

Regulatory items for each site data (FY2022)

*Items that are not subject to regulations or voluntary standards are marked "-".

Kokura No.1 Plant, TOTO LTD.

<Atmosphere related> Measuring date : February 21-22, 2023

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180・200	135	28~77	18	—	<1.0	0.15・0.2	0.04	<0.005~0.023
Boiler	150・180	100	22~62	—	—	—	0.2	0.04	<0.002~<0.004
Cogeneration generator	950	900	649~652	—	—	—	0.08	0.07	0.051~0.055

<Water quality related > *Public sewage Measuring date : July 27, 2022

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.0~9.0	5.8~8.6	7.9
Biochemical Oxygen Demand (BOD)	m g/l	600	300	7
Chemical Oxygen Demand (COD)	m g/l	600	300	5.9
Suspended Solids (SS)	m g/l	600	30	7
n-hexane extract (paraffinum liquidum)	m g/l	5	—	<0.5
Copper	m g/l	3	—	<0.1
Zinc	m g/l	2	—	0.20
Total chromium	m g/l	2	—	<0.1
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	1	—	<0.1
Cadmium and its compounds	m g/l	0.03	—	<0.003
Cyanogen compound	m g/l	1	—	<0.1
Lead and its compound	m g/l	0.1	—	<0.01
Hexavalent chromium compound	m g/l	0.5	—	<0.05

<Noise> Measuring date : February 16-17, 2023

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	—	48~59
afternoon	dB (A)	65	—	45~59
evening	dB (A)	65	—	44~54
night	dB (A)	55	—	42~54

<Vibration> Measuring date : February 16, 2023

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	—	22~46
night	dB	60	—	—

<Odor>
*Not applicable

Kokura No.2 Plant, TOTO LTD.

<Atmosphere related> Making date : May 11, 2023

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Metal melting furnace	—	—	—	—	—	—	0.1	0.05	<0.002
Boiler	150	60	17~22	1.75	—	—	0.05	0.03	—
Cogeneration generator	950	950	700~750	1.75	0.342	—	0.08	0.08	0.013~0.015

<Water quality related > Making date : May 11, 2023

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.03~7.85
Biochemical Oxygen Demand (BOD)	m g/l	20	15	1.30
Chemical Oxygen Demand (COD)	m g/l	20	15	4.00
Suspended Solids (SS)	m g/l	60	50	1.00
n-hexane extract (paraffinum liquidum)	m g/l	5	—	0.29
Copper	m g/l	3	—	0.02
Zinc	m g/l	5	—	0.06
Total chromium	m g/l	2	—	0.02
Total nitrogen	m g/l	120	60	0.500
Total phosphorous	m g/l	16	8	0.028
Cadmium and its compounds	m g/l	0.03	—	—
Cyanogen compound	m g/l	1	—	—
Lead and its compound	m g/l	0.1	—	0.0020
Hexavalent chromium compound	m g/l	0.5	—	0.02

<Noise> Measuring date : June 2, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	—	—
afternoon	dB (A)	65	—	42.7~63.7
evening	dB (A)	65	—	39.9~48.8
night	dB (A)	55	—	41.1~49.1

<Vibration> Measuring date : May 9, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	—	12~38
night	dB	60	—	—

<Odor>
*Not applicable

Shiga Plant, TOTO LTD.

<Atmosphere related> Measuring date : February 2-15,2023

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	135	135	5~39	8.76	6.57	<0.02~1.48	0.2	0.15	0.004~0.017
Boiler	112	112	22~32	—	—	—	0.2	0.15	<0.005
Cogeneration generator	450	450	173	—	—	—	0.04	0.04	<0.005

<Water quality related > Making date : March 1, 2023

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6.0~8.5	6.3~8.2	7.4~7.5
Biochemical Oxygen Demand (BOD)	m g/l	20	15	0.9~2.6
Chemical Oxygen Demand (COD)	m g/l	20	15	2.1~4.1
Suspended Solids (SS)	m g/l	20	15	1.0~6.7
n-hexane extract (paraffinum liquidum)	m g/l	5	3.7	<0.5
Copper	m g/l	1	0.7	<0.05
Zinc	m g/l	1	0.75	<0.05~0.15
Total chromium	m g/l	0.1	0.07	<0.01
Total nitrogen	m g/l	12.0	9	0.47~0.5
Total phosphorous	m g/l	0.8	0.6	<0.05~<0.1
Cadmium and its compounds	m g/l	0.01	0.008	<0.001
Cyanogen compound	m g/l	0.1	0.08	<0.01
Lead and its compound	m g/l	0.1	0.08	<0.01
Hexavalent chromium compound	m g/l	0.05	0.038	<0.01

<Noise> Measuring date : October 6, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	63	46.1~53.2
afternoon	dB (A)	70	67	46.4~55.7
evening	dB (A)	70	67	46.9~53.6
night	dB (A)	60	57	40.3~47.7

<Vibration> Measuring date : October 6, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	70	65	<30
night	dB	65	60	<30~30.7

<Odor>
*Not applicable

Shiga No.2 Plant, TOTO LTD.

