

# เอกสารแนบ 4

เอกสารการตรวจวัดคุณภาพสิ่งแวดล้อม



# ENVIRONMENTAL MEASUREMENTS CO., LTD.

5/45 Baan Klang Krung Biz Town, Soi Srinagarindra 46/1 (Pramote), NONG BON Sub-district, PRAWET District, BANGKOK 10250

Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 26/01/2023 Analytical Date : 27/01-06/02/2023  
Sample Type : Waste water Report Date : 07/02/2023  
Customer Code : JP 023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	7.0	6.5	6.8	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	229	4.8	12	20
Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	282	37	15	30
Total Dissolved Solids	mg/L	Dried at 180 °C	<2.5	378	594	734	500*
Settleable Solids	mL/L	Volumetric Method	<0.1	<0.1	<0.1	<0.1	0.5
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	<0.30	0.39	<0.30	<0.30	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	41	3.8	5.6	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	16	<2.0	2.5	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	2.2 x 10 <sup>7</sup>	7.0 x 10 <sup>4</sup>	2.4 x 10 <sup>3</sup>	-
Analysis No.				WW 0104	WW 0105	WW 0106	
Sampling Time				14:01	13:54	14:18	
Sample Condition				Grey Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: Test Tech

: Tap water of Total Dissolved Solids 196 mg/L

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public

Analyst

Laboratory Manager



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 26/01/2023 Analytical Date : 27/01-06/02/2023  
Sample Type : Swimming Pool Report Date : 07/02/2023  
Customer Code : JP-023-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.8	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.71	0.6-1.0
Chloride <sup>2)</sup>	mg/L as Cl <sup>-</sup>	Argentometric Method	<0.02	1,850	600
Alkalinity <sup>2)</sup>	mg/L as CaCO <sub>3</sub>	Titration Method	<0.50	95	80-100
Calcium Hardness <sup>2)</sup>	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric Method	<1	75	250-600
Cyanuric acid <sup>2)</sup>	mg/L	Colorimetric Method	<2	10	30-60
Ammonia <sup>2)</sup>	mg/L as NH <sub>3</sub>	Distillation & Titrimetric Method	<0.10	0.23	20
Nitrate <sup>2)</sup>	mg/L as NO <sub>3</sub> <sup>-</sup>	Cadmium Reduction Method	<0.01	6.8	50
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	10
<i>Staphylococcus aureus</i> <sup>2)</sup>	/100ml	Membrane Filtration Method	Not Detected	Not Detected	Not Detected
<i>Pseudomonas aeruginosa</i> <sup>2)</sup>	/100ml	Membrane Filtration Method	Not Detected	Not Detected	Not Detected
Analysis No.				WW 0107	
Sampling Time				13:40	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: Test Tech



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Sample Date : 26/01/2023 Analytical Date : 27/01-06/02/2023  
Sample Type : Swimming Pool Report Date : 07/02/2023  
Customer Code : JP-023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.8	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.77	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	MPN Method	<1.8	Not detected	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.8	Not detected	Not detected
Analysis No.				WW 0107	
Sampling Time				13:40	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: Test Tech

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10250 Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 26/01/2023 Analytical Date : 28/01-01/02/2023  
Sample Type : Drinking Water (Ice) Report Date : 02/01/2023  
Customer Code : JP-023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Belga bar Floor 32	Belga Kitchen (IC-F3-201 Floor 32)	
Standard plate count <sup>2)</sup>	CFU/ml	Pour Plate Method	<1.1	<1.1	<1.1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected	Not detected
Analysis No.				WW 1458	WW 1459	
Sampling Time				14:06	14:14	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: Test Tech



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Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 26/01/2023 Analytical Date : 28/01-01/02/2023  
Sample Type : Drinking Water (Ice) Report Date : 02/01/2023  
Customer Code : JP-023-1-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Room Service (IC-F3-01 Floor 2)	ห้องอาหาร Canteen (Bon Bon)	
Standard plate count <sup>2)</sup>	CFU/ml	MPN Method	<1.1	<1.1	<1.1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected	Not detected
Analysis No.				WW 0110	WW 0111	
Sampling Time				13:26	13:31	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: Test Tech

