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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0288993**
Facility Type	**Industrial**	APS ID	**1031751**
Major / Minor	**Minor**	Authorization ID	**1342106**

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

Applicant and Facility Information

Applicant Name	**Kirila Contractors, Inc.**	Facility Name	**GD Leasing Facility**
Applicant Address	P.O. Box 179	Facility Address	3035 Lynnwood Drive
	Brookfield, OH 44403-0179		Hermitage, PA 16148-2104
Applicant Contact	Robert Kirila	Facility Contact	
Applicant Phone	(330) 448-4055	Facility Phone	
Client ID	172554	Site ID	490432
SIC Code	4214	Municipality	Hermitage City
SIC Description	Trans. & Utilities - Local Trucking with Storage	County	Mercer
Date Application Received	February 1, 2021	EPA Waived?	Yes
Date Application Accepted	February 16, 2021	If No, Reason	

Purpose of Application: New NPDES Permit for an existing discharge of industrial waste.

Summary of Review

The facility is a former trucking facility that is no longer operating. This NPDES Permit is for the discharge of groundwater collected onsite which is contaminated with Light Non-Aqueous Phase Liquid (LNAPL) and petroleum product contamination from past industrial activity at the site.

The facility previously held NPDES General permits PAG058384 and PAG058393 for discharges from groundwater remediation systems that were installed onsite. Those permits have been cancelled.

Attainment of this NPDES Permit is part of the Remediation Action Plan for the facility, which was part of a Consent Order and Agreement executed between the Department's Environmental Cleanup and Brownfields Program and the Permittee.

A WQM Permit will need to be obtained for the installation and operation of any treatment units installed in order to meet the effluent limitations and conditions of the final issued NPDES Permit.

There are currently no open violations listed in EFACTS for this permittee (1/11/2022).

Public Participation

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

Approve	Deny	Signatures	Date
X		Adam J. Pesek Adam J. Pesek, E.I.T. / Environmental Engineer	January 11, 2022
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	January 12, 2021

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0086
Latitude	41 11' 23"	Longitude	-80º 27' 45"
Quad Name	Sharon East	Quad Code	0902
Wastewater Description:	Petroleum product-contaminated groundwater		
Receiving Waters	Unnamed tributary to Hogback Run	Stream Code	35929
NHD Com ID	133686273	RMI	0.5
Drainage Area	0 (dry); 8.02 (perennial)	Yield (cfs/mi^2)	0 (dry); 0.013 (perennial)
Q_{7-10} Flow (cfs)	0 (dry); 0.104 (perennial)	Q_{7-10} Basis	USGS Streamstats
Elevation (ft)	816	Slope (ft/ft)	
Watershed No.	20-A	Chapter 93 Class.	WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°C)	25	Default (WWF)
Hardness (mg/L)	100	Default
Other:		

Nearest Downstream Public Water Supply Intake	PA American Water Company – New Castle		
PWS Waters	Shenango River	Flow at Intake (cfs)	146
PWS RMI	5.1	Distance from Outfall (mi)	18.0

Changes Since Last Permit Issuance: N/A

Other Comments: The discharge travels approximately 0.54 miles in an intermittent tributary/march to Hogback Run

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.0086
Latitude 41º 11' 23.00" **Longitude** -80º 27' 45.00"
Wastewater Description: Groundwater Cleanup Discharge

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
	15	Average Monthly		95.2(2)(ii)
Oil and Grease	30	IMAX		95.2(2)(ii)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Dissolved Iron	7.0	IMAX		95.2(4)

Water Quality-Based Limitations

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

Parameter	Limit (µg/l)	SBC	Model
Dissolved Iron	2.64 (mg/l)	Average Monthly	Toxic Management Spreadsheet Ver. 1.3
Dissolved Iron	4.12 (mg/l)	Daily Maximum	Toxic Management Spreadsheet Ver. 1.3
Total Mercury	0.44	Average Monthly	Toxic Management Spreadsheet Ver. 1.3
Total Mercury	0.69	Daily Maximum	Toxic Management Spreadsheet Ver. 1.3
Vinyl Chloride	1.56	Average Monthly	Toxic Management Spreadsheet Ver. 1.3
Vinyl Chloride	2.44	Daily Maximum	Toxic Management Spreadsheet Ver. 1.3
Benzo(a)Anthracene	0.078	Average Monthly	Toxic Management Spreadsheet Ver. 1.3
Benzo(a)Anthracene	0.12	Daily Maximum	Toxic Management Spreadsheet Ver. 1.3
Chrysene	9.39	Average Monthly	Toxic Management Spreadsheet Ver. 1.3
Chrysene	14.6	Daily Maximum	Toxic Management Spreadsheet Ver. 1.3
Phenanthrene	8.82	Average Monthly	Toxic Management Spreadsheet Ver. 1.3
Phenanthrene	13.8	Daily Maximum	Toxic Management Spreadsheet Ver. 1.3