<Atmosphere related> Measuring date : February 2-15,2023

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Cold / hot water unit	195	195	64	17.5	13.20	<0.003	0.2	0.230	<0.005

<Water quality related > *Not applicable

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	—	—	—
Suspended Solids (SS)	m g/l	—	—	—
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise> Measuring date : October 6, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	63	40.1~56.1
afternoon	dB (A)	70	67	47.6~59.8
evening	dB (A)	70	67	45.6~52.7
night	dB (A)	60	57	35.8~43.2

<Vibration> Measuring date : October 6, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	70	65	<30~39.1
night	dB	65	60	<30~32.3

<Odor>
*Not applicable

Chigasaki Plant, TOTO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related > *Not applicable

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5~9	5.3~8.8	7.2
Biochemical Oxygen Demand (BOD)	m g/l	600	480	1.0
Chemical Oxygen Demand (COD)	m g/l	—	—	—
Suspended Solids (SS)	m g/l	600	480	2.0
n-hexane extract (paraffinum liquidum)	m g/l	30	21	<1.0
Copper	m g/l	1	0.8	<0.01
Zinc	m g/l	1	0.8	0.02
Total chromium	m g/l	2	1.6	<0.04
Total nitrogen	m g/l	125	93.8	—
Total phosphorous	m g/l	—	—	0.01
Cadmium and its compounds	m g/l	0.03	0.024	<0.03
Cyanogen compound	m g/l	1	0.75	<0.01
Lead and its compound	m g/l	0.1	0.08	<0.005
Hexavalent chromium compound	m g/l	0.5	0.38	<0.04

Aichi Plant, TOTO SANITECHNO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180	108	43	0.68	0.272	0.09	0.25	0.1	0.028
Boiler	150	60	20	0.045	0.027	0.02	0.1	0.04	0.005

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	8.6	8.3	7.7
Biochemical Oxygen Demand (BOD)	m g/l	25	10	3.7
Chemical Oxygen Demand (COD)	m g/l	160	64	1.6~8.8
Suspended Solids (SS)	m g/l	150	60	2
n-hexane extract (paraffinum liquidum)	m g/l	2	1.2	1.0
Copper	m g/l	3	1.2	0.03
Zinc	m g/l	2	1.2	0.4
Total chromium	m g/l	2	0.8	0.04
Total nitrogen	m g/l	120	48	0.4~4.3
Total phosphorous	m g/l	16	6.4	0.02
Cadmium and its compounds	m g/l	0.03	0.012	—
Cyanogen compound	m g/l	1	0.4	—
Lead and its compound	m g/l	0.1	0.04	—
Hexavalent chromium compound	m g/l	0.5	0.2	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	62.5~75.0	62.5~75.0	50.1~59.3
afternoon	dB (A)	65.0~75.0	65.0~75.0	48.0~54.0
evening	dB (A)	62.5~75.0	62.5~75.0	40.1~48.6
night	dB (A)	55.0~65.0	55.0~65.0	37.6~48.0

<Vibration>

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65~70	60~70	30.0~34.0
night	dB	60~65	55~65	29.1~<30.0

<Odor>

*Not applicable

Noise data exceeded the regulation value at some measurement points.
We are implementing measures to comply with the regulation values.

Oita Plant, TOTO AQUATECHNO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Metal melting furnace	—	—	—	—	—	—	0.05	0.05	—
Boiler	37.5	37.5	22~24	2.34	0.28	0.0002	0.05	0.05	—
Water heater	100	100	28~30	2.3	0.560	0.0	0.03	0.0300	—

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.0~8.4	6.7~7.4
Biochemical Oxygen Demand (BOD)	m g/l	15	13.5	0.5~2.6
Chemical Oxygen Demand (COD)	m g/l	15	10	3.2~9.6
Suspended Solids (SS)	m g/l	15	10	0.1~1.1
n-hexane extract (paraffinum liquidum)	m g/l	2	1.5	0.7
Copper	m g/l	3	2	0.2~0.3
Zinc	m g/l	2	1.5	0.1~0.3
Total chromium	m g/l	2	0.3	0.2
Total nitrogen	m g/l	10	9	2.8~8.3
Total phosphorous	m g/l	3	2.5	0.3~0.6
Cadmium and its compounds	m g/l	0.1	—	—
Cyanogen compound	m g/l	1	—	—
Lead and its compound	m g/l	0.1	0.08	0.01~0.05
Hexavalent chromium compound	m g/l	Not detected	Not detected	Not detected

