



Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19/04 - 02/05/2023

Report Date : 03/05/2023

Report No. : R09883/66

Parameters	Unit	Method	TW08559 /66	TW08560 /66	TW08561 /66	Standard ^a
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	7.7	7.5	7.5	6.5-8.5
Turbidity [#]	NTU	SM 2017 (2130 B)	0.62	0.78	0.95	5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	319	316	317	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	191	190	190	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	73	72	72	300
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	36	36	38	250
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	< 0.10	< 0.10	< 0.10	0.3
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	< 0.04	< 0.04	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2017 (4500-NO ₃ ⁻ E)	0.90	1.21	1.30	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	37.32	33.71	32.81	250
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

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03/05/2023

Technical Manager

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			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	not found	not found
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

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Report No. : R09885/66

Parameters	Unit	Method	TW08562 /66	TW08563 /66	Standard ^a
			Guest Room Cold Water (North A 313)	Guest Room Cold Water (South 318)	
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	7.5	7.7	6.5-8.5
Turbidity [#]	NTU	SM 2017 (2130 B)	0.86	1.66	5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	317	318	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	190	191	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	72	72	300
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	38	36	250
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	0.11	< 0.10	0.3
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	< 0.04	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2017 (4500-NO ₃ ⁻ E)	1.29	1.32	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	34.62	31.30	250
Sample Condition		Observation	Clear	Clear	

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Report No. : R09886/66

Parameters	Unit	Method	TW08562 /66	TW08563 /66	Standard ^a
			Guest Room Cold Water (North A 313)	Guest Room Cold Water (South 318)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

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Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

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Report No. : R09887/66

Parameters	Unit	Method	TW08564 /66	TW08565 /66	Standard ^a
			Guest Room Hot Water (North A 313)	Guest Room Hot Water (South A318)	
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	7.6	7.5	6.5-8.5
Turbidity [#]	NTU	SM 2017 (2130 B)	0.65	0.57	5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	316	315	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	190	189	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	72	72	300
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	36	36	250
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	0.11	< 0.10	0.3
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	< 0.04	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2017 (4500-NO ₃ ⁻ E)	1.33	1.37	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	33.41	36.42	250
Sample Condition		Observation	Clear	Clear	

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Sample Type : Usage Water

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Report No. : R09888/66

Parameters	Unit	Method	TW08564 /66	TW08565 /66	Standard ^a
			Guest Room Hot Water (North A 313)	Guest Room Hot Water (South A318)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

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Report No. : R09889/66

Parameters	Unit	Method	TW08566 /66	Standard ^a
			Cooling Water	(Cooling Water)
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	8.3	8.5 - 9.5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	927	< 2500
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	556	< 2000
* P-Alkalinity	mg/L as CaCO ₃	Titration	5	-
* M-Alkalinity	mg/L as CaCO ₃	Titration	75	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	160	< 100
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	136	< 400
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	< 0.10	< 1.0
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	-
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	127	-
* Silica	mg/L as SiO ₂	SM 2017 (4500-SiO ₂ C)	17.42	-
* Total Phosphorus	mg/L as P	Stannous Chloride	0.06	-
Sample Condition		Observation	Clear	

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5. a : เกณฑ์ควบคุมคุณภาพน้ำในระบบต่าง ๆ



Analyst

03/05/2023

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TESTING
NO.0001

Analysis/Test Report

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Report No. : R09890/66

Parameters	Unit	Method	TW08566 /66
			Cooling Water
<i>Legionella spp.</i>	CFU/L	ISO 11731 : 2017	not detected
Sample Condition		Observation	Clear



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Report No. : R09891/66

Parameters	Unit	Method	TW08567 /66	^a Standard
			Chilled Water	(Chilled Water)
* pH (25°C)	-	Based on SM 2017 (4500-H ⁺ B)	10.3	7.5 - 9.5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	930	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	558	-
* P-Alkalinity	mg/L as CaCO ₃	Titration	150	-
* M-Alkalinity	mg/L as CaCO ₃	Titration	250	-
* Total Hardness	mg/L as CaCO ₃	SM 2017 (2340 C)	6	-
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	44	-
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	0.20	< 1.0
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	-
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	40.94	-
Silica [#]	mg/L as SiO ₂	SM 2017 (4500-SiO ₂ C)	5.31	-
* Nitrite	mg/L as NO ₂ ⁻	SM 2017 (4500-NO ₂ ⁻ B)	42.04	500 - 1000
Sample Condition		Observation	Clear	

