



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 reserves the right to request additional information as necessary to adequately review the proposal. All effluent discharges must be in compliance with USD 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 Union Sanitary District for cause. Refer to Ordinance 36.03 Section 2.03 and Section 2.04 for additional details.

Approval of discharge is also contingent on available sewer system capacity as determined by USD Engineering and Operation Divisions.

I. Application Process

Permit applicant must submit the following to the Environmental Compliance Team:

- Submit a completed Union Sanitary District Groundwater Discharge Permit Application
- Pay the applicable permit fees (payable to Union Sanitary District)(due in full prior to permit issuance)
- Provide supporting documentation, including sampling and analysis results

Permit Processing Time

Allow for a minimum of five (5) full business days for the 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 can commence. A minimum of 2 business days advanced notice is required for scheduling this onsite appointment.

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

**Attention: Groundwater Discharge Permit Application
Environmental Compliance Team
Union Sanitary District
5072 Benson Road, Union City CA 94587
(510) 477-7500**

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 August 2015 through to June 2016)

Wastewater Discharge Permit Fee	\$ 400.00
Sewer Service Charge	\$ 329.50*
Capacity Fee	\$ 550.38

Total fees to be collected upon issuance of a Groundwater Discharge Permit: \$1,279.88

Volumetric Sewer Service Charges (assessed on an annual basis or at the end of the project):

Project duration < 1 year \$ 2.23 per 1,000 gallons-per-year**

*Covers the initial 147,757 gallons-per-year discharge

**Additional fees to be assessed after the initial 147,757 gallons-per-year discharge is exceeded.

III. Supporting Documentation

Permit applicant must submit information related to the following site activities:

A. Remediation Projects:

- Scope of Project
- Waste Characterization
- Contaminant(s) Treatability Evaluation and Validation (sampling and analysis results)
- Treatment System Specifications
- Alternative Disposal Plan

B. Construction De-watering:

- Scope of Project
- Documentation which confirms that any groundwater encountered will meet the USD discharge requirements and is not within an area of potential or known contamination
- Sediment removal system specs
- Alternative Disposal Plan

i. Discharge rate of $0 \leq 20$ gallons per minute:

- minimum 5,000 gallon tank with 2 baffles
- Sand filter canisters – external, skid mounted
- Bag filters or cartridge filters may be required in addition to sand filtration
- Open-top tanks are preferred to allow for visual observation

ii. Discharge rate of $20 \leq 50$ gallons per minute:

- minimum 10,000 gallon tank with 2 baffles
- Sand filter canisters – external, skid mounted
- Bag filters or cartridge filters may be required in addition to sand filtration
- Open-top tanks are preferred to allow for visual observation

iii. Discharge rate of $50 < 100$ gallons per minute:

- minimum 20,000 gallon tank with 2 baffles

- Sand filter canisters – external, skid mounted
- Bag filters or cartridge filters may be required in addition to sand filtration
- Open-top tanks are preferred to allow for visual observation

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

- o Hazardous Materials Assessment which evaluates the hazardous materials information for the construction corridor and vicinity determination potential issues relative to the scope of construction;
- o Groundwater sample results taken while performing soil borings, pothole sampling, etc;
- o 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.

C. Flow Metering Requirements

- Install appropriate Total Flow and Discharge Rate monitoring devices at the applicants expense for the determination of Total Volume discharged to the sanitary sewer from the project.(Flow meters available that indicate both Flow Rate (gpm) and Total Discharge (gallons))
- Devices must be in good working condition.
- 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.
- Permit holder must document the START and END meter readings.
- Monthly discharge totals must be documented in the Monthly Groundwater Discharge Self-Monitoring Reports

IV. Minimum requirements for treatment systems

A. Hydrocarbons:

- Two carbon vessels
- Sediment removal apparatus
- Sample ports located on the influent, midpoint, and effluent lines
- Totalizing flow meter
- Emergency Shut-off controls
- If diesel is present, an oil/water separator is required

V. General Site Requirements and Conditions

1. Sediment must be removed from treated groundwater prior to discharge to the sanitary sewer.
2. Maximum Pumping Rate – 100 gallons per minute, greater pumping rate requires special approval.
3. No Bypass of the treatment system is allowed.
4. Provide Pretreatment devices as required to meet Union Sanitary Districts Groundwater Discharge Permit Limit requirements. The types of equipment must be listed in the Permit Application and must be appropriate for the project
5. 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.
6. If the District determines that the Pretreatment equipment that is currently in use is inadequate, the District will issue additional requirements.

VI. Encroachment Permit, Encroachment Agreement and Construction Permit

A. Encroachment Agreement

- Apply for an Encroachment Agreement if a proposed discharge is intended to go directly into a USD 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 USD sewer infrastructure.
- Contact USD Customer Service at (510) 477-7500 for additional details and requirements.
- Apply for the permit and pay the appropriate fees with USD Customer Service at (510) 477-7500.

