pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

**Northwest Regional Office**
**CLEAN WATER PROGRAM**

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

| | | | |
|---|---|---|---|
| Application Type | **Amendment, Major** | Application No. | **PA0027341 A-2** |
| Facility Type | **Industrial** | APS ID | **1006802** |
| Major / Minor | **Minor** | Authorization ID | **1297270** |

## Applicant and Facility Information

| | | | |
|---|---|---|---|
| Applicant Name | **Vitro Flat Glass, LLC** | Facility Name | **Vitro Flat Glass** |
| Applicant Address | 5123 Victory Boulevard | Facility Address | 5123 Victory Boulevard |
| | Cochranton, PA 16314-3969 | | Cochranton, PA 16314-3969 |
| Applicant Contact | Paul Snyder | Facility Contact | |
| Applicant Phone | (814) 336-8326 | Facility Phone | |
| Client ID | 330491 | Site ID | 959 |
| SIC Code | 3211 | Municipality | Greenwood Township |
| SIC Description | Manufacturing - Flat Glass | County | Crawford |
| Date Application Received | November 4, 2019 | EPA Waived? | Yes |
| Date Application Accepted | December 3, 2019 | If No, Reason | |

Purpose of Application: Amendment of a NPDES permit to remove monitoring requirements for fifteen (15) toxic parameters

## Summary of Review

When this NPDES Permit was renewed, there were fifteen new toxic pollutants that were subject to water quality based effluent limits, even though they were reported as non-detect on the renewal application, because the analytical tests did not report a low enough detection level for them to be considered absent from the discharge. A Phase 1 Toxic Reduction Evaluation (TRE) was then conducted for these parameters and a report was submitted on April 25, 2019. After reviewing the TRE Phase I Report, the Department determined that those 15 pollutants could be removed from the permit through a permit amendment. A permit amendment application was submitted on November 4, 2019, to remove the monitoring requirements/effluent limits for those pollutants from Outfall 001.

After a review of the last 12 months of monitoring data and consideration of the determination made on the TRE Phase 1 Report, the Department will remove monitoring requirements/effluent limits for 3,3-Dichlorobenzidine, Hexachlorobenzene, Benzo(a)Anthracene, Benzo(a)Pyrene, Benzo(k)Fluor-anthene, 3,4-Benzo-fluoranthene, Bis(2-Chloro-ethyl)Ether, Chrysene, Dibenzo(a,h)-Anthracene, Hexachloro-butadiene, Hexachloro-cyclopentadiene, Indeno(1,2,3-cd)Pyrene, N-Nitroso-dimethylamine, N-Nitrosodi-N-Proylamine and Phenantherene from the permit at Outfall 001 as part of this permit amendment. No other changes to the NPDES Permit will be made as part of this permit amendment.

There are currently no open violations listed in EFACTS for this permittee (5/21/2020).

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 Pesek<br>Adam J. Pesek, E.I.T. / Environmental Engineering Specialist | May 26, 2020 |
| X | | Justin C. Dickey<br>Justin C. Dickey, P.E. / Environmental Engineer Manager | June 8, 2020 |

**Discharge, Receiving Waters and Water Supply Information**

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|---|---|---|---|
| Outfall No. | 001 | Design Flow (MGD) | 0.0141 |
| Latitude | 41º 32' 8" | Longitude | -80º 13' 1.1" |
| Quad Name | Geneva | Quad Code | 02033 |
| Wastewater Description: | Cooling water blowdown, water softener blowdown, and storm water | | |
| Receiving Waters | Unnamed Tributary of Conneaut Outlet | Stream Code | 52232 |
| NHD Com ID | 127349036 | RMI | 1.62 |
| Drainage Area | 0.61 (perennial) | Yield (cfs/mi$^2$) | 0.0749 (perennial) |
| $Q_{7-10}$ Flow (cfs) | 0 (dry); 0.04569 (perennial) | $Q_{7-10}$ Basis | USGS Streamstats |
| Elevation (ft) | 1230 | Slope (ft/ft) | 0.0195 |
| Watershed No. | 16-D | 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 (°F) | | |
| Hardness (mg/L) | 100 | Default |
| Other: | | |

| | | | |
|---|---|---|---|
| Nearest Downstream Public Water Supply Intake | Aqua Pennsylvania, Inc. – Emlenton | | |
| PWS Waters | Allegheny River | Flow at Intake (cfs) | 1,450 |
| PWS RMI | 90.0 | Distance from Outfall (mi) | 65 |

Changes Since Last Permit Issuance:

Other Comments: Stormwater Outfalls 002, 003, and 004 also flow to unnamed tributaries to Conneaut Outlet in the general vicinity of Outfall 001.

