

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0244775
APS ID 1138143
Authorization ID 1528562

Applicant and Facility Information

Applicant Name	<u>PA American Water Co.</u>	Facility Name	<u>PA American Water</u>
Applicant Address	<u>852 Wesley Drive</u> <u>Mechanicsburg, PA 17055-4436</u>	Facility Address	<u>300 W Washington Street</u> <u>Norristown, PA 19401-4694</u>
Applicant Contact	<u>Thomas Neri</u>	Facility Contact	<u>Edward Farber</u>
Applicant Phone	<u>(610) 389-5181</u>	Facility Phone	<u>(610) 209-0794</u>
Client ID	<u>87712</u>	Site ID	<u>524015</u>
SIC Code	<u>4941</u>	Municipality	<u>Norristown Borough</u>
SIC Description	<u>Trans. & Utilities - Water Supply</u>	County	<u>Montgomery</u>
Date Application Received	<u>May 28, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>.Permit Renewal</u>		

Summary of Review

PA American Water Co. (PAWC) applied to renew NPDES permit PA0244775 to discharge up to 1.93 million gallons per day (mgd) of supernatant from wastewater clarifiers to the Schuylkill River from Norristown Water Treatment Plant (WTP).

Clarified wastewater is discharged to the Schuylkill River when the volume or quality of the wastewater clarifier exceeds WTP goals for recycled water. If the discharge to the Schuylkill River occurs during a Maximum Day event, the proposed flow at Outfall 001 would be 1.93 MGD.

Backwash wastewater, and other process wastewater, is directed to the existing wastewater clarifiers. Polymer is applied to the backwash waste to facilitate settling and clarification of the supernatant. After settling of the solids, the clarified wastewater will normally be decanted and recycled to the head of the water treatment process. Alternatively, PAWC may discharge the clarified wastewater to the Schuylkill River. Discharge to the river is expected to occur infrequently, primarily during periods of time when recycling of the wastewater may have a negative impact on the water treatment process or finished water quality, or if wastewater generation exceeds 10% of the plant flow. This discharge is for emergency purposes

Per the inspection from 6/12/2025, the site seems to be in good condition. From the inspection. It was recommended that the facility consider disposing of the screen materials as waste instead of dumping the material at the rear of the property.

Regarding the stormwater assessment, the facility's SIC code does not fall under any of Appendices from PAG-03. The stormwater monitoring is not necessary for now.

TMS was run to verify the limits for the discharge. There is no change to the existing limits.

Approve	Deny	Signatures	Date
X		<i>Charley Yang</i> Charley Yang / Environmental Engineering Specialist	November 20, 2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	11/20/2025

Summary of Review

Schuylkill River is impaired with PCBs. However, the source water is taken directly from the Schuylkill River so no net increase in PCBs is expected to be discharged back to the Schuylkill River, thus the Schuylkill River PCB TMDL is not applicable.

The approval is being recommended.

Act 14 notificaiton:

Municipality of Norristown: received on May 14, 2025

Montgomery County: received on May 9, 2025

DRBC: received on May 27, 2025

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.	<u>001</u>	Design Flow (MGD)	<u>1.93</u>
Latitude	<u>40° 6' 44.00"</u>	Longitude	<u>-75° 20' 56.00"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Water Treatment Effluent</u>			
Receiving Waters	<u>Schuylkill River (WWF, MF)</u>	Stream Code	<u>00833</u>
NHD Com ID	<u>25985556</u>	RMI	<u>24.68</u>
Drainage Area	<u>1760</u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u>356</u>	Q ₇₋₁₀ Basis	<u>StreamStats</u>
Elevation (ft)	<u>57.71</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u></u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>POLYCHLORINATED BIPHENYLS (PCBS)</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>Final</u>	Name	<u>Schuylkill River PCB TMDL</u>

Changes Since Last Permit Issuance: a few minor updates from StreamStats

Other Comments:

Development of Effluent Limitations

Outfall No. 001
Latitude 40° 6' 50.00"
Wastewater Description: Water Treatment Effluent

Design Flow (MGD) 1.93
Longitude -75° 20' 53.00"

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: CBOD₅ is not expected to be in the wastewater. The maximum reported level of CBOD₅ was 8.4 mg/l which is below the threshold warranting modeling of the effluent. Fecal coliform is unlikely to be present in the waste stream.

