



UNION SANITARY DISTRICT
5072 BENSON ROAD
UNION CITY, CA 94587
(510) 477-7500

Groundwater Discharge Permit Reference Sheet

Alternate Disposal Options:

All reasonable alternatives to sewer disposal, such as legally permissible reuses, must be explored before discharge will be approved. Union Sanitary District (District) reserves the right to request additional information as necessary to adequately review the proposal. All effluent discharges must be in compliance with District groundwater discharge limits and prohibitions.

Attention All Groundwater Permit Applicants

This Permit is a Conditional Discharge Permit subject to termination at any time by the District for cause. Refer to Ordinance 36.04 Section 2.03 and Section 2.04 for additional details. Approval of discharge is also contingent on available sewer system capacity as determined by District Engineering and Operation Divisions.

I. Application Process

Permit applicant must submit the following prior to permit issuance:

- Completed Union Sanitary District Groundwater Discharge Permit Application
- Full payment of applicable fees (payable to Union Sanitary District)
- Supporting documentation, including sampling and analysis results
- Encroachment Agreement with supporting insurance documents (if applicable)
- Construction Permit (if applicable)

Permit Processing Time

Allow a minimum of ten (10) full business days for the complete Permit application to be processed. Please fill out the permit application as completely as possible; any missing information may delay the processing of your application.

A mandatory onsite meeting to inspect the treatment system and issue the permit is required before discharge may commence. A minimum of two (2) business days advanced notice is required for scheduling this onsite appointment.

Completed applications, processing fee(s) and supporting documentation must be sent to:

Attention: Groundwater Discharge Permit Application
Environmental Compliance Team
Union Sanitary District
5072 Benson Road
Union City, CA 94587

II. Payment of Fees

The current applicable fee(s) are established in the most recent Resolution of Sewer Service Charge Ordinance 31, Capacity Charge Ordinance 35, and Pretreatment Ordinance 36 as follows (*effective July 2019 to June 2020*):

Wastewater Discharge Permit Fee	\$ 400.00
Sewer Service Charge	\$ 365.32*
Capacity Fee	\$ 762.66

C. Acceptable supporting documentation can include, but is not limited to:

- Hazardous Materials Assessment which evaluates the hazardous materials information for the construction corridor and vicinity determination potential issues relative to the scope of construction;
- Groundwater sample results taken while performing soil borings, pothole sampling, etc;
- Documentation of correspondence from the Regional Water Quality Control Board (RWQCB) that confirms the project is located in an area with no known contamination within the vicinity.

IV. Flow Metering Requirements

- A. Install appropriate Total Flow and Discharge Rate monitoring device(s) on the discharge line(s) at the applicant's expense. Device(s) will be used to determine Total Volume discharged to the sanitary sewer and for confirmation of Flow Rate.
 - Flow meters are available that indicate both Flow Rate (gpm) and Total Discharge (gallons).
- B. Device(s) must be maintained in good working condition.
- C. The User must follow the equipment provider/manufacture specifications regarding the proper placement of monitoring devices. It is the User's responsibility to make the appropriate accommodations to meet this requirement.
- D. Permit holder must document the START and END meter readings.
- E. Monthly discharge totals must be documented in Monthly Groundwater Discharge Self-Monitoring Reports.

V. General Site Requirements and Conditions

- A. All extracted groundwater must be effectively treated for suspended solids, sediments, turbidity and any other pollutant of concern prior to entering the sanitary sewer system.
- B. Maximum discharge rate is 100 gallons per minute. Greater pumping rates requires special approval.
- C. Provide wastewater treatment devices as required to meet District Groundwater Discharge Permit Limit requirements. The types of equipment must be listed in the Permit Application and must be appropriate for the project.
- D. No Bypass of the treatment system is allowed.
- E. If any parameter is detected at half (1/2) the District Limit, treatment system carbon vessels and/or carbon filter shall be replaced.
- F. If the District determines that the Pretreatment equipment proposed for the project is inadequate, the District will issue additional requirements prior to issuance of the Permit.
- G. If the District determines that the Pretreatment equipment that is currently in use is inadequate, the District will issue additional requirements.

VI. Encroachment Agreement and Construction Permit

A. Encroachment Agreement

- Apply for an Encroachment Agreement if a proposed discharge is intended to go directly into a District manhole. Discharge to a Private Control Manhole or clean-out is exempt from Encroachment Permit requirements.
- File the Encroachment agreement with Environmental Compliance at (510) 477-7500.

