

# Environmental Performance Data

## Water Quality

At Tomakomai Factory, we conclude a pollution prevention agreement with related municipalities, measure and report on the quality of factory wastewater every month, and strive to preserve the water quality of the area.

Item		Agreement Value	Performance (*)		
			Max	Mini	Avg.
Total drainage		$\leq 3,432\text{m}^3/$	1,908	1,787	1,872
Hydrogen ion (pH)		$\geq 5.8, \leq 8.6$	7.3	6.7	7.1
Biochemical Oxygen Demanded amount(BOD)	Max	$\leq 80\text{mg/L}$	62.0	29.0	47.2
	Avg./day	$\leq 70\text{mg/L}$	59.5	24.0	42.0
Amount of suspended solids(SS)	Max	$\leq 80\text{mg/L}$	31.0	5.0	11.3
	Avg./day	$\leq 70\text{mg/L}$	19.0	4.0	9.0
Normal hexane extract (Mineral oils) content		$\leq 5\text{mg/L}$	<0.5	<0.5	<0.5
Number of Escherichia coli		$\leq 3,000/\text{cm}^3$	47.5	not detecte	22.5
Ammonia, Ammonium compounds, Nitrite and Nitric acid compounds		$\leq 4\text{mg/L}$	2.5	2.0	2.3

(\*) As of 2017. However, since the contents of the agreement was renewed in May 2018, the listed values of following items are for May-August 2018.

- Total drainage volume
- Ammonia, Ammonium compounds, Nitrite and Nitric acid compounds

## Chemical Substances

### (Pollutant Release and Transfer Register Law)

Releases and transfers of substances subject to the PRTR Law in FY 2017 are as follows.

unit : ton/year

Location	Name of substance	Emissions	Waste/treatment
Chitose Plant	toluene	21.0	0.1
	formaldehyde	0.2	0.0
	morpholine	0.0	0.9
Tomakomai Plant	formaldehyde	1.1	0.0
	morpholine	0.0	0.5
	xylene	1.3	0.0

	FY2013	FY2014	FY2015	FY2016	FY2017
<b>CO2(k-ton)</b>	35	35	37	36	37
<b>Energy consumption(petroleum:k-kl)</b>	14	14	15	15	15
<b>Waste(k-ton)</b>	4	4	4	4	4