No applicable ELG for this facility, but there is a PA DEP document: PA DEP, Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, effective October 1, 1997. The following tables shows the limits based on the aforementioned document. In addition to the below limits, monitoring for Total THMs which is the sum of the individual concentrations of chloroform (trichloro-methane), bromo dichloromethane, dibromochloromethane, and bromoform (trichloro-methane). The current permit limitations are consistent with this document.

Parameter	Monthly avg (mg/l)	Daily Max (mg/l)
Suspended Solids	30	60
Iron, total	2	4
Aluminum, total	4	8
Manganese, total	1	2
Flow	Monitor	
pH	6-9	
TRC	0.5	1.0

The TRC is more stringent in the Technology-Based limitations and will be carried over from the previous permit renewal. Oil and grease was reported at a maximum concentration of 1.7 mg/l with an average of 1.5 mg/l; these are low levels and not expected to be present in the waste stream at elevated levels, thus oil and grease will not be monitored.

Water Quality-Based Limitations

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

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

Parameter	Limit (mg/l)	SBC	Model
Chloride	Report	When discharging	Toxics Spreadsheet
Sulfate	Report	When discharging	Toxics Spreadsheet
Total Iron	Report	When discharging	Toxics Spreadsheet

Comments: TMS was run to verify. No additional parameters are being added.

Best Professional Judgment (BPJ) Limitations

Comments: None

Anti-Backsliding

None

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	Daily Maximum	Minimum	Average Quarterly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	Report	XXX	XXX	XXX	XXX	Daily when Discharging	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Daily when Discharging	Grab
TRC	XXX	XXX	XXX	0.5 Avg Mo	XXX	1.2	Daily when Discharging	Grab
TSS	483	966	XXX	30 Avg Mo	60	75	Daily when Discharging	Grab
Total Aluminum	54	108	XXX	3.35 Avg Mo	6.7	8.4	Daily when Discharging	Grab
Total Iron	32	64	XXX	2.0 Avg Mo	4.0	5	Daily when Discharging	Grab
Total Manganese	16	32	XXX	1.0 Avg Mo	2.0	2.5	Daily when Discharging	Grab
Bromoform	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
Chlorodibromo-methane	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
Dichlorobromo-methane	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
Chloroform	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab

Compliance Sampling Location:

Other Comments:



Discharge Information

Instructions Discharge Stream

Facility: **PA American Water Norristown WTP** NPDES Permit No.: **PA0244775** Outfall No.: **001**

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

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
1.93	134	7						

				0 if left blank		0.5 if left blank		0 if left blank			1 if left blank			
Discharge Pollutant				Units	Max Discharge Conc	Trib Conc	Stream Conc	Daily CV	Hourly CV	Stream CV	Fate Coeff	FOS	Criteria Mod	Chem Transl
Group 1	Total Dissolved Solids (PWS)			mg/L	374									
	Chloride (PWS)			mg/L	126									
	Bromide			mg/L	< 0.2									
	Sulfate (PWS)			mg/L	35.5									
	Fluoride (PWS)			mg/L	0.09									
Group 2	Total Aluminum			µg/L	224									
	Total Antimony			µg/L	< 0.4									
	Total Arsenic			µg/L	< 1.5									
	Total Barium			µg/L	41									
	Total Beryllium			µg/L	< 0.4									
	Total Boron			µg/L	54									
	Total Cadmium			µg/L	< 0.1									
	Total Chromium (III)			µg/L	6									
	Hexavalent Chromium			µg/L	2.11									
	Total Cobalt			µg/L	< 1									
	Total Copper			µg/L	7									
	Free Cyanide			µg/L										
	Total Cyanide			µg/L	9									
	Dissolved Iron			µg/L	24									
	Total Iron			µg/L	17200									
	Total Lead			µg/L	< 1									
	Total Manganese			µg/L	919									
	Total Mercury			µg/L	< 0.2									
	Total Nickel			µg/L	4									
	Total Phenols (Phenolics) (PWS)			µg/L	< 5									
	Total Selenium			µg/L	< 2									
	Total Silver			µg/L	< 0.2									
	Total Thallium			µg/L	< 0.4									
	Total Zinc			µg/L	5									
	Total Molybdenum			µg/L										
Acrolein			µg/L	<										
Acrylamide			µg/L	<										
Acrylonitrile			µg/L	<										
Benzene			µg/L	<										
Bromoform			µg/L	< 0.5										
Carbon Tetrachloride			µg/L	<										
Chlorobenzene			µg/L	<										
Chlorodibromomethane			µg/L	< 7										
Chloroethane			µg/L	<										
2-Chloroethyl Vinyl Ether			µg/L	<										

