Pennsylvania Department of Environmental Protection

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0012769**
Facility Type	**Industrial**	APS ID	**1110918**
Major / Minor	**Major**	Authorization ID	**1479516**

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 19007-3606
Applicant Contact	Brandon Shimp	Facility Contact	Brandon Shimp
Applicant Phone	(215) 781-4737	Facility Phone	(215) 781-4737
Client ID	88361	Site ID	812459
SIC Code	2821	Municipality	Bristol Township
SIC Description	Manufacturing - Plastics Materials and Resins	County	Bucks
Date Application Received	April 2, 2024	EPA Waived?	No
Date Application Accepted		If No, Reason	DEP Discretion

Purpose of Application: Permit Renewal.

Approve	Deny	Signatures	Date
X		Ketan Thaker Ketan Thaker / Project Manager	3/4/2025
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	03/05/2025

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.

Rohm and Haas has submitted minor changes to the renewal application on September 27, 2024 regarding outfall 008 and outfall 009. Rohm and Haas's primary discharge is treated industrial process water from the Industrial Wastewater Treatment Plant (IWTP) to Hog Run through Outfall 009. An additional permitted discharge from Outfall 008 is for site stormwater runoff combined with non-contact cooling water, which discharges into Otter Creek. Due to changes requested by an on-site tenant, Rohm and Haas has proposed to divert the non-contact cooling water (from Trinseo) that is currently discharging through Outfall 008 to the Rohm and Haas IWTP, and ultimately discharged through Outfall 009. The change in flows for each Outfall is approximately 13 gallons per minute (GPM) or 0.019 million gallons per day (MGD). This will result in new proposed average flow increase to 0.622 MGD from 0.603 at Outfall 009 and decrease in proposed average flow from 0.02 MGD to 0.010 MGD at Outfall 008. The design flow will remain the same for (1.716 MGD) at Outfall 009 and 0.529 MGD at Outfall 008.

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 and NCCW	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.

Summary of Review

This permit renewal includes quarterly monitoring requirement for PFOA, PFOS, PFBS and HFPO-DA as all these four PFAS related compounds were detected at elevated concentration in the effluent at Outfall 001, which is consistent with SOP. We have also included Part C requirement no. VI for submission of PFAS Reduction Plan in the permit.

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 was revised to 91 ^{o}F from 110 ^{o}F based on DRBC Docket No. D-1989-002-4 during last permit renewal.

This permit renewal includes quarterly monitoring requirement for PFOA, PFOS, PFBS and HFPO-DA as all these four PFAS related compounds were detected at elevated concentrations in the effluent at Outfall 003, which is consistent with SOP. We have also included Part C requirement no. VI for submission of PFAS Reduction Plan in the permit.

We have revised sampling frequency to semiannually and added benchmark values for parameters under Appendix F (Chemicals and Allied Products) of General Permit PAG-03 for discharge of stormwater associated with industrial activities at Outfall 003. We have also added semiannual monitoring for Oil and Grease for Outfall 003 in the permit.

The proposed effluent limits for Outfall 003 are as follows:

Parameter	Discharge limitations (Concentrations mg/l)			Criteria
	Average Month	Daily Max.	Inst. Max	
Temperature (^{o}F)		91 ^{o}F		DRBC
pH	Within limits of 6 to 9 std units at all times			DRBC
COD		Monitor/Report		PAG03 Appendix F
TSS		Monitor/Report		PAG03 Appendix F
Nitrate-Nitrite as N		Monitor/Report		PAG03 Appendix F
Total Nitrogen		Monitor/Report		PAG03 Appendix F
Total Phosphorus		Monitor/Report		PAG03 Appendix F
Aluminum		Monitor/Report		PAG03 Appendix F
Iron		Monitor/Report		PAG03 Appendix F
Lead		Monitor/Report		PAG03 Appendix F
Zinc		Monitor/Report		PAG03 Appendix F
PFOA (ng/L)		Monitor/Report		SOP for PFAS
PFOS (ng/L)		Monitor/Report		SOP for PFAS
PFBS (ng/L)		Monitor/Report		SOP for PFAS
HFPO-DA (ng/L)		Monitor/Report		SOP for PFAS

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/Trinseo), 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,

Summary of Review

discharges 82,080 GPD of NCCW from Arkema and varying amount from stormwater flow. Due to changes requested by an onsite tenant, Rohm and Haas has proposed to divert the non-contact cooling water (from Trinseo) that is currently discharging through Outfall 008 to the Rohm and Haas IWTP, and ultimately discharged through Outfall 009. The change in flows for each Outfall is approximately 13 gallons per minute (gpm) or 0.019 million gallons per day (MGD). This will result in new proposed average flow increase to 0.622 MGD from 0.603 at Outfall 009 and decrease in proposed average flow from 0.02 MGD to 0.010 MGD at Outfall 008. The design flow will remain the same (0.529) MGD at Outfall 008. The existing limits for pH are carried over in this renewal and effluent limits for Total Dissolved Solids, Total suspended Solids. Temperature limit was revised from 110 ºF to 91 ºF for this outfall based on DRBC Docket No. D-1989-002-4 during last permit renewal.

This permit renewal includes quarterly monitoring requirement for PFOA, PFOS, PFBS and HFPO-DA as all these four PFAS related compounds were detected at elevated concentration in the effluent at Outfall 008, which is consistent with SOP. We have also included Part C requirement no. VI for submission of PFAS Reduction Plan in the permit.

We have revised sampling frequency to semiannually and added benchmark values for parameters under Appendix F (Chemicals and Allied Products) of General Permit PAG-03 for discharge of stormwater associated with industrial activities at Outfall 008. We have also added semiannual monitoring for Oil and Grease for Outfall 008 in the permit.

The proposed effluent limits for Outfall 008 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
Total Dissolved Solids	1000	2000	2500	DRBC
Total Suspended Solids	30	45 av. wkly	75	DRBC
COD		Monitor/Report		PAG03 Appendix F
Nitrate-Nitrite as N		Monitor/Report		PAG03 Appendix F
Total Nitrogen		Monitor/Report		PAG03 Appendix F
Total Phosphorus		Monitor/Report		PAG03 Appendix F
Aluminum		Monitor/Report		PAG03 Appendix F
Iron		Monitor/Report		PAG03 Appendix F
Lead		Monitor/Report		PAG03 Appendix F
Zinc		Monitor/Report		PAG03 Appendix F
PFOA (ng/L)		Monitor/Report		SOP for PFAS
PFOS (ng/L)		Monitor/Report		SOP for PFAS
PFBS (ng/L)		Monitor/Report		SOP for PFAS
HFPO-DA (ng/L)		Monitor/Report		SOP for PFAS

Summary of Review

Outfall 009:

This outfall receives treated process wastewater from IWWTP serving Polymers (Bristol) plant, Trinseo plant, Research Park, 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 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.

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.

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:

Summary of Review

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

Treatment Facility: The Industrial Wastewater Treatment Plant (IWTP) is biological treatment system designed to treat up to 3.7 million gallons per day (MGD) and consists of a headworks and tailworks operation. The headworks operation consists of a splitter box, three equalization tanks, and an 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 tank, a Parshall flume, and associated pumps. There are several chemicals used for flocculation, antifoam and pH control for wastewater treatment at the treatment facility. There are few chemical additives used as oxygen scavenger and corrosion inhibitor at the treatment plant.

Technology-Based Limitations:

Calculation of Technology Based Limitations

Applicant: Rohm & Hass Company
Project Site: Bristol Plant
Application No. PA0012769
Industrial Categories and Sub Categories: OCPSF/Subpart I
Applicable ELGs: 414.91: Direct discharge point that uses End-Of-Pipe Biological Treatment
Outfall: 009
Flow: 1.566 MGD + 0.150 MGD from outside sources.
= 1.716 MGD.

Parameter	ELG allowances (mg/l)		Flow (MGD)	Mass Limitations (lbs/day)	
	Ave. Month	Max. Daily		Ave. Month	Max. Daily
Acenaphthene	0.022	0.059	1.716	0.315	0.844
Acenaphthylene	0.022	0.059	1.716	0.315	0.844
Acrylonitrile	0.096	0.242	1.716	1.374	3.463
Anthracene	0.022	0.059	1.716	0.315	0.844
Benzene	0.037	0.136	1.716	0.530	1.946
Benzo(a)anthracene	0.022	0.059	1.716	0.315	0.844
3,4-Benzofluoranthene	0.023	0.061	1.716	0.329	0.873
Benzo(k)fluoranthene	0.022	0.059	1.716	0.315	0.844
Benzo(a)pyrene	0.023	0.061	1.716	0.329	0.873
Bis(2-ethylhexyl)phthalate	0.103	0.279	1.716	1.474	3.993
Carbon Tetrachloride	0.018	0.038	1.716	0.258	0.544
Chlorobenzene	0.015	0.028	1.716	0.214	0.400
Chloroethane	0.104	0.268	1.716	1.488	3.835
Chloroform	0.021	0.046	1.716	0.300	0.658
2-Chlorophenol	0.031	0.098	1.716	0.444	1.403
Chrysene	0.022	0.059	1.716	0.315	0.844
Di-N-butyl phthalate	0.027	0.057	1.716	0.386	0.816
1,2-Dichlorobenzene	0.077	0.163	1.716	1.102	2.333
1,3-Dichlorobenzene	0.031	0.044	1.716	0.444	0.630
1,4-Dichlorobenzene	0.015	0.028	1.716	0.215	0.401
1,1-Dichloroethane	0.022	0.059	1.716	0.315	0.844
1,2-Dichloroethane	0.068	0.211	1.716	0.973	3.020
1,1-Dichloroethylene	0.016	0.025	1.716	0.229	0.358
1,2-tran-Dichloroethylene	0.021	0.054	1.716	0.300	0.774
2,4-Dichlorophenol	0.039	0.122	1.716	0.558	1.603
1,2-Dichloropropane	0.153	0.230	1.716	2.190	3.292

1,3-Dichloropropane	0.029	0.044	1.716	0.415	0.630
Diethyl phthalate	0.081	0.203	1.716	1.159	2.905
2,4-dimethylphenol	0.018	0.036	1.716	0.258	0.515
Dimethyl phthalate	0.019	0.047	1.716	0.272	0.673
4,6-Dinitro-o-cresol	0.078	0.277	1.716	1.116	3.964
2,4-Dintrophenol	0.071	0.123	1.716	1.016	1.760
2,4-Dinitrotolune	0.113	0.285	1.716	1.617	4.079
2,6-Dinitrotolune	0.255	0.641	1.716	3.654	9.174
Ethylbenzene	0.032	0.108	1.716	0.458	1.546
Fluoranthene	0.025	0.068	1.716	0.356	0.973
Fluorene	0.022	0.059	1.716	0.315	0.844
Hexachlorobenzene	0.015	0.028	1.716	0.214	0.400
Hexachlorobutadiene	0.020	0.049	1.716	0.286	0.701
Hexachloroethane	0.021	0.054	1.716	0.300	0.774
Methyl Chloride	0.086	0.198	1.716	1.230	2.719
Methylene Chloride	0.040	0.089	1.716	0.572	1.274
Naphthalene	0.022	0.059	1.716	0.315	0.844
Nitrobenzene	0.027	0.068	1.716	0.386	0.973
2-Nitrophenol	0.041	0.069	1.716	0.587	0.987
4-Nitrophenol	0.072	0.124	1.716	1.030	1.775
Phenathrene	0.022	0.059	1.716	0.315	0.844
Phenol	0.015	0.026	1.716	0.215	0.372
Pyrene	0.025	0.067	1.716	0.358	0.959
Tetrachloroethylene	0.022	0.056	1.716	0.315	0.801
Toluene	0.026	0.080	1.716	0.372	1.145
Total, Chromium	1.110	2.770	1.716	15.886	39.643
Total, Copper	1.450	3.380	1.716	20.752	48.373
Total, Cyanide	0.420	1.200	1.716	6.011	17.174
Total, Lead	0.320	0.690	1.716	4.580	9.875
Total, Nickel	1.690	3.980	1.716	24.186	56.960
Total, Zinc	1.050	2.610	1.716	15.027	37.353
1,2,4-Trichlorobenzene	0.068	0.140	1.716	0.973	2.004
1,1,1-Trichloroethane	0.021	0.054	1.716	0.300	0.774
1,1,2-Trichloroethane	0.021	0.054	1.716	0.300	0.774
Trichloroethylene	0.021	0.054	1.716	0.300	0.774
Vinyl Chloride	0.104	0.268	1.716	1.488	3.835

DEVELOPMENT OF EFFLUENT LIMITS WORKSHEET

PROJECT NAME: ROHM & HAAS COMPANY
NPDES APPLICATION NO. PA0012769 OUTFALL 009 FLOW: 1.716 mgd

PARAMETER	Technology Based Limit		WQBL		Final Limits				
	Concentration (mg/l)/ mass(lbs/day)		Concentration (mg/l)		Average Monthly		Maximum Daily		Inst Max.
	Average Monthly	Max. Daily	Average Monthly	Maximum Daily	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)
BOD5	45/644	120/1717	24/343	64/916	24	343	64	916	64
CBOD20	386								
TSS	57/815	183/2619	30	60	40	572	130	1860	130
pH (std units)	Within limits of 6.0 to 9.0 standard units								
True Color (Pt-Co)				100 Max					100
Free Cyanide		M/R		M/R				M/R	
Chromium (T)	1.11/15.866	2.77/39.643	N/A	N/A	1.11	15.866	2.77	39.643	2.77
Nickel (T)	1.69/24.186	3.98/56.96	N/A	N/A	1.69	24.186	3.98	56.96	4.23
Copper (T)	1.45/20.752	3.38/48.373	N/A	N/A	1.45	20.752	3.38	48.373	3.63
Lead (T)	0.32/4.580	0.69/9.875	N/A	N/A	0.32	4.580	0.69	9.875	0.80
Cyanide (T)	0.42/6.011	1.2/17.174	N/A	N/A	0.42	6.011	1.2	17.174	1.2
Zinc (T)	1.05/15.027	2.61/37.353	N/A	N/A	1.05	15.027	2.61	37.353	2.61
ACROLEIN	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ACRYLONITRILLE	0.096/1.374	0.242/3.463	N/A	N/A	0.096	1.374	0.242	3.463	0.242
BENZENE	0.037/0.530	0.136/1.946	N/A	N/A	0.037	0.530	0.136	1.946	0.136
BROMOFORM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CARBON TETRACHLORIDE	0.018/0.258	0.038/0.472	N/A	N/A	0.018	0.258	0.038	0.544	0.045
CHLOROBENZENE	0.015/0.215	0.028/0.401	N/A	N/A	0.015	0.214	0.028	0.400	0.037
CHLORODIBROMO METHANE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CHLOROETHANE	0.104/1.488	0.268/3.835	N/A	N/A	0.104	1.488	0.268	3.835	0.268
2-CHLORO-ETHYLVINYLETHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CHLOROFORM	0.021/0.301	0.046/0.658	N/A	N/A	0.021	0.301	0.046	0.658	0.052
DICHLOROBROMOMETHANE	N/A	N/A							
1,1-DICHLOROETHANE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
1,2-DICHLOROETHANE	0.068/0.973	0.211/3.020	N/A	N/A	0.068	0.973	0.211	3.020	0.211

