	2854.3	3726.7	4301.7	3284.3	2377.5	2650.9	2751.7	3234.4	3999.4	4351.8	4895	4254.2
Total Dissolved Solids (lbs/day) Daily Maximum	3496.8	4447.3	4894	4323.2	2793.5	3136.3	3003.2	4448.8	5143.7	4949.3	6333.9	5247.4
Total Dissolved Solids (mg/L) Average Monthly	560	742	768	641.6	540	499.5	581.6	596	709.2	822	1000	810.4
Total Dissolved Solids (mg/L) Daily Maximum	596	820	844	836	580	610	664	764	856	900	1100	960

Ammonia (lbs/day) Average Monthly	0.959	3.28	28.07	0.546	< 0.204	0.378	1.027	1.109	1.43	0.84	1.47	0.572
Ammonia (mg/L) Average Monthly	0.21	0.76	5.35	0.097	< 0.045	0.054	0.225	0.2	0.24	0.17	0.25	0.11
Total Cadmium (mg/L) Average Monthly		< 0.0021			< 0.0021			< 0.0021			< 0.0021	
Total Chromium (lbs/day) Average Monthly	< 0.002	< 0.002	0.004	< 0.003	< 0.002	0.0399	< 0.002	< 0.017	< 0.018	< 0.015	< 0.018	< 0.016
Total Chromium (lbs/day) Daily Maximum	< 0.002	< 0.002	0.008	< 0.003	< 0.002	0.0399	< 0.003	< 0.017	< 0.018	< 0.015	< 0.018	< 0.016
Total Chromium (mg/L) Average Monthly	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.0057	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Total Chromium (mg/L) Daily Maximum	< 0.001	< 0.001	0.001	< 0.001	< 0.001	0.0057	< 0.001	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Total Copper (lbs/day) Average Monthly	0.023	0.028	0.130	0.075	0.030	0.041	0.041	0.033	0.026	0.021	0.033	< 0.017
Total Copper (lbs/day) Daily Maximum	0.023	0.028	0.255	0.075	0.030	0.041	0.054	0.033	0.026	0.021	0.033	< 0.017
Total Copper (mg/L) Average Monthly	0.005	0.006	0.025	0.013	0.007	0.006	0.009	0.006	0.004	0.004	0.006	< 0.003
Total Copper (mg/L) Daily Maximum	0.005	0.006	0.048	0.013	0.007	0.006	0.010	0.006	0.004	0.004	0.006	< 0.003
Total Cyanide (lbs/day) Average Monthly	< 0.0183	0.0233	0.0156	< 0.0225	< 0.0182	0.0413	0.013	< 0.0111	< 0.0119	0.0184	0.0135	< 0.0104
Total Cyanide (lbs/day) Daily Maximum	< 0.0183	0.0233	0.0215	< 0.0225	< 0.0182	0.0413	0.0221	< 0.0111	< 0.0119	0.0184	0.0135	< 0.0104
Total Cyanide (mg/L) Average Monthly	< 0.004	0.0054	0.004	< 0.004	< 0.004	0.0059	0.0026	< 0.002	< 0.002	0.0037	0.0023	< 0.002
Total Cyanide (mg/L) Daily Maximum	< 0.004	0.0054	0.0049	< 0.004	< 0.004	0.0059	0.0042	< 0.002	< 0.002	0.0037	0.0023	< 0.002
Total Lead (lbs/day) Average Monthly	< 0.00082	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.004	< 0.005	< 0.005
Total Lead (lbs/day) Daily Maximum	< 0.00082	< 0.001	0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.005	< 0.005	< 0.004	< 0.005	< 0.005
Total Lead (mg/L) Average Monthly	< 0.00017	< 0.00017	0.00025	< 0.00017	< 0.00017	< 0.00017	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Lead (mg/L) Daily Maximum	< 0.00017	< 0.00017	0.00033	< 0.00017	< 0.00017	< 0.00017	< 0.0001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total Nickel (lbs/day) Average Monthly	0.026	0.023	0.018	0.024	0.012	0.0195	0.014	< 0.017	< 0.018	< 0.015	0.021	0.021

Total Nickel (lbs/day) Daily Maximum	0.026	0.023	0.033	0.024	0.012	0.0195	0.015	< 0.017	< 0.018	< 0.015	0.021	0.021
Total Nickel (mg/L) Average Monthly	0.006	0.005	0.004	0.004	0.003	0.0028	0.003	< 0.003	< 0.003	< 0.003	0.004	0.004
Total Nickel (mg/L) Daily Maximum	0.006	0.005	0.006	0.004	0.003	0.0028	0.003	< 0.003	< 0.003	< 0.003	0.004	0.004
Total Zinc (lbs/day) Average Monthly	0.070	0.100	0.360	0.110	0.140	0.140	0.080	< 0.090	< 0.100	< 0.080	0.230	0.660
Total Zinc (lbs/day) Daily Maximum	0.070	0.100	0.710	0.110	0.140	0.140	0.100	< 0.090	< 0.100	< 0.080	0.230	0.660
Total Zinc (mg/L) Average Monthly	0.014	0.02	0.07	0.02	0.03	0.02	0.020	< 0.02	< 0.02	< 0.02	0.04	0.13
Total Zinc (mg/L) Daily Maximum	0.014	0.02	0.13	0.02	0.03	0.02	0.020	< 0.02	< 0.02	< 0.02	0.04	0.13
2-Chlorophenol (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	< 0.0018	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0021
2-Chlorophenol (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	< 0.0018	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0021
2-Chlorophenol (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
2-Chlorophenol (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
2,4-Dichlorophenol (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	< 0.0018	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0021
2,4-Dichlorophenol (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	< 0.0018	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0021
2,4-Dichlorophenol (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
2,4-Dichlorophenol (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
2,4-Dimethylphenol (lbs/day) Average Monthly	< 0.0009	< 0.0009	< 0.001	< 0.0011	< 0.0009	< 0.0014	< 0.0009	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.001
2,4-Dimethylphenol (lbs/day) Daily Maximum	< 0.0009	< 0.0009	< 0.0011	< 0.0011	< 0.0009	< 0.0014	< 0.0011	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.001
2,4-Dimethylphenol (mg/L) Average Monthly	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002

2,4-Dimethylphenol (mg/L) Daily Maximum	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fluorene (lbs/day) Average Monthly	< 0.0041	< 0.0039	< 0.0043	< 0.0051	< 0.0041	< 0.0063	< 0.0041	< 0.005	< 0.0054	< 0.0045	< 0.0053	< 0.0047
Fluorene (lbs/day) Daily Maximum	< 0.0041	< 0.0039	< 0.0048	< 0.0051	< 0.0041	< 0.0063	< 0.0047	< 0.005	< 0.0054	< 0.0045	< 0.0053	< 0.0047
Fluorene (mg/L) Average Monthly	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Fluorene (mg/L) Daily Maximum	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
2,4-Dinitrophenol (lbs/day) Average Monthly	< 0.0091	< 0.0086	< 0.0095	< 0.0113	< 0.0091	< 0.014	< 0.0091	< 0.0111	< 0.0119	< 0.0099	< 0.0821	< 0.0727
2,4-Dinitrophenol (lbs/day) Daily Maximum	< 0.0091	< 0.0086	< 0.0107	< 0.0113	< 0.0091	< 0.014	< 0.0105	< 0.0111	< 0.0119	< 0.0099	< 0.0821	< 0.0727
2,4-Dinitrophenol (mg/L) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.014	< 0.014
2,4-Dinitrophenol (mg/L) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.014	< 0.014
2,4-Dinitrotoluene (lbs/day) Average Monthly	< 0.0046	< 0.0043	< 0.0048	< 0.0056	< 0.0045	< 0.007	< 0.0046	< 0.0055	< 0.0059	< 0.005	< 0.0059	< 0.0052
2,4-Dinitrotoluene (lbs/day) Daily Maximum	< 0.0046	< 0.0043	< 0.0054	< 0.0056	< 0.0045	< 0.007	< 0.0053	< 0.0055	< 0.0059	< 0.005	< 0.0059	< 0.0052
2,4-Dinitrotoluene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,4-Dinitrotoluene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
2,6-Dinitrotoluene (lbs/day) Average Monthly	< 0.0023	< 0.0022	< 0.0024	< 0.0028	< 0.0023	< 0.0035	< 0.0023	< 0.0028	< 0.003	< 0.0025	< 0.0023	< 0.0021
2,6-Dinitrotoluene (lbs/day) Daily Maximum	< 0.0023	< 0.0022	< 0.0027	< 0.0028	< 0.0023	< 0.0035	< 0.0026	< 0.0028	< 0.003	< 0.0025	< 0.0023	< 0.0021
2,6-Dinitrotoluene (mg/L) Average Monthly	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004	< 0.0004