## Compliance History

**DMR Data for Outfall 001 (from April 1, 2019 to March 31, 2020)**

| Parameter | MAR-20 | FEB-20 | JAN-20 | DEC-19 | NOV-19 | OCT-19 | SEP-19 | AUG-19 | JUL-19 | JUN-19 | MAY-19 | APR-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Flow (MGD) Average Monthly | 0.3914 | 0.4185 | 0.165 | 0.265 | 0.221 | 0.173 | 0.147 | 0.13 | 0.155 | 0.202 | 0.752 | 0.181 |
| Flow (MGD) Daily Maximum | 1.504 | 0.9918 | 0.231 | 0.397 | 0.397 | 0.243 | 0.155 | 0.155 | 0.155 | 0.343 | 2.43 | 0.343 |
| pH (S.U.) Minimum | 7.4 | 7.5 | 7.1 | 7.9 | 8.01 | 8.2 | 7.3 | 7.61 | 7.4 | 8.0 | 7.8 | 7.8 |
| pH (S.U.) Other Stormwater <br/> Average | | | | 7.93 | | | | | | E | | |
| pH (S.U.) Maximum | 8.1 | 8.1 | 8.8 | 8.4 | 8.5 | 8.3 | 8.3 | 8.4 | 9.0 | 8.5 | 8.25 | 8.6 |
| Temperature (ºF) Daily Average | 51 | 52.6 | 51.1 | 55 | 55 | 61 | 67.3 | 70 | 71 | 69 | 67 | 58 |
| TSS (mg/L) Other Stormwater <br/> Average | | | | 7 | | | | | | E | | |
| Total Aluminum (mg/L) Other Stormwater <br/> Average | | | | E | | | | | | E | | |
| Total Iron (mg/L) Other Stormwater <br/> Average | | | | E | | | | | | E | | |
| Total Selenium (lbs/day) Average Monthly | 0.0060 | 0.03 | 0.007 | 0.03 | 0.07 | 0.007 | 0.04 | 0.008 | 0.006 | 0.02 | 0.008 | 0.01 |
| Total Selenium (lbs/day) Daily Maximum | 0.0070 | 0.06 | 0.007 | 0.02 | 0.1 | 0.01 | 0.06 | 0.004 | 0.009 | 0.03 | 0.009 | 0.02 |
| Total Selenium (mg/L) Average Monthly | 0.0053 | 0.0063 | 0.0054 | 0.014 | 0.0237 | 0.0058 | 0.03 | 0.0061 | 0.005 | 0.012 | 0.0068 | 0.0119 |
| Total Selenium (mg/L) Other Stormwater <br/> Average | | | | E | | | | | | E | | |
| Total Selenium (mg/L) Daily Maximum | 0.0056 | 0.0073 | 0.0054 | 0.017 | 0.041 | 0.0089 | 0.045 | 0.0088 | 0.0067 | 0.013 | 0.0075 | 0.014 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3,3-Dichloro-benzidine (lbs/day) Average Monthly | < 0.000110 | < 0.01 | < 0.007 | < 0.002 | < 0.03 | < 0.01 | < 0.01 | < 0.01 | < 0.001 | < 0.002 | < 0.004 | < 0.0006 |
| 3,3-Dichloro-benzidine (lbs/day) Daily Maximum | < 0.000100 | < 0.02 | < 0.01 | < 0.002 | < 0.04 | < 0.01 | < 0.01 | < 0.01 | < 0.001 | < 0.003 | < 0.004 | < 0.0008 |
| 3,3-Dichloro-benzidine (mg/L) Average Monthly | < 0.00100 | < 0.0031 | < 0.0055 | < 0.001 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.001 | < 0.001 | < 0.003 | < 0.00049 |
| 3,3-Dichloro-benzidine (mg/L) Daily Maximum | < 0.00110 | < 0.0031 | < 0.0099 | < 0.001 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.001 | < 0.001 | < 0.003 | < 0.00049 |