DEVELOPMENT OF EFFLUENT LIMITS WORKSHEET

PROJECT NAME: ROHM & HAAS COMPANY
NPDES APPLICATION NO. PA0012769 OUTFALL 009 FLOW: 1.716 mgd

PARAMETER	Technology Based Limit		Water Quality Based Limit		Final Limits				
	Concentration (mg/l)/ mass(lbs/day)		Concentration (mg/l)		Average Monthly		Maximum Daily		Inst Max.
	Average Monthly	Max. Daily	Average Monthly	Maximum Daily	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)
1,1-DICHLOROETHYLENE	0.016/0.229	0.025/0.358	N/A	N/A	0.016	0.229	0.025	0.358	0.040
1,2-DICHLOROPROPANE	0.153/2.190	0.23/3.292	N/A	N/A	0.153	2.190	0.23	3.292	0.37
1,3-DICHLOROPROPYLENE	0.029/0.415	0.044/0.630	N/A	N/A	0.029	0.415	0.044	0.630	0.072
ETHYLBENZENE	0.032/0.458	0.108/1.546	N/A	N/A	0.032	0.458	0.108	1.546	0.108
METHYL BROMIDE	N/A	N/A	N/A	N/A					
METHYL CHLORIDE	0.086/01.231	0.190/2.719	N/A	N/A	0.086	1.230	0.190	2.719	0.215
METHYLENE CHLORIDE	0.04/0.572	0.089/1.274	N/A	N/A	0.040	0.572	0.089	1.274	0.100
1,1,2,2-TETRA CHLOROETHANE	N/A	N/A	N/A	N/A					
TETRACHLOROETHYLENE	0.022/0.315	0.059/0.801	N/A	N/A	0.022	0.315	0.059	0.801	0.059
TOLUENE	0.026/0.372	0.080/0.145	N/A	N/A	0.026	0.372	0.080	0.145	0.080
1,2-TRANS-DICHLOROETHYLENE	0.021/0.301	0.054/0.773	N/A	N/A	0.021	0.301	0.054	0.773	0.054
1,1,1-TRICHLOROETHANE	0.021/0.301	0.054/0.773	N/A	N/A	0.021	0.301	0.054	0.773	0.054
1,1,2-TRICHLOROETHANE	0.021/0.301	0.054/0.773	N/A	N/A	0.021	0.301	0.054	0.773	0.054
TRICHLOROETHYLE	0.021/0.301	0.054/0.773	N/A	N/A	0.021	0.301	0.054	0.773	0.054
VINYL CHLORIDE	0.104/1.488	0.268/3.835	N/A	N/A	0.104	1.488	0.268	3.835	0.268
2-CHLOROPHENOL	0.031/0.444	0.098/1.403	N/A	N/A	0.031	0.444	0.098	1.403	0.098
2,4-DICHLOROPHENOL	0.039/0.558	0.122/1.603	N/A	N/A	0.039	0.558	0.122	1.603	0.122
2,4-DIMETHYLPHENOL	0.018/0.258	0.036/0.515	N/A	N/A	0.018	0.258	0.036	0.515	0.040

DEVELOPMENT OF EFFLUENT LIMITS WORKSHEET

PROJECT NAME: ROHM & HAAS COMPANY

NPDES APPLICATION NO.: PA0012769 OUTFALL 009 FLOW: 1.716 mgd

PARAMETER	Technology Based Limit		Water Quality Based Limit		Final Limits					
	Concentration (mg/l)/ mass(lbs/day)		Concentration (mg/l)		Average Monthly		Maximum Daily		Inst Max.
	Average Monthly	Max. Daily	Average Monthly	Maximum Daily	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)
4,6-DINITRO-O-CRESOL	0.078/1.116	0.277/3.964	N/A	N/A	0.078	1.116	0.277	3.964	0.277
2,4-DINITROPHENOL	0.071/1.016	0.123/1.760	N/A	N/A	0.071	1.016	0.123	1.760	0.178
2-NITROPHENOL	0.041/0.587	0.069/0.987	N/A	N/A	0.041	0.587	0.069	0.987	0.103
4-NITROPHENOL	0.072/1.030	0.124/1.775	N/A	N/A	0.072	1.030	0.124	1.775	0.180
P-CHLORO-M-CRESOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PENTACHLOROPHENOL	N/A	N/A							
PHENOL	0.015/0.215	0.026/0.372	N/A	N/A	0.015	0.215	0.026	0.372	0.037
2,4,6-TRICHLOROPHENOL	N/A	N/A							
ACENAPHTHENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
ACENAPHTHYLENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
ANTHRACENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
BENZIDINE	N/A	N/A							
BENZO(A)ANTHRACENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
BENZO(A)PYRENE	0.023/0.329	0.061/0.873	N/A	N/A	0.023	0.329	0.061	0.873	0.061
3,4-BENZO-FLUORANTHENE	0.023/0.329	0.061/0.873	N/A	N/A	0.023	0.329	0.061	0.873	0.061
BENZO(GHI)PERYLENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BENZO(K)FLUORANTHENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
BIS(2-CHLOROETHOXY) METHANE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BIS(2-CHLOROETHYL) ETHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PAGE 3 OF 5

DEVELOPMENT OF EFFLUENT LIMITS WORKSHEET

PROJECT NAME: ROHM & HAAS COMPANY

NPDES APPLICATION NO. PA0012769 OUTFALL 009 FLOW: 1.716 mgd

PARAMETER	Technology Based Limit		Water Quality Based Limit		Final Limits				
	Concentration (mg/l)/ mass(lbs/day)		Concentration (mg/l)		Average Monthly		Maximum Daily		Inst Max.
	Average Monthly	Max. Daily	Average Monthly	Maximum Daily	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)
BIS(2-CHLOROISOPROPYL) ETHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BIS(2-ETHYLHEXYL) PHTHALATE	0.103/1.474	0.279/3.993	N/A	N/A	0.1031	1.474	0.279	3.993	0.279
4-BROMOPHENOLPHENOL ETHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUTYLBENZYLPHTHALATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-CHLORONAPHTHALENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-CHLOROPHENYL PHENYL ETHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CHRYSENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
DIBENZO(AH) ANTHRACENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-DICHLOROBENZENE	0.077/1.102	0.163/2.333	N/A	N/A	0.077	1.102	0.163	2.333	0.163
1,3-DICHLOROBENZENE	0.031/0.444	0.044/0.630	N/A	N/A	0.031	0.444	0.044	0.630	0.075
1,4-DICHLOROBENZENE	0.015/0.215	0.028/0.401	N/A	N/A	0.015	0.215	0.028	0.401	0.038
3,3-DICHLOROBENZIDINE	N/A	N/A	N/A	N/A					
DIETHYLPHTHALATE	0.081/1.159	0.203/2.905	N/A	N/A	0.081	1.159	0.203	2.905	0.203
DIMETHLYPHTHALATE	0.019/0.272	0.047/0.673	N/A	N/A	0.019	0.272	0.047	0.673	0.047
DI-N-BUTYLPHTHALATE	0.027/0.386	0.057/0.816	N/A	N/A	0.027	0.386	0.057	0.816	0.068
2,4-DINITROTOLUENE	0.113/1.617	0.285/4.079	N/A	N/A	0.113	1.617	0.285	4.079	0.285

DEVELOPMENT OF EFFLUENT LIMITS WORKSHEET

PROJECT NAME: ROHM & HAAS COMPANY
NPDES APPLICATION NO. PA0012769 OUTFALL 009 FLOW: 1.716 mgd

PARAMETER	Technology Based Limit		Water Quality Based Limit		Final Limits				
	Concentration (mg/l)/ mass(lbs/day)		Concentration (mg/l)		Average Monthly		Maximum Daily		Inst Max.
	Average Monthly	Max. Daily	Average Monthly	Maximum Daily	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)	Load (lbs/day	Conc. (mg/l)
2,6-DINITROTOLUENE	0.255/3.654	0.641/9.174	N/A	N/A	0.255	3.654	0.641	9.174	0.641
DI-N-OCTYLPHTHALATE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-DIPHENYL-HYDRAZINE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FLUORANTHENE	0.025/0.356	0.068/0.973	N/A	N/A	0.025	0.356	0.068	0.973	0.068
FLUORENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
HEXACHLOROBENZENE	0.015/0.215	0.028/0.400	N/A	N/A	0.015	0.215	0.028	0.400	0.037
HEXACHLORO-BUTADIENE	0.02/0.286	0.049/0.701	N/A	N/A	0.02	0.286	0.049	0.701	0.049
HEXACHLORO-CYCLOPENTADIENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
HEXACHLOROETHANE	0.021/0.301	0.054/0.773	N/A	N/A	0.021	0.301	0.054	0.773	0.054
INDENO(1,2,3-CD)PYRENE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ISOPHORONE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NAPHTHALENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
NITROBENZENE	0.027/0.386	0.068/0.973	N/A	N/A	0.027	0.386	0.068	0.973	0.068
N-NITROSODI-METHYLAMINE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N-NITROSO-DI-PROPYLAMINE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N-NITROSODI PHENYLAMINE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PHENANTHRENE	0.022/0.315	0.059/0.844	N/A	N/A	0.022	0.315	0.059	0.844	0.059
PYRENE	0.025/0.358	0.067/0.959	N/A	N/A	0.025	0.358	0.067	0.959	0.067
1,2,4-TRICHLORO-BENZENE	0.068/0.973	0.140/2.004	N/A	N/A	0.068	0.973	0.140	2.004	0.140

Summary of Review

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.4, May 2023

Discharge Information

Instructions | Discharge | Stream

Facility: **Rohm & Haas Bristol Facility** NPDES Permit No.: **PA0012769** Outfall No.: **009**

Evaluation Type **Major Sewage / Industrial Waste** Wastewater Description: **Industrial**

Discharge Characteristics								
Design Flow (MGD)*	Hardness (mg/l)*	pH (SU)*	Partial Mix Factors (PMFs)				Complete Mix Times (min)	
			AFC	CFC	THH	CRL	Q_{7-10}	Q_h
1.716	128	7.52						

	Discharge Pollutant	Units	Max Discharge Conc		0 if left blank: Trib Conc	0 if left blank: Stream Conc	0.5 if left blank: Daily CV	0.5 if left blank: Hourly CV	0 if left blank: Stream CV	0 if left blank: Fate Coeff	0 if left blank: FOS	1 if left blank: Criteria Mod	1 if left blank: Chem Transl
Group 1	Total Dissolved Solids (PWS)	mg/L		987									
	Chloride (PWS)	mg/L		352									
	Bromide	mg/L	<	1									
	Sulfate (PWS)	mg/L		18.3									
	Fluoride (PWS)	mg/L		0.19									
Group 2	Total Aluminum	µg/L		10									
	Total Antimony	µg/L	<	0.68									
	Total Arsenic	µg/L	<	0.3									
	Total Barium	µg/L		20									
	Total Beryllium	µg/L	<	0.25									
	Total Boron	µg/L	<	63									
	Total Cadmium	µg/L		0.97									
	Total Chromium (III)	µg/L	<	1.4									
	Hexavalent Chromium	µg/L	<	0.25									
	Total Cobalt	µg/L		0.36									
	Total Copper	mg/L		0.0107									
	Free Cyanide	µg/L											
	Total Cyanide	µg/L	<	15									
	Dissolved Iron	µg/L		70									
	Total Iron	µg/L		490									
	Total Lead	µg/L	<	0.5									
	Total Manganese	µg/L		91									
	Total Mercury	µg/L	<	0.13									
	Total Nickel	µg/L		4.43									
	Total Phenols (Phenolics) (PWS)	µg/L	<	3									
	Total Selenium	µg/L	<	0.7									
	Total Silver	µg/L	<	0.3									
	Total Thallium	µg/L	<	0.38									
	Total Zinc	mg/L		0.0294									
	Total Molybdenum	µg/L		31									
	Acrolein	µg/L	<	2									
	Acrylamide	µg/L	<	11									
	Acrylonitrile	µg/L	<	5									
	Benzene	µg/L	<	0.45									
	Bromoform	µg/L	<	0.52									
	Carbon Tetrachloride	µg/L	<	0.24									
	Chlorobenzene	µg/L	<	0.027									
	Chlorodibromomethane	µg/L	<	0.56									
	Chloroethane	µg/L	<	0.34									
	2-Chloroethyl Vinyl Ether	µg/L	<	5									

Summary of Review

Group 3	Chloroform	µg/L	<	6.3									
	Dichlorobromomethane	µg/L	<	0.73									
	1,1-Dichloroethane	µg/L	<	0.28									
	1,2-Dichloroethane	µg/L	<	0.8									
	1,1-Dichloroethylene	µg/L	<	0.011									
	1,2-Dichloropropane	µg/L	<	0.8									
	1,3-Dichloropropylene	µg/L	<	0.45									
	1,4-Dioxane	µg/L	<	0.19									
	Ethylbenzene	µg/L	<	0.34									
	Methyl Bromide	µg/L	<	0.5									
	Methyl Chloride	µg/L	<	0.56									
	Methylene Chloride	µg/L	<	0.32									
	1,1,2,2-Tetrachloroethane	µg/L	<	0.5									
	Tetrachloroethylene	µg/L	<	0.28									
	Toluene	µg/L	<	0.38									
	1,2-trans-Dichloroethylene	µg/L	<	0.27									
	1,1,1-Trichloroethane	µg/L	<	0.26									
	1,1,2-Trichloroethane	µg/L	<	0.18									
	Trichloroethylene	µg/L	<	0.32									
	Vinyl Chloride	µg/L	<	0.37									
Group 4	2-Chlorophenol	µg/L	<	0.36									
	2,4-Dichlorophenol	µg/L	<	1									
	2,4-Dimethylphenol	µg/L	<	0.66									
	4,6-Dinitro-o-Cresol	µg/L	<	4									
	2,4-Dinitrophenol	µg/L	<	4.38									
	2-Nitrophenol	µg/L	<	1.7									
	4-Nitrophenol	µg/L	<	1.6									
	p-Chloro-m-Cresol	µg/L	<	0.28									
	Pentachlorophenol	µg/L	<	0.85									
	Phenol	µg/L	<	706									
	2,4,6-Trichlorophenol	µg/L	<	0.22									
Group 5	Acenaphthene	µg/L	<	0.98									
	Acenaphthylene	µg/L	<	0.73									
	Anthracene	µg/L	<	1.1									
	Benzidine	µg/L	<	9.1									
	Benzo(a)Anthracene	µg/L	<	0.53									
	Benzo(a)Pyrene	µg/L	<	0.61									
	3,4-Benzofluoranthene	µg/L	<	1.25									
	Benzo(ghi)Perylene	µg/L	<	0.069									
	Benzo(k)Fluoranthene	µg/L	<	0.67									
	Bis(2-Chloroethoxy)Methane	µg/L	<	0.15									
	Bis(2-Chloroethyl)Ether	µg/L	<	0.04									
	Bis(2-Chloroisopropyl)Ether	µg/L	<	0.058									
	Bis(2-Ethylhexyl)Phthalate	µg/L	<	1.5									
	4-Bromophenyl Phenyl Ether	µg/L	<	0.32									
	Butyl Benzyl Phthalate	µg/L	<	0.46									
	2-Chloronaphthalene	µg/L	<	0.059									
	4-Chlorophenyl Phenyl Ether	µg/L	<	0.22									
	Chrysene	µg/L	<	0.81									
	Dibenzo(a,h)Anthrancene	µg/L	<	0.072									
	1,2-Dichlorobenzene	µg/L	<	0.5									
	1,3-Dichlorobenzene	µg/L	<	1.8									
	1,4-Dichlorobenzene	µg/L	<	0.51									
	3,3-Dichlorobenzidine	µg/L	<	0.58									
	Diethyl Phthalate	µg/L	<	0.93									
	Dimethyl Phthalate	µg/L	<	1.44									
	Di-n-Butyl Phthalate	µg/L	<	0.75									
	2,4-Dinitrotoluene	µg/L	<	0.92									
	2,6-Dinitrotoluene	µg/L	<	1.2									
	Di-n-Octyl Phthalate	µg/L	<	0.69									
	1,2-Diphenylhydrazine	µg/L	<	0.2									
	Fluoranthene	µg/L	<	0.75									
	Fluorene	µg/L	<	0.81									
	Hexachlorobenzene	µg/L	<	0.81									
	Hexachlorobutadiene	µg/L	<	0.39									
	Hexachlorocyclopentadiene	µg/L	<	0.5									
	Hexachloroethane	µg/L	<	1									
	Indeno(1,2,3-cd)Pyrene	µg/L	<	0.085									