2,6-Dinitrotoluene (mg/L) Daily Maximum	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0004	< 0.0004
4,6-dinitro-o-cresol (lbs/day) Average Monthly	< 0.0059	< 0.0056	< 0.0062	< 0.0073	< 0.0059	< 0.0091	< 0.0059	< 0.0072	< 0.0077	< 0.0065	< 0.0762	< 0.0675
4,6-dinitro-o-cresol (lbs/day) Daily Maximum	< 0.0059	< 0.0056	< 0.007	< 0.0073	< 0.0059	< 0.0091	< 0.0068	< 0.0072	< 0.0077	< 0.0065	< 0.0762	< 0.0675
4,6-dinitro-o-cresol (mg/L) Average Monthly	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.013	< 0.013
4,6-dinitro-o-cresol (mg/L) Daily Maximum	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.013	< 0.013
2-Nitrophenol (lbs/day) Average Monthly	< 0.0037	< 0.0034	< 0.0038	< 0.0045	< 0.0036	< 0.0056	< 0.0037	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
2-Nitrophenol (lbs/day) Daily Maximum	< 0.0037	< 0.0034	< 0.0043	< 0.0045	< 0.0036	< 0.0056	< 0.0042	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
2-Nitrophenol (mg/L) Average Monthly	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
2-Nitrophenol (mg/L) Daily Maximum	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
4-Nitrophenol (lbs/day) Average Monthly	< 0.0027	< 0.0026	< 0.0029	< 0.0034	< 0.0027	< 0.0042	< 0.0027	< 0.0033	< 0.0036	< 0.003	< 0.0041	< 0.0036
4-Nitrophenol (lbs/day) Daily Maximum	< 0.0027	< 0.0026	< 0.0032	< 0.0034	< 0.0027	< 0.0042	< 0.0032	< 0.0033	< 0.0036	< 0.003	< 0.0041	< 0.0036
4-Nitrophenol (mg/L) Average Monthly	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0007	< 0.0007
4-Nitrophenol (mg/L) Daily Maximum	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0007	< 0.0007
Phenol (lbs/day) Average Monthly	< 0.0014	< 0.0013	< 0.0014	< 0.0017	< 0.0014	< 0.0021	< 0.0014	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.0016
Phenol (lbs/day) Daily Maximum	< 0.0014	< 0.0013	< 0.0016	< 0.0017	< 0.0014	< 0.0021	< 0.0016	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.0016
Phenol (mg/L) Average Monthly	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Phenol (mg/L) Daily Maximum	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Acenaphthene (lbs/day) Average Monthly	< 0.005	< 0.0047	< 0.0052	< 0.0062	< 0.005	< 0.0056	< 0.005	< 0.0061	< 0.0065	< 0.0055	< 0.0065	< 0.0057

Acenaphthene (lbs/day) Daily Maximum	< 0.005	< 0.0047	< 0.0059	< 0.0062	< 0.005	< 0.0056	< 0.0058	< 0.0061	< 0.0065	< 0.0055	< 0.0065	< 0.0057
Acenaphthene (mg/L) Average Monthly	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0008	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Acenaphthene (mg/L) Daily Maximum	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0008	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Acenaphthylene (lbs/day) Average Monthly	< 0.0037	< 0.0034	< 0.0038	< 0.0045	< 0.0036	< 0.0056	< 0.0037	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
Acenaphthylene (lbs/day) Daily Maximum	< 0.0037	< 0.0034	< 0.0043	< 0.0045	< 0.0036	< 0.0056	< 0.0042	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
Acenaphthylene (mg/L) Average Monthly	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Acenaphthylene (mg/L) Daily Maximum	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Acrylonitrile (lbs/day) Average Monthly	< 0.0037	< 0.0034	< 0.0038	< 0.0045	< 0.0036	< 0.0056	< 0.0037	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0052
Acrylonitrile (lbs/day) Daily Maximum	< 0.0037	< 0.0034	< 0.0043	< 0.0045	< 0.0036	< 0.0056	< 0.0042	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0052
Acrylonitrile (mg/L) Average Monthly	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.001
Acrylonitrile (mg/L) Daily Maximum	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.001
Anthracene (lbs/day) Average Monthly	< 0.0027	< 0.0026	< 0.0029	< 0.0034	< 0.0027	< 0.0042	< 0.0027	< 0.0033	< 0.0036	< 0.003	< 0.0035	< 0.0031
Anthracene (lbs/day) Daily Maximum	< 0.0027	< 0.0026	< 0.0032	< 0.0034	< 0.0027	< 0.0042	< 0.0032	< 0.0033	< 0.0036	< 0.003	< 0.0035	< 0.0031
Anthracene (mg/L) Average Monthly	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Anthracene (mg/L) Daily Maximum	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Chlorobenzene (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	< 0.0018	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.001
Chlorobenzene (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	< 0.0018	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.001
Chlorobenzene (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0002
Chlorobenzene (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0002

1,2-Dichlorobenzene (lbs/day) Average Monthly	< 0.0059	< 0.0056	< 0.0062	< 0.0073	< 0.0059	< 0.0091	< 0.0059	< 0.0072	< 0.0077	< 0.0065	< 0.0076	< 0.0068
1,2-Dichlorobenzene (lbs/day) Daily Maximum	< 0.0059	< 0.0056	< 0.007	< 0.0073	< 0.0059	< 0.0091	< 0.0068	< 0.0072	< 0.0077	< 0.0065	< 0.0076	< 0.0068
1,2-Dichlorobenzene (mg/L) Average Monthly	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,2-Dichlorobenzene (mg/L) Daily Maximum	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,3-Dichlorobenzene (lbs/day) Average Monthly	< 0.0091	< 0.0086	< 0.0095	< 0.0113	< 0.0091	< 0.014	< 0.0091	< 0.0111	< 0.0119	< 0.0099	< 0.0117	< 0.0104
1,3-Dichlorobenzene (lbs/day) Daily Maximum	< 0.0091	< 0.0086	< 0.0107	< 0.0113	< 0.0091	< 0.014	< 0.0105	< 0.0111	< 0.0119	< 0.0099	< 0.0117	< 0.0104
1,3-Dichlorobenzene (mg/L) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,3-Dichlorobenzene (mg/L) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
1,4-Dichlorobenzene (lbs/day) Average Monthly	< 0.0059	< 0.0056	< 0.0062	< 0.0073	< 0.0059	< 0.0091	< 0.0059	< 0.0072	< 0.0077	< 0.0065	< 0.0076	< 0.0068
1,4-Dichlorobenzene (lbs/day) Daily Maximum	< 0.0059	< 0.0056	< 0.007	< 0.0073	< 0.0059	< 0.0091	< 0.0068	< 0.0072	< 0.0077	< 0.0065	< 0.0076	< 0.0068
1,4-Dichlorobenzene (mg/L) Average Monthly	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,4-Dichlorobenzene (mg/L) Daily Maximum	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,3-Dichloro-propylene (lbs/day) Average Monthly	< 0.0023	< 0.0022	< 0.0024	< 0.0028	< 0.0023	< 0.0035	< 0.0023	< 0.0028	< 0.003	< 0.0025	< 0.0029	< 0.001
1,3-Dichloro-propylene (lbs/day) Daily Maximum	< 0.0023	< 0.0022	< 0.0027	< 0.0028	< 0.0023	< 0.0035	< 0.0026	< 0.0028	< 0.003	< 0.0025	< 0.0029	< 0.001
1,3-Dichloro-propylene (mg/L) Average Monthly	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002