| Hexachloro-benzene (lbs/day) Average Monthly | < 0.0005000 | < 0.001 | < 0.005 | < 0.008 | < 0.01 | < 0.005 | < 0.005 | < 0.006 | < 0.0005 | < 0.006 | < 0.004 | < 0.0003 |
| Hexachloro-benzene (lbs/day) Daily Maximum | < 0.0005000 | < 0.002 | < 0.006 | < 0.008 | < 0.01 | < 0.005 | < 0.006 | < 0.006 | < 0.0005 | < 0.001 | < 0.004 | < 0.0004 |
| Hexachloro-benzene (mg/L) Average Monthly | < 0.0004500 | < 0.0031 | < 0.0042 | < 0.0041 | < 0.0042 | < 0.0042 | < 0.0043 | < 0.0043 | < 0.00042 | < 0.00231 | < 0.003 | < 0.00023 |
| Hexachloro-benzene (mg/L) Daily Maximum | < 0.0004600 | < 0.0031 | < 0.0043 | < 0.0041 | < 0.0042 | < 0.0042 | < 0.0043 | < 0.0043 | < 0.00042 | < 0.0042 | < 0.003 | < 0.00023 |
| Benzo(a)-Anthracene (lbs/day) Average Monthly | < 0.002000 | < 0.007 | < 0.005 | < 0.008 | < 0.0096 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.0008 | < 0.002 | < 0.0002 |
| Benzo(a)-Anthracene (lbs/day) Daily Maximum | < 0.004000 | < 0.01 | < 0.005 | < 0.008 | < 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.001 | < 0.002 | < 0.0003 |
| Benzo(a)-Anthracene (mg/L) Average Monthly | < 0.0023700 | < 0.0016 | < 0.004 | < 0.0039 | < 0.004 | < 0.004 | < 0.0041 | < 0.0041 | < 0.0004 | < 0.0004 | < 0.0015 | < 0.00017 |
| Benzo(a)-Anthracene (mg/L) Daily Maximum | < 0.0043000 | < 0.0016 | < 0.0041 | < 0.0039 | < 0.004 | < 0.004 | < 0.0041 | < 0.0041 | < 0.0004 | < 0.0004 | < 0.0015 | < 0.00017 |
| Benzo(a)Pyrene (lbs/day) Average Monthly | < 0.000400 | < 0.007 | < 0.005 | < 0.007 | < 0.008 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.0007 | < 0.002 | < 0.0003 |
| Benzo(a)Pyrene (lbs/day) Daily Maximum | < 0.000400 | < 0.01 | < 0.005 | < 0.007 | < 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.001 | < 0.002 | < 0.0003 |
| Benzo(a)Pyrene (mg/L) Average Monthly | < 0.00037 | < 0.0016 | < 0.0035 | < 0.0034 | < 0.0035 | < 0.0035 | < 0.0036 | < 0.0036 | < 0.00035 | < 0.00035 | < 0.0015 | < 0.00022 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzo(a)Pyrene (mg/L) Daily Maximum | < 0.00041 | < 0.0016 | < 0.0036 | < 0.0034 | < 0.0035 | < 0.0035 | < 0.0036 | < 0.0036 | < 0.00035 | < 0.00035 | < 0.0015 | < 0.00022 |
| Benzo(k)Fluor-anthene (lbs/day) Average Monthly | < 0.000400 | < 0.007 | < 0.005 | < 0.007 | < 0.009 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.0008 | < 0.002 | < 0.0002 |
| Benzo(k)Fluor-anthene (lbs/day) Daily Maximum | < 0.0005000 | < 0.01 | < 0.005 | < 0.007 | < 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.001 | < 0.002 | < 0.0003 |
