

VIRGINIA POLLUTION ABATEMENT APPLICATION

FORM D

MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-III EFFLUENT CHARACTERIZATION FORM

1. Facility Name (as shown on Part D-I): _____
2. For each parameter listed in the table below, provide at least one effluent analysis in the Effluent Concentration column of the table. For all analyses, attach documentation from a laboratory certified by the Virginia Environmental Laboratory Accreditation Program that includes the analysis result, analytical method used, and method detection level. More than one sample and analysis may be required if the effluent is expected to exhibit diurnal or seasonal variations. Upon review, additional analyses for the same parameters or additional parameters may be required by DEQ. Attach additional parameters, analyses, and footnotes as needed

Analyses previously submitted to DEQ for parameters listed below may be referenced in lieu of providing new analyses for the same parameters. Previously submitted analyses will most often include those reported as a requirement of an existing permitted facility. For each previously submitted analysis in the table, add a footnote below the table specifying the date and title of the report containing the analyses (e.g., March 10, 2021; Monthly Effluent Monitoring Report).

All analyses, including new or referenced analyses, must be performed within the 12 most recent months prior to the submittal date of this application.

For a proposed facility, estimated parameter concentrations based on data obtained from municipal wastewater treatment facilities having similar unit treatment processes, treating wastewater of similar character, and located within Virginia, may be used. For each estimated parameter concentration in the table, add a footnote below the table citing the source(s) of the estimated effluent concentration data.

Parameter	Effluent Concentration	Units of Concentration
BOD ₅		mg/l
Total Suspended Solids (TSS)		mg/l
Total Residual Chlorine (TRC)		mg/l
Percent Solids		%
pH		Standard Units
Nitrate-Nitrogen		mg/l
Nitrite-Nitrogen		mg/l
Ammonia-Nitrogen		mg/l
Total Kjeldahl-Nitrogen		mg/l
Total Phosphorus		mg/l
Total Potassium		mg/l
Sodium		mg/l

Parameter	Effluent Concentration	Units of Concentration
Total Dissolved Solids (TDS)		mg/l
Total Organic Carbon (TOC)		mg/l
Chlorides		mg/l
Fecal coliform		Colonies/100ml
Fluoride		mg/l
Iron		mg/l
Manganese		mg/l
Sulfate		mg/l
Lead		mg/l
Cadmium		mg/l
Copper		mg/l
Nickel		mg/l
Zinc		mg/l
Arsenic		mg/l
Chromium		mg/l
Mercury		mg/l
Molybdenum		mg/l
Selenium		mg/l

Footnotes (add as applicable):

- For each industrial contributor identified on VPA Application Form D, Part D-I that discharges process wastewater or a combination of sewage and process wastewater to the facility named in item 1 of this form, list pollutants that are likely present in the industrial contributor's wastewater in the Parameter column of the table below. Do not list parameters already listed in item 2 of this form. For each parameter listed in the table, provide at least one effluent analysis and associated concentration units in the Effluent Concentration and Units of Concentration columns, respectively. For all analyses, attach documentation from a laboratory certified by the Virginia Environmental Laboratory Accreditation Program that includes the analysis result, analytical method used, and method detection level. More than one sample and analysis may be required if the effluent is expected to exhibit diurnal or seasonal variations. Upon review, additional analyses for listed parameters or additional parameters may be required by DEQ. Attach additional parameters, analyses, and footnotes as needed.