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Parameters	Unit	Method	TW08559 /66	TW08560 /66	TW08561 /66	Standard ^a
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	7.7	7.5	7.5	6.5-8.5
Turbidity [#]	NTU	SM 2017 (2130 B)	0.62	0.78	0.95	5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	319	316	317	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	191	190	190	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	73	72	72	300
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	36	36	38	250
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	< 0.10	< 0.10	< 0.10	0.3
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	< 0.04	< 0.04	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2017 (4500-NO ₃ ⁻ E)	0.90	1.21	1.30	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	37.32	33.71	32.81	250
Sample Condition		Observation	Clear	Clear	Clear	

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			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	not found	not found
Sample Condition		Observation	Clear	Clear	Clear	

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			Guest Room Cold Water (North A 313)	Guest Room Cold Water (South 318)	
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	7.5	7.7	6.5-8.5
Turbidity [#]	NTU	SM 2017 (2130 B)	0.86	1.66	5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	317	318	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	190	191	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	72	72	300
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	38	36	250
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	0.11	< 0.10	0.3
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	< 0.04	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2017 (4500-NO ₃ ⁻ E)	1.29	1.32	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	34.62	31.30	250
Sample Condition		Observation	Clear	Clear	

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Parameters	Unit	Method	TW08562 /66	TW08563 /66	Standard ^a
			Guest Room Cold Water (North A 313)	Guest Room Cold Water (South 318)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

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Parameters	Unit	Method	TW08564 /66	TW08565 /66	Standard ^a
			Guest Room Hot Water (North A 313)	Guest Room Hot Water (South A318)	
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	7.6	7.5	6.5-8.5
Turbidity [#]	NTU	SM 2017 (2130 B)	0.65	0.57	5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	316	315	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	190	189	1000
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	72	72	300
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	36	36	250
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	0.11	< 0.10	0.3
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	< 0.04	0.1
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2017 (4500-NO ₃ ⁻ E)	1.33	1.37	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	33.41	36.42	250
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

2. Test marked "# " on this report are Accredited International Standard ISO/IEC 17025 by BLA-DSS.

3. Test marked "@ " on this report are Accredited International Standard ISO/IEC 17025 by BLQS-DMS.

4. Test marked " * " on this report are not included in scope of Accreditation

5. a : Specification for Water Supply Quality of Metropolitan Waterworks Authority.



Analyst

03/05/2023

Technical Manager

03/05/2023

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Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19/04 - 02/05/2023

Report Date : 03/05/2023

Report No. : R09888/66

Parameters	Unit	Method	TW08564 /66	TW08565 /66	Standard ^a
			Guest Room Hot Water (North A 313)	Guest Room Hot Water (South A318)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

2. a : Specification for Water Supply Quality of Metropolitan Waterworks Authority.

3. Coliform Bacteria < 1.1 MPN/100 mL is meaning not found



Analyst

03/05/2023

Technical Manager

03/05/2023

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Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19/04 - 02/05/2023

Report Date : 03/05/2023

Report No. : R09889/66

Parameters	Unit	Method	TW08566 /66	Standard ^a
			Cooling Water	(Cooling Water)
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	8.3	8.5 - 9.5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	927	< 2500
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	556	< 2000
* P-Alkalinity	mg/L as CaCO ₃	Titration	5	-
* M-Alkalinity	mg/L as CaCO ₃	Titration	75	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	160	< 100
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	136	< 400
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	< 0.10	< 1.0
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	-
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	127	-
* Silica	mg/L as SiO ₂	SM 2017 (4500-SiO ₂ C)	17.42	-
* Total Phosphorus	mg/L as P	Stannous Chloride	0.06	-
Sample Condition		Observation	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

2. Test marked "# " on this report are Accredited International Standard ISO/IEC 17025 by BLA-DSS.

3. Test marked "@ " on this report are Accredited International Standard ISO/IEC 17025 by BLQS-DMSc.

4. Test marked " * " on this report are not included in scope of Accreditation

5. a : เกณฑ์ควบคุมคุณภาพน้ำในระบบต่าง ๆ



Analyst

03/05/2023

Technical Manager

03/05/2023

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Test report shall not be reproduced except in full, without written approved of the laboratory.