Group 3	Chloroform	µg/L	<	61.3															
	Dichlorobromomethane	µg/L	<	1.3															
	1,1-Dichloroethane	µg/L	<																
	1,2-Dichloroethane	µg/L	<																
	1,1-Dichloroethylene	µg/L	<																
	1,2-Dichloropropane	µg/L	<																
	1,3-Dichloropropylene	µg/L	<																
	1,4-Dioxane	µg/L	<																
	Ethylbenzene	µg/L	<																
	Methyl Bromide	µg/L	<																
	Methyl Chloride	µg/L	<																
	Methylene Chloride	µg/L	<																
	1,1,2,2-Tetrachloroethane	µg/L	<																
	Tetrachloroethylene	µg/L	<																
	Toluene	µg/L	<																
	1,2-trans-Dichloroethylene	µg/L	<																
	1,1,1-Trichloroethane	µg/L	<																
	1,1,2-Trichloroethane	µg/L	<																
	Trichloroethylene	µg/L	<																
	Vinyl Chloride	µg/L	<																
Group 4	2-Chlorophenol	µg/L	<																
	2,4-Dichlorophenol	µg/L	<																
	2,4-Dimethylphenol	µg/L	<																
	4,6-Dinitro-o-Cresol	µg/L	<																
	2,4-Dinitrophenol	µg/L	<																
	2-Nitrophenol	µg/L	<																
	4-Nitrophenol	µg/L	<																
	p-Chloro-m-Cresol	µg/L	<																
	Pentachlorophenol	µg/L	<																
	Phenol	µg/L	<																
Group 5	2,4,6-Trichlorophenol	µg/L	<																
	Acenaphthene	µg/L	<																
	Acenaphthylene	µg/L	<																
	Anthracene	µg/L	<																
	Benzidine	µg/L	<																
	Benzo(a)Anthracene	µg/L	<																
	Benzo(a)Pyrene	µg/L	<																
	3,4-Benzofluoranthene	µg/L	<																
	Benzo(ghi)Perylene	µg/L	<																
	Benzo(k)Fluoranthene	µg/L	<																
	Bis(2-Chloroethoxy)Methane	µg/L	<																
	Bis(2-Chloroethyl)Ether	µg/L	<																
	Bis(2-Chloroisopropyl)Ether	µg/L	<																
	Bis(2-Ethylhexyl)Phthalate	µg/L	<																
	4-Bromophenyl Phenyl Ether	µg/L	<																
	Butyl Benzyl Phthalate	µg/L	<																
	2-Chloronaphthalene	µg/L	<																
	4-Chlorophenyl Phenyl Ether	µg/L	<																
	Chrysene	µg/L	<																
	Dibenzo(a,h)Anthracene	µg/L	<																
	1,2-Dichlorobenzene	µg/L	<																
	1,3-Dichlorobenzene	µg/L	<																
	1,4-Dichlorobenzene	µg/L	<																
	3,3-Dichlorobenzidine	µg/L	<																
	Diethyl Phthalate	µg/L	<																
	Dimethyl Phthalate	µg/L	<																
	Di-n-Butyl Phthalate	µg/L	<																
	2,4-Dinitrotoluene	µg/L	<																
	2,6-Dinitrotoluene	µg/L	<																
	Di-n-Octyl Phthalate	µg/L	<																
	1,2-Diphenylhydrazine	µg/L	<																
	Fluoranthene	µg/L	<																
	Fluorene	µg/L	<																
	Hexachlorobenzene	µg/L	<																
	Hexachlorobutadiene	µg/L	<																
	Hexachlorocyclopentadiene	µg/L	<																
	Hexachloroethane	µg/L	<																
	Indeno(1,2,3-cd)Pyrene	µg/L	<																

[illegible]



Stream / Surface Water Information

PA American Water Norristown WTP, NPDES Permit No. PA0244775, Outfall 001

Instructions Discharge **Stream**

Receiving Surface Water Name: **Schuylkill River (WWF, MF)**

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	000833	24.68	57.71	1760			Yes
End of Reach 1	000833	24.32	47.14	1770			Yes