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 28/02/2023 Analytical Date : 01-07/03/2023  
Sample Type : Waste water Report Date : 10/03/2023  
Customer Code : JP 023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.8	5.8	6.9	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	372	5.7	7.5	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	364	38	12	30
Total Dissolved Solids	mg/L	Dried at 103-105 °C	<2.5	424	580	556	500*
Settleable Solids	ml/L	Volumetric Method	<0.1	<0.1	<0.1	<0.1	0.5
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	<0.30	0.47	<0.30	<0.30	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	42	4.2	4.9	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	42	8.7	2.7	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	2.4 x 10 <sup>7</sup>	5.4 x 10 <sup>4</sup>	2.4 x 10 <sup>4</sup>	-
Analysis No.				WW 0333	WW 0334	WW 0335	
Sampling Time				14:42	14:36	14:27	
Sample Condition				Black Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: Test Tech

: Total Dissolved Solids for Tap water 260 mg/L

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public

Analyst

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 28/02/2023 Analytical Date : 01-03/03/2023  
Sample Type : Swimming Pool Report Date : 04/03/2023  
Customer Code : JP 023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.8	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	1.0	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	MPN Method	<1	<1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.8	Not detected	Not detected
Analysis No.				WW 0336	
Sampling Time				14:12	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: Test Tech

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10250

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 28/02/2023 Analytical Date : 01-10/03/2023  
Sample Type : Drinking Water Report Date : 13/03/2023  
Customer Code : JP-023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				ICE Floor 27	Canteen room 2006	
Colour, Odour	-	Sensory Test	-			Not detected
Turbidity	NTU	Nephelometric	<0.01	0.78	0.05	5
pH	-	Electrometric	-	6.2	7.2	6.5-9
Total Solids	mg/L	Dried at 103-105 °C	<2.5	22	245	-
Chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric	<0.10	<0.10	<0.10	250
Total Hardness	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric	<1.0	<1.0	116	500
Nitrate-Nitrogen <sup>2)</sup>	mg/L as NO <sub>3</sub> -N	Cadmium Reduction	<0.05	<0.05	0.92	50
Sulfate <sup>2)</sup>	mg/L as SO <sub>4</sub> <sup>2-</sup>	Turbidimetric	<5.00	<5.00	32.81	1000
Arsenic (As) <sup>2)</sup>	mg/L	Hydride Generation, AAS	<0.0020	<0.0020	<0.0020	0.01
Barium (Ba) <sup>2)</sup>	mg/L	Direct Aspiration, AAS	<0.02	<0.02	0.06	1.7
Cadmium (Cd) <sup>2)</sup>	mg/L	In-house method:TE-03	<0.002	<0.002	<0.002	0.03
Chromium (Cr) <sup>2)</sup>	mg/L	Direct Aspiration, AAS	<0.01	<0.10	<0.01	0.05
Copper (Cu) <sup>2)</sup>	mg/L	Direct Aspiration, AAS	<0.01	<0.01	<0.01	1
Iron (Fe) <sup>2)</sup>	mg/L	Phenanthroline Method	<0.10	<0.10	<0.10	0.3
Lead (Pb) <sup>2)</sup>	mg/L	Direct Aspiration, AAS	<0.01	<0.01	<0.01	0.01
Manganese (Mn) <sup>2)</sup>	mg/L	Persulfate	<0.04	<0.04	<0.04	0.1
Mercury (Hg) <sup>2)</sup>	mg/L	Cold Vapor, AAS	<0.0010	<0.0010	<0.0010	0.001
Selenium (Se) <sup>2)</sup>	mg/L	Hydride Generation	<0.0005	<0.0005	<0.005	0.01
Silver (Ag) <sup>2)</sup>	mg/L	Direct Aspiration, AAS	<0.01	<0.01	<0.01	0.005
Zinc (Zn) <sup>2)</sup>	mg/L	Direct Aspiration, AAS	<0.01	0.02	0.01	4
Aluminum (Al) <sup>2)</sup>	mg/L	Direct Aspiration, AAS	<0.05	<0.05	0.05	0.2
Phenol <sup>2)</sup>	mg/L	Direct Photometric	<0.001	<0.001	<0.001	-
Cyanide <sup>2)</sup>	mg/L as CN <sup>-</sup>	Direct Photometric	<0.005	<0.005	<0.005	0.07
Analysis No.				WW 0337	WW 0338	
Sampling Time				14:03	13:28	
Sample Condition				Clear	Clear *	