TESTING
NO.0001

Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19/04 - 02/05/2023

Report Date : 03/05/2023

Report No. : R09890/66

Parameters	Unit	Method	TW08566 /66
			Cooling Water
<i>Legionella spp.</i>	CFU/L	ISO 11731 : 2017	not detected
Sample Condition		Observation	Clear



Analyst

03/05/2023



Technical Manager

03/05/2023

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Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Usage Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19/04 - 02/05/2023

Report Date : 03/05/2023

Report No. : R09891/66

Parameters	Unit	Method	TW08567 /66	^a Standard
			Chilled Water	(Chilled Water)
* pH (25°C)	-	Based on SM 2017 (4500-H ⁺ B)	10.3	7.5 - 9.5
Conductivity [#]	uS/cm	SM 2017 (2510 B)	930	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	558	-
* P-Alkalinity	mg/L as CaCO ₃	Titration	150	-
* M-Alkalinity	mg/L as CaCO ₃	Titration	250	-
* Total Hardness	mg/L as CaCO ₃	SM 2017 (2340 C)	6	-
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	44	-
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	0.20	< 1.0
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	-
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	40.94	-
Silica [#]	mg/L as SiO ₂	SM 2017 (4500-SiO ₂ C)	5.31	-
* Nitrite	mg/L as NO ₂ ⁻	SM 2017 (4500-NO ₂ ⁻ B)	42.04	500 - 1000
Sample Condition		Observation	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

2. Test marked "# " on this report are Accredited International Standard ISO/IEC 17025 by BLA-DSS.

3. Test marked "@ " on this report are Accredited International Standard ISO/IEC 17025 by BLQS-DMSc.

4. Test marked " * " on this report are not included in scope of Accreditation

5. a : เกณฑ์ควบคุมคุณภาพน้ำในระบบต่าง ๆ (Chilled Water)



Analyst

03/05/2023

Technical Manager

03/05/2023

Reported results refer to the sample as received only.

Test report shall not be reproduced except in full, without written approved of the laboratory.



Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Drinking Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19 - 25/04/2023

Report Date : 27/04/2023

Report No. : R09448/66

Parameters	Unit	Method	TW08568 /66	TW08569 /66	TW08570 /66	Standard ^a
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 313)	
pH (25°C) [#]	-	Based on SM 2017 (4500-H ⁺ B)	7.4	7.4	7.4	6.5-8.5
Turbidity [#]	NTU	SM 2017 (2130 B)	< 0.50	0.51	0.68	≤ 5.0
Conductivity [#]	uS/cm	SM 2017 (2510 B)	314	316	313	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	188	190	188	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2017 (2340 C)	70	71	67	≤ 100.0
Chloride [@]	mg/L as Cl ⁻	SM 2017 (4500-Cl ⁻ B)	36	36	36	≤ 250.0
Total Iron [#]	mg/L as Fe	SM 2017 (3500-Fe B)	< 0.10	< 0.10	< 0.10	≤ 0.3
Manganese [#]	mg/L	SM 2017 (3500-Mn B)	< 0.04	< 0.04	< 0.04	≤ 0.05
Nitrate Nitrogen [#]	mg/L as NO ₃ -N	SM 2017 (4500-NO ₃ ⁻ E)	0.27	0.22	0.28	≤ 4.0
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2017 (4500-SO ₄ ²⁻ E)	34.92	32.81	34.92	≤ 250.0
Sample Condition		Observation	Clear	Clear	Clear	

- Remark :
1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017
 2. Test marked "# " on this report are Accredited International Standard ISO/IEC 17025 by BLA-DSS.
 3. Test marked "@ " on this report are Accredited International Standard ISO/IEC 17025 by BLQS-DMSc.
 4. Test marked " * " on this report are not included in scope of Accreditation
 5. a : Notification of the Ministry of Public Health, No. 284 , B.E. 2547 (2004) on "Drinking Water in Sealed Container" (No.5) (Included No. 135 , B.E. 2534 (1991) and No. 61, B.E. 2524 (1981))

Analyst

27/04/2023

Technical Manager

27/04/2023

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Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Drinking Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19 - 25/04/2023

Report Date : 27/04/2023

Report No. : R09449/66

Parameters	Unit	Method	TW08568 /66	TW08569 /66	TW08570 /66	Standard ^a
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 313)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	< 1.1	< 2.2
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	not found	negative
Sample Condition			Clear	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

2. a : Notification of the Ministry of Public Health, No. 284 , B.E. 2547 (2004) on "Drinking Water in Sealed Container" (No.5)
(Included No. 135 , B.E. 2534 (1991) and No. 61, B.E. 2524 (1981))



Analyst

27/04/2023



Technical Manager

27/04/2023

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Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Ice

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19 - 24/04/2023

Report Date : 26/04/2023

Report No. : R09322/66

Parameters	Unit	Method	TW08575 /66	TW08576 /66	Standard ^a
			Canteen (Cube)	Banquet (Flake)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	< 2.2
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 20172. a : Notification of the Ministry of Public Health, No. 284 , B.E. 2547 (2004) on "Drinking Water in Sealed Container" (No.5)
(Included No. 135 , B.E. 2534 (1991) and No. 61, B.E. 2524 (1981))

Analyst

26/04/2023



Technical Manager

26/04/2023

Reported results refer to the sample as received only.

Test report shall not be reproduced except in full, without written approved of the laboratory.

Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Ice

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19 - 24/04/2023

Report Date : 26/04/2023

Report No. : R09323/66

Parameters	Unit	Method	TW08577 /66	TW08578 /66	Standard ^a
			Flames	Oasis Kitchen (Flake)	
Coliform Bacteria	MPN/100 mL	SM 2017 (9221 B)	< 1.1	< 1.1	< 2.2
<i>E. coli</i>	/100 mL	SM 2017 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 20172. a : Notification of the Ministry of Public Health, No. 284 , B.E. 2547 (2004) on "Drinking Water in Sealed Container" (No.5)
(Included No. 135 , B.E. 2534 (1991) and No. 61, B.E. 2524 (1981))

Analyst

26/04/2023

Technical Manager

26/04/2023

Reported results refer to the sample as received only.

Test report shall not be reproduced except in full, without written approved of the laboratory.

Analysis/Test Report

Customer Name : Centara Grand Mirage Beach Resort Pattaya

Address : 277 Moo 5, Naklua, Banglamung, Pattaya, Chonburi 20150, Thailand

Sampling Site : Centara Grand (Pattaya)

Sample Type : Waste Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : 19/04/2023

Sampling Time : 11:00 AM

Received Date : 19/04/2023

Analytical Date : 19 - 27/04/2023

Report Date : 28/04/2023

Report No. : R09531/66

Parameters	Unit	Method	TW08579 /66	Standard ^a
			Effluent	
pH	-	SM 2017 (4500-H ⁺ B)	6.7	-
BOD	mg/L	SM 2017 (5210 B, 4500-O G)	210	≤ 1000
Total Suspended Solids	mg/L	SM 2017 (2540 D)	76	-
Oil & Grease	mg/L	SM 2017 (5520 D)	41.7	-
Sample Condition		Observation	Light Yellow, Cloud	

Remark : 1. SM 2017 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017

2. a : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 22 (พ.ศ. 2544) เรื่อง กำหนดอัตราค่าบริการบำบัดน้ำเสียของระบบบำบัดน้ำเสียรวมเมืองพัทยา



Analyst

28/04/2023

Technical Manager

28/04/2023

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