Summary of Review

	Isophorone	µg/L	<	0.19									
	Naphthalene	µg/L	<	0.39									
	Nitrobenzene	µg/L	<	1.4									
	n-Nitrosodimethylamine	µg/L	<	0.067									
	n-Nitrosodi-n-Propylamine	µg/L	<	0.071									
	n-Nitrosodiphenylamine	µg/L	<	0.12									
	Phenanthrene	µg/L	<	1.3									
	Pyrene	µg/L	<	1.6									
	1,2,4-Trichlorobenzene	µg/L	<	0.4									
Group 6	Aldrin	µg/L	<	0.0004									
	alpha-BHC	µg/L	<	0.0002									
	beta-BHC	µg/L	<	0.0004									
	gamma-BHC	µg/L	<	0.0003									
	delta BHC	µg/L	<	0.0006									
	Chlordane	µg/L	<	0.0073									
	4,4-DDT	µg/L	<	0.0007									
	4,4-DDE	µg/L	<	0.0003									
	4,4-DDD	µg/L	<	0.0005									
	Dieldrin	µg/L	<	0.0003									
	alpha-Endosulfan	µg/L	<	0.0007									
	beta-Endosulfan	µg/L	<	0.0003									
	Endosulfan Sulfate	µg/L	<	0.0006									
	Endrin	µg/L	<	0.0002									
	Endrin Aldehyde	µg/L	<	0.0005									
	Heptachlor	µg/L	<	0.0005									
	Heptachlor Epoxide	µg/L	<	0.0003									
	PCB-1016	µg/L	<	0.0048									
	PCB-1221	µg/L	<	0.0057									
	PCB-1232	µg/L	<	0.0052									
	PCB-1242	µg/L	<	0.0091									
	PCB-1248	µg/L	<	0.003									
	PCB-1254	µg/L	<	0.0095									
	PCB-1260	µg/L	<	0.0039									
	PCBs, Total	µg/L	<										
	Toxaphene	µg/L	<	0.049									
	2,3,7,8-TCDD	ng/L	<										
Group 7	Gross Alpha	pCi/L											
	Total Beta	pCi/L	<										
	Radium 226/228	pCi/L	<										
	Total Strontium	µg/L	<										
	Total Uranium	µg/L	<										
	Osmotic Pressure	mOs/kg											

Summary of Review

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.4, May 2023

Stream / Surface Water Information

Rohm & Haas Bristol Facility, NPDES Permit No. PA0012769, Outfall 009

Instructions | Discharge | Stream

Receiving Surface Water Name: **Delaware River**

No. Reaches to Model: 1

- (•) Statewide Criteria
- ( ) Great Lakes Criteria
- ( ) ORSANCO Criteria

Location	Stream Code*	RMI*	Elevation (ft)*	DA (mi^2)*	Slope (ft/ft)	PWS Withdrawal (MGD)	Apply Fish Criteria*
Point of Discharge	000002	117.1	13.15	7155			Yes
End of Reach 1	000002	116.8	12.8	7180			Yes

Q_{7-10}

Location	RMI	LFY (cfs/mi^2)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	117.1	0.1	26.48									100	7		
End of Reach 1	116.8	0.1	26.66												

Q_h

Location	RMI	LFY (cfs/mi^2)	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness	pH	Hardness	pH
Point of Discharge	117.1														
End of Reach 1	116.8														

Summary of Review

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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Toxics Management Spreadsheet
Version 1.4, May 2023

Model Results

Rohm & Haas Bristol Facility, NPDES Permit No. PA0012769, Outfall 009

Instructions | Results | RETURN TO INPUTS | SAVE AS PDF | PRINT | ◉ All ○ Inputs ○ Results ○ Limits

☐ *Hydrodynamics*

☑ *Wasteload Allocations*

☑ ***AFC*** CCT (min): 15 PMF: 0.120 Analysis Hardness (mg/l): 112.73 Analysis pH: 7.17

Pollutants	Stream Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	750	750	1,650	
Total Antimony	0	0		0	1,100	1,100	2,419	
Total Arsenic	0	0		0	340	340	748	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	46,190	
Total Boron	0	0		0	8,100	8,100	17,816	
Total Cadmium	0	0		0	2.263	2.41	5.3	Chem Translator of 0.939 applied
Total Chromium (III)	0	0		0	628.515	1,989	4,375	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	35.8	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	209	
Total Copper	0	0		0	15.045	15.7	34.5	Chem Translator of 0.96 applied
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	73.563	95.1	209	Chem Translator of 0.774 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1.400	1.65	3.62	Chem Translator of 0.85 applied
Total Nickel	0	0		0	518.192	519	1,142	Chem Translator of 0.998 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	Chem Translator of 0.922 applied
Total Silver	0	0		0	3.953	4.65	10.2	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	143	
Total Zinc	0	0		0	129.703	133	292	Chem Translator of 0.978 applied
Acrolein	0	0		0	3	3.0	6.6	
Acrylamide	0	0		0	N/A	N/A	N/A	
Acrylonitrile	0	0		0	650	650	1,430	

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Summary of Review

Benzene	0	0		0	640	640	1,408	
Bromoform	0	0		0	1,800	1,800	3,959	
Carbon Tetrachloride	0	0		0	2,800	2,800	6,159	
Chlorobenzene	0	0		0	1,200	1,200	2,639	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	18,000	18,000	39,591	
Chloroform	0	0		0	1,900	1,900	4,179	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	15,000	15,000	32,993	
1,1-Dichloroethylene	0	0		0	7,500	7,500	16,496	
1,2-Dichloropropane	0	0		0	11,000	11,000	24,195	
1,3-Dichloropropylene	0	0		0	310	310	682	
Ethylbenzene	0	0		0	2,900	2,900	6,379	
Methyl Bromide	0	0		0	550	550	1,210	
Methyl Chloride	0	0		0	28,000	28,000	61,586	
Methylene Chloride	0	0		0	12,000	12,000	26,394	
1,1,2,2-Tetrachloroethane	0	0		0	1,000	1,000	2,200	
Tetrachloroethylene	0	0		0	700	700	1,540	
Toluene	0	0		0	1,700	1,700	3,739	
1,2-trans-Dichloroethylene	0	0		0	6,800	6,800	14,957	
1,1,1-Trichloroethane	0	0		0	3,000	3,000	6,599	
1,1,2-Trichloroethane	0	0		0	3,400	3,400	7,478	
Trichloroethylene	0	0		0	2,300	2,300	5,059	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	560	560	1,232	
2,4-Dichlorophenol	0	0		0	1,700	1,700	3,739	
2,4-Dimethylphenol	0	0		0	660	660	1,452	
4,6-Dinitro-o-Cresol	0	0		0	80	80.0	176	
2,4-Dinitrophenol	0	0		0	660	660	1,452	
2-Nitrophenol	0	0		0	8,000	8,000	17,596	
4-Nitrophenol	0	0		0	2,300	2,300	5,059	
p-Chloro-m-Cresol	0	0		0	160	160	352	
Pentachlorophenol	0	0		0	10.305	10.3	22.7	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	460	460	1,012	
Acenaphthene	0	0		0	83	83.0	183	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	300	300	660	
Benzo(a)Anthracene	0	0		0	0.5	0.5	1.1	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	30,000	30,000	65,985	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	4,500	4,500	9,898	
4-Bromophenyl Phenyl Ether	0	0		0	270	270	594	
Butyl Benzyl Phthalate	0	0		0	140	140	308	

Summary of Review

2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	820	820	1,804	
1,3-Dichlorobenzene	0	0		0	350	350	770	
1,4-Dichlorobenzene	0	0		0	730	730	1,606	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	4,000	4,000	8,798	
Dimethyl Phthalate	0	0		0	2,500	2,500	5,499	
Di-n-Butyl Phthalate	0	0		0	110	110	242	
2,4-Dinitrotoluene	0	0		0	1,600	1,600	3,519	
2,6-Dinitrotoluene	0	0		0	990	990	2,178	
1,2-Diphenylhydrazine	0	0		0	15	15.0	33.0	
Fluoranthene	0	0		0	200	200	440	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	10	10.0	22.0	
Hexachlorocyclopentadiene	0	0		0	5	5.0	11.0	
Hexachloroethane	0	0		0	60	60.0	132	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	10,000	10,000	21,995	
Naphthalene	0	0		0	140	140	308	
Nitrobenzene	0	0		0	4,000	4,000	8,798	
n-Nitrosodimethylamine	0	0		0	17,000	17,000	37,392	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	300	300	660	
Phenanthrene	0	0		0	5	5.0	11.0	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	130	130	286	
Aldrin	0	0		0	3	3.0	6.6	
alpha-BHC	0	0		0	N/A	N/A	N/A	
beta-BHC	0	0		0	N/A	N/A	N/A	
gamma-BHC	0	0		0	0.95	0.95	2.09	
Chlordane	0	0		0	2.4	2.4	5.28	
4,4-DDT	0	0		0	1.1	1.1	2.42	
4,4-DDE	0	0		0	1.1	1.1	2.42	
4,4-DDD	0	0		0	1.1	1.1	2.42	
Dieldrin	0	0		0	0.24	0.24	0.53	
alpha-Endosulfan	0	0		0	0.22	0.22	0.48	
beta-Endosulfan	0	0		0	0.22	0.22	0.48	
Endosulfan Sulfate	0	0		0	N/A	N/A	N/A	
Endrin	0	0		0	0.086	0.086	0.19	
Endrin Aldehyde	0	0		0	N/A	N/A	N/A	
Heptachlor	0	0		0	0.52	0.52	1.14	
Heptachlor Epoxide	0	0		0	0.5	0.5	1.1	
Toxaphene	0	0		0	0.73	0.73	1.61	

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Summary of Review

☑ ***CFC*** CCT (min): 720 PMF: 0.833 Analysis Hardness (mg/l): 103.01 Analysis pH: 7.03

Pollutants	Stream Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	220	220	2,048	
Total Arsenic	0	0		0	150	150	1,397	Chem Translator of 1 applied
Total Barium	0	0		0	4,100	4,100	38,173	
Total Boron	0	0		0	1,600	1,600	14,897	
Total Cadmium	0	0		0	0.251	0.28	2.58	Chem Translator of 0.908 applied
Total Chromium (III)	0	0		0	75.935	88.3	822	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0		0	10	10.4	96.8	Chem Translator of 0.962 applied
Total Cobalt	0	0		0	19	19.0	177	
Total Copper	0	0		0	9.185	9.57	89.1	Chem Translator of 0.96 applied
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	1,500	1,500	16,462	WQC = 30 day average; PMF = 1
Total Lead	0	0		0	2.599	3.3	30.8	Chem Translator of 0.787 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.770	0.91	8.43	Chem Translator of 0.85 applied
Total Nickel	0	0		0	53.327	53.5	498	Chem Translator of 0.997 applied
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	4.600	4.99	46.5	Chem Translator of 0.922 applied
Total Silver	0	0		0	N/A	N/A	N/A	Chem Translator of 1 applied
Total Thallium	0	0		0	13	13.0	121	
Total Zinc	0	0		0	121.143	123	1,144	Chem Translator of 0.986 applied
Acrolein	0	0		0	3	3.0	27.9	
Acrylamide	0	0		0	N/A	N/A	N/A	
Acrylonitrile	0	0		0	130	130	1,210	
Benzene	0	0		0	130	130	1,210	
Bromoform	0	0		0	370	370	3,445	
Carbon Tetrachloride	0	0		0	560	560	5,214	
Chlorobenzene	0	0		0	240	240	2,234	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	3,500	3,500	32,586	
Chloroform	0	0		0	390	390	3,631	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	3,100	3,100	28,862	
1,1-Dichloroethylene	0	0		0	1,500	1,500	13,966	
1,2-Dichloropropane	0	0		0	2,200	2,200	20,483	
1,3-Dichloropropylene	0	0		0	61	61.0	568	
Ethylbenzene	0	0		0	580	580	5,400	
Methyl Bromide	0	0		0	110	110	1,024	
Methyl Chloride	0	0		0	5,500	5,500	51,207	
Methylene Chloride	0	0		0	2,400	2,400	22,345	
1,1,2,2-Tetrachloroethane	0	0		0	210	210	1,955	

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Summary of Review

Tetrachloroethylene	0	0		0	140	140	1,303	
Toluene	0	0		0	330	330	3,072	
1,2-trans-Dichloroethylene	0	0		0	1,400	1,400	13,035	
1,1,1-Trichloroethane	0	0		0	610	610	5,679	
1,1,2-Trichloroethane	0	0		0	680	680	6,331	
Trichloroethylene	0	0		0	450	450	4,190	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	110	110	1,024	
2,4-Dichlorophenol	0	0		0	340	340	3,166	
2,4-Dimethylphenol	0	0		0	130	130	1,210	
4,6-Dinitro-o-Cresol	0	0		0	16	16.0	149	
2,4-Dinitrophenol	0	0		0	130	130	1,210	
2-Nitrophenol	0	0		0	1,600	1,600	14,897	
4-Nitrophenol	0	0		0	470	470	4,376	
p-Chloro-m-Cresol	0	0		0	500	500	4,655	
Pentachlorophenol	0	0		0	7.906	7.91	73.6	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	91	91.0	847	
Acenaphthene	0	0		0	17	17.0	158	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	59	59.0	549	
Benzo(a)Anthracene	0	0		0	0.1	0.1	0.93	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	6,000	6,000	55,862	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	910	910	8,472	
4-Bromophenyl Phenyl Ether	0	0		0	54	54.0	503	
Butyl Benzyl Phthalate	0	0		0	35	35.0	326	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	160	160	1,490	
1,3-Dichlorobenzene	0	0		0	69	69.0	642	
1,4-Dichlorobenzene	0	0		0	150	150	1,397	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	800	800	7,448	
Dimethyl Phthalate	0	0		0	500	500	4,655	
Di-n-Butyl Phthalate	0	0		0	21	21.0	196	
2,4-Dinitrotoluene	0	0		0	320	320	2,979	
2,6-Dinitrotoluene	0	0		0	200	200	1,862	
1,2-Diphenylhydrazine	0	0		0	3	3.0	27.9	
Fluoranthene	0	0		0	40	40.0	372	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	2	2.0	18.6	
Hexachlorocyclopentadiene	0	0		0	1	1.0	9.31	
Hexachloroethane	0	0		0	12	12.0	112	

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Summary of Review

Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	2,100	2,100	19,552	
Naphthalene	0	0		0	43	43.0	400	
Nitrobenzene	0	0		0	810	810	7,541	
n-Nitrosodimethylamine	0	0		0	3,400	3,400	31,655	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	59	59.0	549	
Phenanthrene	0	0		0	1	1.0	9.31	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	26	26.0	242	
Aldrin	0	0		0	0.1	0.1	0.93	
alpha-BHC	0	0		0	N/A	N/A	N/A	
beta-BHC	0	0		0	N/A	N/A	N/A	
gamma-BHC	0	0		0	N/A	N/A	N/A	
Chlordane	0	0		0	0.0043	0.004	0.04	
4,4-DDT	0	0		0	0.001	0.001	0.009	
4,4-DDE	0	0		0	0.001	0.001	0.009	
4,4-DDD	0	0		0	0.001	0.001	0.009	
Dieldrin	0	0		0	0.056	0.056	0.52	
alpha-Endosulfan	0	0		0	0.056	0.056	0.52	
beta-Endosulfan	0	0		0	0.056	0.056	0.52	
Endosulfan Sulfate	0	0		0	N/A	N/A	N/A	
Endrin	0	0		0	0.036	0.036	0.34	
Endrin Aldehyde	0	0		0	N/A	N/A	N/A	
Heptachlor	0	0		0	0.0038	0.004	0.035	
Heptachlor Epoxide	0	0		0	0.0038	0.004	0.035	
Toxaphene	0	0		0	0.0002	0.0002	0.002	

☑ ***THH*** CCT (min): 720 PMF: 0.833 Analysis Hardness (mg/l): N/A Analysis pH: N/A

Pollutants	Stream Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	500,000	500,000	N/A	
Chloride (PWS)	0	0		0	250,000	250,000	N/A	
Sulfate (PWS)	0	0		0	250,000	250,000	N/A	
Fluoride (PWS)	0	0		0	2,000	2,000	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	5.6	5.6	52.1	
Total Arsenic	0	0		0	10	10.0	93.1	
Total Barium	0	0		0	2,400	2,400	22,345	
Total Boron	0	0		0	3,100	3,100	28,862	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Dissolved Iron	0	0		0	300	300	2,793	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	

