

## TEMPORARY SANITARY SEWER DISCHARGE APPLICATION

The Temporary Sanitary Sewer Discharge Application and authorization process applies to all commercial and industrial users (IUs) located in the Loudoun Water service area that:

- (1) have an existing connection and have a need to discharge industrial wastewater for a finite, short-duration to Loudoun Water (examples listed below).  
or
- (2) are not connected to the sanitary sewer system and need to discharge wastewater for a finite, short-duration to Loudoun Water (i.e. hauled wastewater exceptions).

Loudoun Water's application and authorization process requires industrial wastewater containment, sampling, and verification of compatibility with Local Limits.

Authorizations issued by Loudoun Water may include such conditions as are deemed reasonably necessary to prevent Pass Through or Interference, protect the quality of the water body receiving the wastewater treatment plant's effluent, protect worker health and safety, facilitate sludge management and disposal, and protect against damage to the Publicly Owned Treatment Works (POTW).

### What does it mean?

Loudoun Water may allow Industrial User's (both commercial and industrial establishments) to discharge temporary wastewater discharges to the sanitary sewer on a case-by-case basis. Discharges from startup, expansion, maintenance, or process upsets will require authorization from Loudoun Water. Some specific activities include but are not limited to:

- Chemical cleaning
- System flushing
- Cooling tower flushing
- Pipe and tank passivation discharges
- Containment or storm waters with chemical contamination

Portions of the Loudoun Water sanitary sewer system ultimately convey to the Loudoun Water Broad Run Water Reclamation Facility and portions convey to the DC Water Blue Plains Advanced Wastewater Treatment Facility the most stringent local limit discharge standards apply to authorized temporary dischargers. The Temporary Sanitary Sewer Discharge Local Limits can be found in Section I.

**Loudoun Water requires all IUs to capture and contain all wastewater onsite in a storage vessel or tank until laboratory results have been received verifying the wastewater is within the Local Limits.** Loudoun Water will collect a representative sample and analyze for contaminants with published Local Limits as well as all POTW's conventional contaminants, priority pollutants, or any pollutants specific to the industry or project that Loudoun Water may deem necessary. Loudoun Water also encourages the applicant to perform split sampling to analyze for the same contaminants and pollutants through an approved and accredited third-party laboratory.

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### **How long does the authorization process take?**

A total of 10 working days from the receipt of a fully completed application form should be expected prior to receiving a discharge determination. After initial review of the application Loudoun Water will request a conference call to discuss the details of the review process. The following key scheduling requirements should be taken into consideration:

- A minimum of 5 working days prior to requested discharge Loudoun Water requires the IU submit a request for compliance sampling.
- Sample collection is currently available on Monday, Wednesday, and Fridays.
- Loudoun Water will confirm the date is available for sampling and analysis and confirm the time of sample collection.
- Analytical results will be available 3 working days after sample collection.
- Once the data has been reviewed for compliance with the local limits, Loudoun Water will approve or disapprove the wastewater for discharge to the sanitary sewer.
- Loudoun Water must be onsite at the time of discharge initiation to confirm final pH and temperature of wastewater entering the sewer.

Loudoun Water retains the right to schedule temporary discharges around the needs of the POTW.

### **What do I Receive?**

If the user is issued a Temporary Sanitary Sewer Discharge Authorization, a formal response will be issued via email and valid for the specified time noted in the approval letter. A Temporary Sanitary Sewer Discharge Authorization may be extended by written approval from Loudoun Water.

### **Additional Regulatory Information Links**

[Loudoun County Codified Ordinance Chapter 1068 Pretreatment](#)

[National Pretreatment Program](#)

[General Pretreatment Regulations 40CFR Part 403](#)

[Introduction to the National Pretreatment Program](#)

## TEMPORARY SANITARY SEWER DISCHARGE APPLICATION

<b>A. Primary Contact Information</b>			
Company Name			
Mailing Address			
Contact Name		Title	
Telephone No.		Email	
<b>B. Project Information</b>			
Project Name			
Project Address			
Property Owner			
Owner Contact Name		Phone No.	
Loudoun Water Project Number <small><i>Can be found on the front cover of the facility site drawings approved by Loudoun Water Land Development</i></small>			
<b>C. Additional Contacts</b>			
Water Quality or Environmental Consultant			
Contact Name		Phone No.	
<b>D. Sanitary Sewer Discharge Description</b>			

