### **Ochiai Summer Festa**

We aim to be a water reclamation center loved by the local community. We hold this festival each year during summer vacation.



### Seseragi no Sato Public Garden

Seseragi no Sato Public Garden has a children's square with playground equipment, and the treated sewage through membrane filtration process flows in the waterway and the pond, providing the Garden with a comfortable waterside environment.

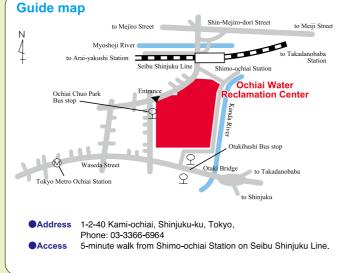


### Ochiai Chuo Park

Ochiai Chuo Park is the first park in Japan which was built using the upper part of a water treatment plant in 1964. This park is equipped with baseball park, tennis courts, etc. A large number of people visit and enjoy the parks.

Phone 03-3232-7701







There is a facility to enjoy the experience of learning about the sewerage system, its roles, and the importance of water environment.

Business hours: Entry Fee:

Closed:

Mondays (open on holiday Mondays, closed the next day) and the year-end and New Year holidays

Open daily throughout the summer (July 16 - August 31) Open on Sewerage Day (September 10) and Tokyo Citizens Day (October 1)

2-3-5 Ariake, Koto-ku Ariake Address

Water Reclamation Center Management office (A-tower)

Telephone: 03 (5564) 2458

https://www.nijinogesuidoukan.jp/

### Beware of crooked dealers who pretend to be related to the Bureau of Sewerage

The Bureau of Sewerage does not rely on businesses to repair or clean drainage facilities in housing.

### **Facility tours of Water Reclamation Centers**

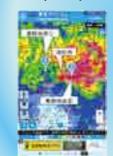
Facility tours of water reclamation centers are available except weekends, holidays, and the New Year's season. Please contact us about reservations and details.

### Tokyo Amesh

Tokyo Amesh is the system that shows rainfall in and around Tokyo in sewer master.

The rainfall is measured by radars and ground rain gauges.

\*Tokyo Amesh is the registered trademark of the Tokyo Metropolitan Govern





Sewer Adventure

Bureau of Sewerage website https://www.gesui.metro. tokyo.lg.jp/

«Contact point for arranging facility tours»

Telephone: 03 (3241) 0944

Hours:  $9:00 \sim 17:00$  (weekdays only)







## Water environment cultivated by the district **Ochiai Water Reclamation Center**

Located very close to the subcenter of the Shinjuku area, Ochiai Water Reclamation Center is environment-friendly and thoroughly controlled as a water reclamation center surrounded by residential districts. The treatment area is in the Ochiai Treatment District (3,506 ha). It comprises Nakano Ward, and parts of Shinjuku, Setagaya, Shibuya, Suginami, Toshima and Nerima Ward.

The treated water is discharged to Kanda River, with some part used effectively for toilet water in buildings of Nishi-shinjuku and Nakano-sakaue districts and for restoration of streams in three rivers which nearly dried up in the southern downtown area of Tokyo.

The generated sludge is pumped through pressure pipelines to Tobu sludge plant for treatment.

Operation started: March 1964

Wastewater treatment facilities

Treatment capacity: 450,000 m³/day

Primary sedimentation tank: 10

Secondary sedimentation tank: 12

Storage tank in wet weather: 13,000 m³

High-rate filtration system: 1

Sand filtration tank: 33

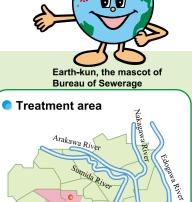
(As of April 2023)

Site area: 85,143m<sup>2</sup>

Grit chamber: 8

Reaction tank: 10

# Water quality of Kanda River Units: ma/l Sweetfish has returned to the stream since 1992. Environmental standard C since FY1997 (BOD5mg/L)



### Average quality of influent and final effluent

The final effluent from the water reclamation center complies completely with the water quality standards of the Tokyo Metropolitan Environmental Security Ordinance and is sufficiently clean for fish to live in.

