

ภาคผนวกที่ 2.1

ผลการตรวจวิเคราะห์คุณภาพน้ำผ่านการบำบัด (EFFLUENT)



Analysis/Test Report

Private Laboratory Registration ๓-๒๓๘

Customer Name : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Waste Water

Analytical Date : 12/07/2023

Sampling Method : Grab

Report Date : 19/07/2023

Sampling Date : 11/07/2023

Report No. : WT3830766001

Receive Date : 12/07/2023

Parameter	Unit	Method**	2000/07/23	2001/07/23	Standard
			Effluent Engineer room.	Effluent Beach	
*pH	-	Electrometric Method	7.0	7.3	5.5-9.0
*BOD	mg/L	5-Day BOD Test, Azide Modification	65	8	<30
*Total Suspended Solids	mg/L	Dried at 103-105 °C	53	16	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	590	439	<500
Oil & Grease	mg/L	Partition Gravimetric	4.0	2.0	<20
Settleable Solids	mg/L	Volumetric Method	0.2	0.2	<0.5
Sulfide	mg/L	Idometric Method	<0.1	<0.1	<1.0
TKN	mg/L	Kjeldahl	80.0	55.0	<35
Coliform, Total	MPN/100mL	APHA: 9221 B	9,000	7,500	<5,000
Coliform, Fecal	MPN/100mL	APHA: 9221 E	890	1,000	<1,000
Sample Condition		Observation	Turbid gray odour sediment	Turbid gray odour sediment	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 23rd Edition, 2017
(3)*** Pollution Control Department, Ministry of Natural Resources and environmental BE.2548, Thailand for wastewater analysis

Ph

(Miss.Phitsinee Phetcharut)

Analyst

๓-๒๓๘-๓-๒๘๐๐

19/07/2023



Siripen

(Mrs.Siripen Vitethap)

Laboratory Supervisor

๓-๒๓๘-๓-๒๘๐๐

19/07/2023

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Analysis/Test Report

Private Laboratory Registration ๓-๒๓๘

Customer Name : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Waste Water

Analytical Date : 09/08/2023

Sampling Method : Grab

Report Date : 16/08/2023

Sampling Date : 08/08/2023

Report No. : WT3830866001

Receive Date : 09/08/2023

Parameter	Unit	Method**	2454/08/23	2455/08/23	Standard
			Effluent Motorcycle parking lot	Effluent Engineer room.	
*pH	-	Electrometric Method	7.8	7.2	5.5-9.0
*BOD	mg/L	5-Day BOD Test, Azide Modification	11	13	<30
*Total Suspended Solids	mg/L	Dried at 103-105 °C	14	10	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	402	430	<500
Oil & Grease	mg/L	Partition Gravimetric	ND	ND	<20
Settleable Solids	mg/L	Volumetric Method	<0.1	<0.1	<0.5
Sulfide	mg/L	Idometric Method	<0.1	<0.1	<1.0
TKN	mg/L	Kjeldahl	8.5	11.4	<35
Coliform, Total	MPN/100mL	APHA: 9221 B	250	170	<5,000
Coliform, Fecal	MPN/100mL	APHA: 9221 E	100	52	<1,000
Sample Condition		Observation	Light yellow	Light yellow	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 23rd Edition, 2017
(3)*** Pollution Control Department, Ministry of Natural Resources and environmental BE.2548, Thailand for wastewater analysis

Jirapinya

(Miss.Jirapinya Tara)

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16/08/2023



Siripen

(Mrs.Siripen Vitethap)

Laboratory Supervisor

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16/08/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Waste Water

Analytical Date : 18/10/2023

Sampling Method : Grab

Report Date : 25/10/2023

Sampling Date : 17/10/2023

Report No. : WT3831066001

Receive Date : 18/10/2023

Parameter	Unit	Method**	3405/10/23	3406/10/23	Standard
			Effluent Beach	Effluent Motorcycle parking lot	
*pH	-	Electrometric Method	7.5	7.3	5.5-9.0
*BOD	mg/L	5-Day BOD Test, Azide Modification	12	8	<30
*Total Suspended Solids	mg/L	Dried at 103-105 °C	17	21	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	390	364	<500
Oil & Grease	mg/L	Partition Gravimetric	1.5	1.5	<20
Settleable Solids	mg/L	Volumetric Method	<0.1	<0.1	<0.5
Sulfide	mg/L	Idometric Method	<0.1	<0.1	<1.0
TKN	mg/L	Kjeldahl	21.40	23.90	<35
Coliform, Total	MPN/100mL	APHA: 9221 B	230	150	<5,000
Coliform, Fecal	MPN/100mL	APHA: 9221 E	74	60	<1,000
Sample Condition		Observation	Light yellow	Light yellow	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 23rd Edition, 2017
(3)*** Pollution Control Department, Ministry of Natural Resources and environmental BE.2548, Thailand for wastewater analysis