| Benzo(k)Fluor-anthene (mg/L) Average Monthly | < 0.0004100 | < 0.0016 | < 0.0038 | < 0.0037 | < 0.0038 | < 0.0038 | < 0.0039 | < 0.0039 | < 0.00038 | < 0.00038 | < 0.0015 | < 0.00019 |
| Benzo(k)Fluor-anthene (mg/L) Daily Maximum | < 0.0003800 | < 0.0016 | < 0.0039 | < 0.0037 | < 0.0038 | < 0.0038 | < 0.0039 | < 0.0039 | < 0.00038 | < 0.00038 | < 0.0015 | < 0.00019 |
| 3,4-Benzo-fluoranthene (lbs/day) Average Monthly | < 0.000400 | < 0.007 | < 0.005 | < 0.006 | < 0.009 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.0008 | < 0.002 | < 0.0002 |
| 3,4-Benzo-fluoranthene (lbs/day) Daily Maximum | < 0.000400 | < 0.01 | < 0.005 | < 0.006 | < 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.001 | < 0.002 | < 0.0002 |
| 3,4-Benzo-fluoranthene (mg/L) Average Monthly | < 0.00041 | < 0.0016 | < 0.0039 | < 0.0038 | < 0.0039 | < 0.0039 | < 0.004 | < 0.004 | < 0.00039 | < 0.00039 | < 0.0015 | < 0.00013 |
| 3,4-Benzo-fluoranthene (mg/L) Daily Maximum | < 0.00041 | < 0.0016 | < 0.004 | < 0.0038 | < 0.0039 | < 0.0039 | < 0.004 | < 0.004 | < 0.00039 | < 0.00039 | < 0.0015 | < 0.00013 |
| Bis(2-Chloro-ethyl)Ether (lbs/day) Average Monthly | < 0.000400 | < 0.01 | < 0.005 | < 0.007 | < 0.009 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.0008 | < 0.004 | < 0.0002 |
| Bis(2-Chloro-ethyl)Ether (lbs/day) Daily Maximum | < 0.000400 | < 0.02 | < 0.005 | < 0.007 | < 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.001 | < 0.004 | < 0.0003 |
| Bis(2-Chloro-ethyl)Ether (mg/L) Average Monthly | < 0.0003800 | < 0.0031 | < 0.0037 | < 0.0036 | < 0.0037 | < 0.0037 | < 0.0038 | < 0.0038 | < 0.00037 | < 0.00037 | < 0.003 | < 0.00019 |
| Bis(2-Chloro-ethyl)Ether (mg/L) Daily Maximum | < 0.000400 | < 0.0031 | < 0.0038 | < 0.0036 | < 0.0037 | < 0.0037 | < 0.0038 | < 0.0038 | < 0.00037 | < 0.00037 | < 0.003 | < 0.00019 |
| Chrysene (lbs/day) Average Monthly | < 0.000500 | < 0.007 | < 0.005 | < 0.006 | < 0.009 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.0009 | < 0.002 | < 0.0002 |
| Chrysene (lbs/day) Daily Maximum | < 0.000500 | < 0.01 | < 0.005 | < 0.006 | < 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.0005 | < 0.001 | < 0.002 | < 0.0002 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chrysene (mg/L) Average Monthly | < 0.00044 | < 0.0016 | < 0.0041 | < 0.004 | < 0.0041 | < 0.0041 | < 0.0042 | < 0.0042 | < 0.00041 | < 0.00041 | < 0.0015 | < 0.00015 |
| Chrysene (mg/L) Daily Maximum | < 0.00046 | < 0.0016 | < 0.0042 | < 0.004 | < 0.0041 | < 0.0041 | < 0.0042 | < 0.0042 | < 0.00041 | < 0.00041 | < 0.0015 | < 0.00015 |