Comments: The Toxics Management Spreadsheet also recommended monitoring for total lead. Monitoring will be placed in the permit at a frequency of “1/year” for total lead to further evaluated the need for future WQBELs.

Best Professional Judgment (BPJ) Limitations

Comments: The following effluent limitations will be placed in the permit that are derived from the applicable NPDES PAG-05 General Permit in accordance with the Department’s SOP entitled “Establishing Effluent Limitations for Individual Industrial Permits.”

Parameter	Limit (mg/l)	SBC
Benzene	0.001	Average Monthly
Benzene	0.0025	IMAX
Total BTEX	0.1	Average Monthly
Total BTEX	0.25	IMAX
Total Suspended Solids	30	Average Monthly
Total Suspended Solids	75	IMAX
pH (S.U.)	6.0 – 9.0	Min-Max
Oil & Grease	15	Average Monthly
Oil & Grease	30	IMAX
Dissolved Iron	7.0	IMAX

Other Considerations

Monitoring for toluene, ethyl benzene, cumene, methyl tert-butyl ether (MTBE), naphthalene, 1,2,4-trimethyl-benzene, and 1,3,5-trimethylbenze will be placed in the permit due to being known diesel fuel constituents.

Anti-Backsliding

N/A

Proposed Effluent Limitations and Monitoring Requirements

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

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

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	75.0	1/month	Grab
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/month	Grab
Dissolved Iron	0.19	0.3	XXX	2.64	4.12	6.61	2/month	Grab
Total Lead	XXX	Report	XXX	XXX	Report	XXX	1/year	Grab
Total Mercury (µg/l)	0.00003	0.00005	XXX	0.44	0.69	1.1	2/month	Grab
Ethylbenzene	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Vinyl Chloride (µg/l)	0.0001	0.0002	XXX	1.56	2.44	3.91	2/month	Grab
Benzo(a)Anthracene (µg/l)	0.000006	0.000009	XXX	0.078	0.12	0.2	2/month	Grab
Chrysene (µg/l)	0.0007	0.001	XXX	9.39	14.6	23.5	2/month	Grab
Cumene	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Phenanthrene (µg/l)	0.0006	0.001	XXX	8.82	13.8	22.0	2/month	Grab
1,2,4-Trimethyl-benzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
1,3,5-Trimethyl-benzene	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Outfall 001, 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		
Benzene	XXX	XXX	XXX	0.001	XXX	0.0025	1/month	Grab
Total BTEX	XXX	XXX	XXX	0.1	XXX	0.25	1/month	Grab
Naphthalene	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
Toluene	XXX	XXX	XXX	XXX	Report	XXX	1/month	Grab
MTBE	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001 (prior to mixing with any other waters)

Other Comments:

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Toxics Management Spreadsheet
Version 1.3, March 2021

Discharge Information

Instructions | Discharge | Stream

Facility: **GD Leasing Facility** NPDES Permit No.: **PA0288993** Outfall No.: **001**

Evaluation Type: **Major Sewage / Industrial Waste** Wastewater Description: **Petroleum Product Contaminated GW**