HQ / Nakatsu Plant, TOTO SANITECHNO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180~200	75	30~40	17.5	4	1.800	0.25	0.05	0.005
Boiler	150	75	18~33	—	—	—	0.1	0.01	<0.002
Cogeneration generator	950	800	—	17.5	1	—	0.1	0.05	—

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.5~8.2	7.5
Biochemical Oxygen Demand (BOD)	m g/l	160	16	3.9
Chemical Oxygen Demand (COD)	m g/l	160	10	2.1
Suspended Solids (SS)	m g/l	200	15	1.5
n-hexane extract (paraffinum liquidum)	m g/l	5	1.5	<0.5
Copper	m g/l	—	—	—
Zinc	m g/l	2	0.9	0.1
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	120	20	6.2
Total phosphorous	m g/l	16	1	0.0
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

Noise data exceeded the regulation value at some measurement points.
We are implementing measures to comply with the regulation values.

Making date : February 14, 2023

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	60	49~55
afternoon	dB (A)	70	60	50~56
evening	dB (A)	65	60	42~50
night	dB (A)	55	50	41~49

<Vibration>

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	70	65	21~39
night	dB	65	60	20~36

<Odor>

*Not applicable

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	70	63	52~62
afternoon	dB (A)	70	67	58~66
evening	dB (A)	70	63	49~62
night	dB (A)	65	57	51~56.8

<Vibration>

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	70	63	27~37
night	dB	65	58	26~31

<Odor>

*Not applicable

Toki Plant, TOTO WASHLET TECHNO LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related >

Measuring date : June 10, 2022

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.5
Biochemical Oxygen Demand (BOD)	m g/l	160	—	27
Chemical Oxygen Demand (COD)	m g/l	160	—	24
Suspended Solids (SS)	m g/l	200	—	18
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	3	—	—
Zinc	m g/l	2	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	120.0	—	48
Total phosphorous	m g/l	16	—	5.5
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	0.1	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

Measuring date : February 6-14, 2023

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	60	—	38~45
afternoon	dB (A)	65	—	46~61
evening	dB (A)	60	—	<30~45
night	dB (A)	50	—	<30~44

<Vibration>

Measuring date : February 6-14, 2023

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	70	—	<30
night	dB	65	—	<30

<Odor>

*Not applicable

HQ / Sakura Plant, TOTO Bath Create LTD.

<Atmosphere related>

Measuring date : February 2, 2023

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Boiler	150	81	11~36	0.61	0.01	0.002	0.1	0.002	0.0008
Cold / hot water gener	150	53	34	—	—	—	0.1	0.003	0.0006

<Water quality related >

Measuring date : February 17, 2023

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6.5~8.5	7.0~8.2	8.1
Biochemical Oxygen Demand (BOD)	m g/l	5	3.0	4.0
Chemical Oxygen Demand (COD)	m g/l	5	3.4	4.0
Suspended Solids (SS)	m g/l	10	4.0	1.0
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

Measuring date : November 8-14, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	60	—	43.4~55.9
afternoon	dB (A)	65	—	40.7~61.3
evening	dB (A)	60	—	36.0~47.3
night	dB (A)	55	—	37.5~48.5

<Vibration>

Measuring date : November 8, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	60	—	28.3~44.3
night	dB	—	—	—

<Odor>

*Not applicable

In the water quality survey, BOD and COD exceeded the self-regulation values.

We are implementing measures to comply with the voluntary standard values.

Ako Plant, TOTO Bath Create LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related >

*Not applicable

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	—	—	—
Suspended Solids (SS)	m g/l	—	—	—
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

Measuring date : March 9-10, 2023

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	70	—	54.8~60.8
afternoon	dB (A)	70	—	55.4~60.3
evening	dB (A)	70	—	51.6~57.6
night	dB (A)	70	—	53.6~59.8

<Vibration>

*Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

HQ / Mobara Plant, TOTO High Living LTD.