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25/10/2023





(Mrs.Siripen Vitethap)

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25/10/2023

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Analysis/Test Report

Private Laboratory Registration ๓-๒๓๘

Customer Name : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Waste Water

Analytical Date : 23/09/2023

Sampling Method : Grab

Report Date : 29/09/2023

Sampling Date : 22/09/2023

Report No. : WT3830966001

Receive Date : 23/09/2023

Parameter	Unit	Method**	3028/09/23	3029/09/23	Standard
			Effluent Motorcycle parking lot	Effluent Engineer room.	
*pH	-	Electrometric Method	7.3	7.0	5.5-9.0
*BOD	mg/L	5-Day BOD Test, Azide Modification	15	16	<30
*Total Suspended Solids	mg/L	Dried at 103-105 °C	20	21	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	321	352	<500
Oil & Grease	mg/L	Partition Gravimetric	ND	ND	<20
Settleable Solids	mg/L	Volumetric Method	<0.1	<0.1	<0.5
Sulfide	mg/L	Idometric Method	<0.1	<0.1	<1.0
TKN	mg/L	Kjeldahl	10.4	7.2	<35
Coliform, Total	MPN/100mL	APHA: 9221 B	180	201	<5,000
Coliform, Fecal	MPN/100mL	APHA: 9221 E	60	58	<1,000
Sample Condition		Observation	Light yellow	Light yellow	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 23rd Edition, 2017
(3)*** Pollution Control Department, Ministry of Natural Resources and environmental BE.2548, Thailand for wastewater analysis

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29/09/2023



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Analysis/Test Report

Private Laboratory Registration ๓-๒๓๘

Customer Name : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Waste Water

Analytical Date : 09/11/2023

Sampling Method : Grab

Report Date : 16/11/2023

Sampling Date : 08/11/2023

Report No. : WT3831166001

Receive Date : 09/11/2023

Parameter	Unit	Method**	3545/11/23	3546/11/23	Standard
			Effluent Engineer room	Effluent Motorcycle parking lot	
*pH	-	Electrometric Method	7.3	7.4	5.5-9.0
*BOD	mg/L	5-Day BOD Test, Azide Modification	10	16	<30
*Total Suspended Solids	mg/L	Dried at 103-105 °C	22	13	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	415	392	<500
Oil & Grease	mg/L	Partition Gravimetric	ND	ND	<20
Settleable Solids	mg/L	Volumetric Method	<0.1	<0.1	<0.5
Sulfide	mg/L	Idometric Method	<0.1	<0.1	<1.0
TKN	mg/L	Kjeldahl	29.45	33.40	<35
Coliform, Total	MPN/100mL	APHA: 9221 B	180	260	<5,000
Coliform, Fecal	MPN/100mL	APHA: 9221 E	55	78	<1,000
Sample Condition		Observation	Light yellow	Light yellow	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 23rd Edition, 2017
(3)*** Pollution Control Department, Ministry of Natural Resources and environmental BE.2548, Thailand for wastewater analysis

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer Name : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Waste Water