Q₇₋₁₀

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	24.68	0.1										100	7		
End of Reach 1	24.32	0.1													

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	24.68														
End of Reach 1	24.32														



Model Results

PA American Water Norristown WTP, NPDES Permit No. PA0244775, Outfall 001

Instructions

Results

RETURN TO INPUTS

SAVE AS PDF

PRINT

☒ All

☐ Inputs

☐ Results

☐ Limits

☐ Hydrodynamics

☒ Wasteload Allocations

☒ AFC

CCT (min): 15

PMF: 0.163

Analysis Hardness (mg/l): 103.2

Analysis pH: 7.00

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	7,960	
Total Antimony	0	0		0	1,100	1,100	11,675	
Total Arsenic	0	0		0	340	340	3,609	Chem Translator of 1 applied
Total Barium	0	0		0	21,000	21,000	222,879	
Total Boron	0	0		0	8,100	8,100	85,967	
Total Cadmium	0	0		0	2,076	2.2	23.4	Chem Translator of 0.943 applied
Total Chromium (III)	0	0		0	584.670	1,850	19,637	Chem Translator of 0.316 applied
Hexavalent Chromium	0	0		0	16	16.3	173	Chem Translator of 0.982 applied
Total Cobalt	0	0		0	95	95.0	1,008	
Total Copper	0	0		0	13.844	14.4	153	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	66.836	85.0	902	Chem Translator of 0.786 applied
Total Manganese	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	1,400	1.65	17.5	Chem Translator of 0.85 applied
Total Nickel	0	0		0	480.895	482	5,114	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	3.396	4.0	42.4	Chem Translator of 0.85 applied
Total Thallium	0	0		0	65	65.0	690	
Total Zinc	0	0		0	120.353	123	1,306	Chem Translator of 0.978 applied
Bromoform	0	0		0	1,800	1,800	19,104	
Chlorodibromomethane	0	0		0	N/A	N/A	N/A	
Chloroform	0	0		0	1,900	1,900	20,165	

Model Results

11/19/2025

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Dichlorobromomethane	0	0	0	N/A	N/A	N/A
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☒ **CFC**

CCT (min): #####

PMF: 1

Analysis Hardness (mg/l): 100.57

Analysis pH: 7.00

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	0	N/A	N/A	N/A	
Chloride (PWS)	0	0	0	0	N/A	N/A	N/A	
Sulfate (PWS)	0	0	0	0	N/A	N/A	N/A	
Fluoride (PWS)	0	0	0	0	N/A	N/A	N/A	
Total Aluminum	0	0	0	0	N/A	N/A	N/A	
Total Antimony	0	0	0	0	220	220	13,188	
Total Arsenic	0	0	0	0	150	150	8,992	Chem Translator of 1 applied
Total Barium	0	0	0	0	4,100	4,100	245,785	
Total Boron	0	0	0	0	1,600	1,600	95,916	
Total Cadmium	0	0	0	0	0.247	0.27	16.3	Chem Translator of 0.909 applied
Total Chromium (III)	0	0	0	0	74.459	86.6	5,190	Chem Translator of 0.86 applied
Hexavalent Chromium	0	0	0	0	10	10.4	623	Chem Translator of 0.962 applied
Total Cobalt	0	0	0	0	19	19.0	1,139	
Total Copper	0	0	0	0	8.999	9.37	562	Chem Translator of 0.96 applied
Dissolved Iron	0	0	0	0	N/A	N/A	N/A	
Total Iron	0	0	0	0	1,500	1,500	89,921	WQC = 30 day average; PMF = 1
Total Lead	0	0	0	0	2.532	3.2	192	Chem Translator of 0.79 applied
Total Manganese	0	0	0	0	N/A	N/A	N/A	
Total Mercury	0	0	0	0	0.770	0.91	54.3	Chem Translator of 0.85 applied
Total Nickel	0	0	0	0	52.256	52.4	3,142	Chem Translator of 0.997 applied
Total Phenols (Phenolics) (PWS)	0	0	0	0	N/A	N/A	N/A	
Total Selenium	0	0	0	0	4.600	4.99	299	Chem Translator of 0.922 applied
Total Silver	0	0	0	0	N/A	N/A	N/A	Chem Translator of 1 applied
Total Thallium	0	0	0	0	13	13.0	779	
Total Zinc	0	0	0	0	118,706	120	7,217	Chem Translator of 0.986 applied
Bromoform	0	0	0	0	370	370	22,181	
Chlorodibromomethane	0	0	0	0	N/A	N/A	N/A	
Chloroform	0	0	0	0	390	390	23,380	
Dichlorobromomethane	0	0	0	0	N/A	N/A	N/A	