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Total Manganese	0	0		0	1,000	1,000	9,310	
Total Mercury	0	0		0	0.050	0.05	0.47	
Total Nickel	0	0		0	610	610	5,679	
Total Phenols (Phenolics) (PWS)	0	0		0	5	5.0	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Silver	0	0		0	N/A	N/A	N/A	
Total Thallium	0	0		0	0.24	0.24	2.23	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	3	3.0	27.9	
Acrylamide	0	0		0	N/A	N/A	N/A	
Acrylonitrile	0	0		0	N/A	N/A	N/A	
Benzene	0	0		0	N/A	N/A	N/A	
Bromoform	0	0		0	N/A	N/A	N/A	
Carbon Tetrachloride	0	0		0	N/A	N/A	N/A	
Chlorobenzene	0	0		0	100	100.0	931	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
2-Chloroethyl Vinyl Ether	0	0		0	N/A	N/A	N/A	
Chloroform	0	0		0	5.7	5.7	53.1	
Dichlorobromomethane	0	0		0	N/A	N/A	N/A	
1,2-Dichloroethane	0	0		0	N/A	N/A	N/A	
1,1-Dichloroethylene	0	0		0	33	33.0	307	
1,2-Dichloropropane	0	0		0	N/A	N/A	N/A	
1,3-Dichloropropylene	0	0		0	N/A	N/A	N/A	
Ethylbenzene	0	0		0	68	68.0	633	
Methyl Bromide	0	0		0	100	100.0	931	
Methyl Chloride	0	0		0	N/A	N/A	N/A	
Methylene Chloride	0	0		0	N/A	N/A	N/A	
1,1,2,2-Tetrachloroethane	0	0		0	N/A	N/A	N/A	
Tetrachloroethylene	0	0		0	N/A	N/A	N/A	
Toluene	0	0		0	57	57.0	531	
1,2-trans-Dichloroethylene	0	0		0	100	100.0	931	
1,1,1-Trichloroethane	0	0		0	10,000	10,000	93,104	
1,1,2-Trichloroethane	0	0		0	N/A	N/A	N/A	
Trichloroethylene	0	0		0	N/A	N/A	N/A	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
2-Chlorophenol	0	0		0	30	30.0	279	
2,4-Dichlorophenol	0	0		0	10	10.0	93.1	
2,4-Dimethylphenol	0	0		0	100	100.0	931	
4,6-Dinitro-o-Cresol	0	0		0	2	2.0	18.6	
2,4-Dinitrophenol	0	0		0	10	10.0	93.1	
2-Nitrophenol	0	0		0	N/A	N/A	N/A	
4-Nitrophenol	0	0		0	N/A	N/A	N/A	
p-Chloro-m-Cresol	0	0		0	N/A	N/A	N/A	
Pentachlorophenol	0	0		0	N/A	N/A	N/A	
Phenol	0	0		0	4,000	4,000	37,242	
2,4,6-Trichlorophenol	0	0		0	N/A	N/A	N/A	
Acenaphthene	0	0		0	70	70.0	652	
Anthracene	0	0		0	300	300	2,793	
Benzidine	0	0		0	N/A	N/A	N/A	

Summary of Review

Benzo(a)Anthracene	0	0		0	N/A	N/A	N/A	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Benzo(k)Fluoranthene	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroethyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Chloroisopropyl)Ether	0	0		0	200	200	1,862	
Bis(2-Ethylhexyl)Phthalate	0	0		0	N/A	N/A	N/A	
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0		0	0.1	0.1	0.93	
2-Chloronaphthalene	0	0		0	800	800	7,448	
Chrysene	0	0		0	N/A	N/A	N/A	
Dibenzo(a,h)Anthrancene	0	0		0	N/A	N/A	N/A	
1,2-Dichlorobenzene	0	0		0	1,000	1,000	9,310	
1,3-Dichlorobenzene	0	0		0	7	7.0	65.2	
1,4-Dichlorobenzene	0	0		0	300	300	2,793	
3,3-Dichlorobenzidine	0	0		0	N/A	N/A	N/A	
Diethyl Phthalate	0	0		0	600	600	5,586	
Dimethyl Phthalate	0	0		0	2,000	2,000	18,621	
Di-n-Butyl Phthalate	0	0		0	20	20.0	186	
2,4-Dinitrotoluene	0	0		0	N/A	N/A	N/A	
2,6-Dinitrotoluene	0	0		0	N/A	N/A	N/A	
1,2-Diphenylhydrazine	0	0		0	N/A	N/A	N/A	
Fluoranthene	0	0		0	20	20.0	186	
Fluorene	0	0		0	50	50.0	466	
Hexachlorobenzene	0	0		0	N/A	N/A	N/A	
Hexachlorobutadiene	0	0		0	N/A	N/A	N/A	
Hexachlorocyclopentadiene	0	0		0	4	4.0	37.2	
Hexachloroethane	0	0		0	N/A	N/A	N/A	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Isophorone	0	0		0	34	34.0	317	
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	10	10.0	93.1	
n-Nitrosodimethylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodi-n-Propylamine	0	0		0	N/A	N/A	N/A	
n-Nitrosodiphenylamine	0	0		0	N/A	N/A	N/A	
Phenanthrene	0	0		0	N/A	N/A	N/A	
Pyrene	0	0		0	20	20.0	186	
1,2,4-Trichlorobenzene	0	0		0	0.07	0.07	0.65	
Aldrin	0	0		0	N/A	N/A	N/A	
alpha-BHC	0	0		0	N/A	N/A	N/A	
beta-BHC	0	0		0	N/A	N/A	N/A	
gamma-BHC	0	0		0	4.2	4.2	39.1	
Chlordane	0	0		0	N/A	N/A	N/A	
4,4-DDT	0	0		0	N/A	N/A	N/A	
4,4-DDE	0	0		0	N/A	N/A	N/A	
4,4-DDD	0	0		0	N/A	N/A	N/A	
Dieldrin	0	0		0	N/A	N/A	N/A	
alpha-Endosulfan	0	0		0	20	20.0	186	
beta-Endosulfan	0	0		0	20	20.0	186	

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Summary of Review

Endosulfan Sulfate	0	0		0	20	20.0	186	
Endrin	0	0		0	0.03	0.03	0.28	
Endrin Aldehyde	0	0		0	1	1.0	9.31	
Heptachlor	0	0		0	N/A	N/A	N/A	
Heptachlor Epoxide	0	0		0	N/A	N/A	N/A	
Toxaphene	0	0		0	N/A	N/A	N/A	

☑ ***CRL*** CCT (min): ####### PMF: 1 Analysis Hardness (mg/l): N/A Analysis pH: N/A

Pollutants	Stream Conc	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Total Dissolved Solids (PWS)	0	0		0	N/A	N/A	N/A	
Chloride (PWS)	0	0		0	N/A	N/A	N/A	
Sulfate (PWS)	0	0		0	N/A	N/A	N/A	
Fluoride (PWS)	0	0		0	N/A	N/A	N/A	
Total Aluminum	0	0		0	N/A	N/A	N/A	
Total Antimony	0	0		0	N/A	N/A	N/A	
Total Arsenic	0	0		0	N/A	N/A	N/A	
Total Barium	0	0		0	N/A	N/A	N/A	
Total Boron	0	0		0	N/A	N/A	N/A	
Total Cadmium	0	0		0	N/A	N/A	N/A	
Total Chromium (III)	0	0		0	N/A	N/A	N/A	
Hexavalent Chromium	0	0		0	N/A	N/A	N/A	
Total Cobalt	0	0		0	N/A	N/A	N/A	
Total Copper	0	0		0	N/A	N/A	N/A	
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	N/A	N/A	N/A	
Total Nickel	0	0		0	N/A	N/A	N/A	
Total Phenols (Phenolics) (PWS)	0	0		0	N/A	N/A	N/A	
Total Selenium	0	0		0	N/A	N/A	N/A	
Total Silver	0	0		0	N/A	N/A	N/A	
Total Thallium	0	0		0	N/A	N/A	N/A	
Total Zinc	0	0		0	N/A	N/A	N/A	
Acrolein	0	0		0	N/A	N/A	N/A	
Acrylamide	0	0		0	0.07	0.07	3.5	
Acrylonitrile	0	0		0	0.06	0.06	3.0	
Benzene	0	0		0	0.58	0.58	29.0	
Bromoform	0	0		0	7	7.0	350	
Carbon Tetrachloride	0	0		0	0.4	0.4	20.0	
Chlorobenzene	0	0		0	N/A	N/A	N/A	
Chlorodibromomethane	0	0		0	0.8	0.8	40.0	
2-Chloroethyl Vinyl Ether	0	0		0	N/A	N/A	N/A	
Chloroform	0	0		0	N/A	N/A	N/A	
Dichlorobromomethane	0	0		0	0.95	0.95	47.5	
1,2-Dichloroethane	0	0		0	9.9	9.9	495	
1,1-Dichloroethylene	0	0		0	N/A	N/A	N/A	

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Summary of Review

1,2-Dichloropropane	0	0		0	0.9	0.9	45.0	
1,3-Dichloropropylene	0	0		0	0.27	0.27	13.5	
Ethylbenzene	0	0		0	N/A	N/A	N/A	
Methyl Bromide	0	0		0	N/A	N/A	N/A	
Methyl Chloride	0	0		0	N/A	N/A	N/A	
Methylene Chloride	0	0		0	20	20.0	1,001	
1,1,2,2-Tetrachloroethane	0	0		0	0.2	0.2	10.0	
Tetrachloroethylene	0	0		0	10	10.0	500	
Toluene	0	0		0	N/A	N/A	N/A	
1,2-trans-Dichloroethylene	0	0		0	N/A	N/A	N/A	
1,1,1-Trichloroethane	0	0		0	N/A	N/A	N/A	
1,1,2-Trichloroethane	0	0		0	0.55	0.55	27.5	
Trichloroethylene	0	0		0	0.6	0.6	30.0	
Vinyl Chloride	0	0		0	0.02	0.02	1.0	
2-Chlorophenol	0	0		0	N/A	N/A	N/A	
2,4-Dichlorophenol	0	0		0	N/A	N/A	N/A	
2,4-Dimethylphenol	0	0		0	N/A	N/A	N/A	
4,6-Dinitro-o-Cresol	0	0		0	N/A	N/A	N/A	
2,4-Dinitrophenol	0	0		0	N/A	N/A	N/A	
2-Nitrophenol	0	0		0	N/A	N/A	N/A	
4-Nitrophenol	0	0		0	N/A	N/A	N/A	
p-Chloro-m-Cresol	0	0		0	N/A	N/A	N/A	
Pentachlorophenol	0	0		0	0.030	0.03	1.5	
Phenol	0	0		0	N/A	N/A	N/A	
2,4,6-Trichlorophenol	0	0		0	1.5	1.5	75.1	
Acenaphthene	0	0		0	N/A	N/A	N/A	
Anthracene	0	0		0	N/A	N/A	N/A	
Benzidine	0	0		0	0.0001	0.0001	0.005	
Benzo(a)Anthracene	0	0		0	0.001	0.001	0.05	
Benzo(a)Pyrene	0	0		0	0.0001	0.0001	0.005	
3,4-Benzofluoranthene	0	0		0	0.001	0.001	0.05	
Benzo(k)Fluoranthene	0	0		0	0.01	0.01	0.5	
Bis(2-Chloroethyl)Ether	0	0		0	0.03	0.03	1.5	
Bis(2-Chloroisopropyl)Ether	0	0		0	N/A	N/A	N/A	
Bis(2-Ethylhexyl)Phthalate	0	0		0	0.32	0.32	16.0	
4-Bromophenyl Phenyl Ether	0	0		0	N/A	N/A	N/A	
Butyl Benzyl Phthalate	0	0		0	N/A	N/A	N/A	
2-Chloronaphthalene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	0.12	0.12	6.01	
Dibenzo(a,h)Anthrancene	0	0		0	0.0001	0.0001	0.005	
1,2-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
1,3-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
1,4-Dichlorobenzene	0	0		0	N/A	N/A	N/A	
3,3-Dichlorobenzidine	0	0		0	0.05	0.05	2.5	
Diethyl Phthalate	0	0		0	N/A	N/A	N/A	
Dimethyl Phthalate	0	0		0	N/A	N/A	N/A	
Di-n-Butyl Phthalate	0	0		0	N/A	N/A	N/A	
2,4-Dinitrotoluene	0	0		0	0.05	0.05	2.5	
2,6-Dinitrotoluene	0	0		0	0.05	0.05	2.5	

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Summary of Review

1,2-Diphenylhydrazine	0	0		0	0.03	0.03	1.5	
Fluoranthene	0	0		0	N/A	N/A	N/A	
Fluorene	0	0		0	N/A	N/A	N/A	
Hexachlorobenzene	0	0		0	0.00008	0.00008	0.004	
Hexachlorobutadiene	0	0		0	0.01	0.01	0.5	
Hexachlorocyclopentadiene	0	0		0	N/A	N/A	N/A	
Hexachloroethane	0	0		0	0.1	0.1	5.0	
Indeno(1,2,3-cd)Pyrene	0	0		0	0.001	0.001	0.05	
Isophorone	0	0		0	N/A	N/A	N/A	
Naphthalene	0	0		0	N/A	N/A	N/A	
Nitrobenzene	0	0		0	N/A	N/A	N/A	
n-Nitrosodimethylamine	0	0		0	0.0007	0.0007	0.035	
n-Nitrosodi-n-Propylamine	0	0		0	0.005	0.005	0.25	
n-Nitrosodiphenylamine	0	0		0	3.3	3.3	165	
Phenanthrene	0	0		0	N/A	N/A	N/A	
Pyrene	0	0		0	N/A	N/A	N/A	
1,2,4-Trichlorobenzene	0	0		0	N/A	N/A	N/A	
Aldrin	0	0		0	0.0000008	8.00E-07	0.00004	
alpha-BHC	0	0		0	0.0004	0.0004	0.02	
beta-BHC	0	0		0	0.008	0.008	0.4	
gamma-BHC	0	0		0	N/A	N/A	N/A	
Chlordane	0	0		0	0.0003	0.0003	0.015	
4,4-DDT	0	0		0	0.00003	0.00003	0.002	
4,4-DDE	0	0		0	0.00002	0.00002	0.001	
4,4-DDD	0	0		0	0.0001	0.0001	0.005	
Dieldrin	0	0		0	0.000001	0.000001	0.00005	
alpha-Endosulfan	0	0		0	N/A	N/A	N/A	
beta-Endosulfan	0	0		0	N/A	N/A	N/A	
Endosulfan Sulfate	0	0		0	N/A	N/A	N/A	
Endrin	0	0		0	N/A	N/A	N/A	
Endrin Aldehyde	0	0		0	N/A	N/A	N/A	
Heptachlor	0	0		0	0.000006	0.000006	0.0003	
Heptachlor Epoxide	0	0		0	0.00003	0.00003	0.002	
Toxaphene	0	0		0	0.0007	0.0007	0.035	

☑ ***Recommended WQBELs & Monitoring Requirements***

No. Samples/Month: 4

	Mass Limits		*Concentration Limits*						
Pollutants	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units	Governing WQBEL	WQBEL Basis	Comments
Total Cadmium	Report	Report	Report	Report	Report	µg/L	2.58	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Copper	Report	Report	Report	Report	Report	mg/L	0.022	AFC	Discharge Conc > 10% WQBEL (no RP)
Total Zinc	Report	Report	Report	Report	Report	mg/L	0.19	AFC	Discharge Conc > 10% WQBEL (no RP)
Acrylamide	0.05	0.078	3.5	5.47	8.76	µg/L	3.5	CRL	Discharge Conc ≥ 50% WQBEL (RP)