1,3-Dichloro-propylene (mg/L) Daily Maximum	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002
1,2,4-Trichloro-benzene (lbs/day) Average Monthly	< 0.0059	< 0.0056	< 0.0062	< 0.0073	< 0.0059	< 0.0091	< 0.0059	< 0.0072	< 0.0077	< 0.0065	< 0.0076	< 0.0068
1,2,4-Trichloro-benzene (lbs/day) Daily Maximum	< 0.0059	< 0.0056	< 0.007	< 0.0073	< 0.0059	< 0.0091	< 0.0068	< 0.0072	< 0.0077	< 0.0065	< 0.0076	< 0.0068
1,2,4-Trichloro-benzene (mg/L) Average Monthly	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,2,4-Trichloro-benzene (mg/L) Daily Maximum	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Ethylbenzene (lbs/day) Average Monthly	< 0.0014	< 0.0013	< 0.0014	< 0.0017	< 0.0014	< 0.0021	< 0.0014	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.0016
Ethylbenzene (lbs/day) Daily Maximum	< 0.0014	< 0.0013	< 0.0016	< 0.0017	< 0.0014	< 0.0021	< 0.0016	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.0016
Ethylbenzene (mg/L) Average Monthly	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Ethylbenzene (mg/L) Daily Maximum	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Hexachloro-benzene (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	< 0.0018	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0021
Hexachloro-benzene (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	< 0.0018	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0021
Hexachloro-benzene (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Hexachloro-benzene (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Nitrobenzene (lbs/day) Average Monthly	< 0.0027	< 0.0026	< 0.0029	< 0.0034	< 0.0027	< 0.0042	< 0.0027	< 0.0033	< 0.0036	< 0.003	< 0.0035	< 0.0031
Nitrobenzene (lbs/day) Daily Maximum	< 0.0027	< 0.0026	< 0.0032	< 0.0034	< 0.0027	< 0.0042	< 0.0032	< 0.0033	< 0.0036	< 0.003	< 0.0035	< 0.0031
Nitrobenzene (mg/L) Average Monthly	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Nitrobenzene (mg/L) Daily Maximum	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006

Benzene (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	< 0.0018	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0005
Benzene (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	< 0.0018	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0005
Benzene (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0001
Benzene (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0001
Benzo(a)-Anthracene (lbs/day) Average Monthly	< 0.0027	< 0.0026	< 0.0029	< 0.0034	< 0.0027	< 0.0042	< 0.0027	< 0.0033	< 0.0036	< 0.003	< 0.0035	< 0.0031
Benzo(a)-Anthracene (lbs/day) Daily Maximum	< 0.0027	< 0.0026	< 0.0032	< 0.0034	< 0.0027	< 0.0042	< 0.0032	< 0.0033	< 0.0036	< 0.003	< 0.0035	< 0.0031
Benzo(a)-Anthracene (mg/L) Average Monthly	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Benzo(a)-Anthracene (mg/L) Daily Maximum	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Benzo(a)Pyrene (lbs/day) Average Monthly	< 0.0032	< 0.003	< 0.0033	< 0.0039	< 0.0032	< 0.0049	< 0.0032	< 0.0039	< 0.0042	< 0.0035	< 0.0023	< 0.0021
Benzo(a)Pyrene (lbs/day) Daily Maximum	< 0.0032	< 0.003	< 0.0038	< 0.0039	< 0.0032	< 0.0049	< 0.0037	< 0.0039	< 0.0042	< 0.0035	< 0.0023	< 0.0021
Benzo(a)Pyrene (mg/L) Average Monthly	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0004	< 0.0004
Benzo(a)Pyrene (mg/L) Daily Maximum	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0004	< 0.0004
Benzo(k)Fluor-anthene (lbs/day) Average Monthly	< 0.0032	< 0.003	< 0.0033	< 0.0039	< 0.0032	< 0.0049	< 0.0032	< 0.0039	< 0.0042	< 0.0035	< 0.0041	< 0.0036
Benzo(k)Fluor-anthene (lbs/day) Daily Maximum	< 0.0032	< 0.003	< 0.0038	< 0.0039	< 0.0032	< 0.0049	< 0.0037	< 0.0039	< 0.0042	< 0.0035	< 0.0041	< 0.0036
Benzo(k)Fluor-anthene (mg/L) Average Monthly	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007
Benzo(k)Fluor-anthene (mg/L) Daily Maximum	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007

3,4-Benzo-fluoranthene (lbs/day) Average Monthly	< 0.0064	< 0.006	< 0.0067	< 0.0079	< 0.0064	< 0.0098	< 0.0064	< 0.0078	< 0.0083	< 0.0069	< 0.0065	< 0.0057
3,4-Benzo-fluoranthene (lbs/day) Daily Maximum	< 0.0064	< 0.006	< 0.0075	< 0.0079	< 0.0064	< 0.0098	< 0.0074	< 0.0078	< 0.0083	< 0.0069	< 0.0065	< 0.0057
3,4-Benzo-fluoranthene (mg/L) Average Monthly	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0011	< 0.0011
3,4-Benzo-fluoranthene (mg/L) Daily Maximum	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0011	< 0.0011
Bromoform (lbs/day) Daily Maximum	< 0.0023	< 0.0022	< 0.0027	< 0.0028	< 0.0023	< 0.0035	< 0.0026	< 0.0028	< 0.003	< 0.0025	< 0.0029	< 0.001
Bromoform (mg/L) Daily Maximum	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002
Carbon Tetrachloride (lbs/day) Average Monthly	< 0.0009	< 0.0009	< 0.001	< 0.0011	< 0.0009	< 0.0014	< 0.0009	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.0016
Carbon Tetrachloride (lbs/day) Daily Maximum	< 0.0009	< 0.0009	< 0.0011	< 0.0011	< 0.0009	< 0.0014	< 0.0011	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.0016
Carbon Tetrachloride (mg/L) Average Monthly	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0003
Carbon Tetrachloride (mg/L) Daily Maximum	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0003
Chlorodibromo-methane (lbs/day) Daily Maximum	< 0.0014	< 0.0013	< 0.0016	< 0.0017	< 0.0014	< 0.0021	< 0.0016	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.001
Chlorodibromo-methane (mg/L) Daily Maximum	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0002
Chloroethane (lbs/day) Average Monthly	< 0.0014	< 0.0013	< 0.0014	< 0.0017	< 0.0014	< 0.0021	< 0.0014	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.0021
Chloroethane (lbs/day) Daily Maximum	< 0.0014	< 0.0013	< 0.0016	< 0.0017	< 0.0014	< 0.0021	< 0.0016	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.0021
Chloroethane (mg/L) Average Monthly	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0004
Chloroethane (mg/L) Daily Maximum	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0004

1,1,1-Trichloroethane (lbs/day) Average Monthly	< 0.0009	< 0.0009	< 0.001	< 0.0011	< 0.0009	< 0.0014	< 0.0009	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.0016
1,1,1-Trichloroethane (lbs/day) Daily Maximum	< 0.0009	< 0.0009	< 0.0011	< 0.0011	< 0.0009	< 0.0014	< 0.0011	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.0016
1,1,1-Trichloroethane (mg/L) Average Monthly	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0003
1,1,1-Trichloroethane (mg/L) Daily Maximum	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0003
1,1,2-Trichloroethane (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	< 0.0018	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0004
1,1,2-Trichloroethane (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	< 0.0018	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0004
1,1,2-Trichloroethane (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0001
1,1,2-Trichloroethane (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0001
1,1-Dichloroethane (lbs/day) Average Monthly	< 0.0014	< 0.0013	< 0.0014	< 0.0017	< 0.0014	< 0.0021	< 0.0014	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.001
1,1-Dichloroethane (lbs/day) Daily Maximum	< 0.0014	< 0.0013	< 0.0016	< 0.0017	< 0.0014	< 0.0021	< 0.0016	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.001
1,1-Dichloroethane (mg/L) Average Monthly	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0002
1,1-Dichloroethane (mg/L) Daily Maximum	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0002
1,2-Dichloroethane (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	< 0.0018	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0016
1,2-Dichloroethane (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	< 0.0018	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0016
1,2-Dichloroethane (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0003