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
0.0086	100	7.1						

					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											
	Chloride (PWS)	mg/L											
	Bromide	mg/L											
	Sulfate (PWS)	mg/L											
	Fluoride (PWS)	mg/L											
Group 2	Total Aluminum	µg/L											
	Total Antimony	µg/L											
	Total Arsenic	µg/L											
	Total Barium	µg/L											
	Total Beryllium	µg/L											
	Total Boron	µg/L											
	Total Cadmium	µg/L											
	Total Chromium (III)	µg/L											
	Hexavalent Chromium	µg/L											
	Total Cobalt	µg/L											
	Total Copper	µg/L											
	Free Cyanide	µg/L											
	Total Cyanide	µg/L											
	Dissolved Iron	µg/L		2150									
	Total Iron	µg/L											
	Total Lead	µg/L	<	5									
	Total Manganese	µg/L											
	Total Mercury	µg/L	<	2									
	Total Nickel	µg/L											
	Total Phenols (Phenolics) (PWS)	µg/L											
	Total Selenium	µg/L											
	Total Silver	µg/L											
	Total Thallium	µg/L											
	Total Zinc	µg/L											
	Total Molybdenum	µg/L											
	Acrolein	µg/L	<										
	Acrylamide	µg/L	<										
	Acrylonitrile	µg/L	<										
	Benzene	µg/L	<	1									
	Bromoform	µg/L	<										

Group 3	Carbon Tetrachloride	µg/L	<										
	Chlorobenzene	µg/L											
	Chlorodibromomethane	µg/L	<										
	Chloroethane	µg/L	<										
	2-Chloroethyl Vinyl Ether	µg/L	<										
	Chloroform	µg/L	<										
	Dichlorobromomethane	µg/L	<										
	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	<	1									
	Methyl Bromide	µg/L	<										
	Methyl Chloride	µg/L	<										
	Methylene Chloride	µg/L	<										
	1,1,2,2-Tetrachloroethane	µg/L	<										
	Tetrachloroethylene	µg/L		5									
	Toluene	µg/L	<	1									
	1,2-trans-Dichloroethylene	µg/L	<										
	1,1,1-Trichloroethane	µg/L	<										
	1,1,2-Trichloroethane	µg/L	<										
	Trichloroethylene	µg/L		5.2									
	Vinyl Chloride	µg/L		1.2									
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	<										
	2,4,6-Trichlorophenol	µg/L	<										
Group 5	Acenaphthene	µg/L	<										
	Acenaphthylene	µg/L	<										
	Anthracene	µg/L	<										
	Benzidine	µg/L	<										
	Benzo(a)Anthracene	µg/L		5									
	Benzo(a)Pyrene	µg/L	<	1									
	3,4-Benzofluoranthene	µg/L	<	1									
	Benzo(ghi)Perylene	µg/L	<	1									
	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	<	7.1									
	Dibenzo(a,h)Anthrancene	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	<	1									
	Isophorone	µg/L	<										
	Naphthalene	µg/L		16									
	Nitrobenzene	µg/L	<										
	n-Nitrosodimethylamine	µg/L	<										
	n-Nitrosodi-n-Propylamine	µg/L	<										
	n-Nitrosodiphenylamine	µg/L	<										
	Phenanthrene	µg/L		38									
	Pyrene	µg/L		5.9									
	1,2,4-Trichlorobenzene	µg/L	<										
Group 6	Aldrin	µg/L	<										
	alpha-BHC	µg/L	<										
	beta-BHC	µg/L	<										
	gamma-BHC	µg/L	<										
	delta BHC	µg/L	<										
	Chlordane	µg/L	<										
	4,4-DDT	µg/L	<										
	4,4-DDE	µg/L	<										
	4,4-DDD	µg/L	<										
	Dieldrin	µg/L	<										
	alpha-Endosulfan	µg/L	<										
	beta-Endosulfan	µg/L	<										
	Endosulfan Sulfate	µg/L	<										
	Endrin	µg/L	<										
	Endrin Aldehyde	µg/L	<										
	Heptachlor	µg/L	<										
	Heptachlor Epoxide	µg/L	<										
	PCB-1016	µg/L	<										
	PCB-1221	µg/L	<										
	PCB-1232	µg/L	<										
	PCB-1242	µg/L	<										
	PCB-1248	µg/L	<										
	PCB-1254	µg/L	<										
	PCB-1260	µg/L	<										
	PCBs, Total	µg/L	<										
	Toxaphene	µg/L	<										
	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											
	Total Xylenes	µg/L	<	3									
	MTBE	µg/L	<	1									

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Toxics Management Spreadsheet
Version 1.3, March 2021

Stream / Surface Water Information

GD Leasing Facility, NPDES Permit No. PA0288993, Outfall 001

Instructions | Discharge | *Stream*

Receiving Surface Water Name: **Hogback Run**

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	035929	17.5	816	8.02			Yes
End of Reach 1	035929	0	791	789		1	Yes