☑ ***Other Pollutants without Limits or Monitoring***

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Summary of Review

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

Pollutants	Governing WQBEL	Units	Comments
Total Dissolved Solids (PWS)	N/A	N/A	PWS Not Applicable
Chloride (PWS)	N/A	N/A	PWS Not Applicable
Bromide	N/A	N/A	No WQS
Sulfate (PWS)	N/A	N/A	PWS Not Applicable
Fluoride (PWS)	N/A	N/A	PWS Not Applicable
Total Aluminum	1,057	µg/L	Discharge Conc ≤ 10% WQBEL
Total Antimony	N/A	N/A	Discharge Conc < TQL
Total Arsenic	N/A	N/A	Discharge Conc < TQL
Total Barium	22,345	µg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Boron	11,419	µg/L	Discharge Conc < TQL
Total Chromium (III)	822	µg/L	Discharge Conc < TQL
Hexavalent Chromium	23.0	µg/L	Discharge Conc < TQL
Total Cobalt	134	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cyanide	N/A	N/A	No WQS
Dissolved Iron	2,793	µg/L	Discharge Conc ≤ 10% WQBEL
Total Iron	16,462	µg/L	Discharge Conc ≤ 10% WQBEL
Total Lead	30.8	µg/L	Discharge Conc < TQL
Total Manganese	9,310	µg/L	Discharge Conc ≤ 10% WQBEL
Total Mercury	0.47	µg/L	Discharge Conc < TQL
Total Nickel	498	µg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)		µg/L	Discharge Conc < TQL
Total Selenium	46.5	µg/L	Discharge Conc < TQL
Total Silver	6.56	µg/L	Discharge Conc < TQL
Total Thallium	2.23	µg/L	Discharge Conc < TQL
Total Molybdenum	N/A	N/A	No WQS
Acrolein	4.23	µg/L	Discharge Conc < TQL
Acrylonitrile	3.0	µg/L	Discharge Conc < TQL
Benzene	29.0	µg/L	Discharge Conc < TQL
Bromoform	350	µg/L	Discharge Conc ≤ 25% WQBEL
Carbon Tetrachloride	20.0	µg/L	Discharge Conc < TQL
Chlorobenzene	931	µg/L	Discharge Conc < TQL
Chlorodibromomethane	40.0	µg/L	Discharge Conc ≤ 25% WQBEL
Chloroethane	N/A	N/A	No WQS
2-Chloroethyl Vinyl Ether	25,376	µg/L	Discharge Conc < TQL
Chloroform	53.1	µg/L	Discharge Conc ≤ 25% WQBEL
Dichlorobromomethane	47.5	µg/L	Discharge Conc ≤ 25% WQBEL
1,1-Dichloroethane	N/A	N/A	No WQS
1,2-Dichloroethane	495	µg/L	Discharge Conc ≤ 25% WQBEL
1,1-Dichloroethylene	307	µg/L	Discharge Conc < TQL
1,2-Dichloropropane	45.0	µg/L	Discharge Conc ≤ 25% WQBEL
1,3-Dichloropropylene	13.5	µg/L	Discharge Conc < TQL
1,4-Dioxane	N/A	N/A	No WQS

Summary of Review

Ethylbenzene	633	µg/L	Discharge Conc < TQL
Methyl Bromide	775	µg/L	Discharge Conc < TQL
Methyl Chloride	39,474	µg/L	Discharge Conc ≤ 25% WQBEL
Methylene Chloride	1,001	µg/L	Discharge Conc < TQL
1,1,2,2-Tetrachloroethane	10.0	µg/L	Discharge Conc < TQL
Tetrachloroethylene	500	µg/L	Discharge Conc < TQL
Toluene	531	µg/L	Discharge Conc < TQL
1,2-trans-Dichloroethylene	931	µg/L	Discharge Conc < TQL
1,1,1-Trichloroethane	4,229	µg/L	Discharge Conc < TQL
1,1,2-Trichloroethane	27.5	µg/L	Discharge Conc < TQL
Trichloroethylene	30.0	µg/L	Discharge Conc < TQL
Vinyl Chloride	1.0	µg/L	Discharge Conc < TQL
2-Chlorophenol	279	µg/L	Discharge Conc < TQL
2,4-Dichlorophenol	93.1	µg/L	Discharge Conc < TQL
2,4-Dimethylphenol	930	µg/L	Discharge Conc < TQL
4,6-Dinitro-o-Cresol	18.6	µg/L	Discharge Conc < TQL
2,4-Dinitrophenol	93.1	µg/L	Discharge Conc < TQL
2-Nitrophenol	11,278	µg/L	Discharge Conc < TQL
4-Nitrophenol	3,243	µg/L	Discharge Conc < TQL
p-Chloro-m-Cresol	226	µg/L	Discharge Conc < TQL
Pentachlorophenol	1.5	µg/L	Discharge Conc < TQL
Phenol	37,242	µg/L	Discharge Conc ≤ 25% WQBEL
2,4,6-Trichlorophenol	75.1	µg/L	Discharge Conc < TQL
Acenaphthene	117	µg/L	Discharge Conc < TQL
Acenaphthylene	N/A	N/A	No WQS
Anthracene	2,793	µg/L	Discharge Conc < TQL
Benzidine	0.005	µg/L	Discharge Conc < TQL
Benzo(a)Anthracene	0.05	µg/L	Discharge Conc < TQL
Benzo(a)Pyrene	0.005	µg/L	Discharge Conc < TQL
3,4-Benzofluoranthene	0.05	µg/L	Discharge Conc < TQL
Benzo(ghi)Perylene	N/A	N/A	No WQS
Benzo(k)Fluoranthene	0.5	µg/L	Discharge Conc < TQL
Bis(2-Chloroethoxy)Methane	N/A	N/A	No WQS
Bis(2-Chloroethyl)Ether	1.5	µg/L	Discharge Conc < TQL
Bis(2-Chloroisopropyl)Ether	1,862	µg/L	Discharge Conc < TQL
Bis(2-Ethylhexyl)Phthalate	16.0	µg/L	Discharge Conc < TQL
4-Bromophenyl Phenyl Ether	381	µg/L	Discharge Conc < TQL
Butyl Benzyl Phthalate	0.93	µg/L	Discharge Conc < TQL
2-Chloronaphthalene	7,448	µg/L	Discharge Conc < TQL
4-Chlorophenyl Phenyl Ether	N/A	N/A	No WQS
Chrysene	6.01	µg/L	Discharge Conc < TQL
Dibenzo(a,h)Anthrancene	0.005	µg/L	Discharge Conc < TQL
1,2-Dichlorobenzene	1,156	µg/L	Discharge Conc < TQL
1,3-Dichlorobenzene	65.2	µg/L	Discharge Conc ≤ 25% WQBEL
1,4-Dichlorobenzene	1,029	µg/L	Discharge Conc ≤ 25% WQBEL
3,3-Dichlorobenzidine	2.5	µg/L	Discharge Conc < TQL
Diethyl Phthalate	5,586	µg/L	Discharge Conc < TQL
Dimethyl Phthalate	3,524	µg/L	Discharge Conc < TQL
Di-n-Butyl Phthalate	155	µg/L	Discharge Conc < TQL

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Summary of Review

2,4-Dinitrotoluene	2.5	µg/L	Discharge Conc < TQL
2,6-Dinitrotoluene	2.5	µg/L	Discharge Conc < TQL
Di-n-Octyl Phthalate	N/A	N/A	No WQS
1,2-Diphenylhydrazine	1.5	µg/L	Discharge Conc < TQL
Fluoranthene	186	µg/L	Discharge Conc < TQL
Fluorene	466	µg/L	Discharge Conc < TQL
Hexachlorobenzene	0.004	µg/L	Discharge Conc < TQL
Hexachlorobutadiene	0.5	µg/L	Discharge Conc < TQL
Hexachlorocyclopentadiene	7.05	µg/L	Discharge Conc < TQL
Hexachloroethane	5.0	µg/L	Discharge Conc < TQL
Indeno(1,2,3-cd)Pyrene	0.05	µg/L	Discharge Conc < TQL
Isophorone	317	µg/L	Discharge Conc < TQL
Naphthalene	197	µg/L	Discharge Conc < TQL
Nitrobenzene	93.1	µg/L	Discharge Conc < TQL
n-Nitrosodimethylamine	0.035	µg/L	Discharge Conc < TQL
n-Nitrosodi-n-Propylamine	0.25	µg/L	Discharge Conc < TQL
n-Nitrosodiphenylamine	165	µg/L	Discharge Conc < TQL
Phenanthrene	7.05	µg/L	Discharge Conc < TQL
Pyrene	186	µg/L	Discharge Conc < TQL
1,2,4-Trichlorobenzene	0.65	µg/L	Discharge Conc < TQL
Aldrin	0.00004	µg/L	Discharge Conc < TQL
alpha-BHC	0.02	µg/L	Discharge Conc < TQL
beta-BHC	0.4	µg/L	Discharge Conc < TQL
gamma-BHC	1.34	µg/L	Discharge Conc < TQL
delta BHC	N/A	N/A	No WQS
Chlordane	0.015	µg/L	Discharge Conc < TQL
4,4-DDT	0.002	µg/L	Discharge Conc < TQL
4,4-DDE	0.001	µg/L	Discharge Conc < TQL
4,4-DDD	0.005	µg/L	Discharge Conc < TQL
Dieldrin	0.00005	µg/L	Discharge Conc < TQL
alpha-Endosulfan	0.31	µg/L	Discharge Conc < TQL
beta-Endosulfan	0.31	µg/L	Discharge Conc < TQL
Endosulfan Sulfate	186	µg/L	Discharge Conc < TQL
Endrin	0.12	µg/L	Discharge Conc < TQL
Endrin Aldehyde	9.31	µg/L	Discharge Conc < TQL
Heptachlor	0.0003	µg/L	Discharge Conc < TQL
Heptachlor Epoxide	0.002	µg/L	Discharge Conc < TQL
PCB-1016	N/A	N/A	No WQS
PCB-1221	N/A	N/A	No WQS
PCB-1232	N/A	N/A	No WQS
PCB-1242	N/A	N/A	No WQS
PCB-1248	N/A	N/A	No WQS
PCB-1254	N/A	N/A	No WQS
PCB-1260	N/A	N/A	No WQS
Toxaphene	0.002	µg/L	Discharge Conc < TQL

Summary of Review

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. 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 limit for Total Suspended Solids was revised to 30 mg/l (average monthly) from 40 mg/l during last permit renewal 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. Annual PCBs (Dry Weather) monitoring requirement will continue in the permit renewal. Due to changes requested by an on-site tenant, Rohm and Haas has proposed to divert the non-contact cooling water (from Trinseo) that is currently discharging through Outfall 008 to the Rohm and Haas IWTP, and ultimately discharged through Outfall 009. The change in flows or each Outfall is approximately 13 gallons per minute (gpm) or 0.019 million gallons per day (MGD). This will result in new proposed average flow increase to 0.622 MGD from 0.603 at Outfall 009 and decrease in proposed average flow from 0.02 MGD to 0.010 MGD at Outfall 008. The design flow will remain the same (1.716 MGD) for Outfall 009. We have added Temperature limit of 91 (ºF) as 13 gpm of NCCW is being diverted from Outfall 008 to Outfall 009.

We have added quarterly monitoring for Acrylamide for this permit renewal. There is no Target Quantitation Limit (TQL) for Acrylamide in the Industrial Waste NPDES Permit application. Toxic Management Spreadsheet (TMS) has embedded TQL of 0.1 ug/l. The sample results show non-detect for Acrylamide using TQL of 10 ug/l and 48 ug/l for influent and effluent samples. Therefore, it is not appropriate to impose TMS recommended effluent limit as there are not many labs that use TQL less than10 ug/l. Quarterly monitoring requirement with more sensitive test method will provide more accurate sample results to determine reasonable potential for next permit cycle.

We have revised the effluent limit for Ammonia to 20 mg/l from 35 mg/l for this permit renewal. DRBC is working on updating criteria for Ammonia in Delaware River. It appears from the e-DMRs that treatment plant can meet new Ammonia limit. We also have included monthly monitoring for Total Nitrogen at Outfall 009 for this permit renewal.

This permit renewal includes quarterly monitoring requirement for PFOA, PFOS, PFBS and HFPO-DA as all these four PFAS related compounds were detected at elevated concentrations in the effluent at Outfall 009, which is consistent with SOP. We have also included Part C requirement no. VI for submission of PFAS Reduction Plan in the permit.

The effluent limitations are as follows:

	Effluent Limitations					
	Mass Limits (lbs/day		**Concentrations (mg/l)**			
Parameters	**Ave. Monthly**	**Max. Daily**	**Ave. Monthly**	**Max. Daily**	**Inst. Max**	**Criteria**
BOD_5	343	916	24	64	80	BAT
BOD_5 Percent Removal			88.5 %			DRBC
Temperature					91 (ºF)	
Total Suspended Solids	429	644	30	45 wkl	75	DRBC
TSS (Percent Removal)			85 %			
Ammonia Nitrogen	286		20		40	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

Summary of Review

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

Parameters	**Effluent Limitations Mass Limits (lbs/day**		**Concentrations (mg/l)**			
	Ave. Monthly	**Max. Daily**	**Ave. Monthly**	**Max. Daily**	**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

Summary of Review

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

	Effluent Limitations					
	Mass Limits (lbs/day		**Concentrations (mg/l)**			
Parameters	**Ave. Monthly**	**Max. Daily**	**Ave. Monthly**	**Max. Daily**	**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
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
Acrylamide				Report		
PFOA (ng/L)				Report		
PFOS (ng/L)				Report		
PFBS (ng/L)				Report		
HFPO-DA (ng/L)				Report		

Summary of Review

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

The stormwater Outfalls SW3 and SW9 represents runoff from the production areas. Therefore, all parameters listed for Outfall 009 are included in the permit to Monitor/Report for both Outfalls 013 (SW3) and 019 (SW9). We have revised sampling frequency to semiannually and added benchmark values for all parameters under Appendix F (Chemicals and Allied Products) of General Permit PAG-03 for discharge of stormwater associated with industrial activities at Outfalls 013 and 019.

Act-14 Notification to Bristol Borough on March 20, 2024.
Act-14 Notification to Bucks County Commissioners Office on March 20, 2024.

Public Participation

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

Discharge, Receiving Waters and Water Supply Information

Outfall No.	008	Design Flow (MGD)	.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	Mill 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,		
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)	.515
Latitude	40Âº 5' 42.13"	Longitude	-74Âº 51' 56.03"
Quad Name		Quad Code	
Wastewater Description:	Noncontact Cooling Water (NCCW),filter backwash, and stormwater runoff		

Receiving Waters	Mill 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,		
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 from Lake Idaline		
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		
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 and Non-contact cooling water		
Receiving Waters	Hog Run, Tidal Tributary to Delaware River (WWF)	Stream Code	02910
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)	

Treatment Facility Summary				
Treatment Facility Name: Rohm & Haas Bristol Facility				
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Industrial			No Disinfection	1.716
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
		Not Overloaded		

Compliance History

DMR Data for Outfall 001 (from September 1, 2023 to August 31, 2024)

Parameter	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23
pH (S.U.) Instantaneous Minimum	7.1			7.2	7.1	7.5	7.3	7.3	7.2		7.2	
pH (S.U.) Instantaneous Maximum	7.1			7.2	7.1	7.5	7.3	7.3	7.2		7.2	
TSS (mg/L) Average Monthly	21.3			12.6	12.4	15.0	14.2	11.6	5.6		11.8	
TSS (mg/L) Weekly Average	21.3			12.6	12.4	15.0	14.2	11.6	5.6		11.8	
Total Dissolved Solids (mg/L) Average Monthly	193			231	208	215	242	168	175		162	
Oil and Grease (mg/L) Average Monthly	E			< 1.4	< 1.4	< 1.4	< 1.4	< 3.2	< 1.4		< 1.4	
Oil and Grease (mg/L) Instantaneous Maximum	E			< 1.4	< 1.4	< 1.4	< 1.4	< 5.0	< 1.4		< 1.4	

DMR Data for Outfall 003 (from September 1, 2023 to August 31, 2024)

Parameter	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23
Flow (MGD) Average Monthly	0.003	0.014	0.007	0.003	0.03	0.58	0.058	0.057	0.173	0.036	0.058	0.058
pH (S.U.) Instantaneous Minimum	6.9	7.4	6.9	7.1	7.0	7.1	7.1	7.2	7.2	7.1	7.3	7.2
pH (S.U.) Instantaneous Maximum	7.3	7.5	7.0	7.3	7.1	7.3	7.2	7.3	7.4	7.4	7.5	7.5
Temperature (ºF) Instantaneous Maximum	76.0	82.0	71.0	63.0	62.0	55.0	54.0	52	57.0	62.0	66.0	77
Total Zinc (mg/L) Daily Maximum			0.357			0.253			0.518			0.137

DMR Data for Outfall 008 (from September 1, 2023 to August 31, 2024)