1,2-Dichloroethane (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0003
1,2-Dichloropropane (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	< 0.0018	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.001
1,2-Dichloropropane (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	< 0.0018	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.001
1,2-Dichloropropane (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0002
1,2-Dichloropropane (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0002
Dichlorobromo-methane (lbs/day) Daily Maximum	0.0023	0.0017	0.0059	0.0045	0.0041	0.0056	0.0021	0.0022	0.0024	< 0.0015	0.0047	0.0016
Dichlorobromo-methane (mg/L) Daily Maximum	0.0005	0.0004	0.0011	0.0008	0.0009	0.0008	0.0004	0.0004	0.0004	< 0.0003	0.0008	0.0003
Bis(2-Ethyl-hexyl)Phthalate (lbs/day) Average Monthly	< 0.0046	< 0.0043	< 0.0048	< 0.0056	< 0.0045	< 0.007	< 0.0046	< 0.0055	< 0.0059	< 0.005	< 0.010	< 0.0088
Bis(2-Ethyl-hexyl)Phthalate (lbs/day) Daily Maximum	< 0.0046	< 0.0043	< 0.0054	< 0.0056	< 0.0045	< 0.007	< 0.0053	< 0.0055	< 0.0059	< 0.005	< 0.010	< 0.0088
Bis(2-Ethyl-hexyl)Phthalate (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0017	< 0.0017
Bis(2-Ethyl-hexyl)Phthalate (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0017	< 0.0017
Chloroform (lbs/day) Average Monthly	0.0114	0.0039	0.0353	0.062	0.0264	0.0693	0.0064	0.0061	0.0303	0.0055	0.0334	0.0073
Chloroform (lbs/day) Daily Maximum	0.0114	0.0039	0.0478	0.062	0.0264	0.0693	0.0074	0.0061	0.0303	0.0055	0.0334	0.0073
Chloroform (mg/L) Average Monthly	0.0025	0.0009	0.0072	0.011	0.0058	0.0099	0.0014	0.0011	0.0051	0.0011	0.0057	0.0014
Chloroform (mg/L) Daily Maximum	0.0025	0.0009	0.0089	0.011	0.0058	0.0099	0.0014	0.0011	0.0051	0.0011	0.0057	0.0014
Chrysene (lbs/day) Average Monthly	< 0.0041	< 0.0039	< 0.0043	< 0.0051	< 0.0041	< 0.0063	< 0.0041	< 0.005	< 0.0054	< 0.0045	< 0.0053	< 0.0047

Chrysene (lbs/day) Daily Maximum	< 0.0041	< 0.0039	< 0.0048	< 0.0051	< 0.0041	< 0.0063	< 0.0047	< 0.005	< 0.0054	< 0.0045	< 0.0053	< 0.0047
Chrysene (mg/L) Average Monthly	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Chrysene (mg/L) Daily Maximum	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Diethyl Phthalate (lbs/day) Average Monthly	< 0.0046	< 0.0043	< 0.0048	< 0.0056	< 0.0045	< 0.007	< 0.0046	< 0.0055	< 0.0059	< 0.005	< 0.0059	< 0.0052
Diethyl Phthalate (lbs/day) Daily Maximum	< 0.0046	< 0.0043	< 0.0054	< 0.0056	< 0.0045	< 0.007	< 0.0053	< 0.0055	< 0.0059	< 0.005	< 0.0059	< 0.0052
Diethyl Phthalate (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Diethyl Phthalate (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Dimethyl Phthalate (lbs/day) Average Monthly	< 0.0037	< 0.0034	< 0.0038	< 0.0045	< 0.0036	< 0.0056	< 0.0037	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
Dimethyl Phthalate (lbs/day) Daily Maximum	< 0.0037	< 0.0034	< 0.0043	< 0.0045	< 0.0036	< 0.0056	< 0.0042	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
Dimethyl Phthalate (mg/L) Average Monthly	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Dimethyl Phthalate (mg/L) Daily Maximum	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Di-n-Butyl Phthalate (lbs/day) Average Monthly	< 0.0037	< 0.0034	< 0.0038	< 0.0045	< 0.0036	< 0.0056	< 0.0037	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
Di-n-Butyl Phthalate (lbs/day) Daily Maximum	< 0.0037	< 0.0034	< 0.0043	< 0.0045	< 0.0036	< 0.0056	< 0.0042	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
Di-n-Butyl Phthalate (mg/L) Average Monthly	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Di-n-Butyl Phthalate (mg/L) Daily Maximum	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Fluoranthene (lbs/day) Average Monthly	< 0.0037	< 0.0034	< 0.0038	< 0.0045	< 0.0036	< 0.0056	< 0.0037	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042
Fluoranthene (lbs/day) Daily Maximum	< 0.0037	< 0.0034	< 0.0043	< 0.0045	< 0.0036	< 0.0056	< 0.0042	< 0.0044	< 0.0048	< 0.004	< 0.0047	< 0.0042

Fluoranthene (mg/L) Average Monthly	< 0.0008	< 0.0008	< 0.0008	< 0.0003	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Fluoranthene (mg/L) Daily Maximum	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Hexachloro-butadiene (lbs/day) Average Monthly	< 0.0005	< 0.0004	< 0.0005	< 0.0006	< 0.0005	< 0.0007	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0047	< 0.0042
Hexachloro-butadiene (lbs/day) Daily Maximum	< 0.0005	< 0.0004	< 0.0005	< 0.0006	< 0.0005	< 0.0007	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0047	< 0.0042
Hexachloro-butadiene (mg/L) Average Monthly	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0008	< 0.0008
Hexachloro-butadiene (mg/L) Daily Maximum	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0008	< 0.0008
Hexachloroethane (lbs/day) Average Monthly	< 0.0055	< 0.0052	< 0.0057	< 0.0068	< 0.0055	< 0.0084	< 0.0055	< 0.0067	< 0.0071	< 0.006	< 0.007	< 0.0062
Hexachloroethane (lbs/day) Daily Maximum	< 0.0055	< 0.0052	< 0.0064	< 0.0068	< 0.0055	< 0.0084	< 0.0063	< 0.0067	< 0.0071	< 0.006	< 0.007	< 0.0062
Hexachloroethane (mg/L) Average Monthly	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Hexachloroethane (mg/L) Daily Maximum	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Methyl Chloride (lbs/day) Average Monthly	< 0.0005	< 0.0004	< 0.0005	< 0.0006	< 0.0005	< 0.0007	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0006	< 0.001
Methyl Chloride (lbs/day) Daily Maximum	< 0.0005	< 0.0004	< 0.0005	< 0.0006	< 0.0005	< 0.0007	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0006	< 0.001
Methyl Chloride (mg/L) Average Monthly	< 0.0001	< 0.0001	< 0.0001	< 0.00014	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002
Methyl Chloride (mg/L) Daily Maximum	< 0.0001	< 0.0001	< 0.0001	< 0.00014	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0002
Methylene Chloride (lbs/day) Average Monthly	< 0.0014	< 0.0013	0.0019	0.0039	< 0.0023	< 0.0021	0.0043	0.0078	0.0113	0.003	0.0041	< 0.001
Methylene Chloride (lbs/day) Daily Maximum	< 0.0014	< 0.0013	0.0021	0.0039	< 0.0023	< 0.0021	0.0047	0.0078	0.0113	0.003	0.0041	< 0.001

