



Analysis Report CH2300038



Accreditation No.1031/47

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300
P/O : ----
Project : ----
Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300038
Report Number : CH2300038-AB
Date Received : Jul 13, 2023
Date Reported : Jul 21, 2023
Date Analysis Commenced : Jul 13, 2023
No. of samples received : 3
Temperature : 3.8 °C
Sampled by : Chaloamkiat Amornsriserm
(๖-204-๖-6128)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Kittitee Jamjumroon
Scientist (3)

Kanokkorn Anek
Senior Manager
๖-204-๖-6111



Analysis Report CH2300038

Report Number : CH2300038-AB



Accreditation No.1031/47

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300038-003	สระว่ายน้ำ : ส่วนต้น	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300038-004	สระว่ายน้ำ : ส่วนลึก	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300038-005	จุดปล่อยน้ำก่อนออกสู่สาธารณะ	----	----	1x Plastic bottle - Preserved with H ₂ SO ₄ , 2x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, 1x 1L Oil & Grease, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - S2 (C, F)
EN0035	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Norg (C)
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (C)
EN0048	Bangkok	In - house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
EN0093	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F
EN0099	Bangkok	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
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D
MC6009	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B,F
MC6022	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E



Analysis Report CH2300038

Report Number : CH2300038-AB



Accreditation No.1031/47

Sub-Matrix: WASTEWATER

Client Sample ID

(Matrix: WATER)

Sub-Matrix: WASTEWATER (Matrix: WATER)							Client Sample ID		จุดปล่อยน้ำก่อนออกสู่ สาธารณะ	----	----
							Sampling Date		Jul 12, 2023 03:10 PM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300038-005	-----	-----	
						MNRE 2548 Type B	MOPH 1/2550	Result	----	----	
Chemical Parameters											
EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤30	----	16	----	----	
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	3	----	----	
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.7	----	----	
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5	----	----	
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	19.0	----	----	
Microbiological Parameters											
MC6022	Bangkok	Fecal Coliforms	----	----	MPN/100mL	----	----	330000	----	----	
Physical and Aggregate Properties											
EN0093	Bangkok	Settleable Solids	----	0.1	mL/L/hr	≤0.5	----	0.1	----	----	
EN0099	Bangkok	Total Dissolved Solids at 103-105°C	----	5	mg/L	≤500	----	292	----	----	
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤40	----	19	----	----	



Analysis Report CH2300038

Report Number : CH2300038-AB



Accreditation No.1031/47

Sub-Matrix: PROCESS WATER

Client Sample ID

สระวายน้ำ : ส่วนต้น

สระวายน้ำ : ส่วนลึก

(Matrix: WATER)

Sampling Date								Jul 12, 2023 02:50 PM	Jul 12, 2023 03:00 PM	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300038-003	CH2300038-004	-----
						MNRE 2548 Type B	MOPH 1/2550	Result	Result	----
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	<1.1	<1.1	----
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	Not Detected	Not Detected	Not Detected	----

Guideline: MNRE 2548 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B (Guideline for TDS are in addition to the TDS of the water used not more than 500 mg/L)

MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

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

Sampling is not included in scope of accreditation ISO/IEC 17025

Key: ° LOD : Limit of Detection

° "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

----- END OF REPORT -----



Analysis Report CH2300038



Accreditation No.1031/47

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300
P/O : ----
Project : ----
Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300038
Report Number : CH2300038-AA
Date Received : Jul 13, 2023
Date Reported : Jul 21, 2023
Date Analysis Commenced : Jul 13, 2023
No. of samples received : 2
Temperature : 3.8 °C
Sampled by : Chaloamkiat Amornsriserm

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Kittitee Jamjumroon
Scientist (3)



Analysis Report CH2300038

Report Number : CH2300038-AA



Accreditation No.1031/47

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300038-001	อาคาร A : น้ำดี	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300038-002	อาคาร B : น้ำดี	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 F



Analysis Report CH2300038

Report Number : CH2300038-AA



Accreditation No.1031/47

Sub-Matrix: PROCESS WATER

Client Sample ID

อาคาร A : น้ำดี

อาคาร B : น้ำดี

(Matrix: WATER)

Sampling Date

Jul 12, 2023 02:40 PM

Jul 12, 2023 02:45 PM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300038-001	CH2300038-002	-----
						----	----	Result	Result	----
Microbiological Parameters										
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	----	Not Detected	Not Detected	----