Parameter	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23
Flow (MGD) Average Monthly	0.055	0.034	0.053	0.028	0.044	0.072	0.0384	0.062	0.093	0.0517	0.02	0.064
pH (S.U.) Instantaneous Minimum	7.0	7.2	7.2	7.6	7.3	7.5	7.4	7.4	7.3	7.0	7.1	7.6
pH (S.U.) Instantaneous Maximum	7.1	7.7	7.4	7.6	7.5	7.6	8.6	7.6	7.5	7.4	7.1	7.9
Temperature (ºF) Instantaneous Maximum	75.0	87.0	77.0	77.0	61.0	59	48.0	51	54.0	59.0	60.0	75
TSS (mg/L) Average Monthly	< 2.5	< 2.5	< 2.5	3.7	3.4	< 2.5	13.0	< 3.75	< 2.5	3.4	7.15	< 2.5
TSS (mg/L) Weekly Average	< 2.5	< 2.5	< 2.5	3.7	3.4	< 2.5	21.9	< 3.75	< 2.5	3.4	7.15	< 2.5
Total Dissolved Solids (mg/L) Average Quarterly			712.0			195.0			35.00			80.0
Total Dissolved Solids (mg/L) Daily Maximum			712.0			195.0			35.00			80.0
Total Zinc (mg/L) Daily Maximum			0.0923			0.078			0.0715			0.141

DMR Data for Outfall 009 (from September 1, 2023 to August 31, 2024)

Parameter	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23
Flow (MGD) Average Monthly	0.646	0.625	0.65	0.641	0.680	0.702	0.686	0.737	0.728	0.691	0.570	0.584
pH (S.U.) Instantaneous Minimum	7.2	7.4	7.4	7.3	7.1	6.8	6.7	7.0	7.0	7.0	7.0	7.1
pH (S.U.) Instantaneous Maximum	7.6	7.9	7.9	7.7	7.6	7.6	7.3	7.6	7.8	7.5	8.0	7.5
BOD5 (lbs/day) Average Monthly	9	10	10	28	58	48	93	97.4	60.3	78	29	29
BOD5 (lbs/day) Daily Maximum	18	23	30	69	133	105	125	239.8	147.4	128	61	99
BOD5 (mg/L) Average Monthly	2	2	2	5	11	9	16	15.7	9.5	12	6	5

BOD5 (mg/L) Industrial Influent Average Monthly	229.8	185.2	254.8	288.0	297.0	155.8	175.0	232.4	326.2	394	203.9	344.0
BOD5 (mg/L) Daily Maximum	3	4	6	12	27	19	21	36.3	22.5	22	12	15
BOD5 % Removal (%) Percent Removal Minimum Monthly Average	98.7	98.6	98.8	97.3	94.5	91.7	87.3	89.8	93.7	94.1	93.5	98.4
TSS (lbs/day) Average Monthly	< 26.2	24.7	11.2	< 22.6	< 22.2	27.4	35.4	< 30.94	44.36	38.7	< 22.22	62.0
TSS (lbs/day) Weekly Average	< 30	36	27	< 29	< 37	46	64	< 36.36	69.46	88.5	< 26.96	171
TSS (mg/L) Average Monthly	< 5.0	4.7	3.8	< 4.0	< 4.4	6.1	6.0	< 5.0	7.43	7.0	< 4.38	10.4
TSS (mg/L) Industrial Influent Average Monthly	79.3	58.6	44.8	62.5	50.2	33.8	55.7	30.7	50.6	80.7	54.9	47.6
TSS (mg/L) Weekly Average	< 5.0	7.0	5.0	< 4.0	< 5.0	7.2	10.6	< 5.0	10.8	13.4	< 5.0	25.8
TSS % Removal (%) Percent Removal Minimum Monthly Average	99.6	99.7	99.8	99.8	99.7	99.6	99	99.5	99.4	99.2	99.5	99.0
Total Dissolved Solids (lbs/day) Average Monthly	3080.3	3671.7	3554.2	3832	2837.4	3119.1	2889.4	3145	2701.9	3477.2	2523.1	3592.5
Total Dissolved Solids (lbs/day) Daily Maximum	3403.9	4964.2	4586	5330	3892.7	4050.6	3315.2	4250.6	5069.3	5709.6	3353.7	3932.7
Total Dissolved Solids (mg/L) Average Monthly	591	687	700	683	477	554	500	524	422.5	568	493	684.5
Total Dissolved Solids (mg/L) Daily Maximum	694	880	868	956	614	732	562	704	670	874	622	814
Ammonia (lbs/day) Average Monthly	< 0.3	0.8	< 0.3	5.3	23.0	26.91	1.1	< 0.27	< 0.257	< 0.287	0.3	< 0.24
Ammonia (mg/L) Average Monthly	< 0.1	0.2	< 0.1	1.0	3.8	3.7	0.2	< 0.05	< 0.05	< 0.05	0.1	< 0.05
Ammonia (mg/L) Instantaneous Maximum	< 0.1	0.2	< 0.1	1.0	5.3	3.7	0.2	< 0.05	< 0.05	< 0.05	0.1	< 0.05

Total Cadmium (lbs/day) Average Quarterly			0.0023			< 0.872			< 5.28			< 0.0015
Total Cadmium (mg/L) Average Quarterly			0.00031			< 0.0003			< 0.00031			< 0.0003
Total Chromium (lbs/day) Average Monthly	< 0.007	< 0.007	< 0.007	< 0.008	< 0.009	< 0.008	< 0.007	0.003	0.008	< 0.009	< 0.008	< 0.009
Total Chromium (lbs/day) Daily Maximum	< 0.007	< 0.007	< 0.007	< 0.008	< 0.010	< 0.008	< 0.007	0.008	0.008	< 0.009	< 0.008	< 0.009
Total Chromium (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.002	< 0.001	< 0.001	< 0.001
Total Chromium (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.001	0.002	< 0.001	< 0.001	< 0.001
Total Copper (lbs/day) Average Monthly	0.266	0.043	< 0.018	0.022	0.080	0.036	0.040	0.041	0.044	0.032	0.032	0.032
Total Copper (lbs/day) Daily Maximum	0.266	0.043	< 0.018	0.022	0.165	0.036	0.040	0.077	0.044	0.057	0.032	0.032
Total Copper (mg/L) Average Monthly	0.050	0.008	< 0.004	0.004	0.013	0.006	0.008	0.007	0.009	0.005	0.006	0.005
Total Copper (mg/L) Daily Maximum	0.050	0.008	< 0.004	0.004	0.028	0.006	0.008	0.015	0.009	0.009	0.006	0.005
Total Cyanide (lbs/day) Average Monthly	< 0.0211	< 0.021	< 0.021	< 0.022	< 0.0251	< 0.0227	< 0.020	< 0.0253	0.077	< 0.025	< 0.0216	< 0.0265
Total Cyanide (lbs/day) Daily Maximum	< 0.0211	< 0.021	< 0.021	< 0.022	< 0.0299	< 0.0227	< 0.020	< 0.0321	0.077	< 0.0261	< 0.0216	< 0.0265
Total Cyanide (mg/L) Average Monthly	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.015	< 0.005	< 0.004	< 0.004
Total Cyanide (mg/L) Daily Maximum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.015	< 0.005	< 0.004	< 0.004
Total Lead (lbs/day) Average Monthly	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0005
Total Lead (lbs/day) Daily Maximum	< 0.003	< 0.003	< 0.003	< 0.003	< 0.004	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0005
Total Lead (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001
Total Lead (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001	< 0.0005	< 0.001
Total Nickel (lbs/day) Average Monthly	0.044	0.018	< 0.021	0.014	0.020	0.026	0.037	0.037	0.022	0.019	0.028	0.036

Total Nickel (lbs/day) Daily Maximum	0.044	0.018	< 0.021	0.014	0.021	0.026	0.037	0.051	0.022	0.028	0.028	0.036
Total Nickel (mg/L) Average Monthly	0.008	0.003	< 0.004	0.003	0.003	0.005	0.007	0.006	0.004	0.003	0.005	0.005
Total Nickel (mg/L) Daily Maximum	0.008	0.003	< 0.004	0.003	0.004	0.005	0.007	0.007	0.004	0.004	0.005	0.005
Total Zinc (lbs/day) Average Monthly	0.380	0.040	< 0.030	< 0.040	0.130	0.102	0.090	< 0.040	0.160	0.070	0.170	0.130
Total Zinc (lbs/day) Daily Maximum	0.380	0.040	< 0.030	< 0.040	0.190	0.102	0.090	< 0.040	0.160	0.120	0.170	0.130
Total Zinc (mg/L) Average Monthly	0.07	0.01	< 0.01	< 0.01	0.020	0.02	0.020	< 0.01	0.03	0.01	0.03	0.02
Total Zinc (mg/L) Daily Maximum	0.07	0.01	< 0.01	< 0.01	0.030	0.02	0.020	< 0.01	0.03	0.02	0.03	0.02
2-Chlorophenol (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0025	< 0.0023	< 0.002	< 0.001	< 0.0021	< 0.0025	< 0.0022	< 0.0027
2-Chlorophenol (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0026	< 0.0022	< 0.0027
2-Chlorophenol (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0002	< 0.0004	< 0.0004	< 0.0004	< 0.0004
2-Chlorophenol (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 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	< 0.006	< 0.006	< 0.006	< 0.007	< 0.0075	< 0.0068	< 0.006	< 0.0019	< 0.0062	< 0.0075	< 0.0065	< 0.008
2,4-Dichlorophenol (lbs/day) Daily Maximum	< 0.006	< 0.006	< 0.006	< 0.007	< 0.009	< 0.0068	< 0.006	< 0.0065	< 0.0062	< 0.0078	< 0.0065	< 0.008
2,4-Dichlorophenol (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0012	< 0.0012	< 0.001	< 0.0003	< 0.0012	< 0.0012	< 0.0012	< 0.0012
2,4-Dichlorophenol (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0012	< 0.0012	< 0.001	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
2,4-Dimethylphenol (lbs/day) Average Monthly	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0044	< 0.004	< 0.004	< 0.0019	< 0.0036	< 0.0044	< 0.0038	< 0.0046
2,4-Dimethylphenol (lbs/day) Daily Maximum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0052	< 0.004	< 0.004	< 0.0065	< 0.0036	< 0.0046	< 0.0038	< 0.0046
2,4-Dimethylphenol (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0003	< 0.0007	< 0.0007	< 0.0007	< 0.0007

2,4-Dimethylphenol (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007
Fluorene (lbs/day) Average Monthly	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0056	< 0.0051	< 0.0045	< 0.0015	< 0.0046	< 0.0056	< 0.0049	< 0.006
Fluorene (lbs/day) Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0067	< 0.0051	< 0.0045	< 0.0048	< 0.0046	< 0.0059	< 0.0049	< 0.006
Fluorene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0003	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Fluorene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 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	< 0.069	< 0.068	< 0.069	< 0.071	< 0.0815	< 0.0738	< 0.066	< 0.0248	< 0.0669	< 0.0813	< 0.0701	< 0.0862
2,4-Dinitrophenol (lbs/day) Daily Maximum	< 0.069	< 0.068	< 0.069	< 0.071	< 0.0973	< 0.0738	< 0.066	< 0.0699	< 0.0669	< 0.0849	< 0.0701	< 0.0862
2,4-Dinitrophenol (mg/L) Average Monthly	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.0044	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrophenol (mg/L) Daily Maximum	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
2,4-Dinitrotoluene (lbs/day) Average Monthly	< 0.005	< 0.005	< 0.005	< 0.006	< 0.0063	< 0.0057	< 0.005	< 0.003	< 0.0051	< 0.0063	< 0.0054	< 0.0066
2,4-Dinitrotoluene (lbs/day) Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.006	< 0.0075	< 0.0057	< 0.005	< 0.0054	< 0.0051	< 0.0065	< 0.0054	< 0.0066
2,4-Dinitrotoluene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0005	< 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	< 0.007	< 0.007	< 0.007	< 0.008	< 0.0088	< 0.0079	< 0.007	< 0.0029	< 0.0072	< 0.0088	< 0.0075	< 0.0093
2,6-Dinitrotoluene (lbs/day) Daily Maximum	< 0.007	< 0.007	< 0.007	< 0.008	< 0.0105	< 0.0079	< 0.007	< 0.0075	< 0.0072	< 0.0091	< 0.0075	< 0.0093
2,6-Dinitrotoluene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0014	< 0.0014	< 0.001	< 0.0005	< 0.0014	< 0.0014	< 0.0014	< 0.0014

2,6-Dinitrotoluene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0014	< 0.0014	< 0.001	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
4,6-dinitro-o-cresol (lbs/day) Average Monthly	< 0.038	< 0.037	< 0.038	< 0.039	< 0.0445	< 0.0403	< 0.036	< 0.0167	< 0.0365	< 0.0444	< 0.0383	< 0.0471
4,6-dinitro-o-cresol (lbs/day) Daily Maximum	< 0.038	< 0.037	< 0.038	< 0.039	< 0.0532	< 0.0403	< 0.036	< 0.0382	< 0.0365	< 0.0464	< 0.0383	< 0.0471
4,6-dinitro-o-cresol (mg/L) Average Monthly	< 0.007	< 0.007	< 0.007	< 0.007	< 0.0071	< 0.0071	< 0.007	< 0.0029	< 0.0071	< 0.0071	< 0.0071	< 0.0071
4,6-dinitro-o-cresol (mg/L) Daily Maximum	< 0.007	< 0.007	< 0.007	< 0.007	< 0.0071	< 0.0071	< 0.007	< 0.0071	< 0.0071	< 0.0071	< 0.0071	< 0.0071
2-Nitrophenol (lbs/day) Average Monthly	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0119	< 0.0108	< 0.010	< 0.0036	< 0.0098	< 0.0119	< 0.0102	< 0.0126
2-Nitrophenol (lbs/day) Daily Maximum	< 0.010	< 0.010	< 0.010	< 0.010	< 0.0142	< 0.0108	< 0.010	< 0.00102	< 0.0098	< 0.0124	< 0.0102	< 0.0126
2-Nitrophenol (mg/L) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0019	< 0.0019	< 0.002	< 0.0006	< 0.0019	< 0.0019	< 0.0019	< 0.0019
2-Nitrophenol (mg/L) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0019	< 0.0019	< 0.002	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
4-Nitrophenol (lbs/day) Average Monthly	< 0.009	< 0.009	< 0.009	< 0.009	< 0.0107	< 0.0097	< 0.009	< 0.0068	< 0.0087	< 0.0106	< 0.0092	< 0.0113
4-Nitrophenol (lbs/day) Daily Maximum	< 0.009	< 0.009	< 0.009	< 0.009	< 0.0127	< 0.0097	< 0.009	< 0.0091	< 0.0087	< 0.0111	< 0.0092	< 0.0113
4-Nitrophenol (mg/L) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0017	< 0.0017	< 0.002	< 0.0011	< 0.0017	< 0.0017	< 0.0017	< 0.0017
4-Nitrophenol (mg/L) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0017	< 0.0017	< 0.002	< 0.0017	< 0.0017	< 0.0017	< 0.0017	< 0.0017
Phenol (lbs/day) Average Monthly	< 0.006	< 0.006	< 0.006	< 0.007	< 0.0075	< 0.0068	< 0.006	< 0.0041	< 0.0062	< 0.0075	< 0.0065	< 0.008
Phenol (lbs/day) Daily Maximum	< 0.006	< 0.006	< 0.006	< 0.007	< 0.009	< 0.0068	< 0.006	< 0.0065	< 0.0062	< 0.0078	< 0.0065	< 0.008
Phenol (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0012	< 0.0012	< 0.001	< 0.0007	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Phenol (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0012	< 0.0012	< 0.001	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Acenaphthene (lbs/day) Average Monthly	< 0.006	< 0.006	< 0.006	< 0.006	< 0.0069	< 0.0062	< 0.006	< 0.002	< 0.0057	< 0.0069	< 0.0059	< 0.0073