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E. Type of Wastewater			
<input type="checkbox"/> Chemical Clean/Passivation	<input type="checkbox"/> Flushing Water	<input type="checkbox"/> Hydro-Static Water	<input type="checkbox"/> Other ( <i>specify</i> ): _____
Volume of Tank and/or Piping System (gallons)			
Total Volume of Wastewater to be Discharged (gallons)			
Maximum Rate of Discharge (gallons per minute)			
Average Rate of Discharge (gallons per day)			
Duration of Discharge (hours or days)			
Requested Start of Discharge Date			
F. Required Attachments			Check to Confirm Attachment
<b>Site Location Map</b> – attach a map showing the proposed site, the discharge location, the location of on-site treatment systems, frac/storage tank locations, and identifying the sample collection location.			
<b>Flushing Plans/Documents</b> - attach pertinent plans and reports describing all activities involved in generating and discharging the wastewater.			
<b>Chemical Documents</b> – <i>Provide the composition and quantity of all chemicals</i> that will be included in the wastewater to be discharged. Safety Data Sheets for all chemicals shall be included. Any proprietary chemicals shall note if it contains any substances in the Local Limits in Section I.			
<b>Spill Control Plan</b> – Provide a spill control plan to prevent any chemicals used during the flushing process from entering the sanitary sewer uncontrolled.			

## TEMPORARY SANITARY SEWER DISCHARGE APPLICATION

<b>G. Certification of Applicant by Signing Official – must meet requirements 40 CFR 403.6(a)(2)(ii)</b>	
<p><i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of having to pay a fine and imprisonment for knowing violations.</i></p>	
<hr style="border: 0; border-top: 1px solid black;"/> <p style="text-align: center;">Name and Company of Signing Official (print)</p>	<hr style="border: 0; border-top: 1px solid black;"/> <p style="text-align: center;">Title (print)</p>
<hr style="border: 0; border-top: 1px solid black;"/> <p style="text-align: center;">Signature of Signing Official</p>	<hr style="border: 0; border-top: 1px solid black;"/> <p style="text-align: center;">Date</p>

<b>H. Delegation of Signing Authority - Optional</b>	
<p><i>I hereby authorize the following individual to sign and certify report submittals required by the authorization.</i></p>	
<hr style="border: 0; border-top: 1px solid black;"/> <p style="text-align: center;">Name and Company of Delegated Signing Official (print)</p>	<hr style="border: 0; border-top: 1px solid black;"/> <p style="text-align: center;">Title (print)</p>
<hr style="border: 0; border-top: 1px solid black;"/> <p style="text-align: center;">Signature of Signing Official (from Section F above)</p>	<hr style="border: 0; border-top: 1px solid black;"/> <p style="text-align: center;">Date</p>

## TEMPORARY SANITARY SEWER DISCHARGE APPLICATION

### I. Additional Conditions

1. The authorization, if approved, is valid for the discharge to *the sanitary sewer* only from the locations and source identified and specified above and the time specified within the authorization.
2. All discharges shall comply with the Loudoun County Codified Ordinance Chapter 1068 Pretreatment and Local Limits for the BRWRF and DC Water POTW.
3. If it is determined that the waste characterization is not suitable for treatment or acceptance at the BRWRF, Loudoun Water will attempt to assist the user by working collaboratively to find an alternative method of disposal.
4. Additional sampling may be required to analyze other pollutants that Loudoun Water deem necessary to determine acceptance that is not listed as a POC or Priority Pollutant. The applicant is required to perform all required sampling and testing at the applicant's own expense
5. Loudoun Water has the right to rescind and terminate any Temporary Sanitary Sewer Discharge Authorization immediately if the wastewater poses an imminent threat or danger to Loudoun Water personnel or to the treatment plant processes.
6. The user must report all spills, emergencies or unusual circumstances that may lead to a potential for interference or pass-through of the treatment facility process.
7. All wastewater sampling analysis shall be performed using [EPA Approved Methods](#) by a Loudoun Water approved laboratory.
8. All correspondence shall be emailed to [pretreatment@loudounwater.org](mailto:pretreatment@loudounwater.org).
9. Waste Hauler:
  - If hauling is required, it is the responsibility of the contractor/owner to secure a permitted trucking company to haul the wastewater to the approved disposal site. Any waste hauler must be permitted and approved by the Loudoun County Health Department and Loudoun Water. The trucking company must obtain a Loudoun Water Septage Hauler Discharge Permit
  - Loudoun Water may conduct sampling of the product at the point of collection/storage and grab samples form trucks/tanker at the site of disposal/discharge as deemed necessary
  - Hauled industrial wastewater will be subject to the septic hauled waste fees found in Loudoun Water's Rates, Rules, and Regulations.
  - For the duration of the authorization, the contracted hauler shall allocate the tanker solely to this project to mitigate any residual material that would compromise the discharge characteristics of the discharge water hauled for this project.
  - The contract hauler, truck/tanker must be equipped with a four-inch quick disconnect coupling to offload the waste-water residuals at the BRWRF specified location.