☒ **THH**

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	0	500,000	500,000	N/A	
Chloride (PWS)	0	0	0	0	250,000	250,000	N/A	
Sulfate (PWS)	0	0	0	0	250,000	250,000	N/A	
Fluoride (PWS)	0	0	0	0	2,000	2,000	N/A	
Total Aluminum	0	0	0	0	N/A	N/A	N/A	
Total Antimony	0	0	0	0	5.6	5.6	336	
Total Arsenic	0	0	0	0	10	10.0	599	
Total Barium	0	0	0	0	2,400	2,400	143,874	
Total Boron	0	0	0	0	3,100	3,100	185,837	

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	17,984
Total Iron	0	0		0	N/A	N/A	N/A
Total Lead	0	0		0	N/A	N/A	N/A
Total Manganese	0	0		0	1,000	1,000	59,947
Total Mercury	0	0		0	0.050	0.05	3.0
Total Nickel	0	0		0	610	610	36,568
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	14.4
Total Zinc	0	0		0	N/A	N/A	N/A
Bromoform	0	0		0	N/A	N/A	N/A
Chlorodibromomethane	0	0		0	N/A	N/A	N/A
Chloroform	0	0		0	5.7	5.7	342
Dichlorobromomethane	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	
Bromoform	0	0		0	7	7.0	1,605	
Chlorodibromomethane	0	0		0	0.8	0.8	183	
Chloroform	0	0		0	N/A	N/A	N/A	
Dichlorobromomethane	0	0		0	0.95	0.95	218	

☒ **Recommended WQBELs & Monitoring Requirements**

No. Samples/Month: 4

Pollutants	Mass Limits		Concentration Limits				Governing WQBEL	WQBEL Basis	Comments
	AML (lbs/day)	MDL (lbs/day)	AML	MDL	IMAX	Units			
Total Iron	Report	Report	Report	Report	Report	µg/L	89,921	CFC	Discharge Conc > 10% WQBEL (no RP)

☒ **Other Pollutants without Limits or Monitoring**

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

Pollutants	Governing WQBEL	Units	Comments
Total Dissolved Solids (PWS)	N/A	N/A	PWS Not Applicable
Chloride (PWS)	N/A	N/A	PWS Not Applicable
Bromide	N/A	N/A	No WQS
Sulfate (PWS)	N/A	N/A	PWS Not Applicable
Fluoride (PWS)	N/A	N/A	PWS Not Applicable
Total Aluminum	5,102	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	142,856	µg/L	Discharge Conc ≤ 10% WQBEL
Total Beryllium	N/A	N/A	No WQS
Total Boron	55,102	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cadmium	15.0	µg/L	Discharge Conc < TQL
Total Chromium (III)	5,190	µg/L	Discharge Conc ≤ 10% WQBEL
Hexavalent Chromium	111	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cobalt	646	µg/L	Discharge Conc < TQL
Total Copper	98.1	µg/L	Discharge Conc ≤ 10% WQBEL
Total Cyanide	N/A	N/A	No WQS
Dissolved Iron	17,984	µg/L	Discharge Conc ≤ 10% WQBEL
Total Lead	192	µg/L	Discharge Conc < TQL
Total Manganese	59,947	µg/L	Discharge Conc ≤ 10% WQBEL
Total Mercury	3.0	µg/L	Discharge Conc < TQL
Total Nickel	3,142	µg/L	Discharge Conc ≤ 10% WQBEL
Total Phenols (Phenolics) (PWS)		µg/L	Discharge Conc < TQL
Total Selenium	299	µg/L	Discharge Conc < TQL
Total Silver	27.2	µg/L	Discharge Conc < TQL
Total Thallium	14.4	µg/L	Discharge Conc < TQL
Total Zinc	837	µg/L	Discharge Conc ≤ 10% WQBEL

[illegible]