Acenaphthene (lbs/day) Daily Maximum	< 0.006	< 0.006	< 0.006	< 0.006	< 0.0082	< 0.0062	< 0.006	< 0.006	< 0.0057	< 0.0072	< 0.0059	< 0.0073
Acenaphthene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0001	< 0.0011	< 0.0011	< 0.001	< 0.001	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Acenaphthene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0011	< 0.0011	< 0.001	< 0.001	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Acenaphthylene (lbs/day) Average Monthly	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.0045	< 0.004	< 0.0014	< 0.0041	< 0.005	< 0.0043	< 0.0053
Acenaphthylene (lbs/day) Daily Maximum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006	< 0.0045	< 0.004	< 0.0043	< 0.0041	< 0.0052	< 0.0043	< 0.0053
Acenaphthylene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0003	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Acenaphthylene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Acrylonitrile (lbs/day) Average Monthly	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.0045	< 0.004	< 0.0043	< 0.0041	< 0.005	< 0.0043	< 0.0053
Acrylonitrile (lbs/day) Daily Maximum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006	< 0.0045	< 0.004	< 0.0043	< 0.0041	< 0.0052	< 0.0043	< 0.0053
Acrylonitrile (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Acrylonitrile (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Anthracene (lbs/day) Average Monthly	< 0.007	< 0.007	< 0.007	< 0.007	< 0.0081	< 0.0074	< 0.007	< 0.002	< 0.0067	< 0.0081	< 0.007	< 0.0086
Anthracene (lbs/day) Daily Maximum	< 0.007	< 0.007	< 0.007	< 0.007	< 0.0097	< 0.0074	< 0.007	< 0.007	< 0.0067	< 0.0085	< 0.007	< 0.0086
Anthracene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0013	< 0.0013	< 0.001	< 0.0004	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Anthracene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0013	< 0.0013	< 0.001	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chlorobenzene (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0025	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0025	< 0.0022	< 0.0027
Chlorobenzene (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0026	< 0.0022	< 0.0027
Chlorobenzene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Chlorobenzene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004

1,2-Dichlorobenzene (lbs/day) Average Monthly	< 0.003	< 0.003	< 0.003	< 0.003	0.014	< 0.0034	< 0.003	< 0.0032	< 0.0031	< 0.0038	< 0.0032	< 0.004
1,2-Dichlorobenzene (lbs/day) Daily Maximum	< 0.003	< 0.003	< 0.003	< 0.003	0.040	< 0.0034	< 0.003	< 0.0032	< 0.0031	< 0.0039	< 0.0032	< 0.004
1,2-Dichlorobenzene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0006	0.002	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
1,2-Dichlorobenzene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0006	0.005	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006
1,3-Dichlorobenzene (lbs/day) Average Monthly	< 0.011	< 0.011	< 0.011	< 0.011	< 0.0125	< 0.0114	< 0.010	< 0.0108	< 0.0103	< 0.0125	< 0.0108	< 0.0133
1,3-Dichlorobenzene (lbs/day) Daily Maximum	< 0.011	< 0.011	< 0.011	< 0.011	< 0.015	< 0.0114	< 0.010	< 0.0108	< 0.0103	< 0.0131	< 0.0108	< 0.0133
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	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0031	< 0.0028	< 0.003	< 0.0027	< 0.0026	< 0.0031	< 0.0027	< 0.0033
1,4-Dichlorobenzene (lbs/day) Daily Maximum	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0037	< 0.0028	< 0.003	< 0.0027	< 0.0026	< 0.0033	< 0.0027	< 0.0033
1,4-Dichlorobenzene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
1,4-Dichlorobenzene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
1,3-Dichloro-propylene (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0019	< 0.0017	< 0.003	< 0.0016	< 0.0024	< 0.0029	< 0.0016	< 0.002
1,3-Dichloro-propylene (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0022	< 0.0017	< 0.003	< 0.0016	< 0.0024	< 0.0032	< 0.0016	< 0.002
1,3-Dichloro-propylene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0003	< 0.0003	< 0.0005	< 0.0003	< 0.0005	< 0.0005	< 0.0003	< 0.0005

1,3-Dichloro-propylene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0003	< 0.0003	< 0.0005	< 0.0003	< 0.0005	< 0.0005	< 0.0003	< 0.0005
1,2,4-Trichloro-benzene (lbs/day) Average Monthly	< 0.007	< 0.007	< 0.007	< 0.007	< 0.0081	< 0.0074	< 0.007	< 0.0022	< 0.0067	< 0.0081	< 0.007	< 0.0086
1,2,4-Trichloro-benzene (lbs/day) Daily Maximum	< 0.007	< 0.007	< 0.007	< 0.007	< 0.0097	< 0.0074	< 0.007	< 0.007	< 0.0067	< 0.0085	< 0.007	< 0.0086
1,2,4-Trichloro-benzene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0013	< 0.0013	< 0.001	< 0.0004	< 0.0013	< 0.0013	< 0.0013	< 0.0013
1,2,4-Trichloro-benzene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0013	< 0.0013	< 0.001	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Ethylbenzene (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0019	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.0019	< 0.0016	0.031
Ethylbenzene (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0022	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.002	0.0016	0.031
Ethylbenzene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0006	< 0.0003	0.005
Ethylbenzene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0009	< 0.0003	0.005
Hexachloro-benzene (lbs/day) Average Monthly	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0056	< 0.0051	< 0.005	< 0.0015	< 0.0046	< 0.0056	< 0.0049	< 0.006
Hexachloro-benzene (lbs/day) Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0067	< 0.0051	< 0.005	< 0.0048	< 0.0046	< 0.0059	< 0.0049	< 0.006
Hexachloro-benzene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0003	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Hexachloro-benzene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Nitrobenzene (lbs/day) Average Monthly	< 0.009	< 0.008	< 0.009	< 0.009	< 0.010	< 0.0091	< 0.008	< 0.0046	< 0.0082	< 0.010	< 0.0086	< 0.0106
Nitrobenzene (lbs/day) Daily Maximum	< 0.009	< 0.008	< 0.009	< 0.009	< 0.0112	< 0.0091	< 0.008	< 0.0086	< 0.0082	< 0.0105	< 0.0086	< 0.0106
Nitrobenzene (mg/L) Average Monthly	< 0.002	< 0.001	< 0.002	< 0.002	< 0.0016	< 0.0016	< 0.002	< 0.0008	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Nitrobenzene (mg/L) Daily Maximum	< 0.002	< 0.001	< 0.002	< 0.002	< 0.0016	< 0.0016	< 0.002	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016

Benzene (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0025	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0025	< 0.0022	< 0.0027
Benzene (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0026	< 0.0022	< 0.0027
Benzene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Benzene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Benzo(a)-Anthracene (lbs/day) Average Monthly	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0038	< 0.0034	< 0.003	< 0.0012	< 0.0031	< 0.0038	< 0.0032	< 0.004
Benzo(a)-Anthracene (lbs/day) Daily Maximum	< 0.003	< 0.003	< 0.003	< 0.003	< 0.0045	< 0.0034	< 0.003	< 0.0032	< 0.0031	< 0.0039	< 0.0032	< 0.004
Benzo(a)-Anthracene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0002	< 0.0006	< 0.0006	< 0.0006	< 0.0006
Benzo(a)-Anthracene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 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	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0044	< 0.004	< 0.004	< 0.0012	< 0.0036	< 0.0044	< 0.0038	< 0.0046
Benzo(a)Pyrene (lbs/day) Daily Maximum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0052	< 0.004	< 0.004	< 0.0038	< 0.0036	< 0.0046	< 0.0038	< 0.0046
Benzo(a)Pyrene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0002	< 0.0007	< 0.0007	< 0.0007	< 0.0007
Benzo(a)Pyrene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0007
Benzo(k)Fluor-anthene (lbs/day) Average Monthly	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0044	< 0.004	< 0.004	< 0.0014	< 0.0036	< 0.0044	< 0.0038	< 0.0046
Benzo(k)Fluor-anthene (lbs/day) Daily Maximum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.0052	< 0.004	< 0.004	< 0.0038	< 0.0036	< 0.0046	< 0.0038	< 0.0046
Benzo(k)Fluor-anthene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0007	< 0.0007	< 0.0007	< 0.0007	< 0.0002	< 0.0007	< 0.0007	< 0.0007	< 0.0007
Benzo(k)Fluor-anthene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 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	< 0.007	< 0.007	< 0.007	< 0.008	< 0.0088	< 0.0079	< 0.007	< 0.0023	< 0.0072	< 0.0088	< 0.0075	< 0.0093
3,4-Benzo-fluoranthene (lbs/day) Daily Maximum	< 0.007	< 0.007	< 0.007	< 0.008	< 0.0105	< 0.0079	< 0.007	< 0.0023	< 0.0072	< 0.0091	< 0.0075	< 0.0093
3,4-Benzo-fluoranthene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0014	< 0.0014	< 0.001	< 0.0004	< 0.0014	< 0.0014	< 0.0014	< 0.0014
3,4-Benzo-fluoranthene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0014	< 0.0014	< 0.001	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
Bromoform (lbs/day) Daily Maximum	< 0.0026	< 0.0026	< 0.0026	< 0.027	< 0.0037	< 0.0028	< 0.0025	< 0.0027	< 0.0026	< 0.003	< 0.0027	< 0.0033
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	< 0.0005
Carbon Tetrachloride (lbs/day) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0013	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.0013	< 0.0011	< 0.0013
Carbon Tetrachloride (lbs/day) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.0013	< 0.0011	< 0.0013
Carbon Tetrachloride (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Carbon Tetrachloride (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Chlorodibromo-methane (lbs/day) Daily Maximum	< 0.0005	0.001	< 0.0005	0.0005	< 0.0007	< 0.0006	0.0015	< 0.0005	< 0.0005	< 0.0007	0.0005	< 0.0007
Chlorodibromo-methane (mg/L) Daily Maximum	< 0.0001	0.0002	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0003	< 0.0001	< 0.0002	< 0.0004	0.0001	< 0.0001
Chloroethane (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0019	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.0019	< 0.0016	< 0.002
Chloroethane (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0022	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.002	< 0.0016	< 0.002
Chloroethane (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Chloroethane (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003

1,1,1-Trichloroethane (lbs/day) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0013	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.0013	< 0.0011	< 0.0013
1,1,1-Trichloroethane (lbs/day) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.0013	< 0.0011	< 0.0013
1,1,1-Trichloroethane (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,1-Trichloroethane (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2-Trichloroethane (lbs/day) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0013	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.0013	< 0.0011	< 0.0013
1,1,2-Trichloroethane (lbs/day) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.0013	< 0.0011	< 0.0013
1,1,2-Trichloroethane (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1,2-Trichloroethane (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
1,1-Dichloroethane (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0019	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.0019	< 0.0016	< 0.002
1,1-Dichloroethane (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0022	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.002	< 0.0016	< 0.002
1,1-Dichloroethane (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
1,1-Dichloroethane (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
1,2-Dichloroethane (lbs/day) Average Monthly	< 0.004	< 0.004	< 0.005	< 0.004	< 0.005	< 0.0045	< 0.004	< 0.0043	< 0.0041	< 0.005	< 0.0043	< 0.0053
1,2-Dichloroethane (lbs/day) Daily Maximum	< 0.004	< 0.004	< 0.005	< 0.004	< 0.006	< 0.0045	< 0.004	< 0.0043	< 0.0041	< 0.0052	< 0.0043	< 0.0053
1,2-Dichloroethane (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008

1,2-Dichloroethane (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
1,2-Dichloropropane (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0025	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0025	< 0.0022	< 0.0027
1,2-Dichloropropane (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	0.002	< 0.003	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0026	< 0.0022	< 0.0027
1,2-Dichloropropane (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
1,2-Dichloropropane (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Dichlorobromo-methane (lbs/day) Daily Maximum	0.0026	0.0026	< 0.0016	0.0027	0.0097	0.0028	0.0076	0.0027	0.0036	0.0098	0.0032	< 0.002
Dichlorobromo-methane (mg/L) Daily Maximum	0.0005	0.0005	< 0.0003	0.0005	0.0013	0.0005	0.0015	0.0005	0.0007	0.0015	0.0006	< 0.0003
Bis(2-Ethyl-hexyl)Phthalate (lbs/day) Average Monthly	< 0.005	< 0.005	< 0.005	< 0.006	< 0.0063	< 0.0057	< 0.005	< 0.0313	< 0.0051	< 0.0063	< 0.0054	< 0.0066
Bis(2-Ethyl-hexyl)Phthalate (lbs/day) Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.006	< 0.0075	< 0.0057	< 0.005	< 0.0482	< 0.0051	< 0.0065	< 0.0054	< 0.0066
Bis(2-Ethyl-hexyl)Phthalate (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0048	< 0.001	< 0.001	< 0.001	< 0.001
Bis(2-Ethyl-hexyl)Phthalate (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0062	< 0.001	< 0.001	< 0.001	< 0.001
Chloroform (lbs/day) Average Monthly	0.019	0.006	< 0.007	0.008	0.135	0.0119	0.042	0.009	0.012	0.044	0.065	0.013
Chloroform (lbs/day) Daily Maximum	0.019	0.006	< 0.007	0.008	0.374	0.0119	0.042	0.009	0.012	0.0078	0.065	0.013
Chloroform (mg/L) Average Monthly	0.004	0.001	< 0.001	0.002	0.019	0.0021	0.008	0.002	0.002	0.007	0.012	0.002
Chloroform (mg/L) Daily Maximum	0.004	0.001	< 0.001	0.002	0.050	0.0021	0.008	0.002	0.002	0.012	0.012	0.002
Chrysene (lbs/day) Average Monthly	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0056	< 0.0051	< 0.005	< 0.0016	< 0.0046	< 0.0056	< 0.0049	< 0.006

Chrysene (lbs/day) Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.005	< 0.0067	< 0.0051	< 0.005	< 0.0048	< 0.0046	< 0.0059	< 0.0049	< 0.006
Chrysene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0003	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Chrysene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Diethyl Phthalate (lbs/day) Average Monthly	< 0.005	< 0.005	< 0.005	< 0.006	< 0.0063	< 0.0057	< 0.005	< 0.0042	< 0.0051	< 0.0063	< 0.0054	< 0.0066
Diethyl Phthalate (lbs/day) Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.006	< 0.0075	< 0.0057	< 0.005	< 0.0054	< 0.0051	< 0.0065	< 0.0054	< 0.0066
Diethyl Phthalate (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0007	< 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	< 0.009	< 0.008	< 0.009	< 0.009	< 0.010	< 0.0091	< 0.008	< 0.0031	< 0.0082	< 0.010	< 0.0086	< 0.0106
Dimethyl Phthalate (lbs/day) Daily Maximum	< 0.009	< 0.008	< 0.009	< 0.009	< 0.012	< 0.0091	< 0.008	< 0.0086	< 0.0082	< 0.0105	< 0.0086	< 0.0106
Dimethyl Phthalate (mg/L) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0016	< 0.0016	< 0.002	< 0.0005	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Dimethyl Phthalate (mg/L) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0016	< 0.0016	< 0.002	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Di-n-Butyl Phthalate (lbs/day) Average Monthly	< 0.004	< 0.004	< 0.013	< 0.004	< 0.005	< 0.0045	< 0.004	0.004	< 0.0041	< 0.005	< 0.0043	< 0.0053
Di-n-Butyl Phthalate (lbs/day) Daily Maximum	< 0.004	< 0.004	< 0.013	< 0.004	< 0.006	< 0.0045	< 0.004	0.007	< 0.0041	< 0.0052	< 0.0043	0.0053
Di-n-Butyl Phthalate (mg/L) Average Monthly	< 0.001	< 0.001	< 0.002	< 0.0008	< 0.0008	< 0.0008	< 0.0008	0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Di-n-Butyl Phthalate (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.002	< 0.0008	< 0.0008	< 0.0008	< 0.0008	0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Fluoranthene (lbs/day) Average Monthly	< 0.004	< 0.004	< 0.004	< 0.004	< 0.005	< 0.0045	< 0.004	< 0.0014	< 0.0041	< 0.005	< 0.0043	< 0.0053
Fluoranthene (lbs/day) Daily Maximum	< 0.004	< 0.004	< 0.004	< 0.004	< 0.006	< 0.0045	< 0.004	< 0.0043	< 0.0041	< 0.0052	< 0.0043	< 0.0053

Fluoranthene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0002	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Fluoranthene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
Hexachloro-butadiene (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0025	< 0.0023	< 0.002	< 0.0009	< 0.0021	< 0.0025	< 0.0022	< 0.0027
Hexachloro-butadiene (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0026	< 0.0022	< 0.0027
Hexachloro-butadiene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0001	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Hexachloro-butadiene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Hexachloroethane (lbs/day) Average Monthly	< 0.006	< 0.006	< 0.006	< 0.007	< 0.0075	< 0.0068	< 0.006	< 0.0021	< 0.0062	< 0.0075	< 0.0065	< 0.008
Hexachloroethane (lbs/day) Daily Maximum	< 0.006	< 0.006	< 0.006	< 0.007	< 0.009	< 0.0068	< 0.006	< 0.0065	< 0.0062	< 0.0078	< 0.0065	< 0.008
Hexachloroethane (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0012	< 0.0012	< 0.001	< 0.0004	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Hexachloroethane (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0012	< 0.0012	< 0.001	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Methyl Chloride (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0025	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0025	< 0.0022	< 0.0027
Methyl Chloride (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0026	< 0.0022	< 0.0027
Methyl Chloride (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Methyl Chloride (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004
Methylene Chloride (lbs/day) Average Monthly	< 0.002	0.002	< 0.002	0.003	0.003	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.0019	< 0.0016	0.003
Methylene Chloride (lbs/day) Daily Maximum	< 0.002	0.002	< 0.002	0.003	0.006	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.002	< 0.0016	0.003