<Atmosphere related>

Measuring date : January, 2023

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Boiler	150	100	36	—	—	—	0.1	0.06	0.005

<Water quality related >

Measuring date : February 24, 2023

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6~8	7.5
Biochemical Oxygen Demand (BOD)	m g/l	20	18	5.0
Chemical Oxygen Demand (COD)	m g/l	20	18	2.1
Suspended Solids (SS)	m g/l	40	36	1.6
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	1	0.6	0.02
Zinc	m g/l	1	0.8	0.14
Total chromium	m g/l	0.5	0.3	0.02
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	0.01	0.006	0.001
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	0.1	0.07	0.01
Hexavalent chromium compound	m g/l	0.05	0.03	0.005

<Noise>

Measuring date : November 10, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	55	—	42.7~52.8
afternoon	dB (A)	60	—	48.3~55.8
evening	dB (A)	55	—	39.3~49.7
night	dB (A)	50	—	—

<Vibration>

Measuring date : November 10, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	60	—	25~30
night	dB	55	—	—

<Odor>

*Not applicable

HQ / Nakatsu Plant, TOTO Fine Ceramics LTD.

<Atmosphere related>

Making date : April 3, 2023

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180	162	6~63	—	—	—	0.25	0.10	0.002
Boiler	150	69	29	—	—	—	0.1	0.05	0.002
Cogeneration generator	950	855	—	17.5	—	—	0.10	0.090	—

<Water quality related >

Measuring date : March, 2023 (BOD,Total nitrogen,Total phosphorous ; January)

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6.0~8.5	6.5~8.2	7.2
Biochemical Oxygen Demand (BOD)	m g/l	—	30	4.1
Chemical Oxygen Demand (COD)	m g/l	8	6.5	2.2
Suspended Solids (SS)	m g/l	13	10	2.4
n-hexane extract (paraffinum liquidum)	m g/l	—	1.6	1.0
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	17	6.4
Total phosphorous	m g/l	—	2	0.32
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise> Measuring date:November25-26, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	65	50.5~59.5
afternoon	dB (A)	70	70	56.1~68.3
evening	dB (A)	65	65	42.7~59.2
night	dB (A)	60	60	41.8~59.4

<Vibration> Measuring date:November25-26, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	65	30.0~37.0
night	dB	60	60	18.4~24.6

<Odor>

*Not applicable

Katsura Plant, TOTO Platechno LTD.

<Atmosphere related>

Measuring date : February 22, 2023

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Boiler	180	135	46	0.63	0.4725	<0.00083	0.15	0.1125	0.0010

<Water quality related >

Measuring date : March 15, 2023

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	5.8~8.6	7.7
Biochemical Oxygen Demand (BOD)	m g/l	50	37.5	14
Chemical Oxygen Demand (COD)	m g/l	50	37.5	14
Suspended Solids (SS)	m g/l	110	82.5	7
n-hexane extract (paraffinum liquidum)	m g/l	5	3.8	<1
Copper	m g/l	3	2.3	<0.02
Zinc	m g/l	5	3.8	0.15
Total chromium	m g/l	2	1.5	<0.02
Total nitrogen	m g/l	120	90	3.1
Total phosphorous	m g/l	16	12	<0.02
Cadmium and its compounds	m g/l	0.03	0.0075	<0.005
Cyanogen compound	m g/l	Not detected	Not detected	Not detected
Lead and its compound	m g/l	0.01	0.0075	<0.01
Hexavalent chromium compound	m g/l	0.05	0.0375	<0.05

<Noise> Measuring date : March 9-10, 2023

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	55	—	43.1~52.9
afternoon	dB (A)	60	—	46.4~59.7
evening	dB (A)	55	—	35.3~48.6
night	dB (A)	50	—	34.6~38.9

<Vibration> Measuring date : March 9, 2023

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	60	—	16.0~35.2
night	dB	55	—	15.0~19.6

<Odor> Measuring date : February 24, 2023

Regulated substances	Unit	Regulatory value	Own standard	Measured value
Toluene	ppm	10	—	Not detected
Styrene	ppm	0.4	—	Not detected
Xylene	ppm	1	—	Not detected

HQ / Buzen Plant, TOTO Platechno LTD.

<Atmosphere related>

Measuring date : August 2, 2022

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Boiler	180	135	47~53	17.5	13.125	<0.00063~<0.00084	0.15	0.1125	<0.0007~<0.0008

ND=Below minimum set amount

<Water quality related >

*Not applicable

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	6.1~8.2	—
Biochemical Oxygen Demand (BOD)	m g/l	60	45	—
Chemical Oxygen Demand (COD)	m g/l	10	10	—
Suspended Solids (SS)	m g/l	10	7.5	—
n-hexane extract (paraffinum liquidum)	m g/l	5	4	—
Copper	m g/l	3	2.3	—
Zinc	m g/l	2	1.5	—
Total chromium	m g/l	2	1.5	—
Total nitrogen	m g/l	60	45	—
Total phosphorous	m g/l	8	6	—
Cadmium and its compounds	m g/l	0.03	0.0	—
Cyanogen compound	m g/l	1	0.8	—
Lead and its compound	m g/l	0.1	0.1	—
Hexavalent chromium compound	m g/l	0.5	0.4	—

