

## เอกสารแนบ 4

เอกสารผลการตรวจวัดคุณภาพสิ่งแวดล้อม



# ENVIRONMENTAL MEASUREMENTS CO., LTD.

5/45 Baan Klang Krung Biz Town, Sol 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** : 27/07/2023  
**Sample Type** : Waste water  
**Analytical Date** : 28/07-06/08/2023  
**Report Date** : 06/08/2023  
**Customer Code** : JP 023-7-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.9	7.1	7.0	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	541	29	5.0	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	250	30	25	30
Total Dissolved Solids	mg/L	Dried at 103-105 °C	<2.5	486	422	424	500*
Settleable Solids	m/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	4.0	<0.30	<0.30	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	49	21	26	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	22	<2.0	<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	1.0 x 10 <sup>7</sup>	3.6 x 10 <sup>5</sup>	<1.8	-
Analysis No.				WW 1779	WW 1780	WW 1781	
Sampling Time				13:35	13:40	13:15	
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

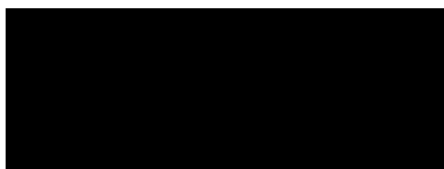
: <sup>2)</sup> Subcontract: Test Tech

: 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



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** : 31/08/2023 **Analytical Date** : 01-12/09/2023  
**Sample Type** : Waste water **Report Date** : 13/09/2023  
**Customer Code** : JP 023-8-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.6	6.9	7.0	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	750	31	7.0	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	258	32	28	30
Total Dissolved Solids	mg/L	Dried at 103-105 °C	<2.5	454	388	526	500*
Settleable Solids	m/L	Volumetric Method	<0.1	<0.1	<0.1	<0.1	0.5
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	<1.0	<1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	53	23	26	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	42	7.5	8.8	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	1.4 x 10 <sup>7</sup>	4.6 x 10 <sup>5</sup>	<1.8	-
Analysis No.				WW 1779	WW 1780	WW 1781	
Sampling Time				13:07	13:05	12:56	
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

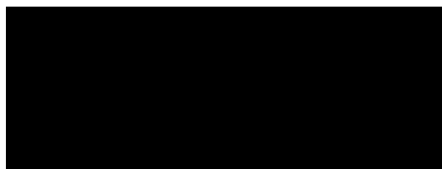
: <sup>2)</sup> Subcontract: Test Tech

: Total Dissolved Solids for Tap water 280 mg/L

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public



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 : 13/09/2023 Analytical Date : 14-23/09/2023  
Sample Type : Waste water Report Date : 23/09/2023  
Customer Code : JP 023-9-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.6	6.6	6.8	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	611	9.0	20	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	372	29	10	30
Total Dissolved Solids	mg/L	Dried at 103-105 °C	<2.5	366	412	398	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	<1.0	1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	47	11	11	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	12	6.0	5.0	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	2.1 x 10 <sup>6</sup>	<1.8	1.1 x 10 <sup>5</sup>	-
Analysis No.				WW 2106	WW 2107	WW 2108	
Sampling Time				13:15	13:25	13:35	
Sample Condition				Black	Yellow	Yellow	
				Sediment	Sediment	Sediment	