B. Construction Permit

- Apply for a Construction Permit if the project must construct a physical connection from the project site to District sewer infrastructure.
- Construction permits and associated fees are processed by the District's Customer Service team. Contact District Customer Service at (510) 477-7500 for additional details and requirements.

C. Miscellaneous District Manhole Usage Requirements

- Discharge to a District manhole may be allowed based on the site being secured by barricades when discharges take place and the discharge hose being suspended through the manhole with the lid closed over the top of it.
- The Permittee or a designated representative must be present during the discharge period.
- Prior to opening the manhole lid(s) each and every time, the atmosphere will be tested with a multi-gas meter to assure that it is safe to open the manhole.
- Manholes located on public right-of-way are chosen as last result.
- Traffic safety trench plate (minimum 1") on top of manhole, diameter of trench plate must be wider than manhole diameter.
- The District reserves the right to approve/disapprove access to District manholes.

VII. Alternate Disposal Plan

The Applicant must have alternative disposal plans if the discharge does not meet District discharge limits, requirements or conditions. Off-site disposal must be handled by a licensed treatment, storage, disposal or recycling facility.

VIII. Discharge Requirements

All discharges must comply with the limitations set forth under District Ordinance 36 and Groundwater Discharge Limitations Table 1 (attached). The discharge limitations and prohibitions that are applicable to Groundwater Discharge Permits include, but are not limited to:

- Summation of Total Petroleum Hydrocarbons, or TPH (Gas) & TPH (Diesel), shall not exceed 100.0 mg/L.
- Total Organics (TO) shall not exceed 2.0 mg/L. TO is the summation of all quantifiable values greater than 0.010 mg/L for listed Total Toxic Organics (TTOs).
- Total BTEX shall be included as part of the TO limit of 2.0 mg/L. BTEX includes Benzene, Toluene, Ethylbenzene, and Xylene.
- Methyl Tertiary Butyl Ether (MTBE) shall be included as part of the TO limit of 2.0 mg/L.

IX. Sampling and Analysis Requirements

- A. The Permit Applicant will be required to provide sampling results for all pollutants of concern that are present in the wastewater or any other testing deemed necessary by the District.
- B. All laboratory analysis must be performed by a State of California Certified Laboratory.
- C. Sampling and analysis procedures shall conform to EPA Code of Federal Regulation 40 CFR 136 requirements or those specified in Standard Methods for the Examination of Water and Wastewater.

X. Permit Issuance: Mandatory On-Site Appointment

The District Environmental Compliance Inspector must be present on-site prior to commencement of the discharge of wastewater and will approve the point of discharge to the sanitary sewer collection system. On-site appointments can be scheduled during regular business hours Monday through Thursday between the hours of 7:30 a.m. to 3:00 p.m. with the exception of observed Holidays. A minimum of forty-eight (48) hours advance notice is required for scheduling this on-site appointment with the Environmental Compliance Inspector.

XI. Self-Monitoring *(only required for long term remediation projects)*

- A. Permittee's must perform Monthly Self-Monitoring for all the applicable pollutants present on-site. The analytical data must be submitted with the Monthly Report form.
- B. The Groundwater Discharge Self-Monitoring Report form is due no later than the 15th day of the following reporting Month.
- C. The Report form must be accompanied by a Groundwater Certification statement.
- D. Required Self-Monitoring frequencies may vary.

XII. Non-Compliance with Discharge Limits and Permit Conditions

A. Discharge Limits

- Failure to maintain compliance with any discharge limit requires immediate termination of discharge until corrective measures are in place.
- All discharge limit violations must be immediately reported to the District. A written follow-up report shall be filed within five days.
- Discharge shall not resume without authorization from the District.

B. Permit Conditions

- Failure to maintain compliance with any Permit Condition requires immediate termination of discharge until corrective measures are in place.
- All Permit Condition violations must be immediately reported to the District. A written follow-up report shall be filed within five days.
- Discharge shall not resume without authorization from the District.
- The District must be notified in advance of any planned changes to the user's operations or system which might alter the nature, quality, or volume of its wastewater discharge.