Methylene Chloride (mg/L) Average Monthly	< 0.0003	< 0.0003	0.0004	0.0007	< 0.0005	< 0.0003	0.001	0.0014	0.0019	0.0006	0.0007	< 0.0002
Methylene Chloride (mg/L) Daily Maximum	< 0.0003	< 0.0003	0.0004	0.0007	< 0.0005	< 0.0003	0.001	0.0014	0.0019	0.0006	0.0007	< 0.0002
Naphthalene (lbs/day) Average Monthly	< 0.005	< 0.0047	< 0.0052	< 0.0062	< 0.005	< 0.0077	< 0.005	< 0.0061	< 0.0065	< 0.0055	< 0.0065	< 0.0057
Naphthalene (lbs/day) Daily Maximum	< 0.005	< 0.0047	< 0.0059	< 0.0062	< 0.005	< 0.0077	< 0.0058	< 0.0061	< 0.0065	< 0.0055	< 0.0065	< 0.0057
Naphthalene (mg/L) Average Monthly	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Naphthalene (mg/L) Daily Maximum	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Phenanthrene (lbs/day) Average Monthly	< 0.0027	< 0.0026	< 0.0029	< 0.0034	< 0.0027	< 0.0042	< 0.0027	< 0.0033	< 0.0036	< 0.003	< 0.0035	< 0.0031
Phenanthrene (lbs/day) Daily Maximum	< 0.0027	< 0.0026	< 0.0032	< 0.0034	< 0.0027	< 0.0042	< 0.0032	< 0.0033	< 0.0036	< 0.003	< 0.0035	< 0.0031
Phenanthrene (mg/L) Average Monthly	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Phenanthrene (mg/L) Daily Maximum	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Total Phenolics (lbs/day) Daily Maximum	21.0235	< 0.0517	0.3117	0.2535	0.4546	0.364	< 0.0631	< 0.0666	< 0.0714	0.144	< 0.0704	6.7524
Total Phenolics (mg/L) Daily Maximum	4.6	< 0.012	0.058	0.045	0.1	0.052	< 0.012	< 0.012	< 0.012	0.029	< 0.012	1.3
Pyrene (lbs/day) Average Monthly	< 0.0073	< 0.0069	< 0.0076	< 0.009	< 0.0073	< 0.0112	< 0.0073	< 0.0089	< 0.0095	< 0.0079	< 0.0094	< 0.0083
Pyrene (lbs/day) Daily Maximum	< 0.0073	< 0.0069	< 0.0086	< 0.009	< 0.0073	< 0.0112	< 0.0084	< 0.0089	< 0.0095	< 0.0079	< 0.0094	< 0.0083
Pyrene (mg/L) Average Monthly	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Pyrene (mg/L) Daily Maximum	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
1,1-Dichloroethylene (lbs/day) Average Monthly	< 0.0005	< 0.0004	< 0.0005	< 0.0006	< 0.0005	< 0.0007	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0006	< 0.0016
1,1-Dichloroethylene (lbs/day) Daily Maximum	< 0.0005	< 0.0004	< 0.0005	< 0.0006	< 0.0005	< 0.0007	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0006	< 0.0016
1,1-Dichloroethylene (mg/L) Average Monthly	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0003

1,1-Dichloroethylene (mg/L) Daily Maximum	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0003
trans-1,2-Dichloroethylene (lbs/day) Average Monthly	< 0.0009	< 0.0009	< 0.001	< 0.0011	< 0.0009	< 0.0014	< 0.0009	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.001
trans-1,2-Dichloroethylene (lbs/day) Daily Maximum	< 0.0009	< 0.0009	< 0.0011	< 0.0011	< 0.0009	< 0.0014	< 0.0011	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.001
trans-1,2-Dichloroethylene (mg/L) Average Monthly	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
trans-1,2-Dichloroethylene (mg/L) Daily Maximum	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Tetrachloro-ethylene (lbs/day) Average Monthly	< 0.0014	< 0.0013	< 0.0014	< 0.0017	< 0.0014	< 0.0021	< 0.0014	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.0005
Tetrachloro-ethylene (lbs/day) Daily Maximum	< 0.0014	< 0.0013	< 0.0016	< 0.0017	< 0.0014	< 0.0021	< 0.0016	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.0005
Tetrachloro-ethylene (mg/L) Average Monthly	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001
Tetrachloro-ethylene (mg/L) Daily Maximum	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0001
Toluene (lbs/day) Average Monthly	< 0.0018	< 0.0017	< 0.0019	< 0.0023	0.0127	< 0.0028	< 0.0018	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0016
Toluene (lbs/day) Daily Maximum	< 0.0018	< 0.0017	< 0.0021	< 0.0023	0.0127	< 0.0028	< 0.0021	< 0.0022	< 0.0024	< 0.002	< 0.0023	< 0.0016
Toluene (mg/L) Average Monthly	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0028	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0003
Toluene (mg/L) Daily Maximum	< 0.0004	< 0.0004	< 0.0004	< 0.0004	0.0028	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0003
Trichloroethylene (lbs/day) Average Monthly	< 0.0014	< 0.0013	< 0.0014	< 0.0017	< 0.0014	< 0.0021	< 0.0014	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.001
Trichloroethylene (lbs/day) Daily Maximum	< 0.0014	< 0.0013	< 0.0016	< 0.0017	< 0.0014	< 0.0021	< 0.0016	< 0.0017	< 0.0018	< 0.0015	< 0.0018	< 0.001

Trichloroethylene (mg/L) Average Monthly	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0002
Trichloroethylene (mg/L) Daily Maximum	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0002
PCBs (Dry Weather) (pg/L) Daily Maximum					6.54							
Vinyl Chloride (lbs/day) Average Monthly	< 0.0009	< 0.0009	< 0.001	< 0.0011	< 0.0009	< 0.0014	< 0.0009	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.0003
Vinyl Chloride (lbs/day) Daily Maximum	< 0.0009	< 0.0009	< 0.0011	< 0.0011	< 0.0009	< 0.0014	< 0.0011	< 0.0011	< 0.0012	< 0.001	< 0.0012	< 0.0003
Vinyl Chloride (mg/L) Average Monthly	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0001
Vinyl Chloride (mg/L) Daily Maximum	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0001
Acute WET - Ceriodaphnia Survival (TUa) Daily Maximum					1						1	
Chronic WET - Ceriodaphnia Survival (TUc) Daily Maximum					1.4						1.4	
Chronic WET - Ceriodaphnia Reproduction (TUc) Daily Maximum					1.4						1.4	
Acute WET - Pimephales Survival (TUa) Daily Maximum					1						1	
Chronic WET - Pimephales Survival (TUc) Daily Maximum					1.4						1.4	
Chronic WET - Pimephales Growth (TUc) Daily Maximum					1.4						1.4	

DMR Data for Outfall 013 (from May 1, 2018 to April 30, 2019)

Parameter	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18
pH (S.U.) Daily Maximum					7.30							
CBOD5 (mg/L) Daily Maximum					17.9							
COD (mg/L) Daily Maximum					114							
TSS (mg/L) Daily Maximum					66.7							
Oil and Grease (mg/L) Daily Maximum					< 1.4							
TKN (mg/L) Daily Maximum					3.4							
Total Phosphorus (mg/L) Daily Maximum					1.1							
Total Chromium (mg/L) Daily Maximum					0.0043							
Total Copper (mg/L) Daily Maximum					0.0224							
Total Cyanide (mg/L) Daily Maximum					0.0032							
Dissolved Iron (mg/L) Daily Maximum					< 0.111							
Total Lead (mg/L) Daily Maximum					0.0188							
Total Nickel (mg/L) Daily Maximum					0.0071							
Total Zinc (mg/L) Daily Maximum					0.237							
2-Chlorophenol (mg/L) Daily Maximum					< 0.0004							
2,4-Dichlorophenol (mg/L) Daily Maximum					< 0.0004							
2,4-Dimethylphenol (mg/L) Daily Maximum					< 0.0002							
Fluorene (mg/L) Daily Maximum					< 0.0009							
2,4-Dinitrophenol (mg/L) Daily Maximum					< 0.002							