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### J. Loudoun Water Broad Run Water Reclamation Facility – Local Limits

<u>Parameters</u>	<u>Local Limits</u>
Arsenic	0.23 mg/L
Cadmium	0.07 mg/L
Chromium	2.7 mg/L
Copper	2.3 mg/L
Cyanide	0.06 mg/L
Lead	<1 mg/L
Mercury	0.001 mg/L
Molybdenum	0.7 mg/L
Nickel	1.5 mg/L
Selenium	0.24 mg/L
Silver	1.3 mg/L
Zinc	3.4 mg/L
PCBs	Non-detect
Oil & Grease (petroleum)	100 mg/L (non-polar)
Fats, Oils & Grease (FOG)	50 mg/L FOG Solidifying @ <150deg C
Fats, Oils & Grease (FOG)	50 mg/L Hydrocarbon FOG
Fats, Oils & Grease (FOG)	100 mg/L total FOG
pH	5.0 - 10.0 SU
Temperature	40degC (104degF) at POTW 60degC (140degF) from SIU
Flammability	No 2 consecutive readings at >= 5% LEL, and no reading of >= 10% LEL allowed

The Local Limits will apply to all commercial and industrial users.

In addition to the above local limits, any concentrations of wastes in excess of the following limits will be considered “**Abnormal Strength**” wastes and subject to written approval by Loudoun Water prior to discharge.

<u>Parameter</u>	<u>Limits</u>
BOD	272 mg/L
COD	682 mg/L
TSS	245 mg/L
TKN	48 mg/L
NH <sub>3</sub> -N	29 mg/L
TP	8 mg/L

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### K. Sampling Parameters & EPA Approved Analytical Methods

<u>Sample Parameter</u>	<u>EPA Approved Analytical Methods</u>
Field pH Meter – Hach HQ40D	Hach Method USEPA Electrode Method 8156
Field Temperature Meter – Hach HQ40D	Hach Method USEPA Electrode Method 8156
Antimony	EPA Method 200.7
Arsenic	EPA Method 200.7
Beryllium	EPA Method 200.7
Cadmium	EPA Method 200.7
Chromium	EPA Method 200.7
Copper	EPA Method 200.7
Cyanide	EPA Method 4500-C-NE
Lead	EPA Method 200.7
Mercury	EPA Method 245.1
Molybdenum	EPA Method 200.7
Nickel	EPA Method 200.7
Selenium	EPA Method 200.7
Silver	EPA Method 200.7
Thallium	EPA Method 200.7
Zinc	EPA Method 200.7
Oil & Grease, TPH – SGT	EPA Method 1664B
Oil & Grease, HEM – SGT	EPA Method 1664B
Fats, Oil & Grease – FOG	EPA Method 1664B
Volatile Organic Compounds – VOC	EPA Method 624.1
Base Neutral & Acids	EPA Method 625.1
Organochloride Pesticides & PCB	EPA Method 608.3
E. Coli MPN	Standard Methods 9223 B
Biological Oxygen Demand 5-Day	Standard Methods 5210 B
Total Suspended Solids – TSS	Standard Methods 2540 D
Chemical Oxygen Demand – COD	HACH 8000
Total Phosphorus – TP	Standard Methods 4500 PE
Total Kjeldahl Nitrogen – TKN	EPA Method 351.2
Total Nitrogen – TN	Calculation (TKN + NOx)
Nitrogen Oxides – NOx	EPA Method 353.2
Ammonia – NH3	EPA Method 350.1