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Analyst

Laboratory Manager

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 28/02/2023 Analytical Date : 01-10/03/2023  
Sample Type : Drinking Water Report Date : 13/03/2023  
Customer Code : JP-023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				ICE Floor 27	Canteen room 2006	
Residual Chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric	<0.10	<0.10	<0.10	0.6-1.1
Alkylbenzene Sulphonate <sup>2)</sup>	mg/L	Colorimetric Method	<0.10	<0.10	<0.10	-
Fluoride <sup>2)</sup>	mg/L as F	Distillation, SPADNS	<0.30	<0.30	0.35	1.5
Total Bacteria <sup>2)</sup>	CFU/ml	MPN Method	<1.1	3.5 x 10 <sup>4</sup>	Not detected	Not detected
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	MPN/100ml	MPN Method, Detection	<1.1	Not detected	Not detected	Not detected
<i>Staphylococcus aureus</i> <sup>2)</sup>	/100ml	Membrane Filtration	ND	Not detected	Not detected	Not detected
<i>Salmonella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration	ND	Not detected	Not detected	Not detected
<i>Clostridium perfringens</i> <sup>2)</sup>	/100ml	Membrane Filtration	ND	Not detected	Not detected	Not detected
Analysis No.				WW 0337	WW 0338	
Sampling Time				14:03	13:28	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: Test Tech

: ND = Not detected

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 28/02/2023 Analytical Date : 01-09/03/2023  
Sample Type : Tap Water Report Date : 09/03/2023  
Customer Code : JP 023-2-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Shower Water (Room 2006)	
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected
Analysis No.				WW 0339	
Sampling Time				13:53	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: Test Tech



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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/03/2023 Analytical Date : 21/03-11/04/2023  
Sample Type : Waste water Report Date : 11/04/2023  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.8	6.9	7.0	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	245	10	11	20
Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	170	18	21	30
Total Dissolved Solids	mg/L	Dried at 180 °C	<2.5	300	395	420	500*
Settleable Solids	mL/L	Volumetric Method	<0.1	<0.1	<0.1	<0.1	0.5
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	<0.30	0.45	<0.30	<0.30	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	32	5.6	11	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	8.6	5.2	<2.0	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	2.4 x 10 <sup>7</sup>	<1.8	1.1 x 10 <sup>4</sup>	-
Analysis No.				WW 0757	WW 0758	WW 0759	
Sampling Time				14:40	14:45	15:00	
Sample Condition				Grey Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: Test Tech

: Tap water of Total Dissolved Solids 240 mg/L

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/03/2023 Analytical Date : 21-31/03/2023  
Sample Type : Swimming Pool Report Date : 31/03/2023  
Customer Code : JP-023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.6	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.66	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	MPN Method	<1.8	Not detected	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.8	Not detected	Not detected
Analysis No.				WW 0760	
Sampling Time				14:15	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: Test Tech

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Analyst

Laboratory Manager



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10250 Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/03/2023 Analytical Date : 26-29/03/2023  
Sample Type : Drinking Water Report Date : 03/04/2023  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Canteen floor 6	Voila Main Kitchen Floor 2	
Total Viable Count <sup>2)</sup>	CFU/ml	MPN Method	<1.1	<1.1	<1.1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	MPN/100ml	MPN Method, Detection	<1.1	Not detected	Not detected	Not detected
<i>Staphylococcus aureus</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	-
<i>Salmonella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	-
<i>Clostridium perfringens</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected	Not detected
Analysis No.				WW 0721	WW 0722	
Sampling Time				14:31	14:49	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: Test Tech

Analyst

Laboratory Manager



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/03/2023 Analytical Date : 21-31/03/2023  
Sample Type : Tap Water Report Date : 31/03/2023  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Jacucci (Room No. 3016)	
pH	-	Electrometric Method	-	6.0	6.5-8.5
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	1.7	0.2-2.0
Total Bacteria <sup>2)</sup>	CFU/100ml	MPN Method	<1.1	<1.1	500
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	Not detected
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected
Analysis No.				WW 0724	
Sampling Time				13:40	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: Test Tech

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Analyst

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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/03/2023 Analytical Date : 21-31/03/2023  
Sample Type : Tap Water Report Date : 31/03/2023  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Spa Water Room Red Rice Floor 9	
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected
Analysis No.				WW 0723	
Sampling Time				14:09	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: Test Tech



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 20/03/2023 Analytical Date : 21-31/03/2023  
Sample Type : Cooling Water Report Date : 31/03/2023  
Customer Code : JP 023-3-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Cooling Water	
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.8	Not detected	-
<i>Legionella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration Method	Not detected	Not detected	Not detected
Analysis No.				WW 0720	
Sampling Time				13:33	
Sample Condition				Clear, Yellow	

Regulatory Standard : Announcement of the department of health (Thailand), Practice for the control of legionella bacteria in cooling towers, January 2001