| Dibenzo(a,h)-Anthracene (lbs/day) Average Monthly | < 0.000500 | < 0.007 | < 0.005 | < 0.008 | < 0.01 | < 0.005 | < 0.005 | < 0.006 | < 0.0005 | < 0.0009 | < 0.002 | < 0.0003 |
| Dibenzo(a,h)-Anthracene (lbs/day) Daily Maximum | < 0.000500 | < 0.01 | < 0.006 | < 0.008 | < 0.01 | < 0.005 | < 0.005 | < 0.006 | < 0.0005 | < 0.001 | < 0.002 | < 0.0003 |
| Dibenzo(a,h)-Anthracene (mg/L) Average Monthly | < 0.00045 | < 0.0016 | < 0.0042 | < 0.0041 | < 0.0042 | < 0.0042 | < 0.0043 | < 0.0043 | < 0.00042 | < 0.00042 | < 0.0015 | < 0.00021 |
| Dibenzo(a,h)-Anthracene (mg/L) Daily Maximum | < 0.00046 | < 0.0016 | < 0.0043 | < 0.0041 | < 0.0042 | < 0.0042 | < 0.0043 | < 0.0043 | < 0.00042 | < 0.00042 | < 0.0015 | < 0.00021 |
| Hexachloro-butadiene (lbs/day) Average Monthly | < 0.000500 | < 0.01 | < 0.006 | < 0.001 | < 0.01 | < 0.006 | < 0.006 | < 0.006 | < 0.0006 | < 0.001 | < 0.004 | < 0.0002 |
| Hexachloro-butadiene (lbs/day) Daily Maximum | < 0.000600 | < 0.02 | < 0.006 | < 0.001 | < 0.02 | < 0.006 | < 0.006 | < 0.006 | < 0.0006 | < 0.001 | < 0.004 | < 0.0003 |
| Hexachloro-butadiene (mg/L) Average Monthly | < 0.00051 | < 0.0031 | < 0.0048 | < 0.0047 | < 0.0048 | < 0.0048 | < 0.0049 | < 0.0049 | < 0.00048 | < 0.00048 | < 0.003 | < 0.00019 |
| Hexachloro-butadiene (mg/L) Daily Maximum | < 0.00052 | < 0.0031 | < 0.0049 | < 0.0047 | < 0.0048 | < 0.0048 | < 0.0049 | < 0.0049 | < 0.00048 | < 0.00048 | < 0.003 | < 0.00019 |
| Hexachloro-cyclopentadiene (lbs/day) Average Monthly | < 0.005000 | < 0.01 | < 0.009 | < 0.001 | < 0.02 | < 0.009 | < 0.009 | < 0.001 | < 0.0009 | < 0.001 | < 0.004 | < 0.0002 |
| Hexachloro-cyclopentadiene (lbs/day) Daily Maximum | < 0.00900 | < 0.02 | < 0.009 | < 0.001 | < 0.02 | < 0.009 | < 0.01 | < 0.001 | < 0.0009 | < 0.002 | < 0.004 | < 0.0003 |
| Hexachloro-cyclopentadiene (mg/L) Average Monthly | < 0.00404 | < 0.0031 | < 0.0071 | < 0.007 | < 0.0071 | < 0.0071 | < 0.0074 | < 0.0074 | < 0.00072 | < 0.00072 | < 0.003 | < 0.00017 |
| Hexachloro-cyclopentadiene (mg/L) Daily Maximum | < 0.007300 | < 0.0031 | < 0.0073 | < 0.007 | < 0.0071 | < 0.0071 | < 0.0073 | < 0.0074 | < 0.00072 | < 0.00072 | < 0.003 | < 0.00017 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Indeno(1,2,3-cd)Pyrene (lbs/day) Average Monthly | < 0.002000 | < 0.007 | < 0.005 | < 0.006 | < 0.009 | < 0.005 | < 0.005 | < 0.006 | < 0.0005 | < 0.0006 | < 0.002 | < 0.0002 |
| Indeno(1,2,3-cd)Pyrene (lbs/day) Daily Maximum | < 0.003000 | < 0.01 | < 0.005 | < 0.006 | < 0.01 | < 0.005 | < 0.005 | < 0.006 | < 0.0005 | < 0.0008 | < 0.002 | < 0.0002 |