Guideline: ----

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

Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

° LOD : Limit of Detection

° "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

----- END OF REPORT -----



Analysis Report CH2300065



TESTING
No.0009

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300

P/O : ----

Project : ----

Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300065

Report Number : CH2300065-AA

Date Received : Aug 09, 2023

Date Reported : Aug 19, 2023

Date Analysis Commenced : Aug 09, 2023

No. of samples received : 3

Temperature : 4.0 °C

Sampled by : Chaloamkiat Amornsriserm

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Kittitee Jamjumroon
Scientist (3)



Analysis Report CH2300065

Report Number : CH2300065-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300065-001	จุดปล่อยน้ำก่อนออกสู่สาธารณะ	----	----	1x Plastic bottle - Preserved with H ₂ SO ₄ , 2x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, 1x 1L Oil & Grease, refrigerated
CH2300065-002	สระว่ายน้ำ : ส่วนต้น	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300065-003	สระว่ายน้ำ : ส่วนลึก	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - S2 (C, F)
EN0035	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Norg (C)
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (C)
EN0048	Bangkok	In - house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
EN0093	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F
EN0099	Bangkok	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
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D
MC6009	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B,F
MC6022	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E



Analysis Report CH2300065

Report Number : CH2300065-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

(Matrix: WATER)

Sub-Matrix: WASTEWATER (Matrix: WATER)							Client Sample ID		จุดปล่อยน้ำก่อนออกสู่ สาธารณะ	----	----
							Sampling Date		Aug 08, 2023 02:30 PM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300065-001	-----	-----	
						MNRE 2548 Type B	MOPH 1/2550	Result	----	----	
Chemical Parameters											
EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤30	----	15 *	----	----	
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	<3	----	----	
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.6	----	----	
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	----	----	
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	32.5 *	----	----	
Microbiological Parameters											
MC6022	Bangkok	Fecal Coliforms	----	----	MPN/100mL	----	----	790000	----	----	
Physical and Aggregate Properties											
EN0093	Bangkok	Settleable Solids	----	0.1	mL/L/hr	≤0.5	----	0.2 *	----	----	
EN0099	Bangkok	Total Dissolved Solids at 103-105°C	----	5	mg/L	≤500	----	228	----	----	
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤40	----	51	----	----	



Analysis Report CH2300065

Report Number : CH2300065-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระว่ายน้ : ส่วนต้น

สระว่ายน้ : ส่วนลึก

(Matrix: WATER)

Sampling Date

Aug 08, 2023 02:35 PM

Aug 08, 2023 02:45 PM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300065-002	CH2300065-003	-----
						MNRE 2548 Type B	MOPH 1/2550	Result	Result	----
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	<1.1	<1.1	----
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	Not Detected	Not Detected	Not Detected	----

Guideline: MNRE 2548 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B (Guideline for TDS are in addition to the TDS of the water used not more than 500 mg/L)

MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

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

Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- ° LOD : Limit of Detection
 - ° "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - ° Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----



Analysis Report CH2300089



TESTING
No.0009

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300
P/O : ----
Project : ----
Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300089
Report Number : CH2300089-AA
Date Received : Sep 13, 2023
Date Reported : Sep 22, 2023
Date Analysis Commenced : Sep 13, 2023
No. of samples received : 3
Temperature : 2.6 °C
Sampled by : Chaloamkiat Amornsriserm

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Kanokkorn Anek
Senior Manager



Analysis Report CH2300089

Report Number : CH2300089-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300089-001	จุดปล่อยน้ำก่อนออกสู่สาธารณะ	----	----	1x Plastic bottle - Preserved with H ₂ SO ₄ , 2x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, 1x 1L Oil & Grease, refrigerated
CH2300089-002	สระว่ายน้ำ : ส่วนต้น	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300089-003	สระว่ายน้ำ : ส่วนลึก	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - S2 (C, F)
EN0035	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Norg (C)
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (C)
EN0048	Bangkok	In - house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
EN0093	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F
EN0099	Bangkok	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
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D
MC6009	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B,F
MC6022	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E



Analysis Report CH2300089

Report Number : CH2300089-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

(Matrix: WATER)

Sub-Matrix: WASTEWATER (Matrix: WATER)							Client Sample ID		จุดปล่อยน้ำก่อนออกสู่ สาธารณะ	----	----
							Sampling Date		Sep 12, 2023 01:00 PM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300089-001	-----	-----	
						MNRE 2548 Type B	MOPH 1/2550	Result	----	----	
Chemical Parameters											
EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤30	----	15 *	----	----	
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	<3	----	----	
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.5	----	----	
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5 *	----	----	
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	17.5 *	----	----	
Microbiological Parameters											
MC6022	Bangkok	Fecal Coliforms	----	----	MPN/100mL	----	----	330000	----	----	
Physical and Aggregate Properties											
EN0093	Bangkok	Settleable Solids	----	0.1	mL/L/hr	≤0.5	----	<0.1 *	----	----	
EN0099	Bangkok	Total Dissolved Solids at 103-105°C	----	5	mg/L	≤500	----	280	----	----	
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤40	----	14	----	----	