2,4-Dinitrotoluene (mg/L) Daily Maximum					< 0.001							
2,6-Dinitrotoluene (mg/L) Daily Maximum					< 0.0005							
4,6-dinitro-o-cresol (mg/L) Daily Maximum					< 0.0013							
2-Nitrophenol (mg/L) Daily Maximum					< 0.0008							
4-Nitrophenol (mg/L) Daily Maximum					< 0.0006							
Phenol (mg/L) Daily Maximum					< 0.0003							
Acenaphthene (mg/L) Daily Maximum					< 0.0011							
Acenaphthylene (mg/L) Daily Maximum					< 0.0008							
Acrylonitrile (mg/L) Daily Maximum					< 0.0008							
Anthracene (mg/L) Daily Maximum					< 0.0006							
Chlorobenzene (mg/L) Daily Maximum					< 0.0004							
1,2-Dichlorobenzene (mg/L) Daily Maximum					< 0.0013							
1,3-Dichlorobenzene (mg/L) Daily Maximum					< 0.002							
1,4-Dichlorobenzene (mg/L) Daily Maximum					< 0.0013							
1,3-Dichloro-propylene (mg/L) Daily Maximum					< 0.0005							
1,2,4-Trichloro-benzene (mg/L) Daily Maximum					< 0.0013							
Ethylbenzene (mg/L) Daily Maximum					< 0.0003							
Hexachloro-benzene (mg/L) Daily Maximum					< 0.0004							

Nitrobenzene (mg/L) Daily Maximum					< 0.0006							
Benzene (mg/L) Daily Maximum					< 0.0004							
Benzo(a)-Anthracene (mg/L) Daily Maximum					< 0.0006							
Benzo(a)Pyrene (mg/L) Daily Maximum					< 0.0007							
Benzo(k)Fluor-anthene (mg/L) Daily Maximum					< 0.0007							
3,4-Benzo-fluoranthene (mg/L) Daily Maximum					< 0.0014							
Carbon Tetrachloride (mg/L) Daily Maximum					< 0.0002							
Chloroethane (mg/L) Daily Maximum					< 0.0003							
1,1,1-Trichloroethane (mg/L) Daily Maximum					< 0.0002							
1,1,2-Trichloroethane (mg/L) Daily Maximum					< 0.0004							
1,1-Dichloroethane (mg/L) Daily Maximum					< 0.0003							
1,2-Dichloroethane (mg/L) Daily Maximum					< 0.0004							
1,2-Dichloropropane (mg/L) Daily Maximum					< 0.0004							
Bis(2-Ethyl-hexyl)Phthalate (mg/L) Daily Maximum					< 0.001							
Chloroform (mg/L) Daily Maximum					< 0.0003							
Chrysene (mg/L) Daily Maximum					< 0.0009							
Diethyl Phthalate (mg/L) Daily Maximum					< 0.001							

Dimethyl Phthalate (mg/L) Daily Maximum					< 0.0008							
Di-n-Butyl Phthalate (mg/L) Daily Maximum					< 0.0008							
Fluoranthene (mg/L) Daily Maximum					< 0.0008							
Hexachloro-butadiene (mg/L) Daily Maximum					< 0.0001							
Hexachloroethane (mg/L) Daily Maximum					< 0.0012							
Methyl Chloride (mg/L) Daily Maximum					< 0.0001							
Methylene Chloride (mg/L) Daily Maximum					0.0024							
Naphthalene (mg/L) Daily Maximum					< 0.0011							
Phenanthrene (mg/L) Daily Maximum					< 0.0006							
Pyrene (mg/L) Daily Maximum					< 0.0016							
1,1-Dichloroethylene (mg/L) Daily Maximum					< 0.0001							
trans-1,2-Dichloroethylene (mg/L) Daily Maximum					< 0.0002							
Tetrachloro-ethylene (mg/L) Daily Maximum					< 0.0003							
Toluene (mg/L) Daily Maximum					< 0.0004							
Trichloroethylene (mg/L) Daily Maximum					< 0.0003							
Vinyl Chloride (mg/L) Daily Maximum					< 0.0002							

DMR Data for Outfall 019 (from May 1, 2018 to April 30, 2019)

Parameter	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18	JUN-18	MAY-18
pH (S.U.) Daily Maximum					7.41							
CBOD5 (mg/L) Daily Maximum					8.5							
COD (mg/L) Daily Maximum					37.4							
TSS (mg/L) Daily Maximum					27.6							
Oil and Grease (mg/L) Daily Maximum					< 1.4							
TKN (mg/L) Daily Maximum					0.94							
Total Phosphorus (mg/L) Daily Maximum					0.17							
Total Chromium (mg/L) Daily Maximum					< 0.0031							
Total Copper (mg/L) Daily Maximum					0.0098							
Total Cyanide (mg/L) Daily Maximum					< 0.002							
Dissolved Iron (mg/L) Daily Maximum					< 0.111							
Total Lead (mg/L) Daily Maximum					0.0058							
Total Nickel (mg/L) Daily Maximum					< 0.0031							
Total Zinc (mg/L) Daily Maximum					0.169							
2-Chlorophenol (mg/L) Daily Maximum					< 0.0004							
2,4-Dichlorophenol (mg/L) Daily Maximum					< 0.0004							
2,4-Dimethylphenol (mg/L) Daily Maximum					< 0.0002							
Fluorene (mg/L) Daily Maximum					< 0.0009							
2,4-Dinitrophenol (mg/L) Daily Maximum					< 0.002							

2,4-Dinitrotoluene (mg/L) Daily Maximum					< 0.001							
2,6-Dinitrotoluene (mg/L) Daily Maximum					< 0.0005							
4,6-dinitro-o-cresol (mg/L) Daily Maximum					< 0.0013							
2-Nitrophenol (mg/L) Daily Maximum					< 0.0008							
4-Nitrophenol (mg/L) Daily Maximum					< 0.0006							
Phenol (mg/L) Daily Maximum					< 0.0003							
Acenaphthene (mg/L) Daily Maximum					< 0.0011							
Acenaphthylene (mg/L) Daily Maximum					< 0.0008							
Acrylonitrile (mg/L) Daily Maximum					< 0.0008							
Anthracene (mg/L) Daily Maximum					< 0.0006							
Chlorobenzene (mg/L) Daily Maximum					< 0.0004							
1,2-Dichlorobenzene (mg/L) Daily Maximum					< 0.0013							
1,3-Dichlorobenzene (mg/L) Daily Maximum					< 0.002							
1,4-Dichlorobenzene (mg/L) Daily Maximum					< 0.0013							
1,3-Dichloro-propylene (mg/L) Daily Maximum					< 0.0005							
1,2,4-Trichloro-benzene (mg/L) Daily Maximum					< 0.0013							
Ethylbenzene (mg/L) Daily Maximum					< 0.0003							
Hexachloro-benzene (mg/L) Daily Maximum					< 0.0004							

Nitrobenzene (mg/L) Daily Maximum					< 0.0006							
Benzene (mg/L) Daily Maximum					< 0.0004							
Benzo(a)-Anthracene (mg/L) Daily Maximum					< 0.0006							
Benzo(a)Pyrene (mg/L) Daily Maximum					< 0.0007							
Benzo(k)Fluor-anthene (mg/L) Daily Maximum					< 0.0007							
3,4-Benzo-fluoranthene (mg/L) Daily Maximum					< 0.0014							
Carbon Tetrachloride (mg/L) Daily Maximum					< 0.0002							
Chloroethane (mg/L) Daily Maximum					< 0.0003							
1,1,1-Trichloroethane (mg/L) Daily Maximum					< 0.0002							
1,1,2-Trichloroethane (mg/L) Daily Maximum					< 0.0004							
1,1-Dichloroethane (mg/L) Daily Maximum					< 0.0003							
1,2-Dichloroethane (mg/L) Daily Maximum					< 0.0004							
1,2-Dichloropropane (mg/L) Daily Maximum					< 0.0004							
Bis(2-Ethyl-hexyl)Phthalate (mg/L) Daily Maximum					< 0.001							
Chloroform (mg/L) Daily Maximum					< 0.0003							
Chrysene (mg/L) Daily Maximum					< 0.0009							
Diethyl Phthalate (mg/L) Daily Maximum					< 0.001							