Methylene Chloride (mg/L) Average Monthly	< 0.001	0.001	< 0.001	0.001	0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0004	< 0.0003	0.0001
Methylene Chloride (mg/L) Daily Maximum	< 0.001	0.001	< 0.001	0.001	0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0004	< 0.0003	0.0001
Naphthalene (lbs/day) Average Monthly	< 0.006	< 0.006	< 0.006	< 0.006	< 0.0069	< 0.0062	< 0.006	< 0.0018	< 0.0057	< 0.0069	< 0.0059	< 0.0073
Naphthalene (lbs/day) Daily Maximum	< 0.006	< 0.006	< 0.006	< 0.006	< 0.0082	< 0.0062	< 0.006	< 0.0059	< 0.0057	< 0.0072	< 0.0059	< 0.0073
Naphthalene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0011	< 0.0011	< 0.001	< 0.0003	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Naphthalene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0011	< 0.0011	< 0.001	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
Phenanthrene (lbs/day) Average Monthly	< 0.008	< 0.008	< 0.008	< 0.008	< 0.0094	< 0.0085	< 0.008	< 0.0023	< 0.0077	< 0.0094	< 0.0081	< 0.0099
Phenanthrene (lbs/day) Daily Maximum	< 0.008	< 0.008	< 0.008	< 0.008	< 0.0112	< 0.0085	< 0.008	< 0.0081	< 0.0077	< 0.0098	< 0.0081	< 0.0099
Phenanthrene (mg/L) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0015	< 0.0015	< 0.002	< 0.0004	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Phenanthrene (mg/L) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0015	< 0.0015	< 0.002	< 0.0015	< 0.0015	< 0.0015	< 0.0015	< 0.0015
Total Phenolics (lbs/day) Daily Maximum	< 0.1373	0.1995	< 0.1374	< 0.142	< 0.1946	0.289	< 0.1313	< 0.2088	2.0583	< 0.1699	< 0.1402	< 0.3449
Total Phenolics (mg/L) Daily Maximum	< 0.026	0.038	< 0.026	< 0.026	< 0.026	0.051	< 0.026	< 0.026	0.4	< 0.026	< 0.026	< 0.052
Pyrene (lbs/day) Average Monthly	< 0.009	< 0.008	< 0.009	< 0.009	< 0.010	< 0.0091	< 0.008	< 0.0024	< 0.0082	< 0.010	< 0.0086	< 0.0106
Pyrene (lbs/day) Daily Maximum	< 0.009	< 0.008	< 0.009	< 0.009	< 0.012	< 0.0091	< 0.008	< 0.0086	< 0.0082	< 0.0105	< 0.0086	< 0.0106
Pyrene (mg/L) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0016	< 0.0016	< 0.002	< 0.0004	< 0.0016	< 0.0016	< 0.0016	< 0.0016
Pyrene (mg/L) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0016	< 0.0016	< 0.002	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016
1,1-Dichloroethylene (lbs/day) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0006	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0006	< 0.0005	< 0.0007
1,1-Dichloroethylene (lbs/day) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0005	< 0.0007	< 0.0006	< 0.0005	< 0.0005	< 0.0005	< 0.0007	< 0.0005	< 0.0007
1,1-Dichloroethylene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001

1,1-Dichloroethylene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
trans-1,2-Dichloroethylene (lbs/day) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0013	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.0013	< 0.0011	< 0.0013
trans-1,2-Dichloroethylene (lbs/day) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0015	< 0.0011	< 0.001	< 0.0011	< 0.001	< 0.0013	< 0.0011	< 0.0013
trans-1,2-Dichloroethylene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 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	< 0.001	< 0.001	< 0.001	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Tetrachloro-ethylene (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0019	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.0019	< 0.0016	< 0.002
Tetrachloro-ethylene (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0022	< 0.0017	< 0.002	0.0016	< 0.0015	< 0.002	< 0.0016	< 0.002
Tetrachloro-ethylene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Tetrachloro-ethylene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Toluene (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0025	< 0.0023	< 0.002	< 0.0022	0.0021	< 0.0025	< 0.0022	0.003
Toluene (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.003	< 0.0023	< 0.002	< 0.0022	< 0.0021	< 0.0026	< 0.0022	0.003
Toluene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0005	< 0.0004	0.0001
Toluene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0004	< 0.0005	< 0.0004	0.0001
Trichloroethylene (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0019	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.0019	< 0.0016	< 0.002
Trichloroethylene (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0022	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.002	< 0.0016	< 0.002

Trichloroethylene (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Trichloroethylene (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
PCBs (Dry Weather) (pg/L) Daily Maximum									158.66			
Vinyl Chloride (lbs/day) Average Monthly	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0019	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.0019	< 0.0016	< 0.002
Vinyl Chloride (lbs/day) Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.0022	< 0.0017	< 0.002	< 0.0016	< 0.0015	< 0.002	< 0.0016	< 0.002
Vinyl Chloride (mg/L) Average Monthly	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Vinyl Chloride (mg/L) Daily Maximum	< 0.001	< 0.001	< 0.001	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Chronic WET - Ceriodaphnia Survival (TUc) Daily Maximum			1.4			1.4			1.4			1.4
Chronic WET - Ceriodaphnia Reproduction (TUc) Daily Maximum			1.4			1.4			1.4			1.4
Chronic WET - Pimephales Survival (TUc) Daily Maximum			1.4			1.4			1.4			1.4
Chronic WET - Pimephales Growth (TUc) Daily Maximum			1.4			1.4			1.4			1.4

DMR Data for Outfall 013 (from September 1, 2023 to August 31, 2024)

Parameter	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23
pH (S.U.) Daily Maximum									7.41			
CBOD5 (mg/L) Daily Maximum									3.6			
COD (mg/L) Daily Maximum									104			

TSS (mg/L) Daily Maximum									44.7			
Oil and Grease (mg/L) Daily Maximum									< 1.4			
TKN (mg/L) Daily Maximum									2.3			
Total Phosphorus (mg/L) Daily Maximum									1.6			
Total Chromium (mg/L) Daily Maximum									< 0.0014			
Total Copper (mg/L) Daily Maximum									0.0124			
Total Cyanide (mg/L) Daily Maximum									0.01			
Dissolved Iron (mg/L) Daily Maximum									< 76.8			
Total Lead (mg/L) Daily Maximum									0.0061			
Total Nickel (mg/L) Daily Maximum									0.0029			
Total Zinc (mg/L) Daily Maximum									0.101			
2-Chlorophenol (mg/L) Daily Maximum									< 0.0004			
2,4-Dichlorophenol (mg/L) Daily Maximum									< 0.0012			
2,4-Dimethylphenol (mg/L) Daily Maximum									< 0.0007			
Fluorene (mg/L) Daily Maximum									< 0.0009			
2,4-Dinitrophenol (mg/L) Daily Maximum									< 0.013			
2,4-Dinitrotoluene (mg/L) Daily Maximum									< 0.001			
2,6-Dinitrotoluene (mg/L) Daily Maximum									< 0.0014			
4,6-dinitro-o-cresol (mg/L) Daily Maximum									< 0.0071			

2-Nitrophenol (mg/L) Daily Maximum									< 0.0019			
4-Nitrophenol (mg/L) Daily Maximum									< 0.0017			
Phenol (mg/L) Daily Maximum									< 0.0012			
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									< 0.0013			
Chlorobenzene (mg/L) Daily Maximum									< 0.0004			
1,2-Dichlorobenzene (mg/L) Daily Maximum									< 0.0006			
1,3-Dichlorobenzene (mg/L) Daily Maximum									< 0.002			
1,4-Dichlorobenzene (mg/L) Daily Maximum									< 0.0005			
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									< 0.0009			
Nitrobenzene (mg/L) Daily Maximum									< 0.0016			
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									< 0.001			
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									< 0.0002			
1,1-Dichloroethane (mg/L) Daily Maximum									< 0.0003			
1,2-Dichloroethane (mg/L) Daily Maximum									< 0.0008			
1,2-Dichloropropane (mg/L) Daily Maximum									< 0.0004			
Bis(2-Ethyl-hexyl)Phthalate (mg/L) Daily Maximum									0.021			
Chloroform (mg/L) Daily Maximum									< 0.0003			
Chrysene (mg/L) Daily Maximum									< 0.0009			
Diethyl Phthalate (mg/L) Daily Maximum									0.0014			
Dimethyl Phthalate (mg/L) Daily Maximum									< 0.0016			
Di-n-Butyl Phthalate (mg/L) Daily Maximum									< 0.0008			

Fluoranthene (mg/L) Daily Maximum									< 0.0008			
Hexachloro-butadiene (mg/L) Daily Maximum									< 0.0004			
Hexachloroethane (mg/L) Daily Maximum									< 0.0012			
Methyl Chloride (mg/L) Daily Maximum									< 0.0004			
Methylene Chloride (mg/L) Daily Maximum									< 0.0003			
Naphthalene (mg/L) Daily Maximum									< 0.0011			
Phenanthrene (mg/L) Daily Maximum									< 0.0015			
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									< 0.0003			

DMR Data for Outfall 019 (from September 1, 2023 to August 31, 2024)

Parameter	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23
pH (S.U.) Daily Maximum									7.46			
CBOD5 (mg/L) Daily Maximum									4.5			

COD (mg/L) Daily Maximum									4.3			
TSS (mg/L) Daily Maximum									2.5			
Oil and Grease (mg/L) Daily Maximum									< 1.4			
TKN (mg/L) Daily Maximum									0.66			
Total Phosphorus (mg/L) Daily Maximum									1.7			
Total Chromium (mg/L) Daily Maximum									< 0.0014			
Total Copper (mg/L) Daily Maximum									< 0.0044			
Total Cyanide (mg/L) Daily Maximum									< 0.004			
Dissolved Iron (mg/L) Daily Maximum									< 78.6			
Total Lead (mg/L) Daily Maximum									< 0.0005			
Total Nickel (mg/L) Daily Maximum									< 0.0015			
Total Zinc (mg/L) Daily Maximum									0.493			
2-Chlorophenol (mg/L) Daily Maximum									< 0.0004			
2,4-Dichlorophenol (mg/L) Daily Maximum									< 0.0012			
2,4-Dimethylphenol (mg/L) Daily Maximum									< 0.0007			
Fluorene (mg/L) Daily Maximum									< 0.0009			
2,4-Dinitrophenol (mg/L) Daily Maximum									< 0.013			
2,4-Dinitrotoluene (mg/L) Daily Maximum									< 0.001			
2,6-Dinitrotoluene (mg/L) Daily Maximum									< 0.0014			

4,6-dinitro-o-cresol (mg/L) Daily Maximum									< 0.0071			
2-Nitrophenol (mg/L) Daily Maximum									< 0.0019			
4-Nitrophenol (mg/L) Daily Maximum									< 0.0017			
Phenol (mg/L) Daily Maximum									< 0.0012			
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									< 0.0013			
Chlorobenzene (mg/L) Daily Maximum									< 0.0004			
1,2-Dichlorobenzene (mg/L) Daily Maximum									< 0.0006			
1,3-Dichlorobenzene (mg/L) Daily Maximum									< 0.002			
1,4-Dichlorobenzene (mg/L) Daily Maximum									< 0.0005			
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									< 0.0009			
Nitrobenzene (mg/L) Daily Maximum									< 0.0016			
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									< 0.0007			
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									< 0.0002			
1,1-Dichloroethane (mg/L) Daily Maximum									< 0.0003			
1,2-Dichloroethane (mg/L) Daily Maximum									< 0.0008			
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									< 0.0016			

Di-n-Butyl Phthalate (mg/L) Daily Maximum									0.0032			
Fluoranthene (mg/L) Daily Maximum									< 0.0008			
Hexachloro-butadiene (mg/L) Daily Maximum									< 0.0004			
Hexachloroethane (mg/L) Daily Maximum									< 0.0012			
Methyl Chloride (mg/L) Daily Maximum									< 0.0004			
Methylene Chloride (mg/L) Daily Maximum									< 0.0003			
Naphthalene (mg/L) Daily Maximum									< 0.0011			
Phenanthrene (mg/L) Daily Maximum									< 0.0015			
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									250.19			
Vinyl Chloride (mg/L) Daily Maximum									< 0.0003			

WET Summary and Evaluation

Facility Name	Rohm & Haas Bristol Facility
Permit No.	PA0012769
Design Flow (MGD)	1.716
Q_{7-10} Flow (cfs)	1
PMF_a	1
PMF_c	1

		Test Results (Pass/Fail)			
		Test Date	Test Date	Test Date	Test Date
Species	**Endpoint**	9/19/23	12/6/23	3/18/24	6/18/24
Ceriodaphnia	Survival	PASS	PASS	PASS	PASS

		Test Results (Pass/Fail)			
		Test Date	Test Date	Test Date	Test Date
Species	**Endpoint**	9/19/23	12/6/23	3/18/24	6/18/24
Ceriodaphnia	Reproduction	PASS	PASS	PASS	PASS

		Test Results (Pass/Fail)			
		Test Date	Test Date	Test Date	Test Date
Species	**Endpoint**	9/19/23	12/5/23	3/19/24	6/18/24
Pimephales	Growth	PASS	PASS	PASS	PASS

		Test Results (Pass/Fail)			
		Test Date	Test Date	Test Date	Test Date
Species	**Endpoint**	9/19/23	12/5/23	3/19/24	6/18/24
Pimephales	Survival	PASS	PASS	PASS	PASS

Reasonable Potential? NO

Permit Recommendations

Test Type	**Chronic**
TIWC	**73** % Effluent
Dilution Series	**18, 37, 73, 87, 100** % Effluent
Permit Limit	**None**
Permit Limit Species	

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (386-0400-001), SOPs and/or BPJ.

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

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	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TSS	XXX	XXX	XXX	30.0	45.0 Wkly Avg	75	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
PFOA (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFOS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFBS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
HFPO-DA (ng/L)	XXX	XXX	XXX	XXX	Report	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" (386-0400-001), 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	Daily 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
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
PFOA (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFOS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Outfall 003, 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		
PFBS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
HFPO-DA (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab

Proposed Effluent Limitations and Monitoring Requirements

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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	Daily 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
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	30.0	45.0 Wkly Avg	75	2/month	Grab
Total Dissolved Solids	XXX	XXX	XXX	1000.0 Avg Qrtly	2000.0	2500	1/quarter	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 008, 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		
PFOA (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFOS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFBS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
HFPO-DA (ng/L)	XXX	XXX	XXX	XXX	Report	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" (386-0400-001), 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
Temperature Increase (ºF)	XXX	XXX	XXX	XXX	XXX	91.0	1/week	I-S
BOD5	343	916	XXX	24	64	80	1/week	24-Hr Composite
BOD5 Industrial Influent	XXX	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
BOD5 % Removal (%) Percent Removal	XXX	XXX	XXX	88.5 Min Mo Avg	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	1/week	24-Hr Composite
TSS % Removal (%) Percent Removal	XXX	XXX	XXX	85 Min Mo Avg	XXX	XXX	1/week	Calculation
Total Dissolved Solids	Report	Report	XXX	1000	2000	2500	1/week	24-Hr Composite
Ammonia	286.0	XXX	XXX	20.0	XXX	40	1/month	24-Hr Composite
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/month	Calculation
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

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 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
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

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		
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
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

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		
1,1,1-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
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

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 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
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
Acrylamide	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	24-Hr Composite
PFOA (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFOS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
PFBS (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
HFPO-DA (ng/L)	XXX	XXX	XXX	XXX	Report	XXX	1/quarter	Grab
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	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	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 Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	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		
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nickel	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
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

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		
1,3-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
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

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		
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
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" (386-0400-001), 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	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Calculation
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	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 Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	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		
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nickel	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
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

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		
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
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

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		
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
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