| Indeno(1,2,3-cd)Pyrene (mg/L) Average Monthly | < 0.00041 | < 0.0016 | < 0.0039 | < 0.0038 | < 0.0039 | < 0.0039 | < 0.004 | < 0.004 | < 0.00039 | < 0.00039 | < 0.0015 | < 0.00012 |
| Indeno(1,2,3-cd)Pyrene (mg/L) Daily Maximum | < 0.00042 | < 0.0016 | < 0.004 | < 0.0038 | < 0.0039 | < 0.0039 | < 0.004 | < 0.004 | < 0.00039 | < 0.00039 | < 0.0015 | < 0.00012 |
| N-Nitroso-dimethylamine (lbs/day) Average Monthly | < 0.006000 | < 0.01 | < 0.01 | < 0.007 | < 0.03 | < 0.001 | < 0.001 | < 0.002 | < 0.0006 | < 0.0008 | < 0.004 | < 0.0008 |
| N-Nitroso-dimethylamine (lbs/day) Daily Maximum | < 0.010000 | < 0.02 | < 0.01 | < 0.008 | < 0.04 | < 0.001 | < 0.001 | < 0.002 | < 0.0006 | < 0.001 | < 0.004 | < 0.0001 |
| N-Nitroso-dimethylamine (mg/L) Average Monthly | < 0.001100 | < 0.0031 | < 0.011 | < 0.004 | < 0.011 | < 0.0011 | < 0.011 | < 0.0011 | < 0.00048 | < 0.00048 | < 0.003 | < 0.00065 |
| N-Nitroso-dimethylamine (mg/L) Daily Maximum | < 0.001200 | < 0.0031 | < 0.011 | < 0.004 | < 0.011 | < 0.0011 | < 0.011 | < 0.0011 | < 0.00048 | < 0.00048 | < 0.003 | < 0.00065 |
| N-Nitrosodi-N-Propylamine (lbs/day) Average Monthly | < 0.020000 | < 0.02 | < 0.005 | < 0.002 | < 0.009 | < 0.005 | < 0.005 | 0.007 | < 0.0005 | < 0.0007 | < 0.004 | < 0.0003 |
| N-Nitrosodi-N-Propylamine (lbs/day) Daily Maximum | < 0.040000 | < 0.01 | < 0.005 | < 0.002 | < 0.01 | < 0.005 | < 0.005 | 0.007 | < 0.0005 | < 0.0008 | < 0.004 | < 0.0004 |
| N-Nitrosodi-N-Propylamine (mg/L) Average Monthly | < 0.002460 | < 0.0031 | < 0.0041 | < 0.001 | < 0.0041 | < 0.0041 | < 0.0042 | 0.0047 | < 0.00041 | < 0.00041 | < 0.003 | < 0.00024 |
| N-Nitrosodi-N-Propylamine (mg/L) Daily Maximum | < 0.004500 | < 0.0031 | < 0.0042 | < 0.001 | < 0.0041 | < 0.0041 | < 0.0042 | 0.0047 | < 0.00041 | < 0.00041 | < 0.003 | < 0.00024 |
| Phenanthrene (lbs/day) Average Monthly | < 0.002000 | < 0.007 | < 0.005 | < 0.007 | < 0.009 | < 0.005 | < 0.005 | < 0.006 | < 0.0005 | < 0.0008 | < 0.002 | < 0.0002 |
| Phenanthrene (lbs/day) Daily Maximum | < 0.003000 | < 0.01 | < 0.005 | < 0.006 | < 0.01 | < 0.005 | < 0.005 | < 0.006 | < 0.0005 | < 0.0008 | < 0.002 | < 0.0002 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene (mg/L) Average Monthly | < 0.000400 | < 0.0016 | < 0.0038 | < 0.0037 | < 0.0038 | < 0.0038 | < 0.0039 | < 0.0039 | < 0.00038 | < 0.00038 | < 0.0015 | < 0.00013 |
| Phenanthrene (mg/L) Daily Maximum | < 0.000410 | < 0.0016 | < 0.0039 | < 0.0037 | < 0.0038 | < 0.0038 | < 0.0039 | < 0.0039 | < 0.00038 | < 0.00038 | < 0.0015 | < 0.00013 |