<Noise> Measuring date : June 2-3, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	70	70	44~58
afternoon	dB (A)	70	70	44~66
evening	dB (A)	70	70	40~51
night	dB (A)	65	65	46~50

<Vibration> Measuring date : June 2-3, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	65	26~41
night	dB	60	60	<25~38

<Odor> Measuring date : May 31, 2022

Regulated substances	Unit	Regulatory value	Own standard	Measured value
Styrene	ppm	0.4	—	<0.04
Toluene	ppm	10	—	<1
Xylene	ppm	1	—	<0.1~0.2
Methanethiol	ppm	0.002	—	—
Hydrogen sulfide	ppm	0.02	—	—
Methyl dioxide	ppm	0.009	—	—

Kanda Plant, TOTO Platechno LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related >

Measuring date : March, 2023

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	5.8~8.6	7.6
Biochemical Oxygen Demand (BOD)	m g/l	160	—	—
Chemical Oxygen Demand (COD)	m g/l	160	50	2.3
Suspended Solids (SS)	m g/l	200	70	0.8
n-hexane extract (paraffinum liquidum)	m g/l	5	2	<0.5
Copper	m g/l	3	—	—
Zinc	m g/l	2	—	—
Total chromium	m g/l	2	—	—
Total nitrogen	m g/l	120	120	1.0
Total phosphorous	m g/l	16	16	<0.1
Cadmium and its compounds	m g/l	0.03	—	—
Cyanogen compound	m g/l	1	—	—
Lead and its compound	m g/l	0.1	—	—
Hexavalent chromium compound	m g/l	0.5	—	—

<Noise> Measuring date : January, 2023

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	55	—	50~55
afternoon	dB (A)	55	—	47~54
evening	dB (A)	55	—	45~49
night	dB (A)	50	—	44~47

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor> Measuring date : January, 2023

Regulated substances	Unit	Regulatory value	Own standard	Measured value
North 1F Cleaning room discharge vent	ppm	35	—	—
North 1F Rubber role machine discharge vent	ppm	35	—	17
East 3F Printing Room discharge vent	ppm	33	—	17
Final discharge vent of plant	ppm	28	—	4

Nara Plant, TOTO Platechno LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related > *Not applicable

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	—	—	—
Suspended Solids (SS)	m g/l	—	—	—
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise> Measuring date : October 28, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	65	—	43~56
afternoon	dB (A)	70	—	48~56
evening	dB (A)	65	—	41~55
night	dB (A)	55	—	40~49

<Vibration> Measuring date : October 28, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	—	<30~43
night	dB	60	—	<30

<Odor> Measuring date : October 28, 2022

Regulated substances	Unit	Regulatory value	Own standard	Measured value
Styrene	ppm	0.8	—	<0.08~0.3

TOTO USA.,INC Morrow Plant

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	25	20	12	100	1.0	0.037	—	—	—

<Water quality related > ND=Below minimum set amount

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5 ~ 12.5	—	11.0
Biochemical Oxygen Demand (BOD)	m g/l	3,112	—	BRL
Chemical Oxygen Demand (COD)	m g/l	250.0	—	21
Suspended Solids (SS)	m g/l	5,644	—	40
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	5.36	—	0.333
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	228	—	BRL
Total phosphorous	m g/l	38.6	—	0.309
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	90.0	—	55~69
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

HQ / Toki Plant, TOTO Materia LTD.

<Atmosphere related>

Making date : February 15, 2023

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Hardening furnace	180	—	4.1	6.33	—	0.03	0.2	—	0.02
Continuous firing furnace	180	—	3.4	1.37	—	0.03	0.2	—	0.02

<Water quality related >

Making date : February 24, 2023

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.8~8.6	—	7.5
Biochemical Oxygen Demand (BOD)	m g/l	160	—	8.5
Chemical Oxygen Demand (COD)	m g/l	160	—	5.7
Suspended Solids (SS)	m g/l	200	—	<1
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	3	—	<0.01
Zinc	m g/l	2	—	0.02
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	120	—	1.10
Total phosphorous	m g/l	16	—	0.012
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	0.1	—	<0.01
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

Making date : December 20, 2022

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	60	—	—
afternoon	dB (A)	65	—	51~59
evening	dB (A)	60	—	—
night	dB (A)	50	—	—