$Q_{7\text{-}10}$

Location	RMI	LFY (cfs/mi^2)*	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness*	pH*	Hardness	pH
Point of Discharge	17.5	0.013	0.104									100	7		
End of Reach 1	0	0.1843	146									100	7		

Q_h

Location	RMI	LFY (cfs/mi^2)	Flow (cfs)		W/D Ratio	Width (ft)	Depth (ft)	Velocity (fps)	Travel Time (days)	Tributary		Stream		Analysis	
			Stream	Tributary						Hardness	pH	Hardness	pH	Hardness	pH
Point of Discharge	17.5														
End of Reach 1	0														

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Model Results

GD Leasing Facility, NPDES Permit No. PA0288993, Outfall 001

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

☑ ***Hydrodynamics***

$Q_{7\text{-}10}$

RMI	Stream Flow (cfs)	PWS Withdrawal (cfs)	Net Stream Flow (cfs)	Discharge Analysis Flow (cfs)	Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Travel Time (days)	Complete Mix Time (min)
17.5	0.10		0.10	0.013	0.00027	0.418	8.94	21.404	0.031	34.039	19.393
0	146.00	1.547	144.453								

Q_h

RMI	Stream Flow (cfs)	PWS Withdrawal (cfs)	Net Stream Flow (cfs)	Discharge Analysis Flow (cfs)	Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Travel Time (days)	Complete Mix Time (min)
17.5	1.03		1.03	0.013	0.00027	1.091	8.94	8.191	0.107	10.023	5.692
0	578.94	1.547	577.39								

☑ ***Wasteload Allocations***

☑ ***AFC*** CCT (min): 15 PMF: 0.879 Analysis Hardness (mg/l): 100 Analysis pH: 7.01

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	64.581	81.6	643	Chem Translator of 0.791 applied
Total Mercury	0	0		0	1.400	1.65	13.0	Chem Translator of 0.85 applied
Benzene	0	0		0	640	640	5,040	
Ethylbenzene	0	0		0	2,900	2,900	22,837	
Tetrachloroethylene	0	0		0	700	700	5,512	
Toluene	0	0		0	1,700	1,700	13,387	
Trichloroethylene	0	0		0	2,300	2,300	18,112	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
Benzo(a)Anthracene	0	0		0	0.5	0.5	3.94	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	

Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Naphthalene	0	0		0	140	140	1,102	
Phenanthrene	0	0		0	5	5.0	39.4	
Pyrene	0	0		0	N/A	N/A	N/A	
Total Xylenes	0	0		0	1,100	1,100	8,662	

☑ ***CFC*** CCT (min): 19.393 PMF: 1 Analysis Hardness (mg/l): 100 Analysis pH: 7.01

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	2.517	3.18	28.1	Chem Translator of 0.791 applied
Total Mercury	0	0		0	0.770	0.91	7.99	Chem Translator of 0.85 applied
Benzene	0	0		0	130	130	1,146	
Ethylbenzene	0	0		0	580	580	5,114	
Tetrachloroethylene	0	0		0	140	140	1,234	
Toluene	0	0		0	330	330	2,910	
Trichloroethylene	0	0		0	450	450	3,968	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
Benzo(a)Anthracene	0	0		0	0.1	0.1	0.88	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	
Chrysene	0	0		0	N/A	N/A	N/A	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Naphthalene	0	0		0	43	43.0	379	
Phenanthrene	0	0		0	1	1.0	8.82	
Pyrene	0	0		0	N/A	N/A	N/A	
Total Xylenes	0	0		0	210	210	1,852	

☑ ***THH*** CCT (min): 19.393 THH PMF: 1 Analysis Hardness (mg/l): N/A Analysis pH: N/A PWS PMF: 1

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Dissolved Iron	0	0		0	300	300	2,645	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	0.050	0.05	0.44	
Benzene	0	0		0	N/A	N/A	N/A	
Ethylbenzene	0	0		0	68	68.0	600	
Tetrachloroethylene	0	0		0	N/A	N/A	N/A	
Toluene	0	0		0	57	57.0	503	
Trichloroethylene	0	0		0	N/A	N/A	N/A	
Vinyl Chloride	0	0		0	N/A	N/A	N/A	
Benzo(a)Anthracene	0	0		0	N/A	N/A	N/A	
Benzo(a)Pyrene	0	0		0	N/A	N/A	N/A	
3,4-Benzofluoranthene	0	0		0	N/A	N/A	N/A	