Dimethyl Phthalate (mg/L) Daily Maximum					< 0.0008							
Di-n-Butyl Phthalate (mg/L) Daily Maximum					< 0.0008							
Fluoranthene (mg/L) Daily Maximum					< 0.0008							
Hexachloro-butadiene (mg/L) Daily Maximum					< 0.0001							
Hexachloroethane (mg/L) Daily Maximum					< 0.0012							
Methyl Chloride (mg/L) Daily Maximum					< 0.0001							
Methylene Chloride (mg/L) Daily Maximum					0.0029							
Naphthalene (mg/L) Daily Maximum					< 0.0011							
Phenanthrene (mg/L) Daily Maximum					< 0.0006							
Pyrene (mg/L) Daily Maximum					< 0.0016							
1,1-Dichloroethylene (mg/L) Daily Maximum					< 0.0001							
trans-1,2-Dichloroethylene (mg/L) Daily Maximum					< 0.0002							
Tetrachloro-ethylene (mg/L) Daily Maximum					< 0.0003							
Toluene (mg/L) Daily Maximum					< 0.0004							
Trichloroethylene (mg/L) Daily Maximum					< 0.0003							
PCBs (Wet Weather) (pg/L) Daily Maximum					2802.88							
Vinyl Chloride (mg/L) Daily Maximum					< 0.0002							

Whole Effluent Toxicity (WET)

For Outfall 009, ☒ **Acute** ☒ **Chronic** WET Testing was completed:

☐ For the permit renewal application (4 tests).
☒ Semi-annual throughout the permit term as recommended by DRBC.
☐ Quarterly throughout the permit term and a TIE/TRE was conducted.
☐ Other:

The dilution series used for the tests was: 100%, 60%, 30%, 10%, and 5%. The Target Instream Waste Concentration (TIWC) to be used for analysis of the results is: 30.

Summary of Four Most Recent Test Results

(NOTE – Enter results into one table, depending on which data analysis method was used).

NOEC/LC50 Data Analysis

	***Ceriodaphnia* Results (% Effluent)**			***Pimephales* Results (% Effluent)**			
Test Date	**NOEC Survival**	**NOEC Reproduction**	**LC50**	**NOEC Survival**	**NOEC Growth**	**LC50**	**Pass? ***
8/9/2014	100 %	100 %	100 %	100 %	100 %	100 %	Pass
1/27/2015	100 %	100 %	100 %	100 %	100 %	100 %	Pass
8/4/2015	100 %	100 %	100 %	100 %	100 %	100 %	Pass
3/15/2016	100 %	100 %	100 %	100 %	100 %	100 %	Pass

***** *A "passing" result is that which is greater than or equal to the TIWC value.*

Evaluation of Test Type, IWC and Dilution Series for Renewed Permit

Acute Partial Mix Factor (PMFa): **0** Chronic Partial Mix Factor (PMFc): **1.009**

1. Determine IWC – Acute (IWCa):

$(Q_d \times 1.547) / ((Q_{7\text{-}10} \times PMFa) + (Q_d \times 1.547))$

[(1.72 MGD x 1.547) / ((0.0001 cfs x 0) + (1.72 MGD x 1.547))] x 100 = **100%**

Is IWCa < 1%? ☐ **YES** ☒ **NO (YES - Acute Tests Required OR NO - Chronic Tests Required)**

If the discharge is to the tidal portion of the Delaware River, indicate how the type of test was determined:

Type of Test for Permit Renewal: **Chronic**

2b. Determine Target IWCc (If Chronic Tests Required)

$(Q_d \times 1.547) / (Q_{7\text{-}10} \times PMFc) + (Q_d \times 1.547)$

[(1.72 MGD x 1.547) / ((1 cfs x 1.009) + (1.72 MGD x 1.547))] x 100 = **72.6%**

3. Determine Dilution Series

(NOTE – check Attachment C of WET SOP for dilution series based on TIWCa or TIWCc, whichever applies).

Dilution Series = 100%, 86%, 72%, 36%, and 18%.

WET Limits

Has reasonable potential been determined? ☐ YES ☒ NO

Will WET limits be established in the permit? ☐ YES ☒ NO

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.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TSS	XXX	XXX	XXX	30.0	45.0	75.0	1/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Oil and Grease	XXX	XXX	XXX	15.0	XXX	30	1/month	Grab

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/month	Grab
Temperature (ºF)	XXX	XXX	XXX	XXX	XXX	91.0	2/month	I-S
Total Zinc	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/quarter	Grab

Proposed Effluent Limitations and Monitoring Requirements

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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 008, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/month	Grab
Temperature (ºF)	XXX	XXX	XXX	XXX	XXX	91.0	2/month	I-S
TSS	XXX	XXX	XXX	30.0	45.0	75.0	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	1000.0 Avg Qrtly	2000.0 Daily Max	2500	1/quarter	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	Grab

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 009, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	5/week	Grab
BOD5 Industrial Influent	XXX	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
BOD5	343	916	XXX	24	64	80	1/week	24-Hr Composite
BOD5 % Removal (%) Percent Removal	XXX	XXX	XXX	88.5	XXX	XXX	1/week	Calculation
TSS Industrial Influent	XXX	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
TSS	429.0	644 Wkly Avg	XXX	30.0	45.0 Wkly Avg	75.0	1/week	24-Hr Composite
TSS % Removal (%) Percent Removal	XXX	XXX	XXX	85	XXX	XXX	1/week	Calculation
Total Dissolved Solids	Report	Report	XXX	1000	2000	2500	1/week	24-Hr Composite
Ammonia	500.0	XXX	XXX	35.0	XXX	70.0	1/month	24-Hr Composite
Total Cadmium	Report Avg Qrtly	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Composite
Total Chromium	15.866	39.643	XXX	1.110	2.770	3.463	1/month	24-Hr Composite
Total Copper	20.752	48.373	XXX	1.450	3.380	3.625	1/month	24-Hr Composite
Total Cyanide	6.011	17.174	XXX	0.420	1.200	1.5	1/month	24-Hr Composite

Outfall 009, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Lead	4.580	9.875	XXX	0.320	0.690	0.8	1/month	24-Hr Composite
Total Nickel	24.186	56.960	XXX	1.690	3.980	4.225	1/month	24-Hr Composite
Total Zinc	15.027	37.353	XXX	1.05	2.61	3.26	1/month	24-Hr Composite
2-Chlorophenol	0.444	1.403	XXX	0.031	0.098	0.123	1/month	24-Hr Composite
2,4-Dichlorophenol	0.558	1.603	XXX	0.039	0.112	0.14	1/month	24-Hr Composite
2,4-Dimethylphenol	0.258	0.515	XXX	0.018	0.036	0.045	1/month	24-Hr Composite
Fluorene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
2,4-Dinitrophenol	1.016	1.760	XXX	0.071	0.123	0.178	1/month	24-Hr Composite
2,4-Dinitrotoluene	1.617	4.079	XXX	0.113	0.285	0.356	1/month	24-Hr Composite
2,6-Dinitrotoluene	3.654	9.174	XXX	0.255	0.641	0.801	1/month	24-Hr Composite
4,6-dinitro-o-cresol	1.116	3.964	XXX	0.078	0.277	0.346	1/month	24-Hr Composite
2-Nitrophenol	0.587	0.987	XXX	0.041	0.069	0.103	1/month	24-Hr Composite
4-Nitrophenol	1.030	1.775	XXX	0.072	0.124	0.18	1/month	24-Hr Composite
Phenol	0.215	0.372	XXX	0.015	0.026	0.038	1/month	24-Hr Composite
Acenaphthene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
Acenaphthylene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
Acrylonitrile	1.374	3.463	XXX	0.096	0.242	0.302	1/month	Composite
Anthracene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
Chlorobenzene	0.214	0.400	XXX	0.015	0.028	0.038	1/month	Composite