<Vibration>

Making date : December 15, 2022

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	65	—	<30
night	dB	60	—	—

<Odor>

*Not applicable

TOTO USA.,INC Lakewood Plant

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	25	20	4.7	100	1	0.01	—	—	—

<Water quality related >

ND=Below minimum set amount

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5 ~ 12.5	—	7.9
Biochemical Oxygen Demand (BOD)	m g/l	3,112	—	6
Chemical Oxygen Demand (COD)	m g/l	—	—	21.4
Suspended Solids (SS)	m g/l	5,644	—	BRL
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	3.104	—	—
Zinc	m g/l	4.473	—	BRL
Total chromium	m g/l	2.25	—	—
Total nitrogen	m g/l	228	—	1
Total phosphorous	m g/l	10	—	BRL
Cadmium and its compounds	m g/l	0.335	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	0.653	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	90.0	—	55~69
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO MEXICO, S.A. DE C.V.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	—	—	—	—	—	—	557.3~1111.4	—	0.08~3.20

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5~10	—	7.5
Biochemical Oxygen Demand (BOD)	m g/l	—	—	<4
Chemical Oxygen Demand (COD)	m g/l	—	—	<30
Suspended Solids (SS)	ml/l	10.0	—	<10
n-hexane extract (paraffinum liquidum)	m g/l	15	—	<8
Copper	m g/l	4	—	0.04
Zinc	m g/l	10	—	0.09
Total chromium	m g/l	0.5	—	<0.05
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	<1
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	68	68	57
afternoon	dB (A)	—	—	—
evening	dB (A)	65	65	56
night	dB (A)	—	—	—

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO DALIAN CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	—	—	<3	1,430	1,140	<3	150	120	1.8~5.3
Boiler	400	320	18	100	80	<3	30	24	6.0

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6.5 ~ 8.5	7.1
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	—	—	—
Suspended Solids (SS)	m g/l	—	—	—
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	0.5	0.4	<0.05
Zinc	m g/l	1.5	1.2	<0.05
Total chromium	m g/l	1	0.8	<0.004
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	0.05	0.04	<0.001
Cyanogen compound	m g/l	0.3	0.24	<0.004
Lead and its compound	m g/l	0.2	0.16	<0.01
Hexavalent chromium compound	m g/l	0.2	0.16	<0.004

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65	—	56~61
evening	dB (A)	—	—	—
night	dB (A)	55	—	53~54

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (Beijing) Co., Ltd.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	100	90	8~15	20	18	<3	10	9	1.3~2.5
Boiler	80	72	5~18	10	9	<3	5	4.5	1.0
Cogeneration generator	80	72	25~49	10	9	<3	5	4.5	1.0~1.6

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6.5 ~ 8.5	6.8
Biochemical Oxygen Demand (BOD)	m g/l	40	36	2.2
Chemical Oxygen Demand (COD)	m g/l	110	99	14.0
Suspended Solids (SS)	m g/l	120	108	54.0
n-hexane extract (paraffinum liquidum)	m g/l	10	9	0.06
Copper	m g/l	1	0.9	0.04
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	40	36	6.63
Total phosphorous	m g/l	3	2.7	0.01
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60	—	50.9 ~ 57.7
evening	dB (A)	—	—	—
night	dB (A)	50	—	39.1 ~ 46

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

NANJING TOTO CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m³N/h)			Dust (g/m³N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	—	—	—	—	—	47.0	200	—	30~40

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6 ~ 9	7.6
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	500	300	47
Suspended Solids (SS)	m g/l	400	360	8
n-hexane extract (paraffinum liquidum)	m g/l	20	18	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	1.13
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60	—	56.7~58.0
evening	dB (A)	—	—	—
night	dB (A)	50	—	46.7~48.2

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

Regulated substances	Unit	Regulatory value	Own standard	Measured value
Non-methane hydrocarbon	mg/m3	4.0	—	0.92~1.60

TOTO EAST CHINA CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180	150	<1.5~64	50	37.5	<3~6	30	22.5	<0.5~1.2
Boiler	50	37.5	7~43	10	7.5	<3~4	10	7.5	<1

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6 ~ 8	7.90
Biochemical Oxygen Demand (BOD)	m g/l	40	30	1.5~36.5
Chemical Oxygen Demand (COD)	m g/l	110	82.5	14~44
Suspended Solids (SS)	m g/l	120	90	6~12
n-hexane extract (paraffinum liquidum)	m g/l	10	7.5	0.08~0.17
Copper	m g/l	10	7.5	0.000
Zinc	m g/l	4	3	0.3~0.89
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	40	30	2.38~3.27
Total phosphorous	m g/l	3	2.25	0.0~0.08
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65	—	55.3~64.6
evening	dB (A)	—	—	—
night	dB (A)	55	—	46.8~54.8

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (GUANGZHOU) CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Power generation facility	120	90	102	500	375	5	120	90	20

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	—	—	—
Suspended Solids (SS)	m g/l	—	—	—
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	60	—	56~59
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

In the atmospheric survey, Nox exceeded the self-regulation values.
We are implementing measures to comply with the voluntary standard values.