**TABLE 1
Union Sanitary District Groundwater Discharge Limitations**

Pollutant		Limit for any 1 Sample	EPA Test Method
Arsenic		0.35 mg/l	200.7
Cadmium		0.2 mg/l	200.7
Chromium, Total		2.0 mg/l	200.7
Copper		2.0 mg/l	200.7
Lead		1.0 mg/l	200.7
Nickel		1.0 mg/l	200.7
Silver		0.5 mg/l	200.7
Zinc		3.0 mg/l	200.7
Mercury		0.01 mg/l	245.1
Cyanide		0.65 mg/l	4500 CN-E•
Oil and Grease (Animal & Vegetable)		300 mg/l	1664 A
Oil and Grease (Mineral)		100 mg/l	1664 A
* Total Petroleum Hydrocarbons		100.0 mg/l	8015 Modified
** Total Organics		2.0 mg/l	624/8260, 625/8270
Total Halogenated Organics		0.02 mg/l	624/8260
pH		Between 6.0 and 12.0	4500 H ⁺ B •
Temperature		No higher than 150°F	2550B •
Ammonia	Avg. Flow <10,000 gpd	225 mg/L as N	350.1 - 350.3
	10,000 – 25,000 gpd	150 mg/L as N	
	> 25,000 gpd	75 mg/L as N	
<p>* Summation of Total Petroleum Hydrocarbons or TPH (Gas) & TPH (Diesel) shall not exceed 100 mg/L.</p> <p>** Total Organics (TOs) is the summation of all quantifiable values greater than 0.010 mg/L for listed Total Toxic Organics (TTOs).</p> <p>** Total BTEX shall be included as part of the TO limit of 2.0 mg/L. BTEX includes Benzene, Toluene, Ethylbenzene and Xylene.</p> <p>** MTBE shall be included as part of the TO limit of 2.0 mg/L</p> <p>• Standard Methods Number</p> <p>Basis of Standards: USD Sewer Use Ordinance No. 36. All other wastewater discharge limitations of USD's Ordinance No. 36 shall apply. Note: Test Methods listed are examples. Analyses must be performed using Approved Methods listed in 40 Code of Federal Regulations (CFR) 136.</p>			

Prohibited Wastes Include:

1. Flammable, explosive, highly toxic, or poisonous substances
2. Substances which may obstruct flow.
3. Substances posing danger to District staff, the public or environment.
4. Wastes which contain or result in the production of toxic, corrosive, explosive, or malodorous gases.
5. Wastewater containing pesticides or PCB's.
6. Hazardous wastes.
7. Substances which may cause excessive foaming at the treatment plant.
8. Substances which may interfere with the sewer system or wastewater treatment plant, including causing pass through of any pollutant which causes a violation of the District's NPDES Permit

For a complete list of prohibited wastes, see District Ordinance No. 36.

Groundwater Discharge Permit Toxic Organic Pollutants

Toxic Organics (TO's) is the summation of all quantifiable values greater than 0.01 milligrams per liter for the following Total Toxic Organic pollutants:

Volatile Organics (624 / 8260)

- | | |
|--|--|
| <input type="checkbox"/> Acrolein | <input type="checkbox"/> 1,2-Dichloropropane |
| <input type="checkbox"/> Acrylonitrile | <input type="checkbox"/> 1,3-Dichloropropylene (1,3-Dichloropropene) |
| <input type="checkbox"/> Benzene | <input type="checkbox"/> Ethylbenzene |
| <input type="checkbox"/> Bromoform (Tribromomethane) | <input type="checkbox"/> Methyl bromide (Bromomethane) |
| <input type="checkbox"/> Carbon Tetrachloride (Tetrachloromethane) | <input type="checkbox"/> Methyl chloride (Chloromethane) |
| <input type="checkbox"/> Chlorobenzene | <input type="checkbox"/> Methylene chloride (Dichloromethane) |
| <input type="checkbox"/> Chloroethane | <input type="checkbox"/> Tetrachloroethylene (PCE) |
| <input type="checkbox"/> 2-Chloroethy vinyl ether (mixed) | <input type="checkbox"/> 1,1,2,2-Tetrachloroethane |
| <input type="checkbox"/> Chloroform (Trichloromethane) | <input type="checkbox"/> 1,1,1-Trichloroethane (TCA) |
| <input type="checkbox"/> Chlorodibromomethane | <input type="checkbox"/> 1,1,2-Trichloroethane |
| <input type="checkbox"/> Dichlorobromomethane | <input type="checkbox"/> Toluene |
| <input type="checkbox"/> 1,1-Dichloroethane | <input type="checkbox"/> 1,2-Trans-dichloroethylene |
| <input type="checkbox"/> 1,2-Dichloroethane | <input type="checkbox"/> Trichloroethylene (TCE) |
| <input type="checkbox"/> 1,1-Dichloroethylene | <input type="checkbox"/> Vinyl chloride (Chloroethylene) |