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

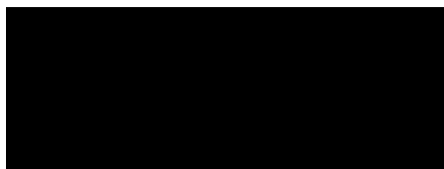
: <sup>2)</sup> Subcontract: Test Tech

: Total Dissolved Solids for Tap water 280 mg/L

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public



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 : 09/10/2023 Analytical Date : 10-17/10/2023  
Sample Type : Waste water Report Date : 18/10/2023  
Customer Code : JP 023-10-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.7	6.6	6.7	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	586	7.0	13	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	396	30	14	30
Total Dissolved Solids	mg/L	Dried at 103-105 °C	<2.5	328	410	412	500*
Settleable Solids	m/L	Volumetric Method	<0.1	<0.1	<0.1	<0.1	0.5
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	<1.0	1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	50	14	10	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	10	6.7	6.0	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>6</sup>	<1.8	1.3 x 10 <sup>5</sup>	-
Analysis No.				WW 2106	WW 2107	WW 2108	
Sampling Time				14:57	14:52	14:45	
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 198 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 : 09/11/2023 Analytical Date : 10-22/11/2023  
Sample Type : Waste water Report Date : 23/11/2023  
Customer Code : JP 023-11-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.4	6.2	6.2	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	256	3.9	<2.0	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	230	<2.5	9.2	30
Total Dissolved Solids	mg/L	Dried at 103-105 °C	<2.5	276	274	278	500*
Settleable Solids	m/L	Volumetric Method	<0.1	<2.5	<2.5	<2.5	0.5
Sulfide	mg/L as H <sub>2</sub> S	Iodometric Method	<1.0	<1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<0.01	48	5.6	7.0	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	28	5.5	<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>	9.2 x 10 <sup>4</sup>	<1.8	-
Analysis No.				WW 2384	WW 2385	WW 2386	
Sampling Time				14:24	14:19	14:13	
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 144 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 : 08/12/2023 Analytical Date : 11-19/12/2023  
Sample Type : Waste water Report Date : 25/12/2023  
Customer Code : JP 023-12-00

Parameter	Unit	Method of Analysis	Detection Limit	Result			Regulatory Standard
				St.1	St.2	St.3	
pH	-	Electrometric Method	-	6.6	6.1	6.8	5-9
BOD	mg/L	5 Day BOD Membrane Electrode	<2.0	654	<2.0	5.1	20
Total Suspended Solids	mg/L	Dried at 103-105 °C	<2.5	180	4.2	7.2	30
Total Dissolved Solids	mg/L	Dried at 103-105 °C	<2.5	288	334	374	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	<1.0	<1.0	<1.0	<1.0	1.0
TKN <sup>2)</sup>	mg/L as N	Macro-Kjeldahl Method	<1.5	45	14	<1.5	35
Oil & Grease	mg/L	Partition - gravimetric method	<2.0	23	10	16	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	>160,000	1.8	490	-
Analysis No.				WW 2648	WW 2649	WW 2650	
Sampling Time				14:15	14:20	14:10	
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

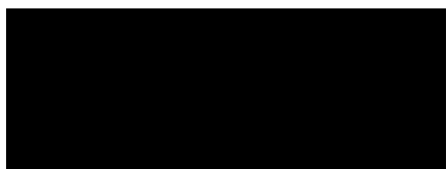
: <sup>2)</sup> Subcontract: UAE

: Total Dissolved Solids for Tap water 222 mg/L

St.1 = Equalization Tank

St.2 = Clear Water Tank

St.3 = Discharged to the public



Analyst



Laboratory Manager



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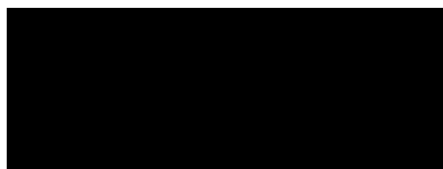
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 27/07/2023 Analytical Date : 28/07-06/08/2023  
Sample Type : Swimming Pool Report Date : 06/08/2023  
Customer Code : JP-023-7-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.2	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.68	0.6-1.0
Chloride <sup>2)</sup>	mg/L as Cl <sup>-</sup>	Argentometric Method	<0.02	1,900	600
Alkalinity <sup>2)</sup>	mg/L as CaCO <sub>3</sub>	Titration Method	<0.50	90	80-100
Calcium Hardness <sup>2)</sup>	mg/L as CaCO <sub>3</sub>	EDTA Titrimetric Method	<1	78	250-600
Cyanuric acid <sup>2)</sup>	mg/L	Colorimetric Method	<2	6.0	30-60
Ammonia <sup>2)</sup>	mg/L as NH <sub>3</sub>	Distillation & Titrimetric Method	<0.10	0.41	20
Nitrate <sup>2)</sup>	mg/L as NO <sub>3</sub> <sup>-</sup>	Cadmium Reduction Method	<0.01	28	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 1782	
Sampling Time				14:05	
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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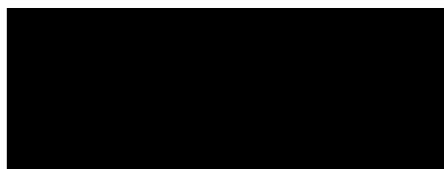
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 27/07/2023 Analytical Date : 28/07-06/08/2023  
Sample Type : Swimming Pool Report Date : 06/08/2023  
Customer Code : JP-023-7-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.2	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.68	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				14:05	
Sample Condition				Clear	