TOTO (FUJIAN) CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	180	150.0	9.5~31.0	50	42.0	<3~38	30	25.0	<4.9~8.5
Boiler	400	340	20~70	100	85	<3	30	25	<1

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	9.0	8.5	7.6
Biochemical Oxygen Demand (BOD)	m g/l	40	34.0	13
Chemical Oxygen Demand (COD)	m g/l	110	93.0	57
Suspended Solids (SS)	m g/l	120	102.0	1
n-hexane extract (paraffinum liquidum)	m g/l	10	0.8	0.2
Copper	m g/l	1.0	—	0.0
Zinc	m g/l	4	—	0.2
Total chromium	m g/l	0	—	0.0020
Total nitrogen	m g/l	40	—	8.10
Total phosphorous	m g/l	3	—	0.21
Cadmium and its compounds	m g/l	≤0.07	≤0.06	0.00030
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65	60.0	55.5~60.0
evening	dB (A)	—	—	—
night	dB (A)	55	53.0	47.3~52.3

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (SHANGHAI) CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6.5~9.5	6.5~8.0	7.6
Biochemical Oxygen Demand (BOD)	m g/l	300	270	76
Chemical Oxygen Demand (COD)	m g/l	500.0	500.0	196.0
Suspended Solids (SS)	m g/l	400	360	12
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	8	7.2	1.8
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	65	—	58~63
evening	dB (A)	—	—	—
night	dB (A)	55	—	51~53

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TAIWAN TOTO CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	30	30	4~21	20	20	3~12	50	50	1~2

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6 ~ 9	6.9
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	100	100	3.1
Suspended Solids (SS)	m g/l	50	50	5.1
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	67	67	56.8
afternoon	dB (A)	-	-	-
evening	dB (A)	57	57	50.9
night	dB (A)	52	52	46.2

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

Regulated substances	Unit	Regulatory value	Own standard	Measured value
smelly substances		10	—	Not detected

TOTO VIETNAM CO.LTD(HUNG YEN Branch)

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	850	850	2.0~7.0	500	500	2.0~6.7	200	200	<12~15

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6 ~ 9	6 ~ 9	7.6
Biochemical Oxygen Demand (BOD)	m g/l	30	300	5.5
Chemical Oxygen Demand (COD)	m g/l	75	350	20
Suspended Solids (SS)	m g/l	50	200	<4.75
n-hexane extract (paraffinum liquidum)	m g/l	5	4.05	<1
Copper	m g/l	2	1.62	<0.0015
Zinc	m g/l	3	2.43	<0.0784
Total chromium	m g/l	0.2	0.162	<0.003
Total nitrogen	m g/l	20	60	7.7
Total phosphorous	m g/l	4	15	0.08
Cadmium and its compounds	m g/l	0.05	0.0405	<0.0007
Cyanogen compound	m g/l	0.07	0.0567	<0.005
Lead and its compound	m g/l	0.1	0.081	<0.0008
Hexavalent chromium compound	m g/l	0.05	0.0405	<0.003

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration>

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO VIETNAM CO.LTD(Dong Anh Branch)

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	850	850	11.4~24.3	500	500	4.3~21.5	200	200	8.6~16.9

<Water quality related >

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	6~9	6~9	6.5
Biochemical Oxygen Demand (BOD)	m g/l	30	240	3.8
Chemical Oxygen Demand (COD)	m g/l	75	350	14.3
Suspended Solids (SS)	m g/l	50	200	15.0
n-hexane extract (paraffinum liquidum)	m g/l	5	4.5	<1
Copper	m g/l	2	1.62	0.001
Zinc	m g/l	3	2.43	0.200
Total chromium	m g/l	0.2	0.162	0.006
Total nitrogen	m g/l	20	40	2.825
Total phosphorous	m g/l	4	5	0.1
Cadmium and its compounds	m g/l	0.05	0.0405	0.001
Cyanogen compound	m g/l	0.07	0.0567	0.004
Lead and its compound	m g/l	0.1	0.081	0.009
Hexavalent chromium compound	m g/l	0.05	0.0405	0.004

<Noise>

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	—	—	—
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration>

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO MALAYSIA SDN.BHD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Power generation facility	—	—	—	—	—	—	—	—	—

<Water quality related > No result for year 2020. Analysis schedule (1 every 3 years)□