Analytical Date : 23/12/2023

Sampling Method : Grab

Report Date : 29/12/2023

Sampling Date : 22/12/2023

Report No. : WT3831166001

Receive Date : 23/12/2023

Parameter	Unit	Method**	3914/12/23	3912/12/23	Standard ***
			Influent Engineer room	Effluent Engineer room	
*pH	-	Electrometric Method	7.6	7.3	5.5-9.0
*BOD	mg/L	5-Day BOD Test, Azide Modification	160	11	<30
*Total Suspended Solids	mg/L	Dried at 103-105 °C	94	16	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	480	311	<500
Oil & Grease	mg/L	Partition Gravimetric	3.1	1.0	<20
Settleable Solids	mg/L	Volumetric Method	5.0	<0.1	<0.5
Sulfide	mg/L	Idometric Method	1.7	<0.1	<1.0
TKN	mg/L	Kjeldahl	118.0	14.50	<35
Coliform, Total	MPN/100mL	APHA: 9221 B	>160,000	84,000	<5,000
Coliform, Fecal	MPN/100mL	APHA: 9221 E	>160,000	71,000	<1,000
Sample Condition		Observation	Turbidity black sediment	Turbidity gray sediment	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 23rd Edition, 2017
(3)*** Pollution Control Department, Ministry of Natural Resources and environmental BE.2548, Thailand for wastewater analysis



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Analysis/Test Report

Private Laboratory Registration ๓-๒๓๘

Customer Name : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Waste Water

Analytical Date : 23/12/2023

Sampling Method : Grab

Report Date : 29/12/2023

Sampling Date : 22/12/2023

Report No. : WT3831266002

Receive Date : 23/12/2023

Parameter	Unit	Method**	3915/12/23	3913/12/23	Standard
			Influent Beach	Effluent Beach	
*pH	-	Electrometric Method	7.5	7.1	5.5-9.0
*BOD	mg/L	5-Day BOD Test, Azide Modification	118	20	<30
*Total Suspended Solids	mg/L	Dried at 103-105 °C	86	22	<40
*Total Dissolved Solids	mg/L	Dried at 180 °C	384	394	<500
Oil & Grease	mg/L	Partition Gravimetric	4.0	ND	<20
Settleable Solids	mg/L	Volumetric Method	6.0	<0.1	<0.5
Sulfide	mg/L	Idometric Method	2.6	<0.1	<1.0
TKN	mg/L	Kjeldahl	107.50	10.40	<35
Coliform, Total	MPN/100mL	APHA: 9221 B	>160,000	56,000	<5,000
Coliform, Fecal	MPN/100mL	APHA: 9221 E	>160,000	29,000	<1,000
Sample Condition		Observation	Turbidity black sediment	Turbidity gray sediment	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Works
(2)** Method Based on Standard Methods for The examination of Water & Wastewater, APHA,AWWA,WEF 23rd Edition, 2017
(3)*** Pollution Control Department, Ministry of Natural Resources and environmental BE.2548, Thailand for wastewater analysis


(Miss.Jirapinya Tara)

Analyst

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29/12/2023




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Laboratory Supervisor

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29/12/2023

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ภาคผนวกที่ 2.2

ผลการตรวจวิเคราะห์คุณภาพน้ำสระว่ายน้ำ (SWIMMING POOL)



Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 12/07/2023

Sampling Method : Grab

Report Date : 18/07/2023

Sampling Date : 11/07/2023

Report No. : WT2670766002

Received Date : 12/07/2023

Parameter	Unit	Method**	2030/07/23	Standard
			Swimming Pool A	
pH	-	Electrometric Method	7.2	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	1.0	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.56	0.5 – 1.0
Alkalinity	ppm	Titration Method	86	80 – 100
Calcium hardness	mg/L	Titration Method	280	250 – 600
Cyanuric acid	mg/L	Turbidimetric	38.00	30 – 60
Chloride	mg/L	Titration Method	199	<600
Ammonia	mg/L	Phenate Method	5.0	<20
Nitrate	mg/L	Nitrate Electrode	0.7100	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis


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(Miss. Phitsinee Phetcharut)

Analyst

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12/07/2023




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(Mrs. Siripen Vitethap)

Laboratory Supervisor

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12/07/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 09/08/2023

Sampling Method : Grab

Report Date : 16/08/2023

Sampling Date : 08/08/2023

Report No. : WT2670866002

Received Date : 09/08/2023

Parameter	Unit	Method**	2452/08/23	Standard
			Swimming Pool A	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.80	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.77	0.5 – 1.0
Alkalinity	ppm	Titration Method	91	80 – 100
Calcium hardness	mg/L	Titration Method	261	250 – 600
Cyanuric acid	mg/L	Turbidimetric	35.10	30 – 60
Chloride	mg/L	Titration Method	250	<600
Ammonia	mg/L	Phenate Method	7.20	<20
Nitrate	mg/L	Nitrate Electrode	0.9500	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



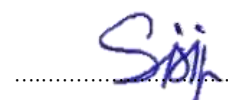
(Miss.Jirapinya Tara)

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16/08/2023





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Laboratory Supervisor

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16/08/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 09/08/2023

Sampling Method : Grab

Report Date : 16/08/2023

Sampling Date : 08/08/2023

Report No. : WT2670866003

Received Date : 09/08/2023

Parameter	Unit	Method**	2453/08/23	Standard
			Swimming Pool B	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.74	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.53	0.5 – 1.0
Alkalinity	ppm	Titration Method	90	80 – 100
Calcium hardness	mg/L	Titration Method	290	250 – 600
Cyanuric acid	mg/L	Turbidimetric	32.00	30 – 60
Chloride	mg/L	Titration Method	345	<600
Ammonia	mg/L	Phenate Method	15.00	<20
Nitrate	mg/L	Nitrate Electrode	0.7700	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



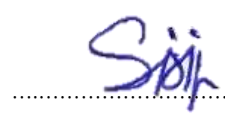
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16/08/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

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16/08/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 23/09/2023

Sampling Method : Grab

Report Date : 29/09/2023

Sampling Date : 22/09/2023

Report No. : WT2670966002

Received Date : 23/09/2023

Parameter	Unit	Method**	3034/09/23	Standard
			Swimming Pool A	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.74	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.63	0.5 – 1.0
Alkalinity	ppm	Titration Method	94	80 – 100
Calcium hardness	mg/L	Titration Method	301	250 – 600
Cyanuric acid	mg/L	Turbidimetric	37.60	30 – 60
Chloride	mg/L	Titration Method	418	<600
Ammonia	mg/L	Phenate Method	3.20	<20
Nitrate	mg/L	Nitrate Electrode	0.8100	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



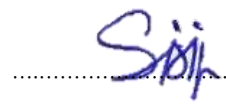
(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

29/09/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

29/09/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 23/09/2023

Sampling Method : Grab

Report Date : 29/09/2023

Sampling Date : 22/09/2023

Report No. : WT2670966003

Received Date : 23/09/2023

Parameter	Unit	Method**	3055/09/23	Standard
			Swimming Pool B	
pH	-	Electrometric Method	7.9	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.88	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.70	0.5 – 1.0
Alkalinity	ppm	Titration Method	98	80 – 100
Calcium hardness	mg/L	Titration Method	289	250 – 600
Cyanuric acid	mg/L	Turbidimetric	37.30	30 – 60
Chloride	mg/L	Titration Method	392	<600
Ammonia	mg/L	Phenate Method	9.00	<20
Nitrate	mg/L	Nitrate Electrode	0.7100	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



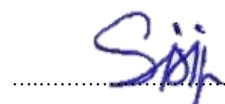
(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

29/09/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

29/09/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 12/07/2023

Sampling Method : Grab

Report Date : 18/07/2023

Sampling Date : 11/07/2023

Report No. : WT2670766003

Received Date : 12/07/2023

Parameter	Unit	Method**	2031/07/23	Standard
			Swimming Pool B	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.81	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.62	0.5 – 1.0
Alkalinity	ppm	Titration Method	83	80 – 100
Calcium hardness	mg/L	Titration Method	258	250 – 600
Cyanuric acid	mg/L	Turbidimetric	40.00	30 – 60
Chloride	mg/L	Titration Method	271	<600
Ammonia	mg/L	Phenate Method	8.2	<20
Nitrate	mg/L	Nitrate Electrode	0.7400	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis


.....
(Miss. Phitsinee Phetcharut)

Analyst

๖-๒๓๘-๖-๖๘๐๐

18/07/2023




.....
(Mrs. Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๖๘๐๐

18/07/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 18/10/2023

Sampling Method : Grab

Report Date : 25/10/2023

Sampling Date : 17/10/2023

Report No. : WT2671066002

Received Date : 18/10/2023

Parameter	Unit	Method**	3424/10/23	Standard
			Swimming Pool A	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.92	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.54	0.5 – 1.0
Alkalinity	ppm	Titration Method	89	80 – 100
Calcium hardness	mg/L	Titration Method	299	250 – 600
Cyanuric acid	mg/L	Turbidimetric	41.20	30 – 60
Chloride	mg/L	Titration Method	286	<600
Ammonia	mg/L	Phenate Method	8.40	<20
Nitrate	mg/L	Nitrate Electrode	0.7100	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

25/10/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

25/10/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 18/10/2023

Sampling Method : Grab

Report Date : 25/10/2023

Sampling Date : 17/10/2023

Report No. : WT2671066003

Received Date : 18/10/2023

Parameter	Unit	Method**	3425/10/23	Standard
			Swimming Pool B	
pH	-	Electrometric Method	7.3	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.61	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.56	0.5 – 1.0
Alkalinity	ppm	Titration Method	85	80 – 100
Calcium hardness	mg/L	Titration Method	300	250 – 600
Cyanuric acid	mg/L	Turbidimetric	35.90	30 – 60
Chloride	mg/L	Titration Method	443	<600
Ammonia	mg/L	Phenate Method	7.00	<20
Nitrate	mg/L	Nitrate Electrode	0.8700	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

25/10/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

25/10/2023

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Analysis/Test Report

Private Laboratory Registration ๓-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 09/11/2023

Sampling Method : Grab

Report Date : 16/11/2023

Sampling Date : 08/11/2023

Report No. : WT2671166003

Received Date : 09/11/2023

Parameter	Unit	Method**	3564/11/23	Standard
			Swimming Pool A	
pH	-	Electrometric Method	7.8	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.54	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.67	0.5 – 1.0
Alkalinity	ppm	Titration Method	90	80 – 100
Calcium hardness	mg/L	Titration Method	289	250 – 600
Cyanuric acid	mg/L	Turbidimetric	90	30 – 60
Chloride	mg/L	Titration Method	271	<600
Ammonia	mg/L	Phenate Method	7.10	<20
Nitrate	mg/L	Nitrate Electrode	0.7900	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis

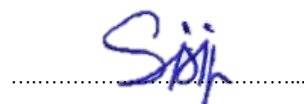

.....
(Miss.Jirapinya Tara)

Analyst

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16/11/2023




.....

(Mrs.Siripen Vitethap)

Laboratory Supervisor

๓-๒๓๘-๓-๐๐๐๑

16/11/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 23/12/2023

Sampling Method : Grab

Report Date : 29/12/2023

Sampling Date : 22/12/2023

Report No. : WT2671266002

Received Date : 23/12/2023

Parameter	Unit	Method**	3932/12/23	Standard
			Swimming Pool A	
pH	-	Electrometric Method	7.8	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.74	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.60	0.5 – 1.0
Alkalinity	ppm	Titration Method	97	80 – 100
Calcium hardness	mg/L	Titration Method	305	250 – 600
Cyanuric acid	mg/L	Turbidimetric	38.30	30 – 60
Chloride	mg/L	Titration Method	455	<600
Ammonia	mg/L	Phenate Method	10.20	<20
Nitrate	mg/L	Nitrate Electrode	0.9500	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis

(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

29/12/2023



(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

29/12/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Swimming water

Analytical Date : 23/12/2023

Sampling Method : Grab

Report Date : 29/12/2023

Sampling Date : 22/12/2023

Report No. : WT2671266003

Received Date : 23/12/2023

Parameter	Unit	Method**	3933/12/23	Standard
			Swimming Pool B	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.68	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.51	0.5 – 1.0
Alkalinity	ppm	Titration Method	94	80 – 100
Calcium hardness	mg/L	Titration Method	280	250 – 600
Cyanuric acid	mg/L	Turbidimetric	41.50	30 – 60
Chloride	mg/L	Titration Method	480	<600
Ammonia	mg/L	Phenate Method	8.90	<20
Nitrate	mg/L	Nitrate Electrode	0.7500	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis



(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

29/12/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

29/12/2023

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Analysis/Test Report

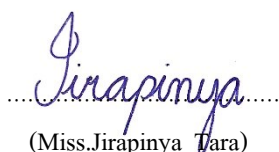
Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui
Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320
Sample Type : Swimming water **Analytical Date** : 09/11/2023
Sampling Method : Grab **Report Date** : 16/11/2023
Sampling Date : 08/11/2023 **Report No.** : WT2671166004
Received Date : 09/11/2023

Parameter	Unit	Method**	3565/11/23	Standard ***
			Swimming Pool B	
pH	-	Electrometric Method	7.6	7.2 – 8.4
Free chlorine	ppm	Photometer (DPD)	0.80	0.6 – 1.0
Combined chlorine	ppm	Photometer (DPD)	0.55	0.5 – 1.0
Alkalinity	ppm	Titration Method	88	80 – 100
Calcium hardness	mg/L	Titration Method	330	250 – 600
Cyanuric acid	mg/L	Turbidimetric	35.30	30 – 60
Chloride	mg/L	Titration Method	450	<600
Ammonia	mg/L	Phenate Method	8.10	<20
Nitrate	mg/L	Nitrate Electrode	0.7900	<50
Coliform, Total	MPN/1000mL	APHA: 9221 B	ND	<10
Coliform, Fecal	MPN/1000mL	APHA: 9221 E	ND	Not detected
E.coli	MPN/1000mL	APHA: 9221 G	ND	Not detected
Staphylococcus aureus	MPN/1000mL	APHA: 9213 B	ND	Not detected
Pseudomonas aeruginosa	MPN/1000mL	ISO 1622	ND	Not detected
Appearance		Observation	Clear	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
(3)***Ministry of Public Health BE.2550, Thailand for swimming pool analysis

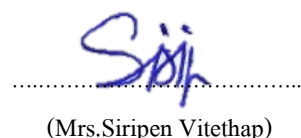

(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

16/11/2023




(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

16/11/2023

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ภาคผนวกที่ 2.3

ผลการตรวจวิเคราะห์คุณภาพน้ำใช้ (WATER SUPPLY)



Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Tap Water

Analytical Date : 11/07/2023

Sampling Method : Grab

Report Date : 18/07/2023

Sampling Date : 11/07/2023

Report No. : WT3830766001

Received Date : 11/07/2023

Parameter	Unit	Method**	2029/07/23	Standard ***
			Cold water room. 3107	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	Not detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	Not detected
Appearance		Observation	Clear	

Remark : :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Water quality standards Ministry of Public Health, Department of Health,2020

(Miss. Phitsinee Phetcharut)

Analyst

๖-๒๓๘-๖-๖๘๐๐

18/07/2023



(Mrs. Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๖๘๐๐

18/07/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Tap Water

Analytical Date : 09/08/2023

Sampling Method : Grab

Report Date : 16/08/2023

Sampling Date : 08/08/2023

Report No. : WT3830866001

Received Date : 09/08/2023

Parameter	Unit	Method**	2451/08/23	Standard ***
			Cold water room. 2102	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	Not detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	Not detected
Appearance		Observation	Clear	

Remark : :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Water quality standards Ministry of Public Health, Department of Health,2020



(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

16/08/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

16/08/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Tap Water

Analytical Date : 23/09/2023

Sampling Method : Grab

Report Date : 29/09/2023

Sampling Date : 22/09/2023

Report No. : WT3830966001

Received Date : 23/09/2023

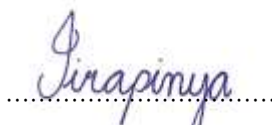
Parameter	Unit	Method**	3153/09/23	Standard ***
			Cold water room. 2110	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	Not detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	Not detected
Appearance		Observation	Clear	

Remark :

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Water quality standards Ministry of Public Health, Department of Health,2020



(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

29/09/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

29/09/2023

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Analysis/Test Report

Private Laboratory Registration ๓-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Tap Water

Analytical Date : 18/10/2023

Sampling Method : Grab

Report Date : 25/10/2023

Sampling Date : 17/10/2023

Report No. : WT3831066001

Received Date : 18/10/2023

Parameter	Unit	Method**	3423/10/23	Standard ***
			Cold water Thai kitchen	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	Not detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	Not detected
Appearance		Observation	Clear	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
(3)***Water quality standards Ministry of Public Health, Department of Health,2020



(Miss.Jirapinya Tara)

Analyst

๓-๒๓๘-๓-๐๐๐๒

25/10/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

๓-๒๓๘-๓-๐๐๐๑

25/10/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 Chaweng Beach Rd., Bop hut, Koh Samui, Surat Thani, 84320

