

Austin Water (AW) requires permitted Utility Piping Systems (UPS) providers to sample and analyze for certain parameters in order to ensure their concentrations are below City of Austin (COA) local limits. If analytical data shows concentrations for all required parameters are lower than the limits, then the wastewater can be discharged to the sanitary sewer. If analytical data shows one or more parameters are above the limits, then the wastewater must be hauled off-site for proper disposal or treated on-site to less than the limit before discharge. If hauling off-site, a manifest from the waste hauler must be submitted with the Self-Monitoring Report (SMR). If treating on-site, Special Services Division (SSD) must be notified of the treatment method and analytical must be done after treatment to ensure compliance with limits before final discharge.

Monitoring and Analytical Requirements:

1. Dilution is strictly prohibited. Initial flush water must not be used to dilute the process wastewater in order to meet the local effluent limits.
2. Discharges to the sanitary sewer must be monitored by the permittee at all times to ensure that the discharge flow rate does not exceed the hydraulic capacity of the sanitary sewer collection system.
3. Incidental discharges which occur during routine maintenance, such as checking of chemical levels, are not subject to the sampling and reporting requirements of this permit.
4. Sampling and analysis, including applicable laboratory quality control, must be performed in house or by contract in accordance with the techniques prescribed in **40 CFR Part 136** and amendments thereto.
5. Analytical methods must be utilized so that the method detection limit is no greater than 50 percent of the reported pollutant's discharge limit.
6. The permittee is **prohibited from discharging wastewater with a pH value less than 6.0 or greater than 11.5 for any duration of time.**
7. One sample set per discharge event is required. Monitoring for new UPS projects must be conducted after process control testing shows that the cleaning/passivation of the piping is **complete and prior to** discharge to the sanitary sewer. Monitoring for existing UPS projects must be conducted **prior to** discharge.
8. If the permittee is aware of the presence of any additional specific pollutants defined in Chapter 15-10-44 (Table II below) in the water to be discharged, then the permittee must also include those parameters for analysis and reporting.

Definitions:

1. Instantaneous Limit - the maximum concentration or loading of an allowable pollutant, determined from the analysis of a discrete or composite sample collected independent of the industrial flow rate and the duration of a sampling event.
2. Grab Sample - An individual sample collected in less than 15 minutes without regard for flow or time.

Tables I and II must be used to determine the appropriate monitoring requirements for each type of utility system project.



LAB ANALYSIS INFO AND DISCHARGE LIMITS

Table I – Effluent Limits and Monitoring Requirements for UPS Projects

Pollutant	Units	Discharge Point		Required Container	Required Preservation	Published Holding Time
		Instantaneous Limit	Sample Type			
pH	s.u.	6.0 - 11.5	Grab	not specified	None	15 minutes
Chromium, (T)	mg/l	2.4	Grab	plastic or glass	HNO3 to pH<2	6 months
Copper, (T)	mg/L	1.1	Grab	plastic or glass	HNO3 to pH<2	6 months
Lead, (T)	mg/L	0.4	Grab	plastic or glass	HNO3 to pH<2	6 months
Molybdenum, (T)	mg/l	1.1	Grab	plastic or glass	HNO3 to pH<2	6 months
Zinc, (T)	mg/L	2.3	Grab	plastic or glass	HNO3 to pH<2	6 months

Table II – Additional Parameters Found in Local Limits

Pollutant	Units	Discharge Point		Required Container	Required Preservation	Published Holding Time
		Instantaneous Limit	Sample Type			
Arsenic, Total (T)	mg/L	0.2	Grab	plastic or glass	HNO3 to pH<2	6 months
Cadmium, (T)	mg/L	0.35	Grab	plastic or glass	HNO3 to pH<2	6 months
Cyanide, (T)	mg/L	1.0	Grab	plastic or glass	Cool to ≤6°C, NaOH to pH>10, reducing agent if oxidizer present	14 days
Fluoride, (T)	mg/L	65.0	Grab	plastic	None required	28 days
Manganese, (T)	mg/L	6.1	Grab	plastic or glass	HNO3 to pH<2	6 months
Mercury, (T)	mg/L	0.002	Grab	plastic or glass	HNO3 to pH<2	28 days
Nickel, (T)	mg/L	1.6	Grab	plastic or glass	HNO3 to pH<2	6 months
Selenium, (T)	mg/L	1.8	Grab	plastic or glass	HNO3 to pH<2	6 months
Silver, (T)	mg/L	1.0	Grab	plastic or glass	HNO3 to pH<2	6 months