Ī	Item	Influent		Final effluent	Regional water
		Extra-low stage	High stage	High stage	quality standards
	B O D	250	140	2	25 or below
	C O D <sub>Mn</sub>	120	100	7	
	Total nitrogen	37.8	33.6	13.1	30 or below
	Total phosphorus	4.8	3.5	2.1	3 or below

Average values of 24-hour test conducted in FY2021 \*The higher values of BOD and COD indicate the higher levels of water contamination. BOD describes the amount of oxygen required by microorganisms to eat organic material in water, and COD describes the amount of oxygen required by oxidizer to decompose organic material in water. The quality levels of discharged water are specified in terms of BOD for rivers and COD for seas. Total nitrogen and total phosphorus are closely



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# The Role of Tokyo Sewerage

internal diameter of the sewer ranges from 25cm to 8.5m.

### Improvement of a Living Environment by Treating Wastewater

We treat wastewater from houses and factories and ensure a comfortable living environment.

# Flood Prevention by Draining Stormwater

We protect the city from flooding by draining stormwater immediately from roads or residential areas.

### Water Quality Control in Rivers and the Sea

Wastewater is pumped up to nearly ground level at pumping

stations and flows naturally again.

We improve and control the water quality of rivers and the sea by treating wastewater and returning it to them.

### **Our New Role**

Features of Ochiai Water Reclamation Center

Discharge (Kanda River)

Now we play a new role in creating a good urban environment. We use sewerage resources and energy effectively, for example, reclaimed water and sewerage heat. We also utilize rooftop spaces of our facilities as parks.

### Sludge treatment facilities Thickener Incinerator machine Sludge is thickened, dewatered and incinerated. Incinerator Dewatered sludge is incinerated to ashes Sludge **%If a WWTP does not have** sludge treatment facilities, it The sludge is coagulated by adding chemicals, Thickened sludge is transports sludge to another WWTP with sludge treatment Dewatering placed on a belt, and water is separated out by gravity dewatered.

# Legend Wastewater treatment facilities: Advanced wastewater treatment facilities: Advanced wastewater treatment facilities: Above-ground park space Intrance Entrance Secondary Kanda River Totsuka-nishi trunk sewer Totsuka-nishi trunk sewer

The treated water is abundant in volume and steady in quality, and can be effectively used as the water for miscellaneous use in buildings. Ochiai Water Reclamation Center uses a sand filtration method for advanced water treatment. It sends reclaimed water to the Shinjuku Subcenter Water Recycle Center in Nishi- Shinjuku. The reclaimed water is effectively used as water flushing toilets in buildings in Nishi-Shinjuku and Nakano-Sakaue districts.

# Restoration of streams in three rivers in the southern downtown area of Tokyo

The reclaimed

water after advanced wastewater treatment in Ochiai

Water Reclamation

Center is fed into

the three streams -

Shibuva & Furu

River, Meguro River



ARecuperated Meguro River with reclaimed water where water was

stagnated and stream environment deteriorated in the past. This has contributed to the increase of water volume and recuperation of affluent water environment in the streams.

### **RO Membrane Filtration Facility**

In Ochiai Water Reclamation Center, the treated wastewater from the secondary sedimentation tank is all subjected to advanced treatment in the sand filtration tank. Further, 50 m<sup>3</sup>/day of advanced-treated water is subjected to Reverse



Osmosis membrane filtration to supply hygienic and safe water to "Seseragi no Sato Public Garden" for children to play with the water.

# Distance Monitoring and Control using Optical Fiber Communication Network

The operation control of the wastewater treatment facilities in Nakano Water Reclamation Center about 3 km away is carried out by using the optical fiber communication network installed inside sewer pipes.

Nakano Water Reclamation Center