Semi Volatile Organics (625 / 8270)

- | | |
|--|---|
| <input type="checkbox"/> Acenaphthene | <input type="checkbox"/> Chrysene |
| <input type="checkbox"/> Acenaphthylene | <input type="checkbox"/> 1,2,5,6-Dibenzanthracene
(Dibenzo(a,h)anthracene) |
| <input type="checkbox"/> Anthracene | <input type="checkbox"/> 1,2-Dichlorobenzene |
| <input type="checkbox"/> Benzidine | <input type="checkbox"/> 1,3-Dichlorobenzene |
| <input type="checkbox"/> 1,2-Benzanthracene (Benzo(a)anthracene) | <input type="checkbox"/> 1,4-Dichlorobenzene |
| <input type="checkbox"/> Benzo(a)pyrene (3,4-Benzopyrene) | <input type="checkbox"/> 3,3-Dichlorobenzidine |
| <input type="checkbox"/> 1,12-Benzoperylene (Benzo(ghi)perylene) | <input type="checkbox"/> Diethylphthalate |
| <input type="checkbox"/> 11,12-Benzofluoranthene
(Benzo(k)fluoranthene) | <input type="checkbox"/> Dimethyl phthalate |
| <input type="checkbox"/> 3,4-Benzofluoranthene
(Benzo(b)fluoranthene) | <input type="checkbox"/> Di-n-butyl phthalate |
| <input type="checkbox"/> Bis (2-chloroisopropyl) ether | <input type="checkbox"/> Di-n-octyl phthalate |
| <input type="checkbox"/> Bis (2-chloroethoxy) methane | <input type="checkbox"/> 2,4-Dinitrotoluene |
| <input type="checkbox"/> Bis (2-chloroethyl) ether | <input type="checkbox"/> 2,6-Dinitrotoluene |
| <input type="checkbox"/> Bis (2-ethylhexyl) phthalate | <input type="checkbox"/> 1,2-Diphenylhydrazine |
| <input type="checkbox"/> 4-Bromophenyl phenyl ether | <input type="checkbox"/> Fluoranthene |
| <input type="checkbox"/> Butyl benzyl phthalate | <input type="checkbox"/> Fluorene |
| <input type="checkbox"/> 2-Chloronaphthalene | <input type="checkbox"/> Hexachlorobenzene |
| <input type="checkbox"/> 4-Chlorophenyl phenyl ether | <input type="checkbox"/> Hexachlorobutadiene |
| | <input type="checkbox"/> Hexachlorocyclopentadiene |

Semi Volatile Organics (cont.)

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|--|---|
| <input type="checkbox"/> 2-Chlorophenol | <input type="checkbox"/> N-nitrosodiphenylamine |
| <input type="checkbox"/> Parachlorometa cresol (4-Chloro-3-methyl phenol) | <input type="checkbox"/> Naphthalene |
| <input type="checkbox"/> 2,4-Dichlorophenol | <input type="checkbox"/> Nitrobenzene |
| <input type="checkbox"/> 2,4-Dimethylphenol | <input type="checkbox"/> Phenanthrene |
| <input type="checkbox"/> 2-methyl-4,6-dinitrophenol | <input type="checkbox"/> Pyrene |
| <input type="checkbox"/> 2-Methylphenol | <input type="checkbox"/> 1,2,4-Trichlorobenzene |
| <input type="checkbox"/> Hexachloroethane | <input type="checkbox"/> 4-Methylphenol |
| <input type="checkbox"/> Indeno(1,2,3-cd) pyrene
(2,3-o-phenylene pyrene) | <input type="checkbox"/> 2-Nitrophenol |
| <input type="checkbox"/> Isophorone | <input type="checkbox"/> 4-Nitrophenol |
| <input type="checkbox"/> N-nitrosodi-n-propylamine | <input type="checkbox"/> Pentachlorophenol |
| <input type="checkbox"/> N-nitrosodimethylamine | <input type="checkbox"/> Phenol |
| | <input type="checkbox"/> 2,4,6-Trichlorophenol |

Additional Groundwater Regulated Toxic Organics

- Benzene
- Toluene
- Ethylbenzene
- Xylene
- Methyl Tertiary Butyl Ether (MTBE)