Analysis Report CH2300089

Report Number : CH2300089-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระว่ายน้ : ส่วนต้น

สระว่ายน้ : ส่วนลึก

(Matrix: WATER)

Sampling Date

Sep 12, 2023 01:10 PM

Sep 12, 2023 01:15 PM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300089-002	CH2300089-003	-----
						MNRE 2548 Type B	MOPH 1/2550	Result	Result	----
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	<1.1	<1.1	----
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	Not Detected	Not Detected	Not Detected	----

Guideline: MNRE 2548 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B (Guideline for TDS are in addition to the TDS of the water used not more than 500 mg/L)

MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

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

Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- ° LOD : Limit of Detection
 - ° "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - ° Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----



Analysis Report CH2300126



TESTING
No.0009

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300
P/O : ----
Project : ----
Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300126
Report Number : CH2300126-AA
Date Received : Oct 10, 2023
Date Reported : Oct 20, 2023
Date Analysis Commenced : Oct 10, 2023
No. of samples received : 3
Temperature : 2.3 °C
Sampled by : Takdanai Ubonsri

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Kittitee Jamjumroon
Scientist (3)



Analysis Report CH2300126

Report Number : CH2300126-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300126-001	จุดปล่อยน้ำก่อนออกสู่สาธารณะ	----	----	1x Plastic bottle - Preserved with H ₂ SO ₄ , 2x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, 1x 1L Oil & Grease, refrigerated
CH2300126-002	สระว่ายน้ำ : ส่วนต้น	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300126-003	สระว่ายน้ำ : ส่วนลึก	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - S2 (C, F)
EN0035	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Norg (C)
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (C)
EN0048	Bangkok	In - house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
EN0093	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F
EN0099	Bangkok	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
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D
MC6009	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B,F
MC6022	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E



Analysis Report CH2300126

Report Number : CH2300126-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

(Matrix: WATER)

Sub-Matrix: WASTEWATER (Matrix: WATER)							Client Sample ID		จุดปล่อยน้ำก่อนออกสู่ สาธารณะ	----	----
							Sampling Date		Oct 09, 2023 10:00 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300126-001	-----	-----	
						MNRE 2548 Type B	MOPH 1/2550	Result	----	----	
Chemical Parameters											
EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤30	----	5	----	----	
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	3	----	----	
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.3	----	----	
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	<0.5	----	----	
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	11.4	----	----	
Microbiological Parameters											
MC6022	Bangkok	Fecal Coliforms	----	----	MPN/100mL	----	----	240000	----	----	
Physical and Aggregate Properties											
EN0093	Bangkok	Settleable Solids	----	0.1	mL/L/hr	≤0.5	----	<0.1	----	----	
EN0099	Bangkok	Total Dissolved Solids at 103-105°C	----	5	mg/L	≤500	----	196	----	----	
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤40	----	15	----	----	



Analysis Report CH2300126

Report Number : CH2300126-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระว่ายนน้ำ : ส่วนต้น

สระว่ายนน้ำ : ส่วนลึก

(Matrix: WATER)

Sampling Date

Oct 09, 2023 10:10 AM

Oct 09, 2023 10:20 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300126-002	CH2300126-003	-----
						MNRE 2548 Type B	MOPH 1/2550	Result	Result	----
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	12	>23	----
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	Not Detected	Detected	Detected	----

Guideline: MNRE 2548 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B (Guideline for TDS are in addition to the TDS of the water used not more than 500 mg/L)

MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

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

Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

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

----- END OF REPORT -----



Analysis Report CH2300126



TESTING
No.0009

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300
P/O : ----
Project : ----
Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300126
Report Number : CH2300126-AB
Date Received : Oct 10, 2023
Date Reported : Oct 20, 2023
Date Analysis Commenced : Oct 10, 2023
No. of samples received : 2
Temperature : 2.3 °C
Sampled by : Takdanai Ubonsri

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Kittitee Jamjumroon
Scientist (3)



Analysis Report CH2300126

Report Number : CH2300126-AB



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300126-004	อาคาร A : น้ำดี	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300126-005	อาคาร B : น้ำดี	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 F