C. Miscellaneous Construction Requirements

- Discharge to a USD manhole will 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 lids each and every time, the atmosphere will be tested with a multi-gas meter to assure that it is safe to open the manhole. (see GW.5)
- 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
- *USD reserves the right to approve/disapprove access to USD manholes

VII. Alternate Disposal Plan

The Applicant must have alternative disposal plans if the discharge does not meet the USD 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 Union Sanitary District Ordinance 36 and Groundwater Discharge Limitations Table 2 (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 mg/L
- *Total Toxic Organics (including BTXE) shall not exceed 2.0 mg/L
- **Total BTXE shall not exceed 2.0 mg/L

*Total Toxic Organics (TTO) is the summation of all quantifiable values greater than 0.010 mg/L for listed toxic organics

**BTEX includes Benzene, Toluene, Xylene and Ethylbenzene

IX. Sampling and Analysis Requirements

- 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 USD.

- All laboratory analysis must be performed by a State of California Certified Laboratory.
- All analyses must be performed using Approved Wastewater Methods listed in Code of Federal Regulations 40 CFR 136.

X. Permit Issuance: Mandatory On-Site Appointment

The 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. Monthly Self-Monitoring (only required for long term remediation projects)

- Permit Holders must perform Monthly Self-Monitoring for all the applicable pollutants present on-site. The analytical data must be submitted with the Monthly Report form.
- The Groundwater Discharge Self-Monitoring Report form is due no later than the 15th day of the following reporting Month.
- The Report form must be accompanied by a Groundwater Certification statement.

XII. Non-Compliance with Discharge Limits and Permit Conditions

A. Discharge Limits

- All instances of Discharge Limit violations must be reported to USD.
- Once a Discharge Limit violation is detected, the Permit Holder must take appropriate action to stop all discharges to the sanitary sewer until corrective measures are in place.
- The Permit Holder cannot re-start discharges to the sanitary sewer without authorization from USD.

B. Permit Conditions

- All instances of Permit Condition violations must be reported to USD.
- Once a Permit Condition violation is detected, the Permit Holder must take appropriate action to stop all discharges to the sanitary sewer or take immediate corrective action.
- The Permit Holder cannot re-start discharges to the sanitary sewer without authorization from USD.



Union Sanitary District

**TABLE 2
Groundwater Discharge Limitations**

UNION SANITARY
DISTRICT
P.O. BOX 5050
5072 BENSON ROAD
UNION CITY, CA 94587
(510) 477-7500

Pollutant	Limit for any 1 Sample	EPA Test Method
Arsenic	0.35 mg/L	200.7
Cadmium	0.2 mg/L	200.7
Copper	2.0 mg/L	200.7
Cyanide	0.65 mg/L	335.4
Lead	1.0 mg/L	200.7
Mercury	0.01 mg/L	245.1
Nickel	1.0 mg/L	200.7
Silver	0.5 mg/L	200.7
Total Chromium	2.0 mg/L	200.7
Zinc	3.0 mg/L	200.7
pH	Not less than 6.0 nor greater than 12.0	4500-H*B-2000
Temperature	No higher than 150° F	2550 B-2000
Oil & Grease (Mineral)	100 mg/L	1664 A
Oil & Grease (Animal&Veg)	300 mg/L	1664 A
**Total Organics	2.0 mg/L	8260/624, 625/8270
Total Halogenated Organics	0.02 mg/L	624/8260
*Total Petroleum Hydrocarbon	100.0 mg/L	8015 Modified

Basis of Standards: USD Ordinance 36

Note: Test methods listed are examples. Analyses must be performed using Approved (Wastewater) Methods listed in Code of Federal Regulations 40 CFR 136.

*Summation of Total Petroleum Hydrocarbons or TPH (Gas) & TPH (Diesel) shall not exceed 100 mg/L

**Total Toxic Organics (TTO) is the summation of all quantifiable values greater than 0.010 mg/L for listed toxic organics

**Total BTXE shall be included as part of the TTO limit of 2.0 mg/L

**BTXE includes Benzene, Toluene, Ethylbenzene and Xylene

**MTBE shall be included as part of the TTO limit of 2.0 mg/L

General Prohibitions

1. Flammable substances.
2. Substances which may obstruct flow.
3. Substances posing danger to District staff, the public or environment.
4. Strongly odorous wastes, malodorous gases or gas producing substances.
5. Radioactive or medical wastes.
6. Substances which may cause excessive foaming at the treatment plant.
7. Wastewater containing pesticides or PCB's.
8. Hazardous wastes.
9. 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