Item	Unit	Regulatory value	Own standard	Measured value
PH (hydrogen-ion concentration)	—	5.5 ~ 9	5.4 ~ 8.1	5.7
Biochemical Oxygen Demand (BOD)	m g/l	40	36	7.2
Chemical Oxygen Demand (COD)	m g/l	200	180	15.2
Suspended Solids (SS)	m g/l	100	90	8.3
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	1	0.9	0.0
Zinc	m g/l	2	1.8	0.7
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	20	18	0.3
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	0.02	0.018	—
Cyanogen compound	m g/l	0.1	0.09	—
Lead and its compound	m g/l	0.5	0.45	—
Hexavalent chromium compound	m g/l	0.05	0.045	0.0

<Noise> * No measurement in 2022.Next measurement: September 2024

	Unit	Regulatory value	Own standard	Measured value
morning	dB (A)	70	63	—
afternoon	dB (A)	-	-	—
evening	dB (A)	-	-	—
night	dB (A)	60	54	—

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO INDIA INDUSTRIES PVT. LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	50	25	6.7~9.3	100	25	<2.0	150	100	10.7~12.3
Drying machine	50	25	<2.0	100	25	<2.0	150	100	11
Power generation facility	50	25	<2.0~13.0	100	40	1.3~16.7	150	100	7.5~41.0

<Water quality related >

Item	Unit	Regulatory	Own	Measured
PH (hydrogen-ion concentration)	—	6.5 ~ 8.5	6.5 ~ 8.0	7.3
Biochemical Oxygen Demand (BOD)	m g/l	30	20	<5
Chemical Oxygen Demand (COD)	m g/l	100	70	14
Suspended Solids (SS)	m g/l	100	60	13.7
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	2	1	<0.05
Zinc	m g/l	5	3	1.79
Total chromium	m g/l	2	1	<0.2
Total nitrogen	m g/l	50	25	<5
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	2	1	<0.2
Cyanogen compound	m g/l	0.2	0.1	<0.05
Lead and its compound	m g/l	<0.1	<0.1	<0.1
Hexavalent chromium compound	m g/l	1	<0.5	<0.02

<Noise>

	Unit	Regulatory	Own	Measured
morning	dB (A)	75	70	57.8~70.2
afternoon	dB (A)	75	70	51.8~70.8
evening	dB (A)	75	70	47.4~59.2
night	dB (A)	75	70	54.2~59.8

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO Germany GmbH

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
No applicable facility	—	—	—	—	—	—	—	—	—

<Water quality related *Not applicable

Item	Unit	Regulatory	Own	Measured
PH (hydrogen-ion concentration)	—	—	—	—
Biochemical Oxygen Demand (BOD)	m g/l	—	—	—
Chemical Oxygen Demand (COD)	m g/l	—	—	—
Suspended Solids (SS)	m g/l	—	—	—
n-hexane extract (paraffinum liquidum)	m g/l	—	—	—
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise> *Not applicable

	Unit	Regulatory	Own	Measured
morning	dB (A)	—	—	—
afternoon	dB (A)	—	—	—
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable

TOTO (THAILAND) CO., LTD.

<Atmosphere related>

Facility type	NOx (ppm)			SOx (m ³ N/h)			Dust (g/m ³ N)		
	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value	Regulatory value	Own standard	Measured value
Firing furnace	200	100	1.2~18.6	60	30	<2.0	320	160	—
Drying machine	200	100	1.1~9.0	60	30	<2.0	320	160	—

<Water quality related >

Item	Unit	Regulatory	Own	Measured
PH (hydrogen-ion concentration)	—	5.5 ~ 9	5.5 ~ 9	8.2
Biochemical Oxygen Demand (BOD)	m g/l	≤ 20	≤ 20	<2
Chemical Oxygen Demand (COD)	m g/l	≤ 120	≤ 120	8
Suspended Solids (SS)	m g/l	≤ 50	≤ 50	<5
n-hexane extract (paraffinum liquidum)	m g/l	≤ 5	≤ 5	<3
Copper	m g/l	—	—	—
Zinc	m g/l	—	—	—
Total chromium	m g/l	—	—	—
Total nitrogen	m g/l	—	—	—
Total phosphorous	m g/l	—	—	—
Cadmium and its compounds	m g/l	—	—	—
Cyanogen compound	m g/l	—	—	—
Lead and its compound	m g/l	—	—	—
Hexavalent chromium compound	m g/l	—	—	—

<Noise>

	Unit	Regulatory	Own	Measured
morning	dB (A)	—	—	—
afternoon	dB (A)	85.0	85.0	69.9~84.4
evening	dB (A)	—	—	—
night	dB (A)	—	—	—

<Vibration> *Not applicable

	Unit	Regulatory value	Own standard	Measured value
afternoon	dB	—	—	—
night	dB	—	—	—

<Odor>

*Not applicable