Analysis Report CH2300126

Report Number : CH2300126-AB



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

อาคาร A : น้ำดี

อาคาร B : น้ำดี

(Matrix: WATER)

Sampling Date

Oct 09, 2023 10:30 AM

Oct 09, 2023 10:40 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300126-004	CH2300126-005	-----
						---	---	Result	Result	---
Microbiological Parameters										
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	----	Not Detected	Not Detected	----

Guideline: ----

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

Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

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

----- END OF REPORT -----



Analysis Report CH2300155



TESTING
No.0009

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300

P/O : ----

Project : ----

Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300155

Report Number : CH2300155-AA

Date Received : Nov 07, 2023

Date Reported : Nov 16, 2023

Date Analysis Commenced : Nov 07, 2023

No. of samples received : 3

Temperature : 4.1 °C

Sampled by : Tanakron Insuta

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Siriluk Puengpang
Section Head



Analysis Report CH2300155

Report Number : CH2300155-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300155-001	จุดปล่อยน้ำก่อนออกสู่สาธารณะ	----	----	1x Plastic bottle - Preserved with H ₂ SO ₄ , 2x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, 1x 1L Oil & Grease, refrigerated
CH2300155-002	สระว่ายน้ำ : ส่วนต้น	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300155-003	สระว่ายน้ำ : ส่วนลึก	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - S2 (C, F)
EN0035	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - Norg (C)
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (C)
EN0048	Bangkok	In - house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
EN0093	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F
EN0099	Bangkok	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
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D
MC6009	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B,F
MC6022	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E



Analysis Report CH2300155

Report Number : CH2300155-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

(Matrix: WATER)

Sub-Matrix: WASTEWATER (Matrix: WATER)							Client Sample ID		จุดปล่อยน้ำก่อนออกสู่ สาธารณะ	----	----
							Sampling Date		Nov 06, 2023 11:00 AM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300155-001	-----	-----	
						MNRE 2548 Type B	MOPH 1/2550	Result	----	----	
Chemical Parameters											
EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤30	----	4 *	----	----	
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	6	----	----	
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	7.9	----	----	
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	0.6 *	----	----	
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	25.9 *	----	----	
Microbiological Parameters											
MC6022	Bangkok	Fecal Coliforms	----	----	MPN/100mL	----	----	2400000	----	----	
Physical and Aggregate Properties											
EN0093	Bangkok	Settleable Solids	----	0.1	mL/L/hr	≤0.5	----	<0.1 *	----	----	
EN0099	Bangkok	Total Dissolved Solids at 103-105°C	----	5	mg/L	≤500	----	288	----	----	
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤40	----	14	----	----	



Analysis Report CH2300155

Report Number : CH2300155-AA



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระว่ายน้ : ส่วนต้น

สระว่ายน้ : ส่วนลึก

(Matrix: WATER)

Sampling Date

Nov 06, 2023 11:05 AM

Nov 06, 2023 11:10 AM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300155-002	CH2300155-003	-----
						MNRE 2548 Type B	MOPH 1/2550	Result	Result	----
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	----	<10	<1.1	<1.1	----
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	----	Not Detected	Not Detected	Not Detected	----

Guideline: MNRE 2548 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B (Guideline for TDS are in addition to the TDS of the water used not more than 500 mg/L)

MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

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

Sampling is not included in scope of accreditation ISO/IEC 17025

- Key:
- ° LOD : Limit of Detection
 - ° "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
 - ° Result(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

----- END OF REPORT -----



Analysis Report CH2300180



TESTING
No.0009

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300
P/O : ----
Project : ----
Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300180
Report Number : CH2300180-AA
Date Received : Dec 15, 2023
Date Reported : Dec 25, 2023
Date Analysis Commenced : Dec 15, 2023
No. of samples received : 1
Temperature : 3.1 °C
Sampled by : Sitthichok Taseeda

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Tuanjai Thangklang
Manager



Analysis Report CH2300180

Report Number : CH2300180-AA



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300180-001	จุดปล่อยน้ำก่อนออกสู่สาธารณะ	----	----	1x Plastic bottle - Preserved with H ₂ SO ₄ , 2x 1L Plastic Bottle, 1x 300mL Plastic Bottle - Preserved with Zinc Acetate and NaOH, 1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, 1x 1L Oil & Grease, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
EN0021	Bangkok	In-house method : STM 04-003 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)
EN0032	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - S2 (C, F)
EN0035	Bangkok	In-house method : STM 04-100 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (D)
EN0045	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B and part 4500 - O (C)
EN0048	Bangkok	In - house method : STM 04-014 based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B
EN0093	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 F
EN0099	Bangkok	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
EN0102	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D
MC6022	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B, E



Analysis Report CH2300180

Report Number : CH2300180-AA



TESTING
No.0009

Sub-Matrix: WASTEWATER

Client Sample ID

(Matrix: WATER)

Sub-Matrix: WASTEWATER (Matrix: WATER)							Client Sample ID		จุดปล่อยน้ำก่อนออกสู่ สาธารณะ	----	----
							Sampling Date		Dec 14, 2023 02:20 PM	----	----
Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300180-001	-----	-----	
						MNRE 2548 Type B	----	Result	----	----	
Chemical Parameters											
EN0045	Bangkok	BOD (5 days at 20°C)	----	2.0	mg/L	≤30	----	42 *	----	----	
EN0048	Bangkok	Oil & Grease	----	3	mg/L	≤20	----	4	----	----	
EN0021	Bangkok	pH at 25°C	----	1.0	pH Unit	5-9	----	8.0	----	----	
EN0032	Bangkok	Sulfides	----	0.5	mg/L	≤1	----	0.6 *	----	----	
EN0035	Bangkok	Total Kjeldahl Nitrogen as N	0.15	1.0	mg/L	≤35	----	33.1	----	----	
Microbiological Parameters											
MC6022	Bangkok	Fecal Coliforms	----	----	MPN/100mL	----	----	2400000	----	----	
Physical and Aggregate Properties											
EN0093	Bangkok	Settleable Solids	----	0.1	mL/L/hr	≤0.5	----	<0.1 *	----	----	
EN0099	Bangkok	Total Dissolved Solids at 103-105°C	----	5	mg/L	≤500	----	264	----	----	
EN0102	Bangkok	Total Suspended Solids	----	5	mg/L	≤40	----	36	----	----	

Guideline: MNRE 2548 Type B: Building: Notification of The Ministry of Natural Resources and Environment on Effluent from building Type B (Guideline for TDS are in addition to the TDS of the water used not more than 500 mg/L)

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

Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

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

----- END OF REPORT -----



Analysis Report CH2300180



TESTING
No.0009

Client : Dvieng Santitham Juristic Person Condominium
66, Hassadhisawee Rd., Tambon Chang Phueak, Amphoe Mueang Chiang Mai,
Chiang Mai, Thailand, 50300
P/O : ----
Project : ----
Project Location: Dvieng Santitham Juristic Person Condominium

Work Order : CH2300180
Report Number : CH2300180-AB
Date Received : Dec 15, 2023
Date Reported : Dec 25, 2023
Date Analysis Commenced : Dec 15, 2023
No. of samples received : 2
Temperature : 3.1 °C
Sampled by : Sitthichok Taseeda

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

Signatories

Tuanjai T.

Tuanjai Thangklang
Manager



Analysis Report CH2300180

Report Number : CH2300180-AB



TESTING
No.0009

Sample Receipt and Conditions

Sample ID	Sample Name	Sample Description	GPS	Conditions
CH2300180-002	สระว่ายน้ำ : ส่วนต้น	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated
CH2300180-003	สระว่ายน้ำ : ส่วนลึก	----	----	1x 500mL Sterile Bottle - Preserved with Sodium Thiosulfate, refrigerated

Brief Method Summaries

The methods in the analysis report are short format, refer to full test methods in accordance with the ISO/IEC 17025 certificate no. specified in the analysis report.

Method	Testing Lab	Method Descriptions
MC6009	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B
MC6012	Bangkok	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 9221 B,F



Analysis Report CH2300180

Report Number : CH2300180-AB



TESTING
No.0009

Sub-Matrix: PROCESS WATER

Client Sample ID

สระวายน้ำ : ส่วนต้น

สระวายน้ำ : ส่วนลึก

(Matrix: WATER)

Sampling Date

Dec 14, 2023 02:25 PM

Dec 14, 2023 02:30 PM

Method	Testing Lab	Analytes	LOD	LOQ	Unit	Guideline		CH2300180-002	CH2300180-003	-----
						MOPH 1/2550	----	Result	Result	----
Microbiological Parameters										
MC6009	Bangkok	Total Coliforms	----	----	MPN/100mL	<10	----	<1.1	<1.1	----
MC6012	Bangkok	Escherichia coli	----	----	in 100mL	Not Detected	----	Not Detected	Not Detected	----

Guideline: MOPH 1/2550: Recommendations of The Public Health Committee on Swimming Pool Operations

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

Sampling is not included in scope of accreditation ISO/IEC 17025

Key:

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

----- END OF REPORT -----