**DMR Data for Outfall 002 (from April 1, 2019 to March 31, 2020)**

| Parameter | MAR-20 | FEB-20 | JAN-20 | DEC-19 | NOV-19 | OCT-19 | SEP-19 | AUG-19 | JUL-19 | JUN-19 | MAY-19 | APR-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| pH (S.U.) Average | | | | 7.74 | | | | | | E | | |
| TSS (mg/L) Average | | | | 104 | | | | | | E | | |
| Total Aluminum (mg/L) Average | | | | E | | | | | | E | | |
| Total Iron (mg/L) Average | | | | E | | | | | | E | | |
| Total Selenium (mg/L) Average | | | | E | | | | | | E | | |

**DMR Data for Outfall 003 (from April 1, 2019 to March 31, 2020)**

| Parameter | MAR-20 | FEB-20 | JAN-20 | DEC-19 | NOV-19 | OCT-19 | SEP-19 | AUG-19 | JUL-19 | JUN-19 | MAY-19 | APR-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| pH (S.U.) Average | | | | 7.27 | | | | | | E | | |
| TSS (mg/L) Average | | | | 40 | | | | | | E | | |
| Total Aluminum (mg/L) Average | | | | E | | | | | | E | | |
| Total Iron (mg/L) Average | | | | E | | | | | | E | | |
| Total Selenium (mg/L) Average | | | | E | | | | | | E | | |

**DMR Data for Outfall 004 (from April 1, 2019 to March 31, 2020)**

| Parameter | MAR-20 | FEB-20 | JAN-20 | DEC-19 | NOV-19 | OCT-19 | SEP-19 | AUG-19 | JUL-19 | JUN-19 | MAY-19 | APR-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| pH (S.U.) Average | | | | 8.2 | | | | | | E | | |
| TSS (mg/L) Average | | | | 132 | | | | | | E | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total Aluminum (mg/L) Average | | | | E | | | | | | E | | |
| Total Iron (mg/L) Average | | | | E | | | | | | E | | |
| Total Selenium (mg/L) Average | | | | E | | | | | | E | | |

## Proposed Effluent Limitations and Monitoring Requirements

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

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

| Parameter | Effluent Limitations | | | | | | Monitoring Requirements | |
|---|---|---|---|---|---|---|---|---|
| | Mass Units (lbs/day) (1) | | Concentrations (mg/L) | | | | Minimum (2) Measurement Frequency | Required Sample Type |
| | Average Monthly | Average Weekly | Minimum | Average | Maximum | Instant. Maximum | | |
| Flow (MGD) | Report | Report Daily Max | XXX | XXX | XXX | XXX | 2/month | Measured |
| pH (S.U.) | XXX | XXX | 6.0 | XXX | 9.0 | XXX | 2/month | Grab |
| pH (S.U.) Other Stormwater | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Temperature (ºF) | XXX | XXX | XXX | Report Daily Avg | XXX | XXX | 2/month | I-S |
| TSS Other Stormwater | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Aluminum Other Stormwater | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Iron Other Stormwater | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Selenium Other Stormwater | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |

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

Other Comments: Parameters listed with "Other Stormwater" should be sampled during a qualifying rain event.

## 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: Start of Final Period 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 Selenium | 0.0017 | 0.0035 | XXX | 0.015 | 0.030 | 0.037 | 2/month | Grab |

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

Other Comments:

## 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 002, 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 | Maximum | Instant. Maximum | | |
| pH (S.U.) | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Aluminum | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Iron | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Selenium | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |

Compliance Sampling Location: Outfall 002 (prior to mixing with any other waters)

Other Comments:

## Proposed Effluent Limitations and Monitoring Requirements

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

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

| Parameter | Effluent Limitations | | | | | | Monitoring Requirements | |
|---|---|---|---|---|---|---|---|---|
| | Mass Units (lbs/day) (1) | | Concentrations (mg/L) | | | | Minimum (2) Measurement Frequency | Required Sample Type |
| | Average Monthly | Average Weekly | Minimum | Average | Maximum | Instant. Maximum | | |
| pH (S.U.) | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Aluminum | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Iron | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Selenium | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |

Compliance Sampling Location: Outfall 003 (prior to mixing with any other waters)

Other Comments:

## 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 004, 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 | Maximum | Instant. Maximum | | |
| pH (S.U.) | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| TSS | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Aluminum | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Iron | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |
| Total Selenium | XXX | XXX | XXX | Report | XXX | XXX | 1/6 months | Grab |

Compliance Sampling Location: Outfall 004 (prior to mixing with any other waters)

Other Comments: