

ภาคผนวกที่ 2

ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม



บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

SOUTHERN THAI CONSULTING CO.,LTD.

59/45 Moo 5 Srisoontorn, Talang, Phuket 83110 Tel. 0-7661-7668-9 Fax : 0-7661-7670

Request No. 6901-0029

Report No. W 6901-0065

TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6901-0074
SAMPLING DATE^{/3} : 06/01/2026 SAMPLING TIME^{/3} : 00.00 PM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST 3-176-3-0006)
TESTED DATE : 06-16/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C ^{/1}	-	Electrometric Method	6.57
BOD ₅ ^{/1}	mg/L	5-Day BOD Test, Azide modification Method	820
Total Suspended Solids	mg/L	Dried at 103-105 °C (Part 2540D)	720
Grease & Oil ^{/1}	mg/L	Liquid-Liquid, Partition-Gravimetric Method	176
Total Kjeldahl Nitrogen ^{/1}	mg/L	Macro-Kjeldahl, Titrimetric Method	70.00

PHYSICAL APPEARANCE
1. Sample : turbid, brown SS, smelling
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK
1.^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)
2.^{/2} : Out of accredited scope of private analysis laboratories 3.-176
3.^{/3} : Information received from customer

Examined by Panvisa Jinnrat

(MS.PANVISA JINRAT)

3-176-3-0004

19/01/2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน 3-176

Approved by [Signature]

(MRS PENNAPA CHANPEN)

3-176-3-0003

19/01/2026

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

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SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 06-16/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	INFLUENT
Fecal Coliform Bacteria ^{/1,2}	MPN/100 mL	MPN Test Method	9,200,000

PHYSICAL APPEARANCE

1. Sample : turbid, brown SS, smelling
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

ANALYSIS METHOD

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บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

19/01/2026

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SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6901-0075
SAMPLING DATE^{/3} : 06/01/2026 SAMPLING TIME^{/3} : 00.03 PM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 06-16/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C ^{/1}	-	Electrometric Method	7.35	5.5 - 9.0
BOD ₅ ^{/1}	mg/L	5-Day BOD Test, Azide modification Method	8.0	≤ 20
Total Suspended Solids	mg/L	Dried at 103-105 °C (Part 2540D)	16	≤ 30
Total Dissolved Solids	mg/L	Dried at 180 °C (Part 2540C)	452	≤ 1,000

PHYSICAL APPEARANCE

- Sample : yellowish, white SS
- Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

STANDARD

: ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567
เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร บางประเภท และบางขนาด (ประเภท ก)

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

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- ^{/2} : Out of accredited scope of private analysis laboratories ๖-176
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Examined by 

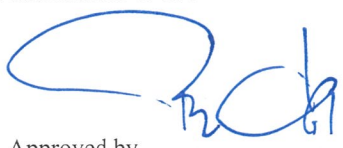
(MS.PANVISA JINRAT)

๖-176-๖-0004

๑๙ ๐๑ / ๖๖๖



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by 

(MRS PENNAPA CHANPEN)

๖-176-๖-0003

๑๙ ๐๑ / ๖๖๖

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บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

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Request No. 6901-0029

Report No. W 6901-0065

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 SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6901-0075
 SAMPLING DATE^{/3} : 06/01/2026 SAMPLING TIME^{/3} : 00.03 PM
 SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
 SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
 TESTED DATE : 06-16/01/2026 RECEIVED DATE : 06/01/2026
 FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Total Kjeldahl Nitrogen ^{/1}	mg/L	Macro-Kjeldahl, Titrimetric Method	2.52	≤ 35
Grease & Oil ^{/1}	mg/L	Liquid-Liquid, Partition-Gravimetric Method	ND	≤ 20
Sulfide ^{/1}	mg/L as S ²⁻	Iodometric Method	0.25	≤ 1
Settleable Solids ^{/1,2}	mL/L	Volumetric Method	ND	-
Fecal Coliform Bacteria ^{/1,2}	MPN/100 mL	MPN Test Method	ND	-

PHYSICAL APPEARANCE

1. Sample : yellowish, white SS
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

STANDARD

: ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567
 เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร บางประเภท และบางขนาด (ประเภท ก)

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

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- 2.^{/2} : Out of accredited scope of private analysis laboratories ๖.-176
- 3.^{/3} : Information received from customer
4. ND = Not Detected (ตรวจวัดไม่พบโดยวิธีทางห้องปฏิบัติการ)



ห้องปฏิบัติการวิเคราะห์เอกชน
 บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

19/01/2026

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SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6901-0363
SAMPLING DATE^{/3} : 06/01/2026 SAMPLING TIME^{/3} : 10.02 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 06-16/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	AERATION TANK
Dissolved Oxygen (DO) ^{/1,2}	mg/L	Membrane-Electrode Method	0.43
Mixed Liquor Suspended Solids ^{/1,2}	mg/L	Dried at 103-105 °C	4,070
Settled Sludge Volume (SV ₃₀) ^{/1,2}	mL/L	Volumetric Method	500

PHYSICAL APPEARANCE

1. Sample : turbid, brown SS
2. Container : Normal [PE 1.0 L]

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

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ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เช้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by 

(MRS PENNAPA CHANPEN)

19/01/2026

END OF REPORT

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ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6901-0085
SAMPLING DATE : 06/01/2026 SAMPLING TIME : 11.19 AM
SAMPLING CONDITION : Water Supply "Merchant Kitchen" SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 06-16/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	Water Supply "Merchant Kitchen"	STANDARD
pH at 25 ⁰ C	-	Electrometric Method	7.17	6.5-8.5
Total Dissolved Solids	mg/L	Dried at 180 ⁰ C (Part 2540C)	234	≤ 600

PHYSICAL APPEARANCE 1. Sample : clear

2. Container : normal [PE 2.0 L, G 0.25 L]

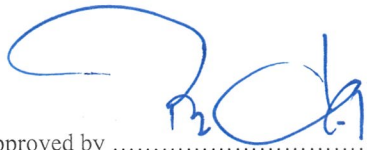
STANDARD มาตรฐานคุณภาพน้ำประปาของการประปาส่วนภูมิภาค พ.ศ.2567

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

Examined by 

(MS.PANVISA JINRAT) ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
๖-176-๖-0004 เลขทะเบียน ๖-176
19/01/2026



Approved by 

(MRS PENNAPA CHANPEN)
๖-176-๖-0003
19/01/2026

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TESTED DATE : 06-16/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	Water Supply "Merchant Kitchen"	STANDARD
Apparent color	Pt.Co	Spctrophotometric Method	0.08	≤ 15
Manganese	mg/L	Persulfate Method	ND	≤ 0.08
Chloride	mg/L	Argentometric Method	79.98	≤ 250
Hardness	mg/L as CaCO ₃	EDTA titrimetric Method	136	≤ 300
Iron	mg/L	Phenantholine Method	ND	≤ 0.3
Conductivity	μs/cm	Laboratory Method	383	-
Turbidity	NTU	Nephelometric Method	0.20	≤ 4
Sulfate ^{1/}	mg/L as SO ₄ ²⁻	Turbidimetric Method	4.95	≤ 250

PHYSICAL APPEARANCE 1. Sample : clear

2. Container : normal [PE 2.0 L, G 0.25 L]

STANDARD มาตรฐานคุณภาพน้ำประปาของการประปาส่วนภูมิภาค พ.ศ.2567

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK
1. ^{1/} ทดสอบโดย ห้องปฏิบัติการวิเคราะห์เอกชน บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด : เลขทะเบียน ว-003
2. ND = Not Detected (ตรวจวัดไม่พบโดยวิธีทางห้องปฏิบัติการ)



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซาท์เทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

19.01.2026

END OF REPORT

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ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6901-0086
SAMPLING DATE : 06/01/2026 SAMPLING TIME : 00.11 PM
SAMPLING CONDITION : SEA WATER 0.050 KM SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST ว-176-จ-0006)
TESTED DATE : 06-19/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.050 KM	STANDARD
pH at 25 ⁰ C	-	Electrometric Method	8.18	7.0 - 8.5
BOD ₅	mg/L	5-Day BOD Test, Azide modification Method	1.0	-
Total Suspended Solids	mg/L	Dried at 103-105 ⁰ C (Part 2540D)	16	*

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]

STANDARD : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ พ.ศ. 2564
เรื่องกำหนดมาตรฐานคุณภาพน้ำทะเล (ประเภทที่ 2 เพื่อการอนุรักษ์แหล่งปะการัง)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK 1. * มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมของค่าเฉลี่ย 1 วัน หรือ 1 เดือน หรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐานของค่าเฉลี่ยนั้น ๆ

Examined by Panvisa Jinrat

(MS.PANVISA JINRAT)

ว-176-ค-0004

น.ต. / นน



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ว-176

Approved by Pennapa Chanpen

(MRS PENNAPA CHANPEN)

ว-176-ค-0003

19/01/2026

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FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.050 KM	STANDARD
DO	mg/L	Membrane Electrode Method	6.72	≥ 6
Nitrate-Nitrogen	$\mu\text{g-N/L}$	Cadmium Reduction Method	620	≤ 20
Phosphate-Phosphorus	$\mu\text{g-P/L}$	Ascorbic Method	120	≤ 15
Salinity	ppt	Electrical Conductivity Method	19.10	D 10%

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]

STANDARD : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ พ.ศ. 2564
เรื่องกำหนดมาตรฐานคุณภาพน้ำทะเล (ประเภทที่ 2 เพื่อการอนุรักษ์แหล่งปะการัง)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

19/01/2026

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TEST REPORT

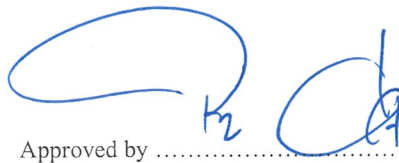
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TESTED DATE : 06-19/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.050 KM	STANDARD
Total Coliform Bacteria	MPN/100 mL	MPN Test Method	7,000	≤ 1,000
Fecal Coliform Bacteria ^{1/}	CFU/100 mL	Thermololrant (Fecal) coliforms	82.0	≤ 70
Membrane Filter Procedure (Part 9222(D))				

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]
STANDARD : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ พ.ศ. 2564
เรื่องกำหนดมาตรฐานคุณภาพน้ำทะเล (ประเภทที่ 2 เพื่อการอนุรักษ์แหล่งปะการัง)
ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023
REMARK 1. ^{1/} ทดสอบโดย ศูนย์บริการตรวจสอบและรับรองมาตรฐาน คณะวิทยาศาสตร์ มหาวิทยาลัยสงขลานครินทร์



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by 

(MRS PENNAPA CHANPEN)

19/01/2026

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บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

SOUTHERN THAI CONSULTING CO.,LTD.

59/45 Moo 5 Srisoontorn, Talang, Phuket 83110 Tel. 0-7661-7668-9 Fax : 0-7661-7670

Request No. 6901-0029

Report No. W 6901-0065

TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6901-0087
SAMPLING DATE : 06/01/2026 SAMPLING TIME : 00.13 PM
SAMPLING CONDITION : SEA WATER 0.010 KM SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 06-19/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.010 KM	STANDARD
pH at 25 ⁰ C	-	Electrometric Method	8.20	7.0 - 8.5
BOD ₅	mg/L	5-Day BOD Test, Azide modification Method	2.0	-
Total Suspended Solids	mg/L	Dried at 103-105 ⁰ C (Part 2540D)	19	*

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]

STANDARD : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ พ.ศ. 2564
เรื่องกำหนดมาตรฐานคุณภาพน้ำทะเล (ประเภทที่ 2 เพื่อการอนุรักษ์แหล่งปะการัง)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK 1. * มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมของค่าเฉลี่ย 1 วัน หรือ 1 เดือน หรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐาน
ของค่าเฉลี่ยนั้น ๆ

Examined by Panvisa Jinrat

(MS.PANVISA JINRAT)

๖-176-๖-0004

19/๐๑/๒๕๖๖



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by Pennapa Chanpen

(MRS PENNAPA CHANPEN)

๖-176-๖-0003

...../...../.....

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6901-0087
SAMPLING DATE : 06/01/2026 SAMPLING TIME : 00.13 PM
SAMPLING CONDITION : SEA WATER 0.010 KM SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 06-19/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.010 KM	STANDARD
DO	mg/L	Membrane Electrode Method	6.59	≥ 6
Nitrate-Nitrogen	$\mu\text{g-N/L}$	Cadmium Reduction Method	570	≤ 20
Phosphate-Phosphorus	$\mu\text{g-P/L}$	Ascorbic Method	130	≤ 15
Salinity	ppt	Electrical Conductivity Method	19.60	D 10%

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]

STANDARD : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ พ.ศ. 2564
เรื่องกำหนดมาตรฐานคุณภาพน้ำทะเล (ประเภทที่ 2 เพื่อการอนุรักษ์แหล่งปะการัง)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by 

(MRS PENNAPA CHANPEN)

19/01/2026

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
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SAMPLING DATE : 06/01/2026 SAMPLING TIME : 00.13 PM
SAMPLING CONDITION : SEA WATER 0.010 KM SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 06-19/01/2026 RECEIVED DATE : 06/01/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/01/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.010 KM	STANDARD
Total Coliform Bacteria	MPN/100 mL	MPN Test Method	11,000	≤ 1,000
Fecal Coliform Bacteria ^{1/}	CFU/100 mL	Thermololrant (Fecal) coliforms	160	≤ 70
Membrane Filter Procedure (Part 9222(D))				

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]

STANDARD : ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ พ.ศ. 2564
เรื่องกำหนดมาตรฐานคุณภาพน้ำทะเล (ประเภทที่ 2 เพื่อการอนุรักษ์แหล่งปะการัง)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK 1. ^{1/} ทดสอบโดย ศูนย์บริการตรวจสอบและรับรองมาตรฐาน คณะวิทยาศาสตร์ มหาวิทยาลัยสงขลานครินทร์



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซาท์เทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

19/01/2026

END OF REPORT

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6902-0296
SAMPLING DATE^{/3} : 06/02/2026 SAMPLING TIME^{/3} : 10.20 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 06-16/02/2026 RECEIVED DATE : 06/02/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 18/02/2026

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C ^{/1}	-	Electrometric Method	7.16
BOD ₅ ^{/1}	mg/L	5-Day BOD Test, Azide modification Method	5,400
Total Suspended Solids	mg/L	Dried at 103-105 °C (Part 2540D)	3,565
Grease & Oil ^{/1}	mg/L	Liquid-Liquid, Partition-Gravimetric Method	27
Total Kjeldahl Nitrogen ^{/1}	mg/L	Macro-Kjeldahl, Titrimetric Method	40.88

PHYSICAL APPEARANCE
1. Sample : turbid, black SS, smelling
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK
1.^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)
2.^{/2} : Out of accredited scope of private analysis laboratories ๖-176
3.^{/3} : Information received from customer

Examined by
(MS.SIRIRAT NITESNOPAKUL)

๖-176-๖-0002

18.02.2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by
(MRS PENNAPA CHANPEN)

๖-176-๖-0003

18.02.2026

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6902-0296
SAMPLING DATE^{/3} : 06/02/2026 SAMPLING TIME^{/3} : 10.20 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 06-16/02/2026 RECEIVED DATE : 06/02/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 18/02/2026

PARAMETER	UNIT	METHOD	INFLUENT
Fecal Coliform Bacteria ^{/1,2}	MPN/100 mL	MPN Test Method	2,400,000

PHYSICAL APPEARANCE

1. Sample : turbid, black SS, smelling
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

1. ^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)
2. ^{/2} : Out of accredited scope of private analysis laboratories 2-176
3. ^{/3} : Information received from customer



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เช้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by 

(MRS PENNAPA CHANPEN)

18/02/2026

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6902-0297
SAMPLING DATE^{/3} : 06/02/2026 SAMPLING TIME^{/3} : 10.21 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 06-16/02/2026 RECEIVED DATE : 06/02/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 18/02/2026

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C ^{/1}	-	Electrometric Method	7.49	5.5 - 9.0
BOD ₅ ^{/1}	mg/L	5-Day BOD Test, Azide modification Method	3.0	≤ 20
Total Suspended Solids	mg/L	Dried at 103-105 °C (Part 2540D)	4	≤ 30
Total Dissolved Solids	mg/L	Dried at 180 °C (Part 2540C)	380	≤ 1,000

PHYSICAL APPEARANCE 1. Sample : yellowish, white SS

2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

STANDARD : ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567

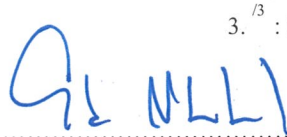
เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร บางประเภท และบางขนาด (ประเภท ก)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK 1. ^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)

2. ^{/2} : Out of accredited scope of private analysis laboratories ๖-176

3. ^{/3} : Information received from customer

Examined by 

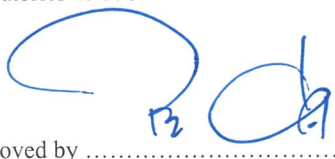
(MS.SIRIRAT NITESNOPAKUL)

๖-176-๖-0002

18/02/2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เช้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by 

(MRS PENNAPA CHANPEN)

๖-176-๖-0003

18/02/2026

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road; Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6902-0297
SAMPLING DATE^{/3} : 06/02/2026 SAMPLING TIME^{/3} : 10.21 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 06-16/02/2026 RECEIVED DATE : 06/02/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 18/02/2026

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Total Kjeldahl Nitrogen ^{/1}	mg/L	Macro-Kjeldahl, Titrimetric Method	3.78	≤ 35
Grease & Oil ^{/1}	mg/L	Liquid-Liquid, Partition-Gravimetric Method	ND	≤ 20
Sulfide ^{/1}	mg/L as S ²⁻	Iodometric Method	ND	≤ 1
Settleable Solids ^{/1,2}	mL/L	Volumetric Method	ND	-
Fecal Coliform Bacteria ^{/1,2}	MPN/100 mL	MPN Test Method	<1.8	-

PHYSICAL APPEARANCE

1. Sample : yellowish, white SS
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

STANDARD

: ประกาศกระทรวงทรัพยากรธรรมชาติและสิ่งแวดล้อม พ.ศ. 2567
เรื่อง กำหนดมาตรฐานควบคุมการระบายน้ำทิ้งจากอาคาร บางประเภท และบางขนาด (ประเภท ก)

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

1. ^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)
2. ^{/2} : Out of accredited scope of private analysis laboratories ๓-176
3. ^{/3} : Information received from customer
4. ND = Not Detected (ตรวจวัดไม่พบ โดยวิธีทางห้องปฏิบัติการ)



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เช้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

18 02 2026

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6902-0298
SAMPLING DATE^{/3} : 06/02/2026 SAMPLING TIME^{/3} : 10.23 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 06-16/02/2026 RECEIVED DATE : 06/02/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 18/02/2026

PARAMETER	UNIT	METHOD	AERATION TANK
Dissolved Oxygen (DO) ^{/1,2}	mg/L	Membrane-Electrode Method	3.28
Mixed Liquor Suspended Solids ^{/1,2}	mg/L	Dried at 103-105 °C	3,660
Settled Sludge Volume (SV ₃₀) ^{/1,2}	mL/L	Volumetric Method	400

PHYSICAL APPEARANCE

1. Sample : turbid, brown SS
2. Container : Normal [PE 1.0 L]

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

- 1.^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)
- 2.^{/2} : Out of accredited scope of private analysis laboratories 3.-176
- 3.^{/3} : Information received from customer



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เช้าเทิร์นไทยคอนซัลติ้ง จำกัด

END OF REPORT

Approved by

(MRS PENNAPA CHANPEN)

18/02/2026

REPORTED ANALYSIS REFER TO SUBMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6902-0308
SAMPLING DATE : 06/02/2026 SAMPLING TIME : 09.51 AM
SAMPLING CONDITION : Water Supply "Merchant Kitchen" SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 06-18/02/2026 RECEIVED DATE : 06/02/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 18/02/2026

PARAMETER	UNIT	METHOD	Water Supply "Merchant Kitchen"	STANDARD
pH at 25 ⁰ C	-	Electrometric Method	6.77	6.5-8.5
Total Dissolved Solids	mg/L	Dried at 180 ⁰ C (Part 2540C)	232	≤ 600

PHYSICAL APPEARANCE 1. Sample : clear

2. Container : normal [PE 2.0 L, G 0.25 L]

STANDARD Water Quality Standards of The Provincial Waterworks Authority 2024

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

Examined by

(MS.SIRIRAT NITESNOPAKUL)

๖-176-๖-0002

18/02/๖๖



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by

(MRS PENNAPA CHANPEN)

๖-176-๖-0003

18/02/๖๖

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6902-0308
SAMPLING DATE : 06/02/2026 SAMPLING TIME : 09.51 AM
SAMPLING CONDITION : Water Supply "Merchant Kitchen" SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 06-18/02/2026 RECEIVED DATE : 06/02/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 18/02/2026

PARAMETER	UNIT	METHOD	Water Supply "Merchant Kitchen"	STANDARD
Apparent color	Pt.Co	Spctrophotometric Method	1.07	≤ 15
Manganese	mg/L	Persulfate Method	ND	≤ 0.08
Chloride	mg/L	Argentometric Method	66.29	≤ 250
Hardness	mg/L as CaCO ₃	EDTA titrimetric Method	44.0	≤ 300
Iron	mg/L	Phenantholine Method	ND	≤ 0.3
Conductivity	μs/cm	Laboratory Method	397	-
Turbidity	NTU	Nephelometric Method	0.22	≤ 4
Sulfate ^{1/}	mg/L as SO ₄ ²⁻	Turbidimetric Method	7.08	≤ 250

PHYSICAL APPEARANCE 1. Sample : clear
2. Container : normal [PE 2.0 L, G 0.25 L]

STANDARD Water Quality Standards of The Provincial Waterworks Authority 2024

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK 1. ^{1/} Tested by Eastern Thai Consulting 1992 Co.,Ltd. (Sriracha) : Registration No. ๓-003
2. ND = Not Detected



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

18/02/2026

END OF REPORT

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER	: Merlin Beach Co.,Ltd		
ADDRESS	: 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150		
SAMPLING SOURCE ^{/3}	: Phuket Marriott Resort & Spa, Merlin Beach	SAMPLE NO.	: 6903-0447
SAMPLING DATE ^{/3}	: 10/03/2026	SAMPLING TIME ^{/3}	: 09.48 AM
SAMPLING CONDITION	: Wastewater Treatment	SAMPLING BY ^{/3}	: STC
SAMPLING METHOD ^{/3}	: GRAB		(MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE	: 10-18/03/2026	RECEIVED DATE	: 10/03/2026
FILE NAME	: Phuket Marriott Resort & Spa, Merlin Beach	REPORTED DATE	: 19/03/2026

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 °C ^{/1}	-	Electrometric Method	6.76
BOD ₅ ^{/1}	mg/L	5-Day BOD Test, Azide modification Method	971
Total Suspended Solids	mg/L	Dried at 103-105 °C (Part 2540D)	4,880
Grease & Oil ^{/1}	mg/L	Liquid-Liquid, Partition-Gravimetric Method	132
Total Kjeldahl Nitrogen ^{/1}	mg/L	Macro-Kjeldahl, Titrimetric Method	80.64

PHYSICAL APPEARANCE	1. Sample :	turbid, brown SS, smelling
	2. Container :	normal [PE 2.0 L (2 bottles), G 0.5 L]

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK	1. ^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)
	2. ^{/2} : Out of accredited scope of private analysis laboratories ๖-176
	3. ^{/3} : Information received from customer

Examined by 

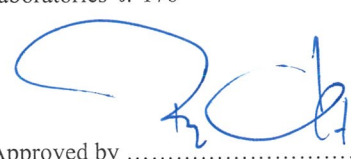
(MS.SIRIRAT NITESNOPAKUL)

๖-176-๖-0002

19 03 2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by 

(MRS PENNAPA CHANPEN)

๖-176-๖-0003

19 03 2026

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6903-0447
SAMPLING DATE^{/3} : 10/03/2026 SAMPLING TIME^{/3} : 09.48 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 10-18/03/2026 RECEIVED DATE : 10/03/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/03/2026

PARAMETER	UNIT	METHOD	INFLUENT
Fecal Coliform Bacteria ^{/1,2}	MPN/100 mL	MPN Test Method	1,100,000

PHYSICAL APPEARANCE

1. Sample : turbid, brown SS, smelling
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

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- 2.^{/2} : Out of accredited scope of private analysis laboratories 3.-176
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Approved by 

(MRS PENNAPA CHANPEN)

19/03/2026

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6903-0448
SAMPLING DATE^{/3} : 10/03/2026 SAMPLING TIME^{/3} : 09.48 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 10-18/03/2026 RECEIVED DATE : 10/03/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/03/2026

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C ^{/1}	-	Electrometric Method	7.19	5.5 - 9.0
BOD ₅ ^{/1}	mg/L	5-Day BOD Test, Azide modification Method	3.0	≤ 20
Total Suspended Solids	mg/L	Dried at 103-105 °C (Part 2540D)	6	≤ 30
Total Dissolved Solids	mg/L	Dried at 180 °C (Part 2540C)	390	≤ 1,000

PHYSICAL APPEARANCE

1. Sample : clear
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

STANDARD

Notification of the Ministry of Natural Resources and Environment B.E. 2567 (2024)

Subject : Standards for Controlling Wastewater from Certain Types and Sizes of Buildings (Type A)

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

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- 2.^{/2} : Out of accredited scope of private analysis laboratories ๖-176
- 3.^{/3} : Information received from customer

Examined by 

(MS.SIRIRAT NITESNOPAKUL)

๖-176-๖-0002

19/03/2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by 

(MRS PENNAPA CHANPEN)

๖-176-๖-0003

19/03/2026

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER	: Merlin Beach Co.,Ltd		
ADDRESS	: 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150		
SAMPLING SOURCE ^{/3}	: Phuket Marriott Resort & Spa, Merlin Beach	SAMPLE NO.	: 6903-0448
SAMPLING DATE ^{/3}	: 10/03/2026	SAMPLING TIME ^{/3}	: 09.48 AM
SAMPLING CONDITION	: Wastewater Treatment	SAMPLING BY ^{/3}	: STC
SAMPLING METHOD ^{/3}	: GRAB		(MS. JUTAPORN JUTAMAST)
TESTED DATE	: 10-18/03/2026	RECEIVED DATE	: 10/03/2026
FILE NAME	: Phuket Marriott Resort & Spa, Merlin Beach	REPORTED DATE	: 19/03/2026

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Total Kjeldahl Nitrogen ^{/1}	mg/L	Macro-Kjeldahl, Titrimetric Method	1.68	≤ 35
Grease & Oil ^{/1}	mg/L	Liquid-Liquid, Partition-Gravimetric Method	ND	≤ 20
Sulfide ^{/1}	mg/L as S ²⁻	Iodometric Method	0.13	≤ 1
Settleable Solids ^{/1,2}	mL/L	Volumetric Method	ND	-
Fecal Coliform Bacteria ^{/1,2}	MPN/100 mL	MPN Test Method	<1.8	-

PHYSICAL APPEARANCE

1. Sample : clear
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

STANDARD

Notification of the Ministry of Natural Resources and Environment B.E. 2567 (2024)

Subject : Standards for Controlling Wastewater from Certain Types and Sizes of Buildings (Type A)

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

- 1.^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)
- 2.^{/2} : Out of accredited scope of private analysis laboratories ฏ.-176
- 3.^{/3} : Information received from customer
4. ND = Not Detected



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by 

(MRS PENNAPA CHANPEN)

19/03/2026

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6903-0449
SAMPLING DATE^{/3} : 10/03/2026 SAMPLING TIME^{/3} : 09.50 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 10-18/03/2026 RECEIVED DATE : 10/03/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/03/2026

PARAMETER	UNIT	METHOD	AERATION TANK
Dissolved Oxygen (DO) ^{/1,2}	mg/L	Membrane-Electrode Method	3.76
Mixed Liquor Suspended Solids ^{/1,2}	mg/L	Dried at 103-105 °C	2,520
Settled Sludge Volume (SV ₃₀) ^{/1,2}	mL/L	Volumetric Method	600

PHYSICAL APPEARANCE

1. Sample : turbid, brown SS
2. Container : Normal [PE 1.0 L]

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

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ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

END OF REPORT

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6903-0459
SAMPLING DATE : 10/03/2026 SAMPLING TIME : 09.26 AM
SAMPLING CONDITION : Water Supply "Merchant Kitchen" SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๑-0006)
TESTED DATE : 10-18/03/2026 RECEIVED DATE : 10/03/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/03/2026

PARAMETER	UNIT	METHOD	Water Supply "Merchant Kitchen"	STANDARD
pH at 25 ^o C	-	Electrometric Method	7.56	6.5-8.5
Total Dissolved Solids	mg/L	Dried at 180 ^o C (Part 2540C)	192	≤ 600

PHYSICAL APPEARANCE 1. Sample : clear

2. Container : normal [PE 2.0 L, G 0.25 L]

STANDARD Water Quality Standards of The Provincial Waterworks Authority 2024

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

Examined by

(MS.SIRIRAT NITESNOPAKUL)

๖-176-๑-0002

19/03/2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เช้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by

(MRS PENNAPA CHANPEN)

๖-176-๑-0003

19 03 2026

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6903-0459
SAMPLING DATE : 10/03/2026 SAMPLING TIME : 09.26 AM
SAMPLING CONDITION : Water Supply "Merchant Kitchen" SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 10-18/03/2026 RECEIVED DATE : 10/03/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 19/03/2026

PARAMETER	UNIT	METHOD	Water Supply "Merchant Kitchen"	STANDARD
Apparent color	Pt.Co	Spctrophotometric Method	ND	≤ 15
Manganese	mg/L	Persulfate Method	ND	≤ 0.08
Chloride	mg/L	Argentometric Method	67.73	≤ 250
Hardness	mg/L as CaCO ₃	EDTA titrimetric Method	38.0	≤ 300
Iron	mg/L	Phenantholine Method	ND	≤ 0.3
Conductivity	μs/cm	Laboratory Method	343	-
Turbidity	NTU	Nephelometric Method	0.04	≤ 4
Sulfate ^{1/}	mg/L as SO ₄ ²⁻	Turbidimetric Method	3.15	≤ 250

PHYSICAL APPEARANCE 1. Sample : clear

2. Container : normal [PE 2.0 L, G 0.25 L]

STANDARD Water Quality Standards of The Provincial Waterworks Authority 2024

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK 1. ^{1/} Tested by Eastern Thai Consulting 1992 Co.,Ltd. (Sriracha) : Registration No. 3-003

2. ND = Not Detected



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

19 03 2026

END OF REPORT

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0085
SAMPLING DATE^{/3} : 01/04/2026 SAMPLING TIME^{/3} : 10.29 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST 3-176-3-0006)
TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	INFLUENT
pH at 25 ⁰ C ^{/1}	-	Electrometric Method	6.34
BOD ₅ ^{/1}	mg/L	5-Day BOD Test, Azide modification Method	1,500
Total Suspended Solids	mg/L	Dried at 103-105 ⁰ C (Part 2540D)	3,815
Grease & Oil ^{/1}	mg/L	Liquid-Liquid, Partition-Gravimetric Method	1,824
Total Kjeldahl Nitrogen ^{/1}	mg/L	Macro-Kjeldahl, Titrimetric Method	98.28

PHYSICAL APPEARANCE
1. Sample : turbid, brown SS, smelling
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK
1.^{/1} : Out of accredited scope by TISI (ISO/IEC 17025:2017)
2.^{/2} : Out of accredited scope of private analysis laboratories 3-176
3.^{/3} : Information received from customer

Examined by

(MS.SIRIRAT NITESNOPAKUL)

3-176-3-0002

17/04/2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน 3-176

Approved by

(MRS PENNAPA CHANPEN)

3-176-3-0003

17/04/2026

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TEST REPORT

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ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0085
SAMPLING DATE^{/3} : 01/04/2026 SAMPLING TIME^{/3} : 10.29 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	INFLUENT
Fecal Coliform Bacteria ^{/1,2}	MPN/100 mL	MPN Test Method	11,000,000

PHYSICAL APPEARANCE

1. Sample : turbid, brown SS, smelling
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

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Approved by 

(MRS PENNAPA CHANPEN)

17/04/2026

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0086
SAMPLING DATE^{/3} : 01/04/2026 SAMPLING TIME^{/3} : 10.25 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST 3-176-จ-0006)
TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
pH at 25 °C ^{/1}	-	Electrometric Method	7.40	5.5 - 9.0
BOD ₅ ^{/1}	mg/L	5-Day BOD Test, Azide modification Method	6.2	≤ 20
Total Suspended Solids	mg/L	Dried at 103-105 °C (Part 2540D)	10	≤ 30
Total Dissolved Solids	mg/L	Dried at 180 °C (Part 2540C)	376	≤ 1,000

PHYSICAL APPEARANCE 1. Sample : yellowish
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

STANDARD Notification of the Ministry of Natural Resources and Environment B.E. 2567 (2024)

Subject : Standards for Controlling Wastewater from Certain Types and Sizes of Buildings (Type A)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK
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Examined by

(MS.SIRIRAT NITESNOPAKUL)

3-176-จ-0002

17/04/2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน 3-176

Approved by

(MRS PENNAPA CHANPEN)

3-176-จ-0003

17/04/2026

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0086
SAMPLING DATE^{/3} : 01/04/2026 SAMPLING TIME^{/3} : 10.25 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	EFFLUENT	STANDARD
Total Kjeldahl Nitrogen ^{/1}	mg/L	Macro-Kjeldahl, Titrimetric Method	3.78	≤ 35
Grease & Oil ^{/1}	mg/L	Liquid-Liquid, Partition-Gravimetric Method	ND	≤ 20
Sulfide ^{/1}	mg/L as S ²⁻	Iodometric Method	ND	≤ 1
Settleable Solids ^{/1,2}	mL/L	Volumetric Method	ND	-
Fecal Coliform Bacteria ^{/1,2}	MPN/100 mL	MPN Test Method	<1.8	-

PHYSICAL APPEARANCE

1. Sample : yellowish
2. Container : normal [PE 2.0 L (2 bottles), G 0.5 L]

STANDARD

Notification of the Ministry of Natural Resources and Environment B.E. 2567 (2024)

Subject : Standards for Controlling Wastewater from Certain Types and Sizes of Buildings (Type A)

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

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4. ND = Not Detected



ห้องปฏิบัติการวิเคราะห์เอกชน
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Approved by 

(MRS PENNAPA CHANPEN)

17 04 2026

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE^{/3} : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0087
SAMPLING DATE^{/3} : 01/04/2026 SAMPLING TIME^{/3} : 10.20 AM
SAMPLING CONDITION : Wastewater Treatment SAMPLING BY^{/3} : STC
SAMPLING METHOD^{/3} : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	AERATION TANK
Dissolved Oxygen (DO) ^{/1,2}	mg/L	Membrane-Electrode Method	0.40
Mixed Liquor Suspended Solids ^{/1,2}	mg/L	Dried at 103-105 °C	9,020
Settled Sludge Volume (SV ₃₀) ^{/1,2}	mL/L	Volumetric Method	1,000

PHYSICAL APPEARANCE 1. Sample : turbid, brown SS

2. Container : Normal [PE 1.0 L]

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK
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Approved by 

(MRS PENNAPA CHANPEN)

17 04 2026

END OF REPORT

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0097
SAMPLING DATE : 01/04/2026 SAMPLING TIME : 10.49 AM
SAMPLING CONDITION : Water Supply "Merchant Kitchen" SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 01-15/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	Water Supply "Merchant Kitchen"	STANDARD
pH at 25 ⁰ C	-	Electrometric Method	7.22	6.5-8.5
Total Dissolved Solids	mg/L	Dried at 180 ⁰ C (Part 2540C)	202	≤ 600

PHYSICAL APPEARANCE 1. Sample : clear

2. Container : normal [PE 2.0 L, G 0.25 L]

STANDARD Water Quality Standards of The Provincial Waterworks Authority 2024

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

Examined by

(MS.SIRIRAT NITESNOPAKUL)

๖-176-๖-0002

17/04/2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน ๖-176

Approved by

(MRS PENNAPA CHANPEN)

๖-176-๖-0003

17/04/2026

REPORTED ANALYSIS REFER TO SUMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL LABORATORY



TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0097
SAMPLING DATE : 01/04/2026 SAMPLING TIME : 10.49 AM
SAMPLING CONDITION : Water Supply "Merchant Kitchen" SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 01-15/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	Water Supply "Merchant Kitchen"	STANDARD
Apparent color	Pt.Co	Spctrophotometric Method	2.17	≤ 15
Manganese	mg/L	Persulfate Method	ND	≤ 0.08
Chloride	mg/L	Argentometric Method	92.57	≤ 250
Hardness	mg/L as CaCO ₃	EDTA titrimetric Method	54.0	≤ 300
Iron	mg/L	Phenantholine Method	0.05	≤ 0.3
Conductivity	μs/cm	Laboratory Method	396	-
Turbidity	NTU	Nephelometric Method	1.02	≤ 4
Sulfate ^{1/}	mg/L as SO ₄ ²⁻	Turbidimetric Method	5.10	≤ 250

PHYSICAL APPEARANCE 1. Sample : clear

2. Container : normal [PE 2.0 L, G 0.25 L]

STANDARD Water Quality Standards of The Provincial Waterworks Authority 2024

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK 1. ^{1/} Tested by Eastern Thai Consulting 1992 Co.,Ltd. (Sriracha) : Registration No. ๓-003

2. ND = Not Detected



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

17/04/2026

END OF REPORT

REPORTED ANALYSIS REFER TO SUMMITTED SAMPLES ONLY

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0099
SAMPLING DATE : 01/04/2026 SAMPLING TIME : 11.53 AM
SAMPLING CONDITION : SEA WATER 0.050 KM SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST จ-176-จ-0006)
TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.050 KM	STANDARD
pH at 25 ⁰ C	-	Electrometric Method	7.62	7.0 - 8.5
BOD ₅	mg/L	5-Day BOD Test, Azide modification Method	1.7	-
Total Suspended Solids	mg/L	Dried at 103-105 ⁰ C (Part 2540D)	80	*

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]

STANDARD Announcement of the National Environment Board 2021

Subject: Setting standards for seawater quality (Type 2 for conservation of coral resources)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK 1. * The increase in change is not more than the sum of the 1-day, 1-month, or 1-year mean combined with the standard deviation of that mean.

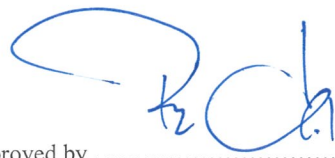
Examined by 
(MS.SIRIRAT NITESNOPAKUL)

จ-176-จ-0002

17/04/2026



ห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด
เลขทะเบียน จ-176

Approved by 
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จ-176-ค-0003

17/04/2026

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0099
SAMPLING DATE : 01/04/2026 SAMPLING TIME : 11.53 AM
SAMPLING CONDITION : SEA WATER 0.050 KM SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST)
TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.050 KM	STANDARD
DO	mg/L	Membrane Electrode Method	5.71	≥ 6
Nitrate-Nitrogen	$\mu\text{g-N/L}$	Cadmium Reduction Method	20.0	≤ 20
Phosphate-Phosphorus	$\mu\text{g-P/L}$	Ascorbic Method	30.0	≤ 15
Salinity	ppt	Electrical Conductivity Method	18.50	D 10%

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]

STANDARD Announcement of the National Environment Board 2021
Subject: Setting standards for seawater quality (Type 2 for conservation of coral resources)

ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023



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บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by

(MRS PENNAPA CHANPEN)

17/04/2026

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
 ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
 SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0099
 SAMPLING DATE : 01/04/2026 SAMPLING TIME : 11.53 AM
 SAMPLING CONDITION : SEA WATER 0.050 KM SAMPLING BY : STC
 SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST)
 TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
 FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.050 KM	STANDARD
Total Coliform Bacteria	MPN/100 mL	MPN Test Method	11,000	≤ 1,000
Fecal Coliform Bacteria ^{1/}	CFU/100 mL	Thermololrant (Fecal) coliforms	790	≤ 70
Membrane Filter Procedure (Part 9222(D))				

PHYSICAL APPEARANCE 1. Sample : clear 2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]
STANDARD Announcement of the National Environment Board 2021
 Subject: Setting standards for seawater quality (Type 2 for conservation of coral resources)
ANALYSIS METHOD Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023
REMARK 1. ^{1/} Tested by Center Of Measurement and Standard Accreditation , Prince Of Songkla University



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บริษัท เซ้าเทิร์นไทยคอนซัลติ้ง จำกัด

Approved by
 (MRS PENNAPA CHANPEN)
 17 Apr 2026

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TEST REPORT

CUSTOMER : Merlin Beach Co.,Ltd
ADDRESS : 99 Muen-Ngoen Road, Tri-Trang Beach, T. Patong, A.Kathu , Phuket 83150
SAMPLING SOURCE : Phuket Marriott Resort & Spa, Merlin Beach SAMPLE NO. : 6904-0100
SAMPLING DATE : 01/04/2026 SAMPLING TIME : 11.50 AM
SAMPLING CONDITION : SEA WATER 0.010 KM SAMPLING BY : STC
SAMPLING METHOD : GRAB (MS. JUTAPORN JUTAMAST ๖-176-๖-0006)
TESTED DATE : 01-16/04/2026 RECEIVED DATE : 01/04/2026
FILE NAME : Phuket Marriott Resort & Spa, Merlin Beach REPORTED DATE : 17/04/2026

PARAMETER	UNIT	METHOD	SEA WATER 0.010 KM	STANDARD
pH at 25 ⁰ C	-	Electrometric Method	7.93	7.0 - 8.5
BOD ₅	mg/L	5-Day BOD Test, Azide modification Method	2.0	-
Total Suspended Solids	mg/L	Dried at 103-105 °C (Part 2540D)	89	*

PHYSICAL APPEARANCE

1. Sample : clear

2. Container : normal [PE 2.0 L , PE 1.0 L, G 0.25 L]

STANDARD

Announcement of the National Environment Board 2021

Subject: Setting standards for seawater quality (Type 2 for conservation of coral resources)

ANALYSIS METHOD

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 24th edition, 2023

REMARK

1. * The increase in change is not more than the sum of the 1-day, 1-month, or 1-year mean combined with the standard deviation of that mean.

Examined by

(MS.SIRIRAT NITESNOPAKUL)

๖-176-๖-0002

17/04/2026



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