Sample Type : Tap Water

Analytical Date : 09/11/2023

Sampling Method : Grab

Report Date : 16/11/2023

Sampling Date : 08/11/2023

Report No. : WT2671166001

Received Date : 09/11/2023

Parameter	Unit	Method**	3563/11/23	Standard ***
			Cold water Room.3219	
*pH	-	Electrometric Method	7.3	6.5-8.5
*Total Dissolved Solids	mg/L	Dried at 180 °C	156	<1,000
Total Hardness	mg/L	Titration Method	22	<500
Chloride	mg/L	Titration Method	33	<250
Turbidity	Silica Scale Unit	Nephelometric Method	0.2	<15
Color	Hazen Unit	Visual Comparison Method	2	<15
Sulfate	mg/L as SO_4^{2-}	Turbidimetric	74	<250
Fluoride	mg/L	SPADNS	0.1	<0.7
N-Nitrate	mg/L	Nitrate Electrode	0.88	<50
Manganese	mg/L	ICP	ND	<0.3
Appearance		Observation	Clear	

Remark:

(1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work

(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017

(3)***Water quality standards Ministry of Public Health, Department of Health,2020


.....

(Miss.Jirapinya Tara)

Analyst

๖-๒๓๘-๖-๐๐๐๒

16/11/2023




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(Mrs.Siripen Vitethap)

Laboratory Supervisor

๖-๒๓๘-๖-๐๐๐๑

16/11/2023

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Analysis/Test Report

Private Laboratory Registration ๖-๒๓๘

Customer : Amari Koh Samui
Address : 14/3 Chaweng Beach Rd., Bop hut, Koh Samui, Surat Thani, 84320
Sample Type : Tap Water **Analytical Date** : 09/11/2023
Sampling Method : Grab **Report Date** : 16/11/2023
Sampling Date : 08/11/2023 **Report No.** : WT2671166002
Received Date : 09/11/2023

Parameter	Unit	Method**	3563/11/23	Standard ***
			Cold water Room. 3219	
Copper	mg/L	ICP	ND	<1.0
Total Iron	mg/L	Photometer (Phenanthroline)	ND	<0.5
Zinc	mg/L	ICP	0.062	<3.0
Mercury	mg/L	ICP- Hydried	<0.0005	<0.001
Lead	mg/L	IPC	<0.005	<0.01
Arsenic	mg/L	ICP- Hydried	<0.001	<0.01
Chromium	mg/L	ICP	0.002	<0.05
Cadmium	mg/L	ICP	<0.001	<0.003
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	Not Detected
Coliform, Fecal	MPN/100 mL	APHA:92121 E	ND	Not Detected
Appearance		Observation	Clear	

Remark:

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
(3)***Water quality standards Ministry of Public Health, Department of Health,2020


(Miss.Jirapinya Tara)
Analyst
๖-๒๓๘-๖-๐๐๐๒
16/11/2023




(Mrs.Siripen Vitethap)
Laboratory Supervisor
๖-๒๓๘-๖-๐๐๐๑
16/11/2023

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Analysis/Test Report

Private Laboratory Registration ๓-๒๓๘

Customer : Amari Koh Samui

Address : 14/3 chaweng Beach Rd., Bophut, Koh samui, Suratthani, 84320

Sample Type : Tap Water

Analytical Date : 23/12/2023

Sampling Method : Grab

Report Date : 29/12/2023

Sampling Date : 22/12/2023

Report No. : WT3831266001

Received Date : 23/12/2023

Parameter	Unit	Method**	3931/12/23	Standard ***
			Cold water Room. 5106	
Coliform, Total	MPN/100 mL	APHA: 9221 B	ND	Not detected
Coliform, Fecal	MPN/100 mL	APHA: 9221 E	ND	Not detected
Appearance		Observation	Clear	

Remark :

- (1)* Types of pollutants allowed to apply for the registration of private analytical laboratories. Department of Industrial Work
(2)** Method Based on Standard Methods for The examination of Water & Wastewater 23rd Edition, 2017
(3)***Water quality standards Ministry of Public Health, Department of Health,2020



(Miss.Jirapinya Tara)

Analyst

๓-๒๓๘-๓-๐๐๐๒

29/12/2023





(Mrs.Siripen Vitethap)

Laboratory Supervisor

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29/12/2023

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