Outfall 009, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
1,2-Dichlorobenzene	1.102	2.333	XXX	0.077	0.163	0.193	1/month	24-Hr Composite
1,3-Dichlorobenzene	0.444	0.630	XXX	0.031	0.044	0.078	1/month	24-Hr Composite
1,4-Dichlorobenzene	0.215	0.401	XXX	0.015	0.028	0.038	1/month	24-Hr Composite
1,3-Dichloro-propylene	0.415	0.630	XXX	0.029	0.044	0.073	1/month	Composite
1,2,4-Trichloro-benzene	0.973	2.00	XXX	0.068	0.140	0.17	1/month	24-Hr Composite
Ethylbenzene	0.458	1.546	XXX	0.032	0.108	0.135	1/month	Composite
Hexachloro-benzene	0.214	0.400	XXX	0.015	0.028	0.038	1/month	24-Hr Composite
Nitrobenzene	0.386	0.973	XXX	0.027	0.068	0.085	1/month	24-Hr Composite
Benzene	0.530	1.946	XXX	0.037	0.136	0.17	1/month	Composite
Benzo(a)-Anthracene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
Benzo(a)Pyrene	0.329	0.873	XXX	0.023	0.061	0.076	1/month	24-Hr Composite
Benzo(k)Fluor-anthene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
3,4-Benzo-fluoranthene	0.329	0.873	XXX	0.023	0.061	0.076	1/month	24-Hr Composite
Bromoform	XXX	Report	XXX	XXX	Report	XXX	1/month	Composite
Carbon Tetrachloride	0.258	0.544	XXX	0.018	0.038	0.045	1/month	Composite
Chlorodibromo-methane	XXX	Report	XXX	XXX	Report	XXX	1/month	Composite
Chloroethane	1.488	3.835	XXX	0.104	0.268	0.335	1/month	Composite
1,1,1-Trichloroethane	0.300	0.774	XXX	0.021	0.054	0.068	1/month	Composite
1,1,2-Trichloroethane	0.300	0.774	XXX	0.021	0.054	0.068	1/month	Composite

Outfall 009, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
1,1-Dichloroethane	0.315	0.844	XXX	0.022	0.059	0.074	1/month	Composite
1,2-Dichloroethane	0.973	3.02	XXX	0.068	0.211	0.264	1/month	Composite
1,2-Dichloropropane	2.190	3.292	XXX	0.153	0.230	0.383	1/month	Composite
Dichlorobromo-methane	XXX	Report	XXX	XXX	Report	XXX	1/month	Composite
Bis(2-Ethyl-hexyl)Phthalate	1.474	3.993	XXX	0.103	0.279	0.349	1/month	24-Hr Composite
Chloroform	0.300	0.658	XXX	0.021	0.046	0.053	1/month	Composite
Chrysene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
Diethyl Phthalate	1.159	2.905	XXX	0.081	0.203	0.254	1/month	24-Hr Composite
Dimethyl Phthalate	0.272	0.673	XXX	0.019	0.047	0.059	1/month	24-Hr Composite
Di-n-Butyl Phthalate	0.386	0.816	XXX	0.027	0.057	0.068	1/month	24-Hr Composite
Fluoranthene	0.356	0.973	XXX	0.025	0.068	0.085	1/month	24-Hr Composite
Hexachloro-butadiene	0.286	0.701	XXX	0.020	0.049	0.061	1/month	24-Hr Composite
Hexachloroethane	0.300	0.774	XXX	0.021	0.054	0.068	1/month	24-Hr Composite
Methyl Chloride	1.230	2.719	XXX	0.086	0.190	0.215	1/month	Composite
Methylene Chloride	0.572	1.274	XXX	0.040	0.089	0.1	1/month	Composite
Naphthalene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
Phenanthrene	0.315	0.844	XXX	0.022	0.059	0.074	1/month	24-Hr Composite
Total Phenolics	XXX	Report	XXX	XXX	Report	XXX	1/month	24-Hr Composite
Pyrene	0.358	0.959	XXX	0.025	0.067	0.084	1/month	24-Hr Composite

Outfall 009, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
1,1-Dichloroethylene	0.229	0.358	XXX	0.016	0.025	0.04	1/month	Composite
trans-1,2-Dichloroethylene	0.300	0.774	XXX	0.021	0.054	0.068	1/month	Composite
Tetrachloro-ethylene	0.315	0.801	XXX	0.022	0.056	0.07	1/month	Composite
Toluene	0.372	1.145	XXX	0.026	0.080	0.1	1/month	Composite
Trichloroethylene	0.300	0.774	XXX	0.021	0.054	0.068	1/month	Composite
PCBs (Dry Weather) (pg/L)	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	24-Hr Composite
Vinyl Chloride	1.488	3.835	XXX	0.104	0.268	0.335	1/month	Composite
Chronic WET - Ceriodaphnia Survival (TUc)	XXX	XXX	XXX	XXX	Report	XXX	See Permit	24-Hr Composite
Chronic WET - Ceriodaphnia Reproduction (TUc)	XXX	XXX	XXX	XXX	Report	XXX	See Permit	24-Hr Composite
Chronic WET - Pimephales Survival (TUc)	XXX	XXX	XXX	XXX	Report	XXX	See Permit	24-Hr Composite
Chronic WET - Pimephales Growth (TUc)	XXX	XXX	XXX	XXX	Report	XXX	See Permit	24-Hr Composite

Proposed Effluent Limitations and Monitoring Requirements

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Outfall 013, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Copper	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Cyanide	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Outfall 013, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
2-Chlorophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,4-Dichlorophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,4-Dimethylphenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Fluorene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,4-Dinitrophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,4-Dinitrotoluene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,6-Dinitrotoluene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
4,6-dinitro-o-cresol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2-Nitrophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
4-Nitrophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Phenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Acenaphthene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Acenaphthylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Acrylonitrile	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Anthracene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chlorobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,2-Dichlorobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,3-Dichlorobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,4-Dichlorobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,3-Dichloro-propylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Outfall 013, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
1,2,4-Trichloro-benzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Ethylbenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Hexachloro-benzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Nitrobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Benzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Benzo(a)-Anthracene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Benzo(a)Pyrene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Benzo(k)Fluor-anthene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
3,4-Benzo-fluoranthene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Carbon Tetrachloride	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,1,1-Trichloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,1,2-Trichloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,1-Dichloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,2-Dichloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,2-Dichloropropane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Bis(2-Ethyl-hexyl)Phthalate	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chloroform	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chrysene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Diethyl Phthalate	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Outfall 013, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Dimethyl Phthalate	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Di-n-Butyl Phthalate	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Fluoranthene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Hexachloro-butadiene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Hexachloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Methyl Chloride	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Methylene Chloride	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Naphthalene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Phenanthrene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Pyrene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,1-Dichloroethylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
trans-1,2-Dichloroethylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Tetrachloro-ethylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Toluene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Trichloroethylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Vinyl Chloride	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

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 019, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Copper	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Cyanide	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Nickel	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2-Chlorophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Outfall 019, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
2,4-Dichlorophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,4-Dimethylphenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Fluorene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,4-Dinitrophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,4-Dinitrotoluene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2,6-Dinitrotoluene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
4,6-dinitro-o-cresol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
2-Nitrophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
4-Nitrophenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Phenol	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Acenaphthene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Acenaphthylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Acrylonitrile	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Anthracene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chlorobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,2-Dichlorobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,3-Dichlorobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,4-Dichlorobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,3-Dichloro-propylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,2,4-Trichloro-benzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Outfall 019, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Ethylbenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Hexachloro-benzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Nitrobenzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Benzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Benzo(a)-Anthracene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Benzo(a)Pyrene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Benzo(k)Fluor-anthene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
3,4-Benzo-fluoranthene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Carbon Tetrachloride	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,1,1-Trichloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,1,2-Trichloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,1-Dichloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,2-Dichloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,2-Dichloropropane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Bis(2-Ethyl-hexyl)Phthalate	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chloroform	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Chrysene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Diethyl Phthalate	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Dimethyl Phthalate	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Outfall 019, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Di-n-Butyl Phthalate	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Fluoranthene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Hexachloro-butadiene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Hexachloroethane	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Methyl Chloride	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Methylene Chloride	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Naphthalene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Phenanthrene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Pyrene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,1-Dichloroethylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
trans-1,2-Dichloroethylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Tetrachloro-ethylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Toluene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Trichloroethylene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
PCBs (Wet Weather) (pg/L)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Vinyl Chloride	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab