



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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 26, 2026

Report Date : January 27, 2026

Report No. : R01839/69

Parameters	Unit	Method	TW00898 /69	TW00899 /69	TW00900 /69	Standard ^a
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.3	7.1	7.4	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	< 0.50	4
Conductivity [#]	uS/cm	SM 2023 (2510 B)	457	419	438	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	274	251	263	600
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	118	92	105	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	45	44	40	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.17	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	< 0.04	0.08
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	16.96	10.76	14.68	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	48.24	43.36	45.26	250
Sample Condition		Observation	Clear	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
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 : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

บริษัท เทสท์ เทค จำกัด

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Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

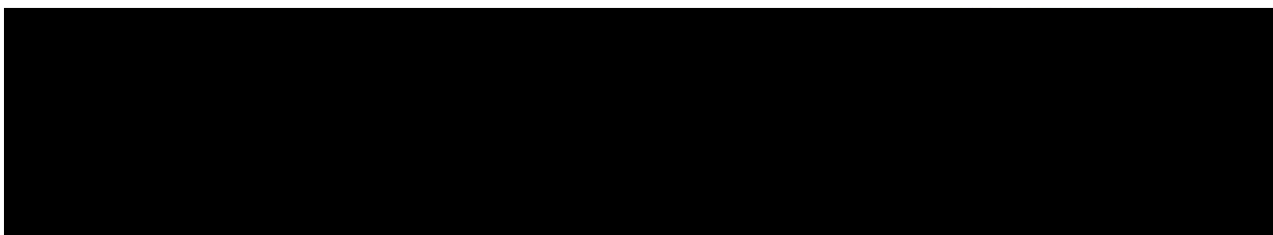
Analytical Date : January 14 - 26, 2026

Report No. : R01840/69

Parameters	Unit	Method	TW00898 /69	TW00899 /69	TW00900 /69	Standard ^a
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found	not found
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)



January 27, 2026

January 27, 2026

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Analysis/Test Report

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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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 26, 2026

Report Date : January 27, 2026

Report No. : R01841/69

Parameters	Unit	Method	TW00901 /69	TW00902 /69	Standard ^a
			Guest Room Cold Water (North A 231)	Guest Room Cold Water (North A 233)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.6	7.4	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	4
Conductivity [#]	uS/cm	SM 2023 (2510 B)	456	457	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	274	274	600
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	114	112	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	39	44	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	0.08
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	16.42	16.09	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	47.42	45.53	250
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

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-DMSQ.

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

5. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

บริษัท เทสท์ เทค จำกัด

Analyst

January 27, 2026

January 27, 2026

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Analysis/Test Report

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Sampling Site : Centara Grand (Pattaya)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01842/69

Parameters	Unit	Method	TW00901 /69	TW00902 /69	Standard ^a
			Guest Room Cold Water (North A 231)	Guest Room Cold Water (North A 233)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

Analyst

January 27, 2026

Technical Manager

January 27, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01843/69

Parameters	Unit	Method	TW00903 /69	TW00904 /69	Standard ^a
			Guest Room Hot Water (North A 231)	Guest Room Hot Water (North A 233)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.3	7.4	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	4
Conductivity [#]	uS/cm	SM 2023 (2510 B)	437	437	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	262	262	600
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	110	102	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	40	41	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	0.10	< 0.10	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	0.08
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	12.95	15.01	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	47.83	45.80	250
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

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5. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

Analyst

January 27, 2026

Technical Manager

January 27, 2026

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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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 26, 2026

Report Date : January 27, 2026

Report No. : R01844/69

Parameters	Unit	Method	TW00903 /69	TW00904 /69	Standard ^a
			Guest Room Hot Water (North A 231)	Guest Room Hot Water (North A 233)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

Analyst

January 27, 2026

January 27, 2026

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Sampling Site : Centara Grand (Pattaya)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01845/69

Parameters	Unit	Method	TW00905 /69	Standard ^a (Cooling Water)
			Cooling Water	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	8.7	8.5 - 9.5
Conductivity [#]	uS/cm	SM 2023 (2510 B)	2530	< 2500
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	1518	< 2000
* P-Alkalinity	mg/L as CaCO ₃	SM 2023 (2320 B)	10	-
* M-Alkalinity	mg/L as CaCO ₃	SM 2023 (2320 B)	220	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	510	< 100
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	340	< 400
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 1.0
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	-
* Sulfate	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	393	-
* Silica	mg/L as SiO ₂	SM 2023 (4500-SiO ₂ C)	67.24	-
* Total Phosphorus	mg/L as P	SM 2023 (4500-P D)	0.02	-
Sample Condition		Observation	Light Yellow, Clear	

- Remark :
1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
 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-DMSQ.
 4. Test marked "*" on this report are not included in scope of Accreditation
 5. a : เกณฑ์ควบคุมคุณภาพน้ำในระบบต่าง ๆ

Analyst

January 27, 2026

January 27, 2026

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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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 26, 2026

Report Date : January 27, 2026

Report No. : R01846/69

Parameters	Unit	Method	TW00905 /69
			Cooling Water
<i>Legionella spp.</i>	/L	ISO 11731 : 2017	not detected
Sample Condition		Observation	Light Yellow, Clear

บริษัท เทสท์ เทค จำกัด

Analyst

January 27, 2026

Technical Manager

January 27, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01847/69

Parameters	Unit	Method	TW00906 /69	Standard ^a (Chilled Water)
			Chilled Water	
* pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	10.0	7.5 - 9.5
Conductivity [#]	uS/cm	SM 2023 (2510 B)	840	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	504	-
* P-Alkalinity	mg/L as CaCO ₃	SM 2023 (2320 B)	55	-
* M-Alkalinity	mg/L as CaCO ₃	SM 2023 (2320 B)	165	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	22	-
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	42	-
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 1.0
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	-
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	46.88	-
Silica [#]	mg/L as SiO ₂	SM 2023 (4500-SiO ₂ C)	3.88	-
* Nitrite	mg/L as NO ₂ ⁻	SM 2023 (4500-NO ₂ ⁻ B)	96.24	500 - 1000
Sample Condition		Observation	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
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

January 27, 2026

Technical Manager

January 27, 2026

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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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 20, 2026

Report Date : January 22, 2026

Report No. : R01544/69

Parameters	Unit	Method	TW00907 /69	TW00908 /69	TW00909 /69	Standard ^a
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 231)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.4	7.4	7.5	≤ 8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	< 0.50	≤ 4
Conductivity [#]	uS/cm	SM 2023 (2510 B)	439	440	662	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	108	114	2 *	≤ 100
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	41	38	1 *	-
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	< 0.10	-
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	< 0.04	≤ 0.08
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	14.14	13.59	0.46	≤ 50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	44.72	43.63	37.94	-
Total Dissolved Solids [#]	mg/L	SM 2023 (2540 C)	228	240	410	≤ 500
Sample Condition		Observation	Clear	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
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 : อ้างอิงตามประกาศกระทรวงสาธารณสุข ฉบับที่ 462 (พ.ศ. 2568) ออกตามความในพระราชบัญญัติอาหาร พ.ศ. 2522

เรื่อง น้ำบริโภคในภาชนะบรรจุปิดสนิท

บริษัท เทค จำกัด

Analyst

January 22, 2026

Technical Manager

January 22, 2026

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Analysis/Test Report

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

Sampling Site : Centara Grand (Pattaya)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 22, 2026

Sample Type : Drinking Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 20, 2026

Report No. : R01545/69

Parameters	Unit	Method	TW00907 /69	TW00908 /69	TW00909 /69	Standard ^a
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 231)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1	< 1.1
<i>E. coli</i>	MPN/100 mL	SM 2023 (9221 F, MPN)	not found	not found	not found	< 1.1
Sample Condition		Observation	Clear	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
2. a : อ้างอิงตามประกาศกระทรวงสาธารณสุข ฉบับที่ 462 (พ.ศ. 2568) ออกตามความในพระราชบัญญัติอาหาร พ.ศ. 2522 เรื่อง น้ำบริโภคในภาชนะบรรจุปิดสนิท
3. *E. coli* : not found เท่ากับ < 1.1 MPN/100 mL

Analyst

January 22, 2026

January 22, 2026

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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 : Swimming Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 19, 2026

Report Date : January 21, 2026

Report No. : R01363/69

Parameters	Unit	Method	TW00910 /69	TW00911 /69	Standard ^a
			Main Pool	Lab Pool	
pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	7.6	7.5	7.2-8.4
Residual Chlorine	mg/L as Cl ₂	SM 2023 (4500-Cl G)	0.81	0.96	0.6-1.0
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)

January 21, 2026

January 21, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 21, 2026

Sample Type : Swimming Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 19, 2026

Report No. : R01364/69

Parameters	Unit	Method	TW00910 /69	TW00911 /69	Standard ^a
			Main Pool	Lab Pool	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.8	< 1.8	< 10
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)

Analyst

January 21, 2026

Technical Manager

January 21, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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 : Swimming Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 19, 2026

Report Date : January 21, 2026

Report No. : R01365/69

Parameters	Unit	Method	TW00912 /69	TW00913 /69	Standard ^a
			Lazy Pool	18 th Flr Pool	
pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	7.7	7.6	7.2-8.4
Residual Chlorine	mg/L as Cl ₂	SM 2023 (4500-Cl G)	0.84	0.92	0.6-1.0
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)

Analyst

January 21, 2026

Technical Manager

January 21, 2026

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

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 21, 2026

Sample Type : Swimming Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 19, 2026

Report No. : R01366/69

Parameters	Unit	Method	TW00912 /69	TW00913 /69	Standard ^a
			Lazy Pool	18 th Flr Pool	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.8	< 1.8	< 10
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)

Analyst

January 21, 2026

Technical Manager

January 21, 2026

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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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 19, 2026

Report Date : January 21, 2026

Report No. : R01425/69

Parameters	Unit	Method	TW00914 /69	TW00915 /69	Standard ^a
			Canteen (Cube)	Banquet (Flake)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1
<i>E. coli</i>	MPN/100 mL	SM 2023 (9221 F, MPN)	not found	not found	< 1.1
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 20232. a : อ้างอิงตามประกาศกระทรวงสาธารณสุข ฉบับที่ 462 (พ.ศ. 2568) ออกตามความในพระราชบัญญัติอาหาร พ.ศ. 2522
เรื่อง น้ำบริโภคในภาชนะบรรจุปิดสนิท3. *E. coli* : not found เท่ากับ < 1.1 MPN/100 mL

Analyst

January 21, 2026

Technical Manager

January 21, 2026

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

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 19, 2026

Report Date : January 21, 2026

Report No. : R01426/69

Parameters	Unit	Method	TW00916 /69	TW00917 /69	Standard ^a
			Flames	Oasis Kitchen (Flake)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1
<i>E. coli</i>	MPN/100 mL	SM 2023 (9221 F, MPN)	not found	not found	< 1.1
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 20232. a : อ้างอิงตามประกาศกระทรวงสาธารณสุข ฉบับที่ 462 (พ.ศ. 2568) ออกตามความในพระราชบัญญัติอาหาร พ.ศ. 2522
เรื่อง น้ำบริโภคในภาชนะบรรจุปิดสนิท3. *E. coli* : not found เท่ากับ < 1.1 MPN/100 mL

บริษัท เทสท์ เทค จำกัด

Analyst

January 21, 2026

January 21, 2026

Reported results refer to the sample as received only.

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

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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 : Waste Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 21, 2026

Report Date : January 22, 2026

Report No. : R01547/69

Parameters	Unit	Method	TW00919 /69	Standard ^a
			Effluent	
pH	-	SM 2023 (4500-H ⁺ B)	7.4	-
BOD	mg/L	SM 2023 (5210 B, 4500-O G)	40	≤ 1000
Total Suspended Solids	mg/L	SM 2023 (2540 D)	30	-
Oil & Grease	mg/L	SM 2023 (5520 D)	3.6	-
Sample Condition		Observation	Light Yellow, Cloud	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

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



Analyst

January 22, 2026

Technical Manager

January 22, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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 : Sea Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 21, 2026

Report Date : January 22, 2026

Report No. : R01546/69

Parameters	Unit	Method	TW00918 /69
			Sea Water
Dissolved Oxygen	mg/L	DO - Meter	6.92
Total Suspended Solids	mg/L	Dried at 103 - 105 °C	< 1
Oil & Grease	mg/L	Soxhlet Extraction	< 3.0
Total Coliform Bacteria	MPN/100 mL	MPN	2.4×10^3
Temperature	°C	Laboratory and Field	29.6
Transparency	m	Secchi Disc	1.00
Sample Condition		Observation	Clear

บริษัท เทสท์ เทค จำกัด

Analyst

Technical Manager

January 22, 2026

January 22, 2026

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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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

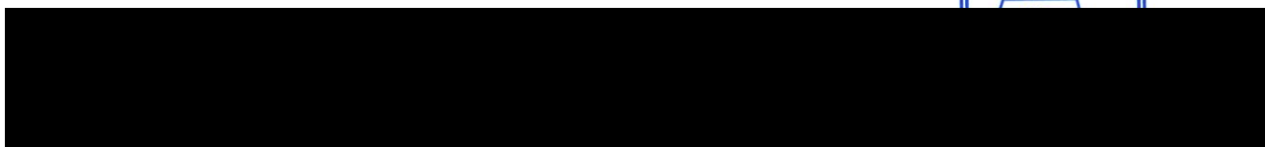
Analytical Date : January 14 - 26, 2026

Report Date : January 27, 2026

Report No. : R01839/69

Parameters	Unit	Method	TW00898 /69	TW00899 /69	TW00900 /69	Standard ^a
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.3	7.1	7.4	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	< 0.50	4
Conductivity [#]	uS/cm	SM 2023 (2510 B)	457	419	438	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	274	251	263	600
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	118	92	105	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	45	44	40	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.17	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	< 0.04	0.08
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	16.96	10.76	14.68	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	48.24	43.36	45.26	250
Sample Condition		Observation	Clear	Clear	Clear	

- Remark :
1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
 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 : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

Analyst
January 27, 2026Technical Manager
January 27, 2026

Reported results refer to the sample as received only.

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

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01840/69

Parameters	Unit	Method	TW00898 /69	TW00899 /69	TW00900 /69	Standard ^a
			Water in Storage Tank	Soft Water System (Main Point)	Hot Water System (Main Point)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found	not found
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

บริษัท เทสท์ เทค จำกัด

Analyst

January 27, 2026

Technical Manager

January 27, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01841/69

Parameters	Unit	Method	TW00901 /69	TW00902 /69	Standard ^a
			Guest Room Cold Water (North A 231)	Guest Room Cold Water (North A 233)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.6	7.4	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	4
Conductivity [#]	uS/cm	SM 2023 (2510 B)	456	457	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	274	274	600
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	114	112	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	39	44	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	0.08
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	16.42	16.09	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	47.42	45.53	250
Sample Condition		Observation	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
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-DMSO.
4. Test marked " * " on this report are not included in scope of Accreditation
5. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)



Analyst

January 27, 2026

Technical Manager

January 27, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01842/69

Parameters	Unit	Method	TW00901 /69	TW00902 /69	Standard ^a
			Guest Room Cold Water (North A 231)	Guest Room Cold Water (North A 233)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

บริษัท เทสท์ เทค จำกัด

Analyst

January 27, 2026

Technical Manager

January 27, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01843/69

Parameters	Unit	Method	TW00903 /69	TW00904 /69	Standard ^a
			Guest Room Hot Water (North A 231)	Guest Room Hot Water (North A 233)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.3	7.4	6.5-8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	4
Conductivity [#]	uS/cm	SM 2023 (2510 B)	437	437	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	262	262	600
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	110	102	300
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	40	41	250
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	0.10	< 0.10	0.3
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	0.08
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	12.95	15.01	50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	47.83	45.80	250
Sample Condition		Observation	Clear	Clear	

- Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
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-DMSO.
4. Test marked " * " on this report are not included in scope of Accreditation
5. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)



Analyst

January 27, 2026

Technical Manager

January 27, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01844/69

Parameters	Unit	Method	TW00903 /69	TW00904 /69	Standard ^a
			Guest Room Hot Water (North A 231)	Guest Room Hot Water (North A 233)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	not found
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	not found
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Specification for Water Supply Quality of Provincial Waterworks Authority (PWA)

Analyst

January 27, 2026

Technical Manager

January 27, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01845/69

Parameters	Unit	Method	TW00905 /69	^a Standard
			Cooling Water	(Cooling Water)
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	8.7	8.5 - 9.5
Conductivity [#]	uS/cm	SM 2023 (2510 B)	2530	< 2500
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	1518	< 2000
* P-Alkalinity	mg/L as CaCO ₃	SM 2023 (2320 B)	10	-
* M-Alkalinity	mg/L as CaCO ₃	SM 2023 (2320 B)	220	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	510	< 100
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	340	< 400
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 1.0
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	-
* Sulfate	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	393	-
* Silica	mg/L as SiO ₂	SM 2023 (4500-SiO ₂ C)	67.24	-
* Total Phosphorus	mg/L as P	SM 2023 (4500-P D)	0.02	-
Sample Condition		Observation	Light Yellow, Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

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

January 27, 2026

Technical Manager

January 27, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01846/69

Parameters	Unit	Method	TW00905 /69
			Cooling Water
<i>Legionella spp.</i>	/L	ISO 11731 : 2017	not detected
Sample Condition		Observation	Light Yellow, Clear



Analyst

January 27, 2026

Technical Manager

January 27, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

ISO/IEC 17025
Accreditation No. 1201/54TESTING
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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 27, 2026

Sample Type : Usage Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 26, 2026

Report No. : R01847/69

Parameters	Unit	Method	TW00906 /69	^a Standard
			Chilled Water	(Chilled Water)
* pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	10.0	7.5 - 9.5
Conductivity [#]	uS/cm	SM 2023 (2510 B)	840	-
* Dissolved Solids	mg/L as NaCl	Electrical Conductivity	504	-
* P-Alkalinity	mg/L as CaCO ₃	SM 2023 (2320 B)	55	-
* M-Alkalinity	mg/L as CaCO ₃	SM 2023 (2320 B)	165	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	22	-
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	42	-
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 1.0
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	-
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	46.88	-
Silica [#]	mg/L as SiO ₂	SM 2023 (4500-SiO ₂ C)	3.88	-
* Nitrite	mg/L as NO ₂ ⁻	SM 2023 (4500-NO ₂ ⁻ B)	96.24	500 - 1000
Sample Condition		Observation	Clear	

- Remark :
1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023
 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

January 27, 2026

Technical Manager

January 27, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025



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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 22, 2026

Sample Type : Drinking Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 20, 2026

Report No. : R01544/69

Parameters	Unit	Method	TW00907 /69	TW00908 /69	TW00909 /69	Standard ^a
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 231)	
pH (25°C) [#]	-	Based on SM 2023 (4500-H ⁺ B)	7.4	7.4	7.5	≤ 8.5
Turbidity [#]	NTU	SM 2023 (2130 B)	< 0.50	< 0.50	< 0.50	≤ 4
Conductivity [#]	uS/cm	SM 2023 (2510 B)	439	440	662	-
Total Hardness [@]	mg/L as CaCO ₃	SM 2023 (2340 C)	108	114	2 *	≤ 100
Chloride [@]	mg/L as Cl ⁻	SM 2023 (4500-Cl ⁻ B)	41	38	1 *	-
Total Iron [#]	mg/L as Fe	SM 2023 (3500-Fe B)	< 0.10	< 0.10	< 0.10	-
Manganese [#]	mg/L	SM 2023 (3500-Mn B)	< 0.04	< 0.04	< 0.04	≤ 0.08
Nitrate [#]	mg/L as NO ₃ ⁻	SM 2023 (4500-NO ₃ ⁻ E)	14.14	13.59	0.46	≤ 50
Sulfate [#]	mg/L as SO ₄ ²⁻	Based on SM 2023 (4500-SO ₄ ²⁻ E)	44.72	43.63	37.94	-
Total Dissolved Solids [#]	mg/L	SM 2023 (2540 C)	228	240	410	≤ 500
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

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-DMSQ.

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

5. a : อ้างอิงตามประกาศกระทรวงสาธารณสุข ฉบับที่ 462 (พ.ศ. 2568) ออกตามความในพระราชบัญญัติอาหาร พ.ศ. 2522

เรื่อง น้ำบริโภคในภาชนะบรรจุปิดสนิท



Analyst

January 22, 2026

Technical Manager

January 22, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025



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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 22, 2026

Sample Type : Drinking Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 20, 2026

Report No. : R01545/69

Parameters	Unit	Method	TW00907 /69	TW00908 /69	TW00909 /69	Standard ^a
			Drinking Water (Canteen)	Drinking Water (Oasis Kitchen)	Drinking Water (Guest Room 231)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1	< 1.1
<i>E. coli</i>	MPN/100 mL	SM 2023 (9221 F, MPN)	not found	not found	not found	< 1.1
Sample Condition		Observation	Clear	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 20232. a : อ้างอิงตามประกาศกระทรวงสาธารณสุข ฉบับที่ 462 (พ.ศ. 2568) ออกตามความในพระราชบัญญัติอาหาร พ.ศ. 2522
เรื่อง น้ำบริโภคในภาชนะบรรจุปิดสนิท3. *E. coli* : not found เท่ากับ < 1.1 MPN/100 mL

Analyst

January 22, 2026

Technical Manager

January 22, 2026

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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 : Swimming Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 19, 2026

Report Date : January 21, 2026

Report No. : R01363/69

Parameters	Unit	Method	TW00910 /69	TW00911 /69	Standard ^a
			Main Pool	Lab Pool	
pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	7.6	7.5	7.2-8.4
Residual Chlorine	mg/L as Cl ₂	SM 2023 (4500-Cl G)	0.81	0.96	0.6-1.0
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)



Analyst

January 21, 2026

Technical Manager

January 21, 2026

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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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 21, 2026

Sample Type : Swimming Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 19, 2026

Report No. : R01364/69

Parameters	Unit	Method	TW00910 /69	TW00911 /69	Standard ^a
			Main Pool	Lab Pool	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.8	< 1.8	< 10
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	negative
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)

Analyst

January 21, 2026

Technical Manager

January 21, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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 : Swimming Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 19, 2026

Report Date : January 21, 2026

Report No. : R01365/69

Parameters	Unit	Method	TW00912 /69	TW00913 /69	Standard ^a
			Lazy Pool	18 th Flr Pool	
pH (25°C)	-	Based on SM 2023 (4500-H ⁺ B)	7.7	7.6	7.2-8.4
Residual Chlorine	mg/L as Cl ₂	SM 2023 (4500-Cl G)	0.84	0.92	0.6-1.0
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)

บริษัท เทสท์ เทค จำกัด

Analyst

January 21, 2026

Technical Manager

January 21, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025



Accreditation No. 1201/54

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)

Sampling by : Test Tech Co., Ltd.

Sampling Date : January 14, 2026

Received Date : January 14, 2026

Report Date : January 21, 2026

Sample Type : Swimming Water

Sampling Method : Grab

Sampling Time : 11:00 AM

Analytical Date : January 14 - 19, 2026

Report No. : R01366/69

Parameters	Unit	Method	TW00912 /69	TW00913 /69	Standard ^a
			Lazy Pool	18 th Flr Pool	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.8	< 1.8	< 10
<i>E. coli</i>	/100 mL	SM 2023 (9221 F, Detection)	not found	not found	negative
Sample Condition			Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

2. a : Bangkok Metropolitan Administration published in the Royal Government Gazette, Vol.104 ,Part 205,dated October 14, B.E.2530 (1987)

Analyst

January 21, 2026

Technical Manager

January 21, 2026

Reported results refer to the sample as received only.

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 19, 2026

Report Date : January 21, 2026

Report No. : R01425/69

Parameters	Unit	Method	TW00914 /69	TW00915 /69	Standard ^a
			Canteen (Cube)	Banquet (Flake)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1
<i>E. coli</i>	MPN/100 mL	SM 2023 (9221 F, MPN)	not found	not found	< 1.1
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 20232. a : อ้างอิงตามประกาศกระทรวงสาธารณสุข ฉบับที่ 462 (พ.ศ. 2568) ออกตามความในพระราชบัญญัติอาหาร พ.ศ. 2522
เรื่อง น้ำบริโภคในภาชนะบรรจุปิดสนิท3. *E. coli* : not found เท่ากับ < 1.1 MPN/100 mL

บริษัท เทสท์ เทค จำกัด

Analyst

January 21, 2026

Technical Manager

January 21, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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 : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 19, 2026

Report Date : January 21, 2026

Report No. : R01426/69

Parameters	Unit	Method	TW00916 /69	TW00917 /69	Standard ^a
			Flames	Oasis Kitchen (Flake)	
Coliform Bacteria	MPN/100 mL	SM 2023 (9221 B)	< 1.1	< 1.1	< 1.1
<i>E. coli</i>	MPN/100 mL	SM 2023 (9221 F, MPN)	not found	not found	< 1.1
Sample Condition		Observation	Clear	Clear	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 20232. a : อ้างอิงตามประกาศกระทรวงสาธารณสุข ฉบับที่ 462 (พ.ศ. 2568) ออกตามความในพระราชบัญญัติอาหาร พ.ศ. 2522
เรื่อง น้ำบริโภคในภาชนะบรรจุปิดสนิท3. *E. coli* : not found เท่ากับ < 1.1 MPN/100 mL

บริษัท เทสท์ เทค จำกัด

Analyst

January 21, 2026

Technical Manager

January 21, 2026

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025

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 : Waste Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 21, 2026

Report Date : January 22, 2026

Report No. : R01547/69

Parameters	Unit	Method	TW00919 /69	Standard ^a
			Effluent	
pH	-	SM 2023 (4500-H ⁺ B)	7.4	-
BOD	mg/L	SM 2023 (5210 B, 4500-O G)	40	≤ 1000
Total Suspended Solids	mg/L	SM 2023 (2540 D)	30	-
Oil & Grease	mg/L	SM 2023 (5520 D)	3.6	-
Sample Condition		Observation	Light Yellow, Cloud	

Remark : 1. SM 2023 : Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 24th ed., 2023

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

บริษัท เทสท์ เทค จำกัด

Analyst

January 22, 2026

Technical Manager

January 22, 2026

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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 : Sea Water

Sampling by : Test Tech Co., Ltd.

Sampling Method : Grab

Sampling Date : January 14, 2026

Sampling Time : 11:00 AM

Received Date : January 14, 2026

Analytical Date : January 14 - 21, 2026

Report Date : January 22, 2026

Report No. : R01546/69

Parameters	Unit	Method	TW00918 /69
			Sea Water
Dissolved Oxygen	mg/L	DO - Meter	6.92
Total Suspended Solids	mg/L	Dried at 103 - 105 °C	< 1
Oil & Grease	mg/L	Soxhlet Extraction	< 3.0
Total Coliform Bacteria	MPN/100 mL	MPN	2.4×10^3
Temperature	°C	Laboratory and Field	29.6
Transparency	m	Secchi Disc	1.00
Sample Condition		Observation	Clear

บริษัท เทสท์ เทค จำกัด

January 22, 2026

January 22, 2026

Reported results refer to the sample as received only.

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The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025