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

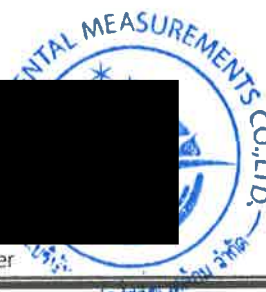
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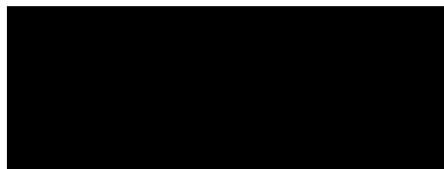
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 31/08/2023 Analytical Date : 01-09/09/2023  
Sample Type : Swimming Pool Report Date : 20/09/2023  
Customer Code : JP-023-8-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	8.0	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.84	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 1782	
Sampling Time				13:46	
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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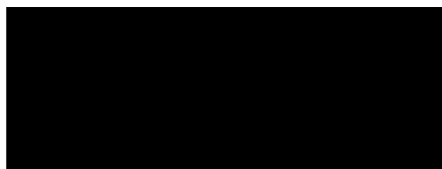
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 13/09/2023 Analytical Date : 14-16/09/2023  
Sample Type : Swimming Pool Report Date : 17/09/2023  
Customer Code : JP-023-9-00

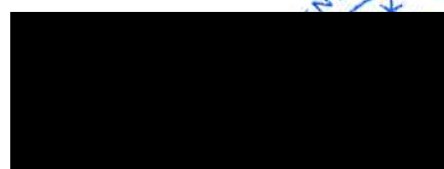
Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.4	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.80	0.6-1.0
Total Bacteria <sup>2)</sup>	CFU/100ml	MPN Method	<1.8	Not detected	-
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 2109	
Sampling Time				13:48	
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

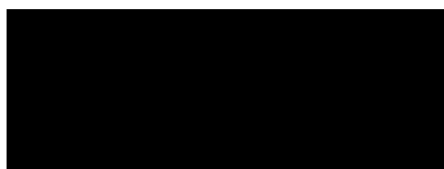
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 09/10/2023 Analytical Date : 10-16/10/2023  
Sample Type : Swimming Pool Report Date : 18/10/2023  
Customer Code : JP-023-10-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Swimming Pool	
pH	-	Electrometric Method	-	7.3	7.2-8.4
Free chlorine <sup>2)</sup>	mg/L as Cl <sub>2</sub>	DPD Colorimetric Method	<0.10	0.79	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 2109	
Sampling Time				13:18	
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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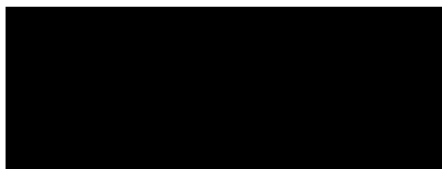
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 31/08/2023 Analytical Date : 01-12/09/2023  
Sample Type : Tap Water Report Date : 20/09/2023  
Customer Code : JP 023-8-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Shower Water (Room 1505)	
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	Not detected	Not detected
Standard plate count <sup>2)</sup>	CFU/ml	Pour Plate Method	<1.1	Not detected	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 1783	
Sampling Time				13:37	
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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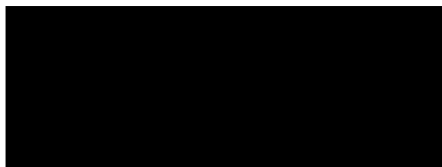
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 13/09/2023 Analytical Date : 14-17/09/2023  
Sample Type : Tap Water Report Date : 18/09/2023  
Customer Code : JP 023-9-00

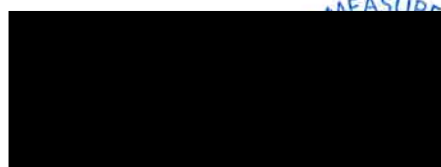
Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Spa Water Room Red Rice Floor 9	
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected
Analysis No.				WW 2111	
Sampling Time				13:49	
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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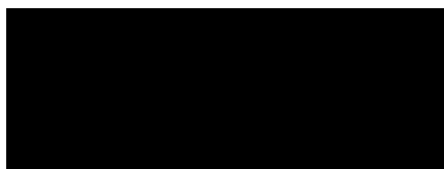
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 09/11/2023 Analytical Date : 10-24/11/2023  
Sample Type : Tap Water Report Date : 30/11/2023  
Customer Code : JP 023-11-00

