

ภาคผนวก ค

ใบรับรองผลการตรวจวัด

คุณภาพอากาศในบรรยากาศโดยทั่วไป



Analysis / Test Report

TESTING
No.0009

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000
P/O : PO202402-001731
Project Name :
Project Location :

Lot ID: 24102804

Date Received : Sep 26, 2024

Date Reported : Oct 03, 2024

Report Number : 3102137-1

Page 1 of 1

Sample Number 24102804-1
Sampled Date Sep 23, 2024
Sample Description Air Quality
Location บริเวณพื้นที่โครงการ (GPS 47N 429169, 869966)
Date Analysis Commenced Sep 27, 2024
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag
Barometric Pressure 757 mmHg
Atmospheric Temperature 30.6 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
Air Testing									
Particulate matter as PM 10	23/09/24 - 24/09/24	mg/m3	-	0.005	0.014	0.12	In - house method : STM 04-052 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix J, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	
Total Suspended Particulate	23/09/24 - 24/09/24	mg/m3	-	0.005	0.050	0.33	In - house method : STM 04-051 based on U.S. Environmental Protection Agency 40 CFR, method 50, Appendix B, revised as of July 1, 2008 (Include sampling)	NEB No.24 Bangkok	

Guideline :

NEB No.24 : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Yongsil Rangsee

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Orawan R.

Orawan Rakyong

Scientist (3)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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ผลการตรวจวิเคราะห์คุณลักษณะน้ำใช้



Analysis / Test Report

TESTING

No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114134-1

Page 1 of 3

Sample Number	2494028-1
Sampled Date	Sep 09, 2024 10:25 AM
Sample Description	Consumption Water
Location	ถังเก็บน้ำดื่ม
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.001	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Cadmium	mg/L	0.001	0.005	Not Detected	≤0.003	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Chromium	mg/L	0.001	0.005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Copper	mg/L	0.001	0.005	Not Detected	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Iron	mg/L	0.001	0.005	<0.005	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Lead	mg/L	0.001	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Manganese	mg/L	0.001	0.005	0.08	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114134-1

Page 2 of 3

Sample Number	2494028-1
Sampled Date	Sep 09, 2024 10:25 AM
Sample Description	Consumption Water
Location	ถังเก็บน้ำดื่ม
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury	mg/L	0.0003	0.0005	Not Detected	≤0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Zinc	mg/L	0.001	0.005	<0.005	≤3.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, F	Songkhla
Total Coliform	MPN/100mL	-	-	12.0	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	8.6	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Color *	Color unit	-	5	<5	≤15	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 B	Songkhla
^[A] Fluoride as F	mg/L	0.05	0.1	1.0	≤1.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
^[A] Nitrate as NO ₃	mg/L	0.3	1.0	<1.0	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114134-1

Page 3 of 3

Sample Number	2494028-1
Sampled Date	Sep 09, 2024 10:25 AM
Sample Description	Consumption Water
Location	ถังเก็บน้ำดื่ม
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH at 25 degree C		-	-	6.7	6.5-8.5	In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Songkhla
^[A] Sulfate	mg/L	0.15	0.5	3.1	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	154	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	49	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.15	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565

คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DMSc Accreditation No. 1031/47.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING

No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114135-1

Page 1 of 3

Sample Number	2494028-2
Sampled Date	Sep 09, 2024 10:00 AM
Sample Description	Consumption Water
Location	ก๊อหน้าไขที่ผ่านการกรองของโครงการแล้ว Phoenix Bar
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.001	0.005	<0.005	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Cadmium	mg/L	0.001	0.005	Not Detected	≤0.003	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Chromium	mg/L	0.001	0.005	Not Detected	≤0.05	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Copper	mg/L	0.001	0.005	0.009	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Iron	mg/L	0.001	0.005	0.005	≤0.3	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Lead	mg/L	0.001	0.005	Not Detected	≤0.01	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Manganese	mg/L	0.001	0.005	<0.005	≤0.1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114135-1

Page 2 of 3

Sample Number	2494028-2
Sampled Date	Sep 09, 2024 10:00 AM
Sample Description	Consumption Water
Location	ก๊อมน้ำใช้ที่ผ่านการกรองของโครงการแล้ว Phoenix Bar
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Mercury	mg/L	0.0003	0.0005	Not Detected	≤0.001	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Zinc	mg/L	0.001	0.005	0.02	≤3.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Songkhla
Microbiological Testing							
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, F	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla
Water Testing							
^[A] Chloride as Cl	mg/L	0.06	0.2	9.1	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Color *	Color unit	-	5	<5	≤15	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 B	Songkhla
^[A] Fluoride as F	mg/L	0.05	0.1	0.9	≤1.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
^[A] Nitrate as NO ₃	mg/L	0.3	1.0	1.4	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114135-1

Page 3 of 3

Sample Number	2494028-2
Sampled Date	Sep 09, 2024 10:00 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำใช้ที่ผ่านการกรองของโครงการแล้ว Phoenix Bar
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
pH at 25 degree C		-	-	7.2	6.5-8.5	In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Songkhla
^[A] Sulfate	mg/L	0.15	0.5	4.5	≤250	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	145	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla
Total Hardness as CaCO ₃	mg/L	-	1	52	≤300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2340 C	Songkhla
Turbidity	NTU	-	0.1	0.20	≤5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2130 B	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565
คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DMSc Accreditation No. 1031/47.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING

No.0166

Client : Southern Star Hotel Co., Ltd.

88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114136-1

Page 1 of 2

Sample Number	2494028-3						
Sampled Date	Sep 09, 2024 10:35 AM						
Sample Description	Wastewater						
Location	บ่อตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Sep 10, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	79.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	<3	≤20	In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.6	5.5-9.0	In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Songkhla
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	Songkhla
Sulfide *	mg/L	-	0.5	0.6	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	124	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	Not Detected	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114136-1

Page 2 of 2

Sample Number	2494028-3
Sampled Date	Sep 09, 2024 10:35 AM
Sample Description	Wastewater
Location	บ่อตรวจคุณภาพน้ำหลังเขาระบบบำบัดน้ำเสียรวมของโครงการ
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids	mg/L	-	5	<5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 146 มิลลิกรัมต่อลิตร

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

- LOD : Limit of Detection
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Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114137-1

Page 1 of 1

Sample Number	2494028-4
Sampled Date	Sep 09, 2024 10:00 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำไข้ที่ผ่านการกรองของโครงการแล้ว Phoenix Bar
Date Analysis Commenced	Sep 11, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	146	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565
คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

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Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 18, 2024

Report Number : 3114138-1

Page 1 of 1

Sample Number	2494028-5
Sampled Date	Sep 09, 2024 10:10 AM
Sample Description	Swimming Pool
Location	สระว่ายน้ำของโครงการ Main Pool
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla

Guideline : ค่าแนะนำของคณะกรรมการสาธารณสุข ฉบับที่ 1/2550 เรื่อง การควบคุมการประกอบกิจการสระว่ายน้ำ หรือกิจการอื่น ๆ ในทำนองเดียวกัน

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Tuanjai Thangklang
Manager

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ผลการตรวจวิเคราะห์คุณลักษณะน้ำทิ้ง



Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2469090

Date Received : Jul 16, 2024

Date Reported : Jul 23, 2024

Report Number : 3027907-1

Page 1 of 4

Sample Number	2469090-1
Sampled Date	Jul 15, 2024 10:20 AM
Sample Description	Wastewater
Location	บ่อตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ
Date Analysis Commenced	Jul 16, 2024
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	<3	≤20	In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.6	5.0-9.0	In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Songkhla
Settleable Solid *	mL/L/hr	-	0.1	<0.1	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	Songkhla
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Songkhla
Total Dissolved Solids Dried at 103-105 degree C *	mg/L	-	5	166	(1)	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	Not Detected	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Approved by

Chompoonuch F.

Chompoonuch Funtha
Supervisor

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2469090

Date Received : Jul 16, 2024

Date Reported : Jul 23, 2024

Report Number : 3027907-1

Page 2 of 4

Sample Number	2469090-1						
Sampled Date	Jul 15, 2024 10:20 AM						
Sample Description	Wastewater						
Location	בודตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Jul 16, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids	mg/L	-	5	<5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment November, 7, B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 144 มิลลิกรัมต่อลิตร

Sampling By : Yuttapong Rattana , Sakkarin Panpheng

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Supervisor

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No.0166

Client : Southern Star Hotel Co., Ltd.
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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2469090

Date Received : Jul 16, 2024

Date Reported : Jul 23, 2024

Report Number : 3027907-1

Page 3 of 4

Sample Number	2469090-2
Sampled Date	Jul 15, 2024 10:05 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำไข้ที่ผ่านการกรองของโครงการแล้ว Phoenix Bar
Date Analysis Commenced	Jul 16, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	144	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565

Sampling By : Yuttapong Rattana , Sakkarin Panpheng

Remark :

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Supervisor

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TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2481560

Date Received : Aug 16, 2024

Date Reported : Aug 22, 2024

Report Number : 3089924-1

Page 1 of 2

Sample Number	2481560-1
Sampled Date	Aug 15, 2024 11:35 AM
Sample Description	Wastewater
Location	บ่อตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ
Date Analysis Commenced	Aug 16, 2024
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	11000.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	<3	≤20	In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.0-9.0	In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Songkhla
Settleable Solid *	mL/L/hr	-	0.1	<0.1	≤0.5	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	Songkhla
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Songkhla
Total Dissolved Solids Dried at 103-105 degree C *	mg/L	-	5	144	(1)	In-house method : STM 04-010 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	<1.0	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2481560

Date Received : Aug 16, 2024

Date Reported : Aug 22, 2024

Report Number : 3089924-1

Page 2 of 2

Sample Number	2481560-1						
Sampled Date	Aug 15, 2024 11:35 AM						
Sample Description	Wastewater						
Location	בודตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Aug 16, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids	mg/L	-	5	<5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment November, 7, B.E. 2548 on Effluent Control Standard from Types and Sized of Buildings, Type A.

(1) : The values are in addition to the Total Dissolved Solids of the water used not more than 500 mg/L.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 144 มิลลิกรัมต่อลิตร

Sampling By : Thaksin Aintrom , Furakan Kasetka

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2481560

Date Received : Aug 16, 2024

Date Reported : Aug 22, 2024

Report Number : 3089925-1

Page 1 of 1

Sample Number	2481560-2
Sampled Date	Aug 15, 2024 11:23 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำไข้ที่ผ่านการกรองของโครงการแล้ว Phoenix Kitchen
Date Analysis Commenced	Aug 19, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	144	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565
คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Thaksin Aintrom , Furakan Kasetka

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114136-1

Page 1 of 2

Sample Number	2494028-3						
Sampled Date	Sep 09, 2024 10:35 AM						
Sample Description	Wastewater						
Location	บ่อตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Sep 10, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	79.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	<3	≤20	In-house method : STM 13-006 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.6	5.5-9.0	In-house method : STM 13-001 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Songkhla
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F	Songkhla
Sulfide *	mg/L	-	0.5	0.6	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	124	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	Not Detected	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C)	Bangkok

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114136-1

Page 2 of 2

Sample Number	2494028-3						
Sampled Date	Sep 09, 2024 10:35 AM						
Sample Description	Wastewater						
Location	בודตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Sep 10, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids	mg/L	-	5	<5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Note : สารที่ละลายได้ทั้งหมดในน้ำใช้ = 146 มิลลิกรัมต่อลิตร

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
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Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 19, 2024

Report Number : 3114137-1

Page 1 of 1

Sample Number	2494028-4
Sampled Date	Sep 09, 2024 10:00 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำไข้ที่ผ่านการกรองของโครงการแล้ว Phoenix Bar
Date Analysis Commenced	Sep 11, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	146	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565
คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24110379

Date Received : Oct 04, 2024

Date Reported : Oct 10, 2024

Report Number : 3134440-1

Page 1 of 2

Sample Number	24110379-1						
Sampled Date	Oct 03, 2024 10:10 AM						
Sample Description	Wastewater						
Location	บ่อตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	23.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Songkhla
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	110	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	<1.0	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24110379

Date Received : Oct 04, 2024

Date Reported : Oct 10, 2024

Report Number : 3134440-1

Page 2 of 2

Sample Number	24110379-1						
Sampled Date	Oct 03, 2024 10:10 AM						
Sample Description	Wastewater						
Location	บ่อตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Oct 04, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids	mg/L	-	5	<5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

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TESTING

No.0166

Lot ID: 24110379

Date Received : Oct 04, 2024

Date Reported : Oct 10, 2024

Report Number : 3134441-1

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Page 1 of 1

Sample Number	24110379-2
Sampled Date	Oct 03, 2024 9:55 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำไข้ที่ผ่านการกรองของโครงการแล้ว Phoenix Kitchen
Date Analysis Commenced	Oct 04, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	127	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565
คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

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No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24118769

Date Received : Nov 05, 2024

Date Reported : Nov 11, 2024

Report Number : 3139661-1

Page 1 of 4

Sample Number	24118769-1						
Sampled Date	Nov 04, 2024 11:02 AM						
Sample Description	Wastewater						
Location	บ่อตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	4.5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	138	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	Not Detected	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok

Approved by

Tuanjai Thangklang
Manager

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24118769

Date Received : Nov 05, 2024

Date Reported : Nov 11, 2024

Report Number : 3139661-1

Page 2 of 4

Sample Number	24118769-1						
Sampled Date	Nov 04, 2024 11:02 AM						
Sample Description	Wastewater						
Location	בודตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Nov 05, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids	mg/L	-	5	<5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24118769

Date Received : Nov 05, 2024

Date Reported : Nov 11, 2024

Report Number : 3139661-1

Page 3 of 4

Sample Number	24118769-2
Sampled Date	Nov 04, 2024 10:50 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำไข้ที่ผ่านการกรองของโครงการแล้ว Phoenix Kitchen
Date Analysis Commenced	Nov 05, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	142	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565
คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Thaksin Aintrom , Furakan Kasetka

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No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24118770

Date Received : Dec 19, 2024

Date Reported : Dec 26, 2024

Report Number : 3203327-1

Page 1 of 2

Sample Number	24118770-1						
Sampled Date	Dec 18, 2024 9:55 AM						
Sample Description	Wastewater						
Location	บ่อตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Dec 19, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Total Coliform	MPN/100mL	-	-	110.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla
Water Testing							
BOD (5 days at 20 degree C)	mg/L	-	2.0	<2.0	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5210 B, part 4500 - O G	Songkhla
Oil & Grease	mg/L	-	3	<3	≤20	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 5520 B	Songkhla
pH at 25 degree C		-	-	7.0	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500 - H (B)	Songkhla
Settleable Solid *	mL/L/hr	-	0.1	<0.1	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 F	Songkhla
Sulfide *	mg/L	-	0.5	<0.5	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-S2 (C, F)	Songkhla
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	80	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	<1.0	≤35	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 4500-Norg (C)	Bangkok

Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24118770

Date Received : Dec 19, 2024

Date Reported : Dec 26, 2024

Report Number : 3203327-1

Page 2 of 2

Sample Number	24118770-1						
Sampled Date	Dec 18, 2024 9:55 AM						
Sample Description	Wastewater						
Location	בודตรวจคุณภาพน้ำหลังเข้าระบบบำบัดน้ำเสียรวมของโครงการ						
Date Analysis Commenced	Dec 19, 2024						
Condition of Sample	Contained in one amber glass bottle and five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Suspended Solids	mg/L	-	5	<5	≤30	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 D	Songkhla

Guideline : Notification of Ministry of Natural Resources and Environment B.E. 2567 on Effluent Control Standard from Types and Sized of Buildings, Type A.

Sampling By : Yuttapong Rattana , Sakkarin Panpheng

Remark :

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TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24118770

Date Received : Dec 19, 2024

Date Reported : Dec 26, 2024

Report Number : 3203328-1

Page 1 of 1

Sample Number	24118770-2
Sampled Date	Dec 18, 2024 9:45 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำใช้ที่ผ่านการกรองของโครงการแล้ว Phoenix Bar
Date Analysis Commenced	Dec 20, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	98	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 2540 C	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565
คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Yuttapong Rattana , Sakkarin Panpheng

Remark :

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Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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ผลการตรวจวิเคราะห์คุณภาพน้ำสระว่ายนํ้า



Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
88/99 Moo 2, Chaofah Tawantok, Wichit, Muang, Phuket Thailand 83000

P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2469090

Date Received : Jul 16, 2024

Date Reported : Jul 23, 2024

Report Number : 3027907-1

Page 4 of 4

Sample Number	2469090-3
Sampled Date	Jul 15, 2024 10:00 AM
Sample Description	Swimming Pool
Location	สระว่ายน้ำของโครงการ Main Pool
Date Analysis Commenced	Jul 16, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform *	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Songkhla
Total Coliform *	MPN/100mL	-	-	<1.1	<10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla

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Sampling By : Yuttapong Rattana , Sakkarin Panpheng

Remark :

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Approved by

Chompoonuch F.

Chompoonuch Funtha
Supervisor

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No.0166

Client : Southern Star Hotel Co., Ltd.
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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2481560

Date Received : Aug 16, 2024

Date Reported : Aug 22, 2024

Report Number : 3089925-1

Page 1 of 1

Sample Number	2481560-2
Sampled Date	Aug 15, 2024 11:23 AM
Sample Description	Consumption Water
Location	ก๊อคน้ำไข้ผ่านการกรองของโครงการแล้ว Phoenix Kitchen
Date Analysis Commenced	Aug 19, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Total Dissolved solids Dried at 180 degree C	mg/L	-	5	144	≤1000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Songkhla

Guideline : Water quality standards of the Provincial Waterworks Authority B.E.2565
คลอรีนอิสระคงเหลือในระบบจ่ายน้ำประปา ไม่น้อยกว่า 0.2 mg/L

Sampling By : Thaksin Aintrom , Furakan Kasetka

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Approved by

Ananta B.

Ananta Boonphet
Scientist (2)

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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 2494028

Date Received : Sep 10, 2024

Date Reported : Sep 18, 2024

Report Number : 3114138-1

Page 1 of 1

Sample Number	2494028-5
Sampled Date	Sep 09, 2024 10:10 AM
Sample Description	Swimming Pool
Location	สระว่ายน้ำของโครงการ Main Pool
Date Analysis Commenced	Sep 10, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla

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Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

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Approved by

Tuanjai Thangklang
Manager

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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24110379

Date Received : Oct 04, 2024

Date Reported : Oct 10, 2024

Report Number : 3134442-1

Page 1 of 1

Sample Number	24110379-3
Sampled Date	Oct 03, 2024 10:00 AM
Sample Description	Swimming Pool
Location	สระว่ายน้ำของโครงการ Main Pool
Date Analysis Commenced	Oct 04, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla

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Sampling By : Thaksin Aintrom , Furakan Kasetka

Remark :

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Approved by

Tuanjai Thangklang
Manager

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Analysis / Test Report

TESTING
No.0166

Client : Southern Star Hotel Co., Ltd.
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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24118769

Date Received : Nov 05, 2024

Date Reported : Nov 11, 2024

Report Number : 3139661-1

Page 4 of 4

Sample Number	24118769-3
Sampled Date	Nov 04, 2024 10:55 AM
Sample Description	Swimming Pool
Location	สระว่ายน้ำของโครงการ Main Pool
Date Analysis Commenced	Nov 05, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform *	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Songkhla
Total Coliform *	MPN/100mL	-	-	<1.1	<10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla

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Sampling By : Thaksin Aintrom , Furakan Kasetka

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P/O : PO202402-001731

Project Name :

Project Location :

Lot ID: 24118770

Date Received : Dec 19, 2024

Date Reported : Dec 26, 2024

Report Number : 3203329-1

Page 1 of 1

Sample Number	24118770-3
Sampled Date	Dec 18, 2024 9:40 AM
Sample Description	Swimming Pool
Location	สระว่ายน้ำของโครงการ Main Pool
Date Analysis Commenced	Dec 19, 2024
Condition of Sample	Contained in one plastic bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
Fecal Coliform	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B, E	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 24th ed., 2023, part 9221 B	Songkhla

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Sampling By : Yuttapong Rattana , Sakkarin Panpheng

Remark :

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Approved by

Chompoonuch F.

Chompoonuch Funtha
Supervisor

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P/O :
Project Name :
Project Location :

Lot ID: 2420909

Date Received : Mar 20, 2024

Date Reported : Mar 29, 2024

Report Number : 2947437-1

Page 1 of 2

Sample Number	2420909-5
Sampled Date	Mar 19, 2024 1:30 PM
Sample Description	Swimming Pool
Location	สระว่ายน้ำของโครงการ Main pool
Date Analysis Commenced	Mar 20, 2024
Condition of Sample	Contained in five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Microbiological Testing							
<i>Escherichia coli</i>	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, F	Songkhla
Fecal Coliform	in 100 mL	-	-	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E	Songkhla
<i>Pseudomonas aeruginosa</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method in connection with: - Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9213 E	Bangkok
<i>Staphylococcus aureus</i>	in 100 mL	-	-	Not Detected	Not Detected	In-house method : STM No. 14-039 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9213 B and FDA Bacteriological Analytical Manual online, Chapter 12, 2016	Songkhla
Total Coliform	MPN/100mL	-	-	<1.1	<10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B	Songkhla
Water Testing							
Ammonia Nitrogen	mg/L	-	0.06	<0.06	≤20	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-NH3 (B, F)	Bangkok
Calcium Hardness as CaCO ₃	mg/L	-	1	39	250-600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Ca (B)	Songkhla

Approved by

Tuanjai Thangklang
Manager

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P/O :

Project Name :

Project Location :

Lot ID: 2420909

Date Received : Mar 20, 2024

Date Reported : Mar 29, 2024

Report Number : 2947437-1

Page 2 of 2

Sample Number	2420909-5
Sampled Date	Mar 19, 2024 1:30 PM
Sample Description	Swimming Pool
Location	สระว่ายน้ำของโครงการ Main pool
Date Analysis Commenced	Mar 20, 2024
Condition of Sample	Contained in five plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Chloride as Cl	mg/L	0.06	0.2	31.8	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Cyanuric acid	mg/L	2	7	12.0	30-60	Colorimetric Method	Bangkok
Nitrate as NO3	mg/L	0.3	1.0	2.6	≤50	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4110 B	Bangkok
Total Alkalinity as CaCO3	mg/L	-	1	26	80-100	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2320 B	Songkhla

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Sampling By : Yuttapong Rattana , Sakkarin Panpheng

Remark :

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