Chrysene	0	0		0	N/A	N/A	N/A	
Indeno(1,2,3-cd)Pyrene	0	0		0	N/A	N/A	N/A	
Naphthalene	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	176	
Total Xylenes	0	0		0	70,000	70,000	617,196	

☑ ***CRL*** CCT (min): 5.692 PMF: 1 Analysis Hardness (mg/l): N/A Analysis pH: N/A

Pollutants	Stream Conc (µg/L)	Stream CV	Trib Conc (µg/L)	Fate Coef	WQC (µg/L)	WQ Obj (µg/L)	WLA (µg/L)	Comments
Dissolved Iron	0	0		0	N/A	N/A	N/A	
Total Lead	0	0		0	N/A	N/A	N/A	
Total Mercury	0	0		0	N/A	N/A	N/A	
Benzene	0	0		0	0.58	0.58	45.4	
Ethylbenzene	0	0		0	N/A	N/A	N/A	
Tetrachloroethylene	0	0		0	10	10.0	782	
Toluene	0	0		0	N/A	N/A	N/A	
Trichloroethylene	0	0		0	0.6	0.6	46.9	
Vinyl Chloride	0	0		0	0.02	0.02	1.56	
Benzo(a)Anthracene	0	0		0	0.001	0.001	0.078	
Benzo(a)Pyrene	0	0		0	0.0001	0.0001	0.008	
3,4-Benzofluoranthene	0	0		0	0.001	0.001	0.078	
Chrysene	0	0		0	0.12	0.12	9.39	
Indeno(1,2,3-cd)Pyrene	0	0		0	0.001	0.001	0.078	
Naphthalene	0	0		0	N/A	N/A	N/A	
Phenanthrene	0	0		0	N/A	N/A	N/A	
Pyrene	0	0		0	N/A	N/A	N/A	
Total Xylenes	0	0		0	N/A	N/A	N/A	

☑ ***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
Dissolved Iron	0.19	0.3	2,645	4,127	6,613	µg/L	2,645	THH	Discharge Conc ≥ 50% WQBEL (RP)
Total Lead	Report	Report	Report	Report	Report	µg/L	28.1	CFC	Discharge Conc > 10% WQBEL (no RP)
Total Mercury	0.00003	0.00005	0.44	0.69	1.1	µg/L	0.44	THH	Discharge Conc ≥ 50% WQBEL (RP)
Vinyl Chloride	0.0001	0.0002	1.56	2.44	3.91	µg/L	1.56	CRL	Discharge Conc ≥ 50% WQBEL (RP)
Benzo(a)Anthracene	0.000006	0.000009	0.078	0.12	0.2	µg/L	0.078	CRL	Discharge Conc ≥ 50% WQBEL (RP)
Chrysene	0.0007	0.001	9.39	14.6	23.5	µg/L	9.39	CRL	Discharge Conc ≥ 50% WQBEL (RP)
Phenanthrene	0.0006	0.001	8.82	13.8	22.0	µg/L	8.82	CFC	Discharge Conc ≥ 50% WQBEL (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
Benzene	45.4	µg/L	Discharge Conc ≤ 25% WQBEL
Ethylbenzene	600	µg/L	Discharge Conc ≤ 25% WQBEL
Tetrachloroethylene	782	µg/L	Discharge Conc ≤ 25% WQBEL
Toluene	503	µg/L	Discharge Conc ≤ 25% WQBEL
Trichloroethylene	46.9	µg/L	Discharge Conc ≤ 25% WQBEL
Benzo(a)Pyrene	N/A	N/A	Discharge Conc < TQL
3,4-Benzofluoranthene	N/A	N/A	Discharge Conc < TQL
Benzo(ghi)Perylene	N/A	N/A	No WQS
Indeno(1,2,3-cd)Pyrene	0.078	µg/L	Discharge Conc < TQL
Naphthalene	379	µg/L	Discharge Conc ≤ 25% WQBEL
Pyrene	176	µg/L	Discharge Conc ≤ 25% WQBEL
Total Xylenes	1,852	µg/L	Discharge Conc ≤ 25% WQBEL
MTBE	N/A	N/A	No WQS