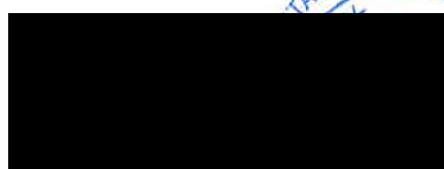
Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Shower Water (Room 1507)	
<i>Legionella spp.</i> <sup>2)</sup>	CFU/L	Membrane Filtration Technique	Not detected	Not detected	Not detected
<i>E. Coli</i> <sup>2)</sup>	/100ml	MPN Method, Detection	<1.1	Not detected	Not detected
Analysis No.				WW 2390	
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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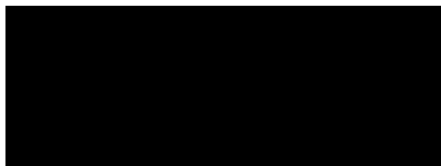
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 27/07/2023 Analytical Date : 28/07-04/08/2023  
Sample Type : Drinking Water (Ice) Report Date : 05/08/2023  
Customer Code : JP-023-7-00

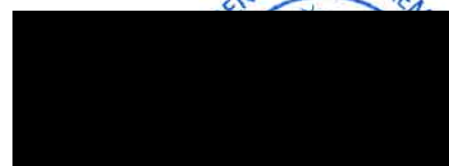
Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Banquet Kitchen Floor 7 (ICF-01)	Machine Room Service Floor 2 IC-F2-01	
Standard plate count <sup>2)</sup>	CFU/ml	Pour Plate Method	<1.1	Not detected	Not detected	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<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 1784	WW 1785	
Sampling Time				13:53	13:57	
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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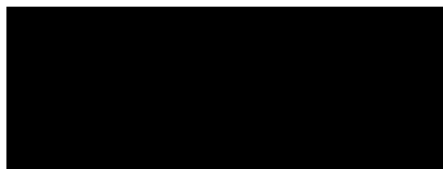
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 27/07/2023 Analytical Date : 28/07-04/08/2023  
Sample Type : Drinking Water (Ice) Report Date : 05/08/2023  
Customer Code : JP-023-7-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Le Macaron Floor G (IC-FG-01)	Belga Kitchen (IC-F32-01)	
Standard plate count <sup>2)</sup>	CFU/ml	MPN Method	<1.1	Not detected	Not detected	-
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 1786	WW 1787	
Sampling Time				14:04	14:19	
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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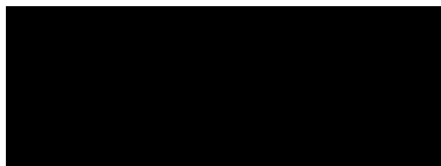
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 13/09/2023 Analytical Date : 14-20/09/2023  
Sample Type : Drinking Water Report Date : 21/09/2023  
Customer Code : JP 023-9-00

Parameter	Unit	Method of Analysis	Detection Limit	Result	Regulatory Standard
				Canteen floor 6	
Total Viable Count <sup>2)</sup>	CFU/ml	MPN Method	<1.1	<1.1	-
Total Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	-
Fecal Coliform Bacteria <sup>2)</sup>	MPN/100ml	MPN Method	<1.1	<1.1	Not detected
<i>E. coli</i> <sup>2)</sup>	MPN/100ml	MPN Method, Detection	<1.1	Not detected	Not detected
<i>Staphylococcus aureus</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	-
<i>Salmonella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	-
<i>Clostridium perfringens</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	Not detected	Not detected
Analysis No.				WW 2110	
Sampling Time				14:22	
Sample Condition				Clear	