: <sup>2)</sup> Subcontract: Test Tech

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Analyst

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 21/04/2023 Analytical Date : 24/04-05/05/2023  
Sample Type : Waste water Report Date : 08/05/2023  
Customer Code : JP 023-4-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.5	6.7	6.7	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	240	5.0	12	20
Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	175	20	22	30
Total Dissolved Solids	mg/L	Dried at 180 °C	<2.5	290	392	416	500*
Settleable Solids	mL/L	Volumetric Method	<0.1	<0.1	<0.1	<0.1	0.5
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	<0.30	0.47	<0.30	<0.30	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	35	5.6	10	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	9.0	7.5	<2.0	20
Residue Chlorine	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	<0.10	<0.10	<0.10	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	2.4 x 10 <sup>7</sup>	<1.8	1.1 x 10 <sup>4</sup>	-
Analysis No.				WW 0716	WW 0717	WW 0718	
Sampling Time				15:29	15:24	15:36	
Sample Condition				Grey Sediment	Yellow Sediment	Yellow Sediment	

Regulatory Standard: Announcement of the Ministry of Science Technology and Environment Subject: Establishing Control Standards Drainage from certain types and sizes of buildings

: <sup>2)</sup> Subcontract: Test Tech

: Tap water of Total Dissolved Solids 250 mg/L

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public



Analyst

Laboratory Manager

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## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 21/04/2023 Analytical Date : 26-28/04/2023  
Sample Type : Drinking Water (Ice) Report Date : 02/05/2023  
Customer Code : JP-023-4-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Pool Bar Floor 9	Banquet Kitchen (IC-F7-01 Floor 7)	
Standard plate count <sup>2)</sup>	CFU/ml	Pour Plate Method	<1.1	<1.1	<1.1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected	Not detected
Analysis No.				WW 0725	WW 0726	
Sampling Time				14:05	14:16	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: Test Tech

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Tel: 0-2716-3506-7

Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 21/04/2023 Analytical Date : 26-28/04/2023  
Sample Type : Drinking Water (Ice) Report Date : 02/05/2023  
Customer Code : JP-023-4-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Club Kitchen (IC-F31-01 Floor 31)	Machine Room Service Floor 2	
Standard plate count <sup>2)</sup>	CFU/ml	MPN Method	<1.1	<1.1	<1.1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected	Not detected
Analysis No.				WW 0727	WW 0728	
Sampling Time				14:29	14:47	
Sample Condition				Clear	Clear	

Regulatory Standard : World Health Organization Recommendation Criteria for Drinking Water Quality, 2013

: <sup>2)</sup> Subcontract: Test Tech

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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 21/04/2023 Analytical Date : 24-28/04/2023  
Sample Type : Swimming Pool Report Date : 02/05/2023  
Customer Code : JP-023-4-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.8	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.70	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	MPN Method	<1.8	Not detected	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.8	Not detected	Not detected
Analysis No.				WW 0719	
Sampling Time				14:01	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: Test Tech

Analyst

Laboratory Manager



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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 30/05/2023 Analytical Date : 30/05-12/06/2023  
Sample Type : Tap Water Report Date : 15/06/2023  
Customer Code : JP 023-5-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Shower Water (Room 1217)	
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	Not detected
Standard plate count <sup>2)</sup>	CFU/ml	Pour Plate Method	<1.1	<1.1	500
<i>Legionella</i> spp. <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected
Analysis No.				WW 1076	
Sampling Time				13:44	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: Test Tech

Analyst

Laboratory Manager

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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 30/05/2023 Analytical Date : 30/05-12/06/2023  
Sample Type : Tap Water Report Date : 15/06/2023  
Customer Code : JP 023-5-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				น้ำตกหน้าโรงแรม	
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
Analysis No.				WW 1077	
Sampling Time				13:44	
Sample Condition				Clear	

Regulatory Standard : Criteria to determine the quality of tap water Metropolitan Waterworks Authority, 2017

: <sup>2)</sup> Subcontract: Test Tech

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Analyst

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Tel: 0-2716-3506-7 Fax: 0-2716-3507

## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 30/05/2023 Analytical Date : 31/05-06/06/2023  
Sample Type : Swimming Pool Report Date : 12/06/2023  
Customer Code : JP-023-5-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.7	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.93	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	MPN Method	<1.8	<1.8	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	10
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.8	<1.8	-
<i>E. coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.8	Not detected	Not detected
Analysis No.				WW 1076	
Sampling Time				13:50	
Sample Condition				Clear	

Regulatory Standard : Ministry of Health (Thailand), Swimming pool business control or other similar businesses, 2007

: <sup>2)</sup> Subcontract: Test Tech

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