**Groundwater Discharge Permit
Toxic Organic Pollutants
and
Locally Regulated Phenols**

Volatiles

<input type="checkbox"/>	Acrolein
<input type="checkbox"/>	Acrylonitrile
<input type="checkbox"/>	Benzene
<input type="checkbox"/>	Bromoform
<input type="checkbox"/>	Carbon tetrachloride
<input type="checkbox"/>	Chlorobenzene
<input type="checkbox"/>	Chloroethane
<input type="checkbox"/>	2-chloroethylvinyl ether
<input type="checkbox"/>	Chloroform
<input type="checkbox"/>	Dibromochloromethane
<input type="checkbox"/>	Dichlorobromomethane
<input type="checkbox"/>	1,1-dichloroethane
<input type="checkbox"/>	1,2-dichloroethane
<input type="checkbox"/>	1,1-dichloroethylene
<input type="checkbox"/>	1,2-dichloropropane
<input type="checkbox"/>	1,3-dichloropropylene
<input type="checkbox"/>	Ethylbenzene
<input type="checkbox"/>	Methyl bromide
<input type="checkbox"/>	Methyl chloride
<input type="checkbox"/>	Methylene chloride
<input type="checkbox"/>	Tetrachloroethylene (PCE)
<input type="checkbox"/>	1,1,2,2-tetrachlorethane
<input type="checkbox"/>	1,1,1-trichloroethane (TCA)
<input type="checkbox"/>	1,1,2-trichloroethane
<input type="checkbox"/>	Toluene
<input type="checkbox"/>	1,2-trans-dichloroethylene
<input type="checkbox"/>	Trichloroethylene (TCE)
<input type="checkbox"/>	Vinyl chloride

Semi-Volatiles

<input type="checkbox"/>	Acenaphthene
<input type="checkbox"/>	Acenaphthylene
<input type="checkbox"/>	Anthracene
<input type="checkbox"/>	Benzidine
<input type="checkbox"/>	Benzo(a)anthracene
<input type="checkbox"/>	Benzo(a)pyrene

Semi-Volatiles (cont'd)

<input type="checkbox"/>	Benzo(ghi)perylene
<input type="checkbox"/>	Benzo(k)fluoranthene
<input type="checkbox"/>	3,4-benzofluoranthene
<input type="checkbox"/>	Bis (2-chlorisopropyl) ether
<input type="checkbox"/>	Bis (2-chloroethoxy) methane
<input type="checkbox"/>	Bis (2-chloroethyl) ether
<input type="checkbox"/>	Bis (2-ethylhexyl) phthalate
<input type="checkbox"/>	4-bromophenyl phenyl ether
<input type="checkbox"/>	Butyl benzyl phthalate
<input type="checkbox"/>	2-chloronaphthalene
<input type="checkbox"/>	4-chlorophenyl phenyl ether
<input type="checkbox"/>	Chrysene
<input type="checkbox"/>	Dibenzo(a,h)anthracene
<input type="checkbox"/>	1,2-dichlorobenzene
<input type="checkbox"/>	1,3-dichlorobenzene
<input type="checkbox"/>	1,4-dichlorobenzene
<input type="checkbox"/>	3,3-dichlorobenzidine
<input type="checkbox"/>	Diethyl phthalate
<input type="checkbox"/>	Dimethyl phthalate
<input type="checkbox"/>	Di-n-butyl phthalate
<input type="checkbox"/>	Di-n-octyl phthalate
<input type="checkbox"/>	2,4-dinitrotoluene
<input type="checkbox"/>	2,6-dinitrotoluene
<input type="checkbox"/>	1,2-diphenylhydrazine
<input type="checkbox"/>	Fluoranthene
<input type="checkbox"/>	Fluorene
<input type="checkbox"/>	Hexachlorobenzene
<input type="checkbox"/>	Hexachlorobutadiene
<input type="checkbox"/>	Hexachlorocyclopentadiene
<input type="checkbox"/>	Hexachloroethane
<input type="checkbox"/>	Indeno (1,2,3-cd)pyrene
<input type="checkbox"/>	Isophorone
<input type="checkbox"/>	N-nitrosodi-n-propylamine
<input type="checkbox"/>	N-nitrosodimethylamine
<input type="checkbox"/>	N-nitrosodiphenylamine
<input type="checkbox"/>	Naphthalene

Semi-Volatiles (cont'd)

<input type="checkbox"/>	Nitrobenzene
<input type="checkbox"/>	Phenanthrene
<input type="checkbox"/>	Pyrene
<input type="checkbox"/>	1,2,4-trichlorobenzene

Locally Regulated Phenols

<input type="checkbox"/>	2-chlorophenol
<input type="checkbox"/>	4-chloro-3-methyl phenol
<input type="checkbox"/>	2,4-dichlorophenol
<input type="checkbox"/>	2,4-dimethylphenol
<input type="checkbox"/>	2-methyl-4,6-dinitrophenol
<input type="checkbox"/>	2-methyl phenol
<input type="checkbox"/>	4-methyl phenol
<input type="checkbox"/>	2-nitro phenol
<input type="checkbox"/>	4-nitro phenol
<input type="checkbox"/>	Pentachlorophenol
<input type="checkbox"/>	Phenol
<input type="checkbox"/>	2,4,6-trichlorophenol