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

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



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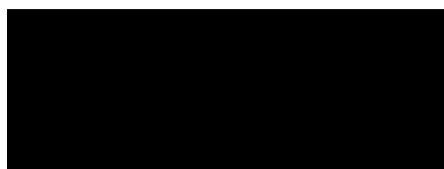
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 09/10/2023 Analytical Date : 10-16/10/2023  
Sample Type : Drinking Water (Ice) Report Date : 18/10/2023  
Customer Code : JP-023-10-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Banquet Kitchen Floor 7 (ICF-01)	Machine Room Service Floor 2 IC-F2-01	
Standard plate count <sup>2)</sup>	CFU/ml	Pour Plate Method	<1.1	Not detected	Not detected	-
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 2112	WW 2113	
Sampling Time				14:28	14:34	
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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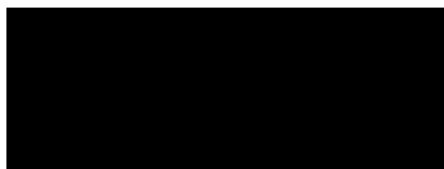
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 09/10/2023 Analytical Date : 10-16/10/2023  
Sample Type : Drinking Water (Ice) Report Date : 18/10/2023  
Customer Code : JP-023-10-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				Le Macaron Floor G (IC-FG-01)	Belga Kitchen (IC-F32-01)	
Standard plate count <sup>2)</sup>	CFU/ml	MPN Method	<1.1	Not detected	Not detected	-
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 2114	WW 2115	
Sampling Time				14:38	13:32	
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 : 09/11/2023 Analytical Date : 10-22/11/2023  
Sample Type : Drinking Water Report Date : 24/11/2023  
Customer Code : JP-023-11-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				IC-F3-01	Canteen	
Colour	Pt-Co	Visual Comparison	<1.0	<1.0	<1.0	15
Odour	-	Sensory Test	-	Not detected	Not detected	Not detected
Turbidity	NTU	Nephelometric	<0.01	0.52	0.03	5
pH	-	Electrometric	-	6.0	6.4	6.5-9
Total Solids	mg/L	Dried at 103-105 °C	<2.5	17	114	-
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	4.0	88	500
Nitrate-Nitrogen <sup>2)</sup>	mg/L as NO <sub>3</sub> -N	Cadmium Reduction	<0.05	<0.05	0.34	50
Sulfate <sup>2)</sup>	mg/L as SO <sub>4</sub> <sup>2-</sup>	Turbidimetric	<5.00	<5.00	29	1,000
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	<0.02	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	<0.01	<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	<0.0005	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	<0.01	0.02	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	-
Analysis No.				WW 2388	WW 2389	
Sampling Time				13:25	13:54	
Sample Condition				Clear	Clear	

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## ANALYSIS REPORT

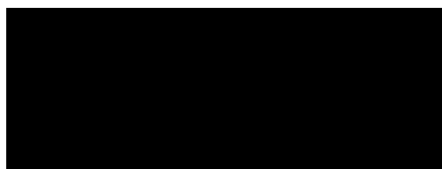
Customer Name : Softel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 09/11/2023 Analytical Date : 10-22/11/2023  
Sample Type : Drinking Water Report Date : 24/11/2023  
Customer Code : JP-023-11-00

Parameter	Unit	Method of Analysis	Detection Limit	Result		Regulatory Standard
				IC-F3-01	Canteen	
Cyanide <sup>2)</sup>	mg/L as CN <sup>-</sup>	Direct Photometric	<0.005	<0.005	<0.005	0.07
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 <sup>-</sup>	Distillation, SPADNS	<0.30	<0.30	<0.30	1.5
Total Bacteria <sup>2)</sup>	CFU/ml	MPN Method	<1.1	<1.1	<1.1	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	Not detected	Not detected	Not detected	Not detected
<i>Salmonella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration	Not detected	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 2388	WW 2389	
Sampling Time				13:25	13:54	
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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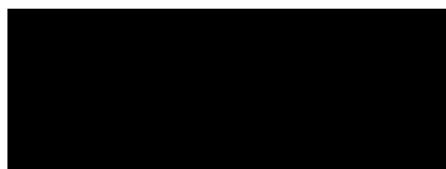
## ANALYSIS REPORT

Customer Name : Sofitel Bangkok Sukhumvit  
Address : 189 Sukhumvit Road Klong Toei Nuea Watthana Bangkok 10110  
Sample Date : 13/09/2023 Analytical Date : 14-1709/2023  
Sample Type : Cooling Water Report Date : 18/09/2023  
Customer Code : JP 023-9-00

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	<1.8	-
<i>Legionella spp.</i> <sup>2)</sup>	/100ml	Membrane Filtration Method	Not detected	Not detected	Not detected
Analysis No.				WW 2116	
Sampling Time				13:25	
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



